### Appendix D

# Well Plugging and Abandonment Records

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### Appendix D-1

### Oil and Gas Plugging Records

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### Chicoine 1 Oil and Gas Well Plugging Record

| abraska Oli and Gas Co<br>arm 4                  |   |  |                  |   |  |  |   |
|--|---|--|------------------|---|--|--|---|
|  |   |  | PLU              | gaing RE                                      | CORD   |  | Let 1   |
| suplicate for wells an-<br>welve months if reque | rty days following<br>patented or Feder<br>sted in writing. F | i the plugging of<br>al lands, and in<br>18 out form as ci   | triplicata for   | wells on State                                | nant of a prod                                 |  | perator shall submit this farm a<br>skill confidential for a period a   |
| Operator   |   |  | .i               | No  |  |  | · · · · · · · · · · · · · · · · · · ·   |
| Petronom:<br>Address                             | lcs, Inc.   | instruction  | ji ka            | (lither                                       | X  | rankkak  | X. &  |
| 3603 West  |   | rive, Ho   | uston.           |   |  | * **   |   |
| Well Number                                      | Lease None  | P. Chic  | nine             |   | inervoir (if wi<br>10brare                     | idcat, so state)                                       |   |
| Location   |   |  |                  | n er mendensson for in an ander               |  | County   |   |
| NW/4 NW,<br>Feature Location                     | /4 <u>Sec</u>   | <u>. 30 Tur</u>  | <u>30N</u>       | Ronge 501                                     | <u> </u>                                       | Dawes  |   |
| -  | m (N) (5) line,   |  | lt. from (E)     | (W) line of                                   |  | 14   |   |
| Spud Date<br>10-28-81                            | Date read   | hud T.D.<br>31-81  | Date Phy<br>11-1 |   | Total 0<br>264                                 |  | . <b>D</b> .  |
| LU-20-01   | Reference (indica   | and the second | 1 44-            | -01   |  | ducing rate on initial corr                            | plantion  |
| Ĩs 15 27 27                                      | ntes lers loss  |  |                  | Oil (BR                                       | hi/day)  | Gas (MCF/day)  | Woter (bbls/doy)  |
| 4455<br>Application to drill this                | well was filed in   | name of;   |                  |   | Prod   | ucing rate of linne of aba                             | ncionament  |
| <b>.</b>   |   |  | •                | 04 (5)  | is/day)  | Gos (MCF/doy)  | Woter (bbh/doy)   |
| Petrono  | <u>nics, Inc</u>  |  |                  |   |  |  |   |
| -<br>  |   | ······································   | CC               | NOITION OF                                    | KOLI   |  |   |
| dome each formation<br>which formations open     | containing all ar<br>a well bare at lim                       | gos. Indicate<br>a of phipping.  | Fluid<br>Contani |   | Depth<br>Interval                              | Size, kind and d<br>zones squeeze cemi                 | ipth of plugs used. Indicate<br>inted giving smount of cement   |
| Niobrara   |   |  | water            | <u>,                                     </u> | 2130'  | Cement Plug  | <u> 1900 - 2100'</u>  |
|  |   |  |                  |   | 484  | Cement Plug  | 450 - 500'  |
|  |   |  |                  |   |  | Cement Plug  | 550'  |
| ·  |   |  |                  |   |  |  |   |
| ize, kind and depth of                           | ony additional p  | kopi   |                  |   |  |  |   |
|  |   |  |                  |   |  |  |   |
|  | ,   | -  |                  |   | ۱D   |  |   |
| Size cosing<br>in O.D.                           | Weight<br>Ru/H.   | Setting<br>Depth   | Socks            | Coment  | Amount<br>Recovered                            | Amount lists<br>in well                                | Method of parting<br>(unot, rioped, etc.)   |
| 8 5/8  | 24  | 484  |                  | 500   |  | 484  | · · · · · · · · · · · · · · · · · · ·   |
|  | <b>i</b><br>d   | -  |                  |   |  |  |   |
|  |   |  |                  |   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,         |  | *   |
| Mus hole filled with m                           | vel-lacion libuic?  | <u> </u>   | 08               | <u>.</u>                                      |  |  |   |
| f this well was plugge<br>wher authorizing carry | d back for use as<br>letion of this will                      | of the start has   | Light Stra       | ent details of p<br>Neing to assue            | dugging operat<br>ne tult liability            | ions to base of fresh water<br>for subsequent phygging | and. Attoch letter from surf  |
| (/We hereby one                                  | ar or offirm thay   | day manungating  | filment          | Allompiere o                                  | tett territor (States)                         |  |   |
|  | t i t   | y repri  | -1097            | H   | 11.  | W Cit  | sty   |
|  |   | H  | 7 100m           | H2I   | 19 - 319 MC 1.0082042 1002 2 + 538 + 63 + 1979 | Signofian /  | And the second |
| NO CORES<br>NO TESTS                             | ·   | MAR 2  | OIL & CAS        | <b>H</b>                                      | Vice P   | rea.   |   |
| NO CORES<br>NO TESTS<br>NO LOGS<br>LOST HOL      | , <b>, , , , , , , , , , , , , , , , , , </b>                 | H MARY &   | OIL & CAS        | 引一  |  | res.<br>Tilk<br>h 18,1982                              | T CPC CONTENTION OF COMPANY OF COM   |

### Chicoine 1-A Oil and Gas Well Plugging Record

| lebraska Oli and Gas Ca<br>brin 4 ·   | nservation Commi                        | usion .   |  |                                    |                            |   |                         |   |
|---|---|---|--|------------------------------------|----------------------------|---|-------------------------|---|
|   | ,                                       |   | , PLU  | GGING RE                           | CORD                       |   |                         | $\mathcal{D}$   |
| utravillanus Within thi<br>uplicate for wells on j<br>retre months if reque | potented or Feder                       | ral lands, and in                                 | triplicate for   | wells on Stote                     | vent of a pu<br>lands. Geo | radiating well, the own<br>logical information wi | er or open<br>N be held | ator shall submit this form<br>confidential for a seried  |
| perator<br>PBTF   | ONOMICS,                                | Inc.  |  |                                    |                            |   |                         |   |
|   |   | al Highwa   | ay, Sui  |                                    |                            | Palm Beac   | h FL                    | 33408   |
| all Number<br>1-A   | Lease Nome<br>C                         | hicoine   |  |                                    | ildcat                     | •<br>************************************         |                         |   |
| SW/N  | W                                       | . 30 Tw   |  | Ronge 5                            | ÓW                         | County  | 98                      |   |
| 1820 <sub>ft. fre</sub>   | m (N) <b>(A)</b> line.<br>Date read     | 660   | ft. from XI  | (W) line of                        | Sec. 3                     | 0 <u>T30N</u>                                     |                         | R50W  |
| nud Dote<br><u>11-3-81</u><br>evaluation                                    | 1                                       | <u>-7-81</u>                                      | Dote PL  | 9-82                               |                            | Depth<br>3069                                     | P. 8. T. D              |   |
| 4490  | (xa) MHXMX                              | ne)   |  | - 041 (155)                        |                            | Producing rote on init<br>Gos (MCF/d              |                         | Water (bbis/day)  |
| plication to drill this   | well was filed in                       | name of:  |  | Oil (26)                           |                            | ducing rate at time                               |                         | State of the second      |
| Petr  | onomics,                                | Inc.  |  |                                    | 2                          | Gos (MCF/6  |                         | Water (bbb/doy)   |
| -   |   |   | C(   | NOTION OF H                        | olt                        |   |                         |   |
| me each formation<br>ich formations open t                                  | containing all ar<br>a well bare at tim | gas. Indicate<br>w of plugging.                   | Fluid<br>Conten  | r                                  | Dupth<br>Interval          | Size, kind<br>zones squeez                        | and depti<br>a comente  | n of pluge used. Indicate<br>d piving amount of cement  |
|   |   |   | 64   |                                    | <b>.</b>                   | 20 sad  | :k ce                   | ment plug   |
| **  |   |   | 6 6.61.22. <u>619. in</u> n  |                                    | <b></b>                    | 0-30 1  | Seet (                  | and   |
|   |   |   | William School and Sch |                                    | *****                      | 470-50  | )0 fe                   | et .  |
| e, kind and depth of  | any additional o                        | <u></u>   |  |                                    |                            |   |                         |   |
|   |   |   |  |                                    |                            |   |                         |   |
| r   |   | 2.44  |  |                                    |                            |   | 100 <b>10</b>           |   |
|   |   |   |  | CASING RECOR                       | 0                          |   | ·                       |   |
| Size casing<br>in Q.D.  | Ba/N.                                   | Setting<br>Oupth                                  | Socks  | Camena                             | Amoun<br>Recover           | f Amount<br>in w                                  | 1477<br>31              | Method of parting<br>(shot, risped, etc.)   |
| 44"   | 10.5                                    | 2633  | 1  | 75                                 | 117                        | 5145  | 8                       | shot  |
|   |   |   |  |                                    |                            |   |                         |   |
| n hole filled with mu   | o-laden theid?                          | Хев   |  |                                    |                            | <u> </u>  |                         | ······································  |
| this will wan plugged<br>her sutherizing campi                              | back for use as<br>ation of this well   | and the first                                     | - Dive pertinu   | int details of planting to causing | ugging opera               | stions to bose of fresh                           | water sor               | d. Attoch letter from surfa<br>h may be required.   |
| 1/We hereby swep  |   | OFTITI  | XW.  | re complete on                     |                            |   |                         |   |
|   | 四                                       | NLULIVE<br>Allegen                                | 」「回  | <u> </u>                           |                            | lelland "   | <u>L</u>                | ,<br>na a name y e byte of 2 database database general y estimation (2 database database database database database |
| new dry hole, cample<br>on reverse side of fo                               | मा हि                                   | AUG 2 6 19<br>IKBRASKA DIL & (<br>COMS. COMMISSIO | . L.I  | Pr                                 | 6. MCC<br>esiden<br>23-82  |   |                         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  |
|   | <u> </u>                                | 7   | S)   |                                    | # <b>3</b> - 82            |   | No                      | 18 1996 da additação é un viço no un consecto da la da da da da da este esta e                                      |
| · .   |   | GITTO   | <u>y</u>   | ·                                  |                            |   |                         |   |

### Hollibaugh 1 Oil and Gas Well Plugging Record

| leticako Oit and Gas (<br>aum d   | Lonservosion Commis  |  |                                  |                       |                                       |                                     | -(+)   |   |
|---|--|--|----------------------------------|-----------------------|---------------------------------------|-------------------------------------|--|---|
|   |  |  | PLU                              | GGING                 | RECO                                  | D                                   |  |   |
| nstructions: Within t<br>Suplicate for wells on<br>welve months it segu | hirty days following<br>potented or feder<br>rested in writing. Fi | the phagging of<br>of lands, and in<br>12 out form on 45 | triplicate for<br>impletely of j | walls on<br>possible. | State land                            | la. Geologic                        | at information will be hel                                 | nator shall submit this form<br>a confidential for a period           |
| GABLE DRILL   | LING CO., IN   |  |                                  |                       |                                       |                                     |  |   |
| 508 Pattary   | oon Bldg., D   | enver. Col   | o. 802                           | <b>0</b> 7            |                                       |                                     |  |   |
| Wall Number   | Lease Name   |  |                                  |                       | and resen                             | roit (II wild                       | cat, so slotej   |   |
| 1.<br>excetion  | Holliba  | ugh  |                                  |                       | Wilder                                | it                                  | T  |   |
| NB NE   | Sec.   | 12 Two   | 29 N                             | Range                 | 51 W                                  |                                     | Daves  |   |
| actope Location   |  |  |                                  |                       |                                       |                                     |  |   |
| 660 <u>(r. (</u><br>aud Date  | ram (N) (J) line,  |  | H. from (E)<br>Date Phys         |                       | af NOI                                | theast                              |  | ection  |
| 1-13-69   |  | 7-69   |                                  | 18-69                 | · .                                   | Total Day<br>3295 d                 | ah (P.S.T.C<br>1r. 3283109                                 | NA  |
| Instian   | Reference (indico  | te)  | and an annual second             |                       |                                       |                                     | lucing rate on initial compl                               | rikn  |
| 4244 KB<br>4236 GL  | (KB) (GL) (DF)   |  |                                  |                       | i) (bbb/da<br>A                       | V)                                  | Gas (MCF/day)  | Water (Uula/day)  |
| polication to drill th  | ls well was filled in  | nome of:   |                                  |                       | ił (bbla/do                           |                                     | ing rate at time of aband                                  |   |
|   |  |  |                                  |                       | A                                     | · •                                 | Gas (MCF/day)  | Water (bbbs/doy)  |
|   |  |  | CC                               | NDITION               |                                       |                                     |  |   |
| lame such formation<br>high formations open                             | a cantaining oil or<br>to well bare at tim                         | gat, Indicate<br>e et phogoing.                          | Fluid<br>Conten                  | ŧ                     | 0<br>Ioi                              | epih<br>Iervoj                      | Size, kind and dep<br>zones squeeze coment                 | th of plugs used. Indicate<br>ad giving amount of cemer               |
| Muđdy - J,  | Zonej  |  | Water ·                          | 2                     | 810-29                                | 30                                  | 11 35 sacks (  | ement   |
| Tertiary se   | inda 6 grave   | la   | Water                            | 2                     | 80-310                                | )                                   | #2 10 sacks o  | ement   |
| Top plug on   | nitted at la   | ndowner's  | request                          | for h                 | is con                                | versio                              | n into a domesti   | ic water well.  |
| ize, Mnd and depth  | ol any additional pl   | L.   |                                  | L                     | · ·                                   |                                     |  | , .   |
| Heavy drill   | ling mud bet   | ween cemen   | it pluga                         | •                     |                                       |                                     |  |   |
|   |  |  |                                  | CASING I              | RECORD                                |                                     |  |   |
| Size casing<br>in O.D.  | ¥#\$#?   | Setting<br>Cepiti  | A                                | mount<br>covered      |                                       | Amount la<br>in well                | fe Alia<br>(iit  | thad of parting<br>of, ricced, etc.)                                  |
| 8 5/8   | 24#  | 216' KB  |                                  | 0                     | 2                                     | 181                                 | NA   |   |
|   |  |  |                                  |                       |                                       |                                     |  |   |
|   |  | •  |                                  |                       |                                       |                                     | 1  |   |
| An hole filled with   | mud-laden Muid?  | 1.00   |                                  |                       | <b></b>                               |                                     |  | ·   |
| Riobrara Shale<br>Codell sendets<br>Greenhorn lim                       | one 22   |  |                                  | inte outcut           | e of plugg<br>assume fi               | ing operatio<br>Al Dobility :       | ris to base of fresh water a<br>for subsequent plagging wh | and. Altach letter from sur<br>ich may be required.                   |
| Sentonite Mar<br>Ruddy J Zona<br>Zona                                   | ker 259<br>1 27  | 92 Holding   | 1 1969 <b>*</b>                  | arë, compl<br>        | nin orgene<br>k                       | 24.1                                | Th (ban  | •   |
| 2018<br>2018<br>2018  | J 284  | 48 Nehiasi   |                                  | J.                    | f.)                                   |                                     | Signature<br>Signature<br>Geologist                        |   |
| Cheyenne aanû   |  | 32 Cons. (   | Multe Ischem                     | j.                    | , 8 x 4 and 4 are per a 4 a x 8 a va  | - 6799-69 - 993 <b>-</b> 889-6699 - | Tille  |   |
| No cores or t   | ests.  | V BU   | ور<br>من م <sub>ن</sub> وا       |                       | • • • • • • • • • • • • • • • • • • • |                                     | Harch 28, 1969   | Pta t ar a gan yang makil si kada da |
| ()  |  |  | - 947-19 - <sup>20</sup> -       |                       |                                       |                                     |  |   |

## Porter 1 Oil and Gas Well Plugging Record

|   |  | AU   | G 2 1956  |
|---|--|--|---|
| NO LOGS RUN   | PLUGGING AFFIDAVIT   |  |   |
| ABTRUCTIONE: Fill i<br>Iniversity of Nebraska,<br>one 57-313 to 67-317, a<br>ords or Jetters, cross ( | in completely as possible one co<br>, Lincoln, Nebruka within 18 day<br>mended by Legislative Bill 433,<br>out those not applicable. | py and mail to Nebratha Geological Burvey, No<br>a after plugging (Revised Biatules of Nebrath<br>Sind Bession, Legislature of Nebrasha.) Underlij | ebruska Hall,<br>a. 1943, sec-<br>ne applicable |
| tase Name   |  |  | 1   |
| egui Description Locut  | tion (Example: C N/S-NE/4-NE/4   | Di T   | -   |
| BE/458/4 20   | TWP  | S1W GR (W); County Daves   | 18 (6 ) 40 ED 191 20 19 194 (4+2 +++            |
|   | /) of \$100 (E) line;  |  |   |
| persiting Compley   | Tom Petter   |  | R Mill Stranger gript a balance in a            |
|   | 1032 Life of Aseri   | es Bldg., Dellas, Texas  | *   |
|   |  | ungga ugana ni databé dégene pana manggadét (Kiancia Kiant) tinu kapét palakan kanangta képetak  | e   |
| •   | 1032 Life of Ameri   | · ·  |   |
| -   |  | /56 ; sempletion date 3/29/56, pinging da  | . 1/28/46                                       |
|   | ing (new) 2000 Birs. 10-3/A?   |  | <b>88</b> , 468, 11: 78, 16 75-                 |
|   |  | · · · · ·  | •   |
|   | tt; Cement used  | ×  | * * P*#################################         |
|   | a of hole 23-3/4 in.; Depth c  | None Mede  |   |
|   | EFT-man fL (Attach electric log e  |  | _   |
| ature of Welli (wildra  |  | anteringenering States   |   |
| esson for Abendanme   | at   | n an   |   |
| using record other th   | an surfees pipe (indicate amoun  | t, size and weight of each string run, how set   | or comented.                                    |
| topying Record (state<br>LAP) 285<br>Put 50 a<br>Put 20 a   | in detail each step in plugging p<br>it of pipe in hole<br>make of essent at 3394"<br>make of essent at 3500"                        |  | ¥¥66623423433443344334634634                    |
| will tradease chantel   | Sycus maxada   | Data Mareh 29, 1994  | approved by                                     |
| Hame of Witness to  | Physics Bill Painter   |  | *****   |
|   | AT   | FIDAVIT  |   |
| L   |  | of the Potter Drilling Company   | ting grinning to the state of the               |
| minimum and that the  | ALLAS<br>and sworn on call, sists That<br>sums are true and correct.   |  | estere berein                                   |
| In Witness whereof  | I herninbifore set my hand and i   | affin my afficial such this  | day of  |
|   | <b>56</b>  |  | *   |
| ly commission Explore   | M. 4/1/97  | Servering & Miller   | _7<br>- Mekkalistin Kanada ( 6 Ca 28 Ca         |
| ~ D   | * * *  | Dallse County, T   |   |
|   | ~  |  |   |
| 10 200-   | availabl   | n 1  |   |

| NETRUCTICAL   |  | PPIDAVIT-STAT   |   |  |
|---|--|---|---|--|
| niversity of Ne<br>ons \$7-213 to 5<br>ords or letters  | b) Fill in as completely as poil<br>obrasha, Lincoln, Nebrasha w<br>7-217, amended by Legislative,<br>eross out those not applical   | mible one copy and main<br>within 18 days after plu<br>a Bill 433, 62nd Session,<br>ble.  | a to Represe Geolog<br>wing (Revised Statu<br>Legislature of Nebr   | nun nurvey, stepraska Hall,<br>tes of Nebraska, 1963, scc-<br>aska.) Underline applicable  |
|   | Roscoo Royal   |   |   | WILL NO. 2   |
| egal Descripilo   | n Location (Example: C N/I   | I-NE/4-NE/4):   |   | · · ·  |
| SW SW   | Bec. 23. TWD   | . 30 No., Kps. 51   | (T) (W); Count  | Daves  |
| 860   |  | line: 960   | TL ()) ()) ()) of (0) ()  | b line of  |
| perating Com  | oung .Oulf Oil Corpo   | ration  | -1981-1-20-02-0286-1-1-1-080-9-8-4  |  |
| llice Address   | 134 B. Hidwast   | Avo., Casper, Wy  | oning   | $\frac{1}{2}$ . Let $p_{1}, p_{2}, p_{3}, p_{4}, p_{4}$ |
| osimeler  | Dunbar Drilling  | e Company   | ······································  |  |
| lilee Address   | Denver, Colore   | do  | 9<br>3  |  |
|   | (rotary) tools. Brudding   |   | •   | 1e 1-23-53   |
|   | ta Callas (new) Call Bine  |   |   | ,  |
|   |  |   | •   | er. Portland   |
| ۴.  | aia: Bize of hole 13-3/4   | ×   |   |  |
|   | Hole 3956 n. Gil   |   |   | W1651 ground   |
| • .   | : (wildcat) (field well offer  | And the second se |   | 44681 derrick floor  |
| rason for Aba   |  | •   |   |  |
| · · · · ·   |  |   |   | · · · · · ·  |
| asing record o  | ther than surface pipe (ind  | icele amount, size and  | weight of each string   | I fun, now set of commited   |
| hether pulled   | or left in hole and where a  | cut if partially pulled)  |   |  |
|   | «»• « »»» «»» «»» «»» «»» «»» «»» «»» «»   | -   |   | 20 - 20045-0000629062398009-63-0-22 600960-680-6294294429465-6   |
| ***** \$0 \$2 * 2** #\$ \$000 2 \$***************   |  |   | •   |  |
|   |  | Association and the second second second  | NACES - LOSS - LOSS - LOSS - LOSS - LOSS - LOSS   | a de la companya de l  |
| Badda (R).i. annangigan mananca.  | a un suc arri acorers vig<br>A   | •   |   |  |
| tugging Recor   | d (state in detail such stay   | p in plugging procedur  | p Filled hole   | with heavy mud from  |
| total dapt  | d (state in detail each stay<br>in to 4001, placed 40  | o in plugging procedur<br>nacky cement plu  | p Filled hole.  | with heavy mud from<br>320', heavy mud from  |
| total dapt<br>32:)1 to 22   | d (state in detail each stay<br>in to 1001, placed 40<br>11, 10 sacks cament p   | o in plugging procedur<br>sacks centent plu<br>lur from 221 to 1  | e Filled hole   | with beavy mud from<br>320', heavy mud from  |
| tugging Recor<br>total dapt<br>32.)1 to 22  | d triate in detail each stay<br>in to 1001, placed 40  | o in plugging procedur<br>sacks centent plu<br>lur from 221 to l  | n Fillod hole<br>g from 400! to<br>ottom of cellar  | with beavy mid from<br>320', heavy mid from  |
| total dapt  | d (state in detail each stay<br>in to 1001, placed 40<br>11, 10 sacks cament p   | p in plugging procedur<br>sacks centent plu<br>luc from 224 to 1  | n Filled hole<br>g from 400! to<br>ottem of cellar  | with heavy mid from<br>320!, heavy mid from  |
| total dant<br>total dant<br>32)1 to 22  | d triate in detail each stay<br>in to 1001, placed 40  | <ul> <li>In plugging procedur</li> <li>sacks centert plu</li> <li>lur from 22* to 1</li> <li>Back</li> </ul>  | p Filled hole<br>g from 400! to<br>ottom of cellar<br>Date 1.2  | with beavy mid from<br>320', heavy mid from<br>2253  |
| tugging Recor<br>total dapt<br>32)1 to 22<br>tugging Process<br>(Insert "Disr<br>the Nebraska   | d (state in detail each step<br>h to 1001, placed 40<br>!!, 10 sacks canant p<br>dure Approved by S. C.<br>thet approved by S. C.  | e in plugging procedur<br>sacks centent plu<br>luc from 221 to 1<br>. Road<br>elds or areas where si  | n Filled hole<br>g from 400! to<br>otten of cellar<br>anders plugging proc<br>Address 740   | with heavy mid from<br>320!, heavy mid from<br>2253<br>edure has been approved by<br>South 15th its  |
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### Smith 1-A Oil and Gas Well Plugging Record

| • • • •                                       |  |  |  | PLU                            | GGI              | NG RECOI                        | D  |                                       |                            |                          |  |
|---|--|--|--|--------------------------------|------------------|---------------------------------|--|---------------------------------------|----------------------------|--------------------------|--|
| atractions Within thi                         | ety days following                     | the clussing   | ata                                    | dry hole, (                    | w the            | chondonment                     | el e oroc  | Lucina well. (                        | he owner o                 | otowaa s                 | r shall subreat this form in   |
| plicate for wells on<br>elve months (il reque | potented or fede                       | rol lands, and<br>fill out form at   | in trig<br>comp                        | plicate for                    | weilt<br>possib  | on State Jond                   | li. Geolog   | pical Informa                         | tion will be               | e held co                | ntidential for a period of   |
| perotor                                       |  |  |  | <b></b>                        |                  |                                 |  |                                       |                            |                          |  |
| Toli  | æk Drillin                             | ng Compan  | <u>ү б</u>                             | Q.N.                           | leei             | •                               |  |                                       |                            |                          |  |
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| otoge Location                                |  |  |  |                                |                  | _                               | - :  |                                       |                            |                          | • • •  |
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| evotion                                       | Reference (indio                       |  | 1.100.00000000000000000000000000000000 | -8 x                           |                  |                                 | Pr   | etos présubo                          |                            | omoletion                |  |
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| pplication to drill this                      | well was filed in                      | name of:   |  |                                | L                |                                 | Prod   | ucing rate a                          | t time of c                | ibondonm                 | <b>m)</b>  |
| Toltek Drill                                  | Ing Compar                             | ıy   |  |                                |                  | Oil (bbis/de                    | ¥1   | Gas                                   | (MCF/day)                  |                          | Water (bbis/day)   |
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| ome wath formation<br>high formations open    | containing oil or                      | gas, Indicate  |  | Fkid                           |                  | .0                              | epth   | Siz                                   | e, kind and                | i depth o                | f plugs used. Indicate<br>pring amount of commit.                                      |
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### Appendix D-2

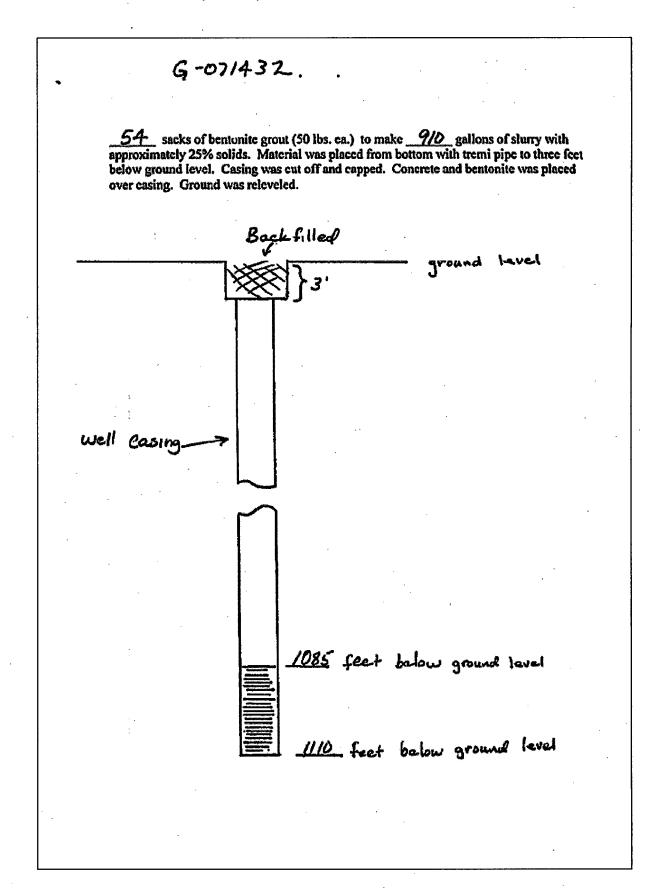
# Water Well Abandonment Records

:7

| Complete by paining in late or typing the popyrise information.<br>Submit the completed form to the above address within 60 days of<br>decommissioning.<br>1. Well Owner Information:<br>Name: <u>CROW BUTTE RESOURCES</u><br>Address: <u>Box 149</u><br>City: <u>Cleanstone</u> <u>State: NE Zp: 69339</u><br>City: <u>Cleanstone</u> <u>State: NE Zp: 69339</u><br>Control of Use O 11-Nemaha 0 11<br>003-Up, Big Bine 0 11-Nemaha 0 12<br>003-Up, Big Bine 0 11   | HEBRASIA DEPARTMENT OF NATURAL RESOURCES<br>P.O. BOXIMIA, LINCOLN, HEBRASIKA (2007-4614<br>(403) 411-2143 | ka mko<br>Lyera   |
|---|---|---|
| Complete by performance information.<br>Submit the completed form to the above address within 60 days of<br>decommits completed form to the above address within 60 days of<br>$\frac{1}{1000}$ Uses $\frac{1}{1000}$ Uses $\frac{1}{1000}$ Uses $\frac{1}{1000}$<br>Name: <u>CADEM BUTTE RESOURCES</u><br>Address: <u>BOX 149</u><br>City: <u>CADEM BUTTE RESOURCES</u><br>Address: <u>BOX 149</u><br>City: <u>CADEM FORMATION</u><br>Sate: <u>NE Zp: G9339</u><br>Constraints<br>Name: <u>LAAMARILL EXPLORATION</u><br>Address: <u>102 PINE</u><br>Constraints<br>Name: <u>LAAMARILL EXPLORATION</u><br>Address: <u>102 PINE</u><br>Constraints<br><u>SOB</u> 6455-2493 <u>1901702</u> <u>UBELL</u><br>35. Well Registration of Well Location: County <u>MAUES</u><br>Tormsthip <u>2901</u> Range <u>SI LM</u> Section Lines<br><u>SSD</u> foot from        |   | VELL ABANDONMENT  |
| Steinis the completed form to the shore address within 60 days of decommendationing.<br>I. Well Owner Information:<br>Narie: <u>CROWN BUTTE RESOURCES</u><br>Address: <u>BOX 169</u><br>Chy: <u>CRACHORD</u> State: <u>NE 70; 69339</u><br>Chy: <u>CRACHORD</u> State: <u>NE 70; 69339</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>Contractor's Lidentation<br>Name: <u>102 LINE</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>Name: <u>102 Line Media</u><br>2. Respon Completing Decommissioning (if not owner)<br>Contractor's Lidentation<br>See Sketch<br>3. Well Registration Na. (if applicable). <u>G-071432</u><br>3. Well Location Name: <u>Scrient Lines</u><br><u>3. Street Address of Block, Lot and Subdivision (if applicable).<br/>3. Well Location in Feet from Section Lines<br/><u>3. Street Address of Materials Used</u> Betterials Used Betterials Used Betterials Used Better Lines for from Section Lines<br/><u>3. Dieter from Section Lines</u><br/><u>3. Location of Well Cover Use</u>.<br/>4. Type and Thickness of Materials Used Betterials </u>  |   | FOR DEPARTMENT USEC SIN   |
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| City: CARLEDED       State: NE TIP: 69339         City: Construction       Bosh 1465-2215         Construction       Work Phane Na         2. Respective Completing Decommissioning (if not owner)       Construction is Information         Constructor's Information       District Phane Na         Name: LAANBRILL EXPLORATION       District Phane Na         Address: 102       PINE         Constructor's Information       District Phane Na         Name: LAANBRILL EXPLORATION       District Phane Na         Address: 102       PINE         Constructor's Information       District Phane Na         Constructor's Information       District Phane Phane         See Sketch       See Sketch         See Sketch       See Sketch </td <td>allers: Box 169</td> <td>OOL-Up. Big Blue O 10-Paplo-MissouriO 18 Central Phase</td>   | allers: Box 169   | OOL-Up. Big Blue O 10-Paplo-MissouriO 18 Central Phase  |
| Image Processing       Bogs 1645 - 2215         Image Processing       Work Phonessing         2. Person Completing Decommissioning (if not owner)       O644 pr. Nichers D12         Contractor's Information       D054 into Busse D144 pr. Nichers D12         Name:       LAND RILL EXPLORATION         Address:       102         Processing Processing       Internation         Name:       LAND RILL EXPLORATION         Address:       102         Processing Processing       Internation         Name:       LAND RILL EXPLORATION         Address:       102         Processing Processing Processing       Internation         Set of Decommissioning       Internaton         Midly of the Midl   | In CARLORD Sale NE TIN 69379  |   |
| C. J.Less 1 $U_{CS} 1 - U_{CS} 1 - U_{CS$   |   | GO4-Low, Ekihom Q 13-Mid. Nichem (321. Ja Rept.Rem  |
| <ul> <li>2. Persona Completing Decommissioning (if not owner)<br/>Contractor's Lalormation</li> <li>Name: <u>LANDERLL EXPLORATION</u></li> <li>Address: <u>102 PINE</u></li> <li>Address: <u>102 PINE</u></li> <li>City: <u>CHIWEDED</u> State <u>NEETINE</u> <u>69339</u></li> <li>Contractor's License No.</li> <li>Contractor's License No.</li> <li>See Sketch</li> <li>See Sketch</li> <li>See Sketch</li> <li>Tornship <u>29N</u> Range <u>51 kl</u> Section <u>1</u></li> <li>Mall's of the <u>Mbly</u>.</li> <li>See Street Address of Block, Lot and Subdivision (if applicable).</li> <li>Well Location in Foet from Soction Lines <u>39D</u> foe</li></ul>  | 1 (508) (4(2) - 2 - 4 - 5)<br>area Danse No.  | D05-Linke Bloc 014-Low, Niebrara 012, viid, Republica   |
| Configure of Information         NameANDREILEXPLORATION         NameANDREILEXPLORATION         AddressOR  | Person Completing Decommunistioning (if not owner)  | 007-Low. Loop 0 16-South Plate 0 24 (ri-Bada  |
| Address: <u>1022 11/22</u><br>City: <u>CMAURDRO</u> State: <u>MEDip</u> : <u>69339</u><br><u>Boriouses Phone No.</u> <u>Contractor's License No.</u><br>3a. Well Registration No. (If applicable). <u>G-071432</u><br>3b. Type of Ground Water Use <u>MD01702</u> <u>IUELL</u><br>3c. Date of Decomprisioning <u>7/10/0/</u><br>3d. Legal Description of Well Location: <u>Coursey <u>MAUES</u></u><br>Township <u>2900</u> Range <u>51/10</u> Soction <u>1</u><br><u>MUL</u> % of the <u>Alk/</u><br>3e. Street Address of Block, Lot and Subdivision (If applicable).<br>3f. Well Location in Feet from Section Lines<br><u>SSD</u> foet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle one) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One) section line<br><u>BI 5</u> feet from East of West Circle One  | Contractor's Informations   | 008-Lewis/Clark 017-Twin Plane  |
| City: <u>CMRWFD&amp;D</u> Stater <u>METRIP:</u> <u>69339</u><br><u>Boriness Place Na.</u> <u>19019</u><br>Boriness Place Na. <u>Contractor's License No.</u><br>3a. Well Registration No. (If applicable). <u>G-07/932</u><br>Jb. Type of Ground Water Use: <u>MMM/TDA</u> <u>WELL</u><br>3c. Date of Decommissioning <u>7/10/01</u><br>3d. Legal Description of Well Location: <u>Counsy <u>MANES</u></u><br>Township <u>29M</u> Range <u>51 W</u> Soction <u>1</u><br><u>MAN</u> of the <u>MM/</u><br>3e. Street Address of Block, Lot and Subdivision (If applicable).<br>3f. Well Location in Feet from Section Lines<br><u>85D</u> foet from Section Lines<br><u>815</u> foet from Section Lines<br><u>816</u> for from Section Lines<br><u>817</u> foet from Section Lines<br><u>818</u> for from Section Lines<br><u>819</u> foet from Section Lines<br><u>819</u> foet from Section Lines<br><u>819</u> foet from Section Lines<br><u>810</u> | ites 102 PINE   | 42. Actual Method for Decommissioning of Vi all. Uso Sketch<br>below (if appropriate), or illustrate method of  |
| Borivers Phone No.       I 90/9         Burivers Phone No.       Contractor's License No.         3a. Well Registration No. (If applicable).       G - 07/4-32  | CONTROLO State NEZIX 69339  |   |
| Borivers Place No.       Contractor's License No.         3a. Well Registration No. (If applicable) G = 07/432_         3b. Type of Ground Water Use <u>MODITOR WELL</u> 3c. Date of Decommissioning 7/10/01         3d. Legal Description of Well Location: County <u>MALUES</u> Township 29/M Range 5/10 Soction 1         MR/M of the <u>Alky</u> 3e. Well Location in Feet from Soction Lines <u>SD</u> foet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (circle one) section line <u>B</u> [5] feet from East or West (c   |   | THE BEAR DURING   |
| <ul> <li>3a. Well Registration No. (If applicable) <u>G - 07/ 4.32</u></li> <li>3b. Type of Ground Water Use <u>MONITOR WELL</u></li> <li>3c. Date of Decommissioning <u>7/10/01</u></li> <li>3d. Legal Description of Well Location: County <u>MALIES</u><br/>Township <u>29/M</u> Range <u>5/ W</u> Section <u>1</u></li> <li>3e. Street Address of Block. Lot and Subdivision (If applicable).</li> <li>3f. Well Location in Feet from Section Lines<br/><u>85D</u> foet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section line<br/><u>815</u> feet from East or West (circle one) section</li></ul>  |   |   |
| <ul> <li>32. Well Registration No. (If applicable). <u>(g - 0 // 4-5 // 4-</u></li></ul>  |   | dan akatah  |
| <ul> <li>3b. Type of Ground Water Use <u>MONITOR</u> <u>INFLE</u></li> <li>3c. Date of Decommissioning <u>7/10/01</u></li> <li>3d. Legal Description of Well Location: County <u>MANES</u><br/>Township <u>29M</u> Range <u>5/10</u> Section <u>1</u></li> <li>3e. Street Address of Block, Lot and Subdivision (If applicable).</li> <li>3f. Well Location in Feet from Section Lines<br/><u>85D</u> feet from Section Lines</li> <li>3g. Location of Water Use: County <u>MANES</u><br/>Township <u>29M</u> Rango <u>5/100</u> Section line</li> <li>3g. Location of Water Use: County <u>MANES</u><br/>Township <u>29M</u> Rango <u>5/100</u> Section <u>1</u></li> <li>4d. Type and Location of Materials Used Bet<br/>Layers. Indicate plug depth(s) on left side</li> </ul>   | Well Registration No. (If applicable) G-07/432  | See seach   |
| <ul> <li>3d. Legal Description of Well Location: County <u>MAULES</u><br/>Township <u>2911</u> Range <u>51 W</u> Section <u>1</u></li> <li>4b. Type of Back Fill Used in Upper Three Fe<br/>area is greater than three feet, indicate dep<br/>MU/4 of the <u>Mill/4</u></li> <li>3e. Street Address of Block, Lot and Subdivision (If applicable).</li> <li>3f. Well Location in Feet from Section Lines<br/><u>850</u> foet from Fest or West (circle one) section line<br/><u>815</u> foet from East or West (circle one) section line</li> <li>3g. Location of Water Use: County <u>MAULES</u><br/>Township <u>2911</u> Range <u>51 W</u> Socion <u>1</u>.</li> <li>4d. Type and Location of Materials Used Bet<br/>Layers. Indicate graph (s) on left side</li> </ul>   | Type of Ground Water Use 10017012 INELL   | MATERIALS   |
| Township       29// Bange       5/ W Section       40. Type of Back Fill Used in Opper Three Fearrers is greater than three feet, indicate dep area is greater than three feet, indicate dep         36. Street Address of Block, Lot and Subdivision (if applicable).       40. Type and Location of Well Cover Use.         37. Welt Location in Feet from Section Lines       40. Type and Location of Well Cover Use.         38. Welt Location in Feet from Section Lines       40. Type, Amount, and Location of Materials         39. Location of Water Use: County       DAWE_S         Township       629/M         39. Location of Water Use: County       DAWE_S         Township       629/M         39. Location of Water Use: County       DAWE_S         Township       629/M         Auge       40. Type and Thickness of Materials Used Bet Layers. Indicate plug depth(s) on left side  |   |   |
| M/M/4         3c. Street Address of Block, Lot and Subdivision (if applicable).         3f. Welt Location in Feet from Section Lines <u>B</u> D fact from Vorth of South (circle one) section line <u>B</u> D fact from East on West (circle one) section line         3g. Location of Water Use: County <u>DAWES</u> Township <u>CPAN</u> Rango <u>SI (k)</u> Socilon <u>/</u> <u>Mul</u> % of the <u>Alkl</u> %         4c. Type and Location of Materials Used Bet Layers. Indicate plug depth(s) on left side   |   | 45. Type of Back Fill Used in Upper Three Fat. (If compared<br>area is greater than three feet infinite feet a feature than   |
| <ul> <li>34. Welt Location in Feet from Section Lines <ul> <li><u>850</u> foet from Section Lines</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>815</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> <li><u>816</u> foet from East on West (circle one) section line</li> </ul></li></ul>   |   | and the second |
| <ul> <li>31. Welt Location in Feet from Section Lines <ul> <li><u>8</u> <u>5</u> feet from North of South (circle one) section line</li> <li><u>8</u> <u>5</u> feet from East or West (jurde one) section line</li> <li>32. Location of Water Use: County <u>JAWE-S</u></li> <li>Township <u>29</u> <u>N</u> Rango <u>57</u> <u>W</u> Socion <u>1</u>.</li> <li><u>MW</u> % of the <u>AlW</u> <u>%</u></li> </ul> </li> <li>44. Type and Thickness of Materials Used Bet Layers. Indicate plug depth(s) on left side</li> </ul>   | Street Address of Block, Lot and Subdivision (if applicable).   |   |
| 8 50 foot from North or South (circle one) section line         8 50 foot from East on West (kinde one) section line         9 5 foot from East on West (kinde one) section line         9 5 foot from East on West (kinde one) section line         9 5 foot from East on West (kinde one) section line         9 5 foot from East on West (kinde one) section line         9 6 foot from East on West (kinde one) section line         9 7 6 foot from East on West (kinde one) section line         9 7 7 7 7 8 foot from East on West (kinde one) section line         9 7 7 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 7 8 foot from East on West (kinde one) section line         9 8 foot from East on West (kinde one) section line         9 8 foot from East on West (kinde one) section line         9 8 foot from East on West (kinde one) section line         9 8 foot from East on West (kinde one) section line         9 8 8 foot from East on West (kinde one) section line         9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  | -   | 4c. Type and Location of Well Cover Use.  |
| B       5       feet from East on West (Gircle one) section line         3g. Location of Water Use: County <u>DAULES</u> Township <u>5790</u> Range <u>5760</u> Socion /         NUL % of the <u>Alk</u> 44. Type and Thickness of Materials Used Bet Layers. Indicate plug depth(s) on left side   |   |   |
| 38. Location of Water Use: County <u>DAWES</u><br>Township <u>57910</u> Rango <u>51 (L)</u> Socilon <u>/</u><br><u>N(L)</u> % of the <u>AlW</u> %<br>40. Type and Thickness of Materials Used Bet<br>Layers. Indicate plug depth(s) on left side  |   | Al There Amazing and and a share the set  |
| 3g. Location of Water User County <u>DAWES</u><br>Township <u>2911</u> Rango <u>51 (L)</u> Socion <u>1</u><br><u>AUL</u> % of the <u>AUU</u> %<br>Layers. Indicate plug depth(s) on left side   |   |   |
| NW % of the NW %<br>Layers. Indicate plug depth(s) on left side   |   |   |
| Layers. Indicate plug depth(s) on kft side  |   |   |
|   |   | <ol> <li>Type and Thickness of Materials Used Bet reen Confining<br/>Layers. Indicate plug depth(3) on left side (sketchECEN)</li> </ol>  |
|   | Date Well Lass Operated   |   |
| 3L Well Casting Size 4.5" Z. O.   | Well Casing Size 4.5" Z. O.   | (AN 25  |
| I am familier with the information submitted on this form and to the best of my inevitedpo, it is one.  | an familier with the information submitted on this form and to the  | nest of any knowledge, it is one  |
| Run 2 20 T/20/01 Tholas Kurls 7/  | Burg 2 2 2 T/20/01  | Told Suma alio In.  |

#### Well 863A (G071432) Notice of Water Well Abandonment Record

Well 863A (G071432) Notice of Water Well Abandonment Record



#### Well 864A (G071433) Notice of Water Well Abandonment

| NEBRASIA DEPARTMENT OF NATURAL RESOURCES<br>P.O. BOX MANA, LINCOLA, NEBRASIA 66507-4676<br>(4021-471-236) | ara<br>Ara   |
|---|--|
|   | VELL ABANDONMENT   |
| Lastructions<br>Complete by printing in lak or typing the propropriate information.                       | FOR DEPARTMENT USEC ALY  |
| Submit the completed form to the above address within 60 days of  |  |
| decommissioning.  | 1-25-2001 G- 71433   |
| I. Well Owner Information:  | Owner Code Sequence ) humber   |
| Notice CROW BUTTE RESOURCES   | 39475 79595  |
| Address: Box 169  | NRD<br>Ool-Up, Big Bipe () 10-Papio-Missonri() 18 - Zentral Plana  |
|   | 002-Low, Big Blocd 11-Nemaha 019 Low, Marra M.   |
| City. <u>ClawForlo</u> State: NE Zip. 6933  | 003-Up. Elihom 2012-Up. Niobrara 020 .ow. Platte S.<br>004-Low. Elihom 0 U-Mid. Niobrara 021. Jp. Republica        |
| <u>6 3</u> 3081 465-2215  | 005-Links Blac D14-Low, Nichrara 0 22. Vid Republic  |
| Home Phone No   | 006-Up. Loup 015-North Platte 023ow, Republic<br>007-Low, Loup 016-South Platte 024- Ni-Busin                      |
| Contractor's folomation   | Gos-Lewis/Clark E 17-Twin Plane  |
|   | 4a. Actual Method for Decommissioning of Wall. Use Sherry  |
| Address: 102 PINE   | bulow (if appropriate), or illustrate methor, of<br>docommissioning on a separate short.                           |
| City: CRAWFORD State: NETip: 69339  | BACOND STRUCT  |
| 308, 665-2493 19019   |  |
| Business Phone No. Contractor's License No.   |  |
|   | see sketch   |
| 3a. Well Registration No. (If applicable) 6-07/433  | I JUL II   |
| 3b. Type of Ground Water Use MONITOR WELL   | WAT AL TANKS   |
| 3c. Date of Decommissioning 7/10/01<br>3d. Legal Description of Weil Location: County DAWES               |  |
| Township 29/ Range 5/ W Section /   | 4b. Type of Back Fill Used in Upper Three Fe t. (If course   |
| SW Not the SULX   | area is greater than three foot, indicate depr 1 of excernition  |
| ie. Street Address of Block, Lot and Subdivision (if applicable).   |  |
|   | 4c. Type and Location of Well Cover Use.   |
| IL Well Location in Feet from Section Lines   |  |
| (200 feet from North o South dirthe one) section line   | Ad Then American and an article of the second  |
| 1300 feet from East or West Rivele one) section line  | 44. Typo, Amount, and Location of Materials 1 ised in Lower<br>Casing.   |
| g. Location of Water User County  |  |
| Township 29/ Rango 5/12 Section 1   |  |
| SW % of the SW %  | 40. Type and Thickness of Materials Used Ber ren Confining<br>Layers. Indicate play depth(s) on left side faketch. |
| h. Dats Well Last Operated UNKNOWN  | R  |
| i Well Casing Size 4.5" I. D.   |  |
|   |  |
| I and familiar with the information submitted on this form and to the                                     |  |
| Kyon K K 1/20/01  | - Tralaf Fruck - 7/19/01   |
| Water Well Contractor's Signature Date . /  | Water Well Owner's Spinsture Date  |

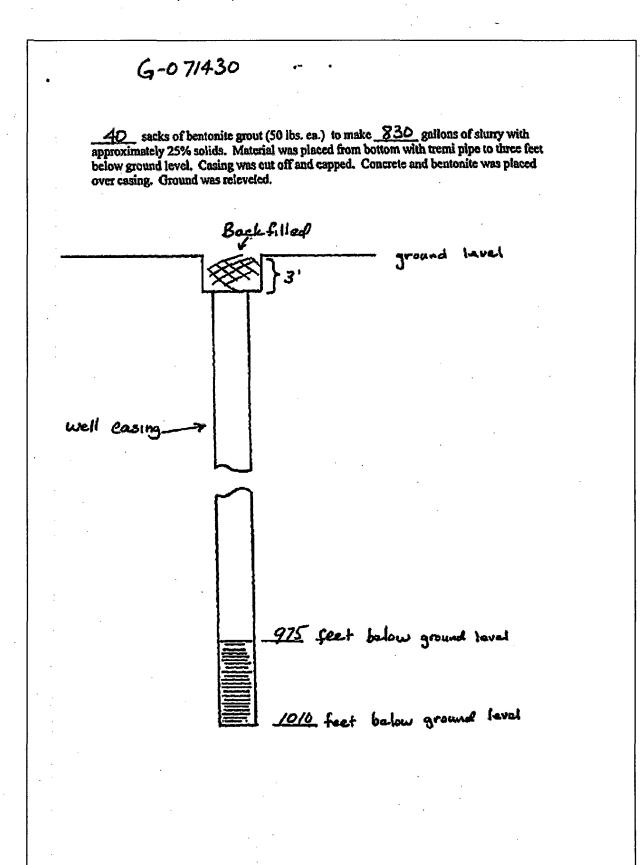
Well 864A (G071433) Notice of Water Well Abandonment

G-071433 40 sacks of bentonite grout (50 lbs. ca.) to make <u>860</u> gallons of slurry with approximately 25% solids. Material was placed from bottom with tremi pipe to three feet below ground level. Casing was cut off and capped. Concrete and bentonite was placed over casing. Ground was releveled. Backfilled ground lavel well casing 1015 feet below ground level 1045 feet below ground level

#### Well 865A (G071430) Notice of Water Well Abandonment Record

| NEESANTA DEPARTMENT OF NATURAL RESOURCES   |   | ONE AB   |
|--|---|--|
| P.O. BOX 94675, LINCOLN, NEBRASIKA 61509-4675<br>(401) 471-2563  |   | JULY 2   |
| NOTICE OF WATER V  | VELL ABANDON  | MENT   |
| Lastractions   | 1 Mainiaga  | STATISTICS STATISTICS  |
| Complete by printing in Ink or typing the sporopriate information.   |   |  |
| Submit the completed form to the above address within 60 days of<br>decommissioning.                                   |   | Registratic t Number   |
| I. Well Owner Information:   | 1-25.2001   | Sequence   fumber  |
| Ros Brown Recorder   | ZOLINE  | 179500   |
|  | NRD   |  |
| Address: Box 169   |   | pio-Missouri II 18 - Sentral Platts                                |
| City CLAWFORD State NE Dig 6935  | 002-Lon. Big Blocd UI-No<br>003-Un Elidora 12-Un    | maha 019 low. Plane N.<br>Nobrara 020 low. Plane S.                |
|  | QO4-Low, Etihom Q 13-MS                             | d. Niebraca (121- Ja. Recohilcon                                   |
| CA Boos No. Work Phone No.   | 0 05-Linke Blue 0 14-Lo<br>0 05-Up. Loup 0 15-No    | w. Niobrara 0 22- viid. Republican<br>th Platto 0 23ow. Republican |
| 2. Person Completing Decommissioning (if not ownet)  | 007-Low Loop 016-So                                 | th Platte 024 (ri-Basha  |
| Connector's Information<br>Name: LANARILL EXPLORATION  | 008-Lewis/Clark 017-To                              | in Plane   |
|  |   | multioning of V all. Uso Starth                                    |
| Address: 102 PINE  | below (if appropriate), o<br>decommissioning on a s | e illustrate methor of   |
| City. COMUPORD State NET 69339   |   | BACKTOL  |
| 308, 665-2493 19019  | -   |  |
| Business Phone No. Contractor's License No.  |   |  |
| · 6  | see ske   | 61   |
| 32. Well Registration No. (If applicable) 07/4-30  |   |  |
| 3b. Type of Ground Water Use MONITOR WELL  | -   | WATER TABLE  |
| 3c. Date of Decommissioning 7/11/01  |   |  |
| 3d. Legal Description of Well Location: County <u>DAUES</u><br>Township <u>29N</u> Range <u>50</u> W Section <u>18</u> | 4b. Type of Back Fill Used)                         | a Upper Three Fo L. (If excented                                   |
| AMAYA at the A/R/A   | area is greater than three                          | fort, indicate dept 1 of excernation.)                             |
| 3e. Street Address of Block. Lot and Subdivision (if applicable).  |   |  |
| 4  | 4c. Type and Location of W                          | ell Cover Lise   |
| 31. Well Location in Feet from Section Lines   |   |  |
| 9.70_fact from (forthor South (circle one) section line  |   |  |
| 280 feet from East of West (circle one) section line   |   | tion of Materials 1 food in Lower                                  |
| Jg. Location of Water User County DAWES  | Casing.   |  |
| Township 29/ Range 50 W Socilon 18   |   |  |
| NW worthe NW vs  | 4a Tune and Thickness of h                          | faterials Used Bet seen Confloing                                  |
| ••••••   | Layers. Indicate ping de                            | poh(s) on left side of skeappeceive                                |
| 3h. Dato Well Last Operated UNKADWN  |   |  |
| ی سب ۲۱ مو و   | [   | INR 252  |
|  | best of my knowledge, it is no                      | NATURAL RESOU  |

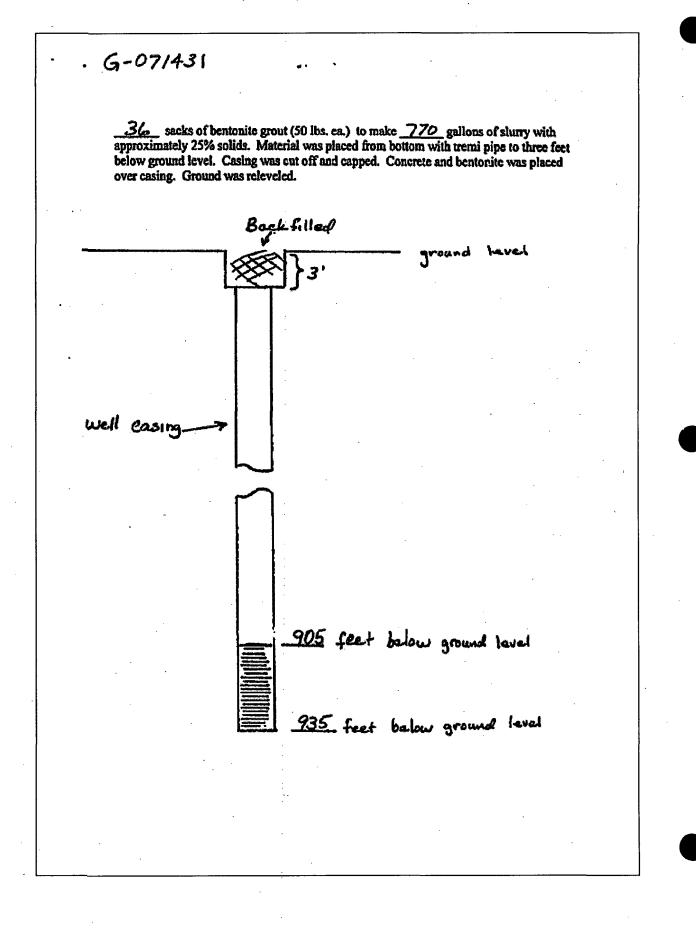
Well 865A (G071430) Notice of Water Well Abandonment Record



#### Well 866A (G071431) Notice of Well Abandonment Record

| Nebraska department of hatural resources<br>P.O. Dox 94676, Lincoln, Nebraska 41349-4676<br>(421) 471-1363 | DAR ABAN<br>July 2000  |
|--|--|
| NOTICE OF WATER W  | ELL ABANDONMENT  |
| Instructions<br>Complete by priming in lock or typing the appropriate information.                         | FOR DEPARTMENT USE C NEY   |
| Submit the completed form to the above address within 60 days of   | Faling Date Registratic a Number   |
| decommissioning.   | 7.25-2001 G- 71431   |
| 1. Well Owner Information:   | Owner Code Sequence Jumber<br>39475 79593  |
| Nante: CROW BUTTE RESOURCES  | 0/7/0 1/9593   |
| Address: Box 169   | 0 01-Up. Big Blue O 10-Papio-Missouri O 18 Scattal Plane   |
| Cir CLAWFORD Save NE 210: 69339  | 002-Low, Big Bluch 11-Nemaha 019-Low, Plane N.<br>003-Up, Elkhom X12-Up, Niobrara 020-Low, Plane S.                                |
|  | 004-Low, Ekihord O 13-Mid, Niobran 021 To, Republican  |
| Home Phone No. Work Phone No.  | 005-Lisle Blue 014-Low, Niebrara 022-viid, Republican<br>005-Up, Loup 015-North Plate 023-Low, Republican                          |
| <ol> <li>Person Completing Decommissioning (if not owner)<br/>Contractor's followingtion</li> </ol>        | 007-Low, Loup 016-South Platte 024- M-Barin<br>008-Lewis/Clark 017-Twin Platte   |
| Name LANDRILL EXPLORATION  |  |
| Address: 102 PINE  | 4a. Actual Method for Decommissioning of W all. Use Skreen<br>below (if appropriate), or illustrate methor of                      |
| City: CHAUFORD State: NEZip: 69339   | decommissioning on a separate sheet.   |
| 2081 665-2493 19019  | Cacho Skinct   |
| Business Places No. Contractor's Lioense No.   | a na   |
| 6  | See sketch   |
| 32. Well Registration No. (If applicable) 07/43/   | See Show 1   |
| 3b. Type of Ground Water Use MONITOR WELL  | WAITE TANKS  |
| 3c. Date of Decommissioning 7/11/01<br>3d. Legal Description of Well Location: County DAWES                | 1  |
| Township 29N Range DW Section 29   | 4b. Type of Back Fill Used in Upper Three Fot. (If excervated<br>area is greater than three feet, indicate dep. 1 of excervation.) |
| Mul 4 of the Ald 4.  |  |
| 3c. Street Address of Block, Lot and Subdivision (if applicable).  |  |
|  | 4c. Type and Location of Well Cover Use.   |
| 31. Well Location in Fest from Section Lines<br>500_fret from (North )er South (circle oae) section line   |  |
| 1240_feet from East or West (circle one) section line  | 4d. Type, Amount, and Location of Materials 1 (sed in Lower  |
| Ig. Location of Water Use: County DAWES  | Casing   |
| Township 29N Rango 5000 Socion 29  |  |
| NW % of the NW Y.  | 40. Type and Thickness of Materials Used Bet very Confining<br>Layers. Indicate plug depth(s) on left side fstreteRECEIVED         |
| The Date Well Last Operated UNKHOUN  |  |
| A  | .un 25 200   |
| Ni. Well Carding Siza 4.5 IO.  | NATURAL MICOURCE   |

#### Well 866A (G071431) Notice of Well Abandonment Record



### Appendix E

### Water Well Registration and Completion Records

Appendix E-1

ţ

## Water Well Registration Records

### Well 723 (G100831) Water Well Registration

| tryistration bare (p-1-1994) Suprese 20. 1187707 registration b. G-100831<br>omer tode 50. 53453 hereign 50. 100705 Upper Niobicaraliohid-pro-<br>teil doner JOSE ELSE<br>Address 1888 ELSE release 18 1 185-6413<br>State 18 110 Code 61881 +<br>Prilling Tire 6308 WATER WELLS release 18 110 Code 61881 +<br>Prilling Tire 6308 WATER WELLS release 18 110 Code 61881 +<br>Prilling Tire 6308 Creek Bood<br>Contractor's Silence 18 11 165-6413<br>Address 11 Vest And Creek Bood<br>Contractor's Silence 18 11 165-6413<br>State 18 110 Code 61881 +<br>Prilling Tire 6308 WATER WELLS release 18 110 Code 61881 +<br>Prilling Tire 6308 Creek Bood<br>Contractor's Silence 18 1 165-6413<br>Address 11 Vest And Creek Bood<br>Contractor's Silence 18 1 165-6413<br>State 18 110 Code 61883 +<br>Prints Bubber(s)<br>Prints Bubbe | . •   | Özteðer<br>STAIL OF ALLBASLA<br>EXFARTHER OF VARAR BESGURENS<br>Væter Veld Reglescaston<br>Tære veld Reglescaston<br>Tære vet 1 di   |
|--|---|--|
| erer cole so. 53453 trenize so. 100005 Upper Nicobscura 1006iterso<br>heil doner doll HIHE<br>Meterso Hok Bast 200<br>City ECONF<br>beilding fire CONF WARD WEAS<br>whiters it was had bene bound<br>city ECONF<br>beilding fire CONF WARD WEAS<br>whiters it was had bene bound<br>constant of a list of the first of the<br>beilding fire CONF WARD WEAS<br>whiters it was had bene bound<br>constant of the first of the first of the<br>beilding fire CONF WARD WEAS<br>whiters it was had bene bound<br>constant of the first of the first of the<br>first control first of the first of the first of the<br>constant first of the first of the first of the<br>constant first of the first of the first of the<br>constant first of the first of the first of the first of the<br>constant first of the first of the first of the first of the<br>constant first of the first of the first of the<br>constant first of the first of the first of the<br>constant first of the first of the first of the<br>constant will be constant will be constant of the first o   |   | Top otherstand are out the state of the stat |
| teil dower JOHN KIARN       Relegione Danker ( 345 ] 345-6413         diege State JR 110       State JR 110 Code 69101 +         brilling Fire GOUDS WARD WELLS<br>differs 11 West 360 Creek Based<br>Contractor's License In. 1945 ( 55-1410<br>Contractor's License Internet In. 1945 ( 55-1410<br>Contractor's License Internet Inter   | Registration Date (0-7-1999) Sequence 1   | 63. 118707 Registration 83. 6-100831   |
| Address Head RASP 200         City ECCOUX         State HE       tip Code 61101 +         Prilling Firs CAUBE WATED WRITS       Telephone Forder ( 346 ) tits-fails         Address II West And Creak Back       Contractor's License Ro. 19435         State HE       tip Code 61101 +         Print: Braberia)       Borestie       Centractor's License Ro. 19435         Pract Raberia       Developing (over 39 4are)       Borestie       Centractor's License Ro. 19435         Pract Raberia       Developing (over 39 4are)       Borestie       Centractor       Borestie         *Pract Raberia       Developing (over 39 4are)       Borestie       Centractor       Centractor       Centractor       Centractor       Centractor       Centractor       Centractor       Centractor <td>Orner tode 10.53453 Receipt So.</td> <td>100705 Upper Niobrana Whitem</td>   | Orner tode 10.53453 Receipt So.   | 100705 Upper Niobrana Whitem   |
| Address Head RASP 200         City ECCOUX         State HE       tip Code 61101 +         Prilling Firs CAUBE WATED WRITS       Telephone Forder ( 346 ) tits-fails         Address II West And Creak Back       Contractor's License Ro. 19435         State HE       tip Code 61101 +         Print: Braberia)       Borestie       Centractor's License Ro. 19435         Pract Raberia       Developing (over 39 4are)       Borestie       Centractor's License Ro. 19435         Pract Raberia       Developing (over 39 4are)       Borestie       Centractor       Borestie         * Pract Raberia       Developing (over 39 4are)       Borestie       Centractor       Borestie       Centractor       Borestie       Centractor       Borestie       Centractor       Boresties       Developing (over 400 and 100 and 10  | . Vell duser Jost Klitk   | Tolonhers (tother ( 185 1 216-58))   |
| Prilling Tire 6508 WARPA WELLS   | Address 1098 BAST 280   |  |
| Address fit West And Creek Road       Contractor's License Ro. 19835         City Crewided       State HE       Tip Code (SDD) +         Parpose of well (indicate cash) Bewatering (over 30 days) Bowatic Contacts Contacts   | •   |  |
| Purpose of well (indicate cas):  |   | Contractor's License So. 19835   |
|  | . Persit Busberjaj  |  |
| <ul> <li>8. Replaceanst well isfest from abandoned well. D. Abandoned well last operated</li> <li>8. driginal well gaup column sizeinches. F. Completion of original well abandonizers on</li> <li>6. Location of water one of abandoned wells</li> <li>8. The well isfest from the Borth/South succion line andfest from the Forth/South succion line andfest from the Borth/South succion line andfest from the Forth/South succion line andfest from the Borth/South succion line andfest from the Forth/South succion line andfest from the Borth/South succion line andfest from the Forth/South succion line andfest from the Borth/South succion</li></ul>  | _ Ground Hater Source Heat Poup Indon   | trial Injection Irrigation II Livestock Routorizy  |
| A. Well Locations SI t of the SI t of Section 11 . Township 29 North, Runge X T . PAVIS County<br>B. the well is feet from the North/South section line and feet from the Fast/Heat Section line<br>C. Street address or block. Not and subdivision, if applicable: IS<br>D. Socation of water use, if applicable (give legal descriptions):<br>E. If for incigation, the bood to be invigated is acres.<br>T. Well reference letter(s), if applicable;<br>Forp Information.<br>If post installed at this time? II les No<br>If yes, complete items A and B with estimated information for those wells is which pamp will be installed.<br>A. Actual pumping rate, if applicable: 18.40 gallons per minute. Resourcd [_] Estimated [I]<br>B. frame column dissetter: 1 inches.<br>C. Langth of pump lastalled by: Contractor [_] Owner [_] Tamp Installed by: Contractor [_] North (_] States Bo. 30033<br>CONYLOUED ON BYIT PAGE  | 5. Replacement and abandoned well internation.  |  |
| Is goup installed at this tine? XI Tes No<br>If yes, complete items A and B with estimated information for those walls in which peap will be installed.<br>A formal gauping rate, if applicable: 18,60 gallons per minute. Resoured [.] Refineted [I]<br>B. Fung colour dismeter: 1 inches. C. Lungth of pump colours: 200 Keet.<br>D. Funging squipment installed: 05/26/39 E. Brandfrype: DIMPATER / SUBSISSIBLE<br>7. Fung installed by: Contractor [.] Owner [.] Fung Installer [.] License Ro. 39933<br>COMPLATED ON DENT FACE  | A. Is this well a replacement well? Tes B<br>B. Replacement well is feet from abandon<br>B. Original well gaup column sizes   | bed well. D. Absaconed well last operated  |
|  | A. Is this well a replacement well? Tes E<br>B. Replacement well is fest from abandon<br>R. Original well goup column sizes<br>G. Location of water are of abandoned wells<br>A. Well Locations SI t of the SE t of Section<br>B. The well is fest from the Borch/Sout<br>C. Street address or block, lot and subdirial<br>D. Sochtion of water are, if applicable [give<br>E. If for irrigation, the lond to be irrigate   | bed well. D. Absafoned well last operated  |
|  | 1. Is this well a replacement well? Tes II<br>3. Replacement well is fest from abandon<br>3. Ariginal well goup column mines<br>5. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Street address or block, lot and subdivision<br>7. Street address or block, lot and subdivision<br>8. The well is fest from the Borch/Sout<br>7. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>9. Section of water and, if applicable [give<br>8. If for irrigation, the load to be irrighter<br>7. Well reference letter(s), if applicable,<br>14. Street itens A and D with estimated i<br>14. Actual graphing rate, if applicable, 14.40<br>8. Framp column disaster: i itches.<br>7. Funping aquigment Lastalled, \$1726/39 | bid well. D. Absafoned well last operated  |
|  | 1. Is this well a replacement well? Tes II<br>3. Replacement well is fest from abandon<br>3. Ariginal well goup column mines<br>5. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Street address or block, lot and subdivision<br>7. Street address or block, lot and subdivision<br>8. The well is fest from the Borch/Sout<br>7. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>9. Section of water and, if applicable [give<br>8. If for irrigation, the load to be irrighter<br>7. Well reference letter(s), if applicable,<br>14. Street itens A and D with estimated i<br>14. Actual graphing rate, if applicable, 14.40<br>8. Framp column disaster: i itches.<br>7. Funping aquigment Lastalled, \$1726/39 | aloration for those wells in which peap will be installed,<br>gallons per minute. Heavier of j latinated [I]<br>c. Longth of prop column 100 test.<br>Brand/Type: Differ 10 test for 300 test.<br>c. Longth of prop column 100 test.<br>J Tap lateller [] blocks Bo. 39935   |
|  | 1. Is this well a replacement well? Tes II<br>3. Replacement well is fest from abandon<br>3. Ariginal well goup column mines<br>5. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Street address or block, lot and subdivision<br>7. Street address or block, lot and subdivision<br>8. The well is fest from the Borch/Sout<br>7. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>9. Section of water and, if applicable [give<br>8. If for irrigation, the load to be irrighter<br>7. Well reference letter(s), if applicable,<br>14. Street itens A and D with estimated i<br>14. Actual graphing rate, if applicable, 14.40<br>8. Framp column disaster: i itches.<br>7. Funping aquigment Lastalled, \$1726/39 | add well. D. Absafoned well last operated  |
|  | 1. Is this well a replacement well? Tes II<br>3. Replacement well is fest from abandon<br>3. Ariginal well goup column mines<br>5. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Street address or block, lot and subdivision<br>7. Street address or block, lot and subdivision<br>8. The well is fest from the Borch/Sout<br>7. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>9. Section of water and, if applicable [give<br>8. If for irrigation, the load to be irrighter<br>7. Well reference letter(s), if applicable,<br>14. Street itens A and D with estimated i<br>14. Actual graphing rate, if applicable, 14.40<br>8. Framp column disaster: i itches.<br>7. Funping aquigment Lastalled, \$1726/39 | add well. D. Absafoned well last operated  |
|  | 1. Is this well a replacement well? Tes II<br>3. Replacement well is fest from abandon<br>3. Ariginal well goup column mines<br>5. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Location of water and of abandoned wells<br>6. Street address or block, lot and subdivision<br>7. Street address or block, lot and subdivision<br>8. The well is fest from the Borch/Sout<br>7. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>8. Street address or block, lot and subdivision<br>9. Section of water and, if applicable [give<br>8. If for irrigation, the load to be irrighter<br>7. Well reference letter(s), if applicable,<br>14. Street itens A and D with estimated i<br>14. Actual graphing rate, if applicable, 14.40<br>8. Framp column disaster: i itches.<br>7. Funping aquigment Lastalled, \$1726/39 | add well. D. Absafoned well last operated  |

## Well 723 (G100831) Water Well Registration

|                               | CORD PAGE<br>11 Locati<br>e vell in                           | OF ABGISTRATION REFORM FOR TELL OWNER<br>OD, SE & of the SE & of Section 11 ,<br>feet from the section line  | Towaship 29 Borth, Rang  | 1 , DATS<br>SECTION HON   | Pajë sët 1 eë 1<br>Cansty.                      |
|-------------------------------|---|--|--|---|---|
| A. 10                         | tal vell  | ion Information<br>daptů, 228 feet. B. Static water le   |  | C. Razzing vater Level.<br>[1] Estimated or                                   |   |
| I. 80<br>G. 91<br>Va<br>G. 50 | re bole (<br>ain Casii<br>11 thicks<br>agthfal (<br>reen: 4.( | uction began 43/19/99 R. Well Constru<br>inseter 9 inches.<br>ga Diameter 4.454 ID 4.959 OD in<br>1939 .496 inch(es). Joints 61010<br>ad placement(s) depth from 5 ft.<br>54 ID 4.959 OD ing Type of ant | ebes. Type of unterial fi<br>to 188 ft. from i<br>erial PTC          |   |   |
| Sc<br>Lt<br>I. Gr             | reed oper<br>agth(s) a<br>arel paci                           | iogs (slot size): .016 frade name<br>na placement(s) depth from 184 ft. t<br>: interval(s) from 10 ft. to 224 f<br>ded from 5 ft. to 10 ft. vith<br>from ft. to ft. vith                                 | a 2066275<br>o 214 ft, from ft.<br>t. from ft. to<br>USUTORITE COUPS | to İt. Colden at<br>İt. Grade sixe, 28  | 200 - łt.                                       |
| 3. R                          | 11 devel  | irda it. 63 ft. 448<br>thod, ROTART L. Drilling flu<br>guent technique (total time auf mithod<br>mis, fercilizer or antifreeze be injec  | Id: NOD<br>}- BAILING  | 1(es? (es IX I0   |   |
|                               |   | ile vill be ased   |  |   |   |
|                               | IN FERT   | lals Logged<br>DISCRIPTION   | DRPTH 13 YSBT<br>FROM TO   |   |   |
| -                             |   |  |  |   |   |
| 0                             | 1   | top soll   |  |   | ·   |
| 0<br>4<br>150                 | 15¥<br>229  | top soll<br>Sandstone<br>Vatin Biarric Saudstöre   |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
| 4                             | 150   | SANDSTONE  |  |   |   |
|                               |   |  |  |   |   |
|                               |   | SANDSTONE  | •  | best of up kaosledge is<br>best of up kaosledge is<br>best of up kaosledge is | никана и на на на на на на на на на на на на на |

Water Well 725 (G94856) Water Well Registration

|   | DEPARTMENT OF  | P NEBRASKA<br>WATER RESOURCES   | Mar u Au  |
|---|--|---|---|
|   |  | MENT USE ONLY   |   |
| Registration Date<br>Owner Code No.   | 9 <u>2-19-98</u><br>50448 Receipt No. <u>9491</u>  | 110776 Registration No. G   | -94856<br>14175 NRD   |
| AA1000 186  | 8 OVPLED DAVEL   | Telephone Humber 1707   | 33-3269   |
| ay_C.A.   | ey ennse   | State 10 / 210 Code 8, 2001 +   |   |
| Drilling Firm Ne<br>Address 271<br>City   | ken Wells. The<br>1 255 Havy 385   | Telephone Number <u>7917</u><br>Contractor's License No   | 62-1592<br>9318   |
| Permit Number(s)  |  |   |   |
| Ground Water So   | area Heat Pumpladustriella<br>Public Water Supply (wa puche (46331)  | i)DomesticOcothermalOron<br>jectionInfgation X_Livestock<br>_Public Water Supply communicationRet   | Monitoring  |
| A. Is this well a :   | andoned well information.<br>replacement well?YesNo  | B. Registration number of abandoned we  | U:  |
| A. Is this well a :<br>C. Replacement w<br>B. Original well ;<br>O. Location of w<br>A. Well location:///<br>B. The well is   | replacement well?YesNe<br>sell isfeet from abandooed we<br>pump column size: loebes.<br>ater use of abandooed well:<br>ater use of abandooed well:<br>k//s of the <u>SE</u> /s of Section To<br>2 <u>CC</u> feet from the (North of Section<br>(Checke State)  | II. D. Abundaned well last operated<br>R. Completion of original well abandonn<br>wmhip <u>22</u> North, Range, <u>50</u> Rast(Weat)<br>section line and <u>2386</u> feet from the(   | . 19, |
| A. Is this well a f<br>C. Replacement w<br>B. Original well g<br>O. Location of w<br>B. The well is <u>2</u> -<br>C. Street address or<br>D. Location of wate<br>B. If for intigation, t  | replacement well?YesNo<br>acil is feet from abandoned we<br>pump column size: loches.<br>ater use of abandoned well:<br>k//s of the <u>SE</u> vs of Section to<br><u>2 CC</u> feet from the (North or Section<br>(Chrele one)<br>block, lot and subdivision, if applicable:  | II. D. Abundaned well last operated<br>R. Completion of original well abandons<br>wmhlp222_North, Rango, 50_ Base(West)<br>section line and <u>2336</u> feet from the (<br>St. P. 41 T. 51 Sect. Fig. 9, 7  | Dawes<br>Base Wees soci<br>(Circlo one)   |
| A. Is this well a s<br>C. Replacement w<br>B. Original well y<br>O. Location of wa<br>B. The well is <u></u>  | replacement well?YesNo<br>arell is feet from abandoned we<br>pump column size: loches.<br>ater use of abandoned well:<br>(L'vis of the SE vis of Section 2 To<br>2 < feet from the (North pr Section)<br>(Circle Otta)<br>block, lot and subdivision, if applicable:<br>it use, if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable [<br>this time? Yes No<br>terms A through R.<br>mas A and D with extinated information f<br>diameter: inches.            | il, D. Abandoned well last operated<br>R. Completion of original well abandons<br>wrahip. <u>2.7</u> North, Rango. <u>50</u> Rase(Well<br>) action line and <u>2336</u> feet from the<br>scree.<br>St. <u>PA: 1.51</u> Set 1 Fic. 9. 7<br>actee.<br>for those wells in which pump will be insulies<br>gallons per misuic. Measured D or | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19  |
| A. Is this well as a<br>C. Replacement will<br>B. Original well y<br>O. Location of will<br>B. The well is <u>2</u> .<br>C. Street address or<br>D. Location of wate<br>B. If for intestion, i<br>P. Well reference let<br>Pump Information.<br>Is pump installed at<br>If yes, complete it<br>If so, complete it<br>A. Actual pumple<br>B. Pump pumpt      | replacement well?YesNo<br>arell is feet from abandoned we<br>pump column size: loches.<br>ater use of abandoned well:<br>(L'vis of the SE vis of Section 2 To<br>2 < feet from the (North pr Section)<br>(Circle Otta)<br>block, lot and subdivision, if applicable:<br>it use, if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable [<br>this time? Yes<br>chances No<br>terms A through R.<br>mas A and D with extinated information f<br>diameters inches. | <ul> <li>ill, D. Abandoned well last operated</li></ul>   | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19  |
| A. Is this well as<br>C. Replacement w<br>B. Original well y<br>O. Location of w<br>B. The well is <u>2</u> .<br>C. Street address or<br>D. Location of wate<br>B. If for intestion, i<br>P. Well reference le<br>P. Pump information.<br>Is pump installed at<br>if yes, complete it<br>if an exception it<br>A. Actual pumple                             | replacement well?YesNo<br>arell is feet from abandoned we<br>pump column size: loches.<br>ater use of abandoned well:<br>(L'vis of the SE vis of Section 2 To<br>2 < feet from the (North pr Section)<br>(Circle Otta)<br>block, lot and subdivision, if applicable:<br>it use, if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable [<br>this time? Yes<br>chances No<br>terms A through R.<br>mas A and D with extinated information f<br>diameters inches. | <ul> <li>ill, D. Abandoned well last operated</li></ul>   | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19  |
| A. Is this well as a<br>C. Replacement will<br>B. Original well y<br>G. Location of will<br>B. The well is <u>2</u> .<br>C. Street address or<br>D. Location of wate<br>B. If for intgation, i<br>P. Well reference let<br>Pump information.<br>Is pump installed as<br>if yes, complete it<br>If no, complete it<br>If no, complete it<br>A. Actual pumple | replacement well?YesNo<br>arell is feet from abandoned we<br>pump column size: loches.<br>ater use of abandoned well:<br>(L'vis of the SE vis of Section 2 To<br>2 < feet from the (North pr Section)<br>(Circle Otta)<br>block, lot and subdivision, if applicable:<br>it use, if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable (give legal description<br>the land to be irrigated is<br>iter(s), if applicable [<br>this time? Yes<br>chances No<br>terms A through R.<br>mas A and D with extinated information f<br>diameters inches. | <ul> <li>ill, D. Abandoned well last operated</li></ul>   | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19<br>19  |

Water Well 725 (G94856) Water Well Registration

2. Well Construction Information A. Tutal well depth: <u>240</u> feet. B. Static water level: <u>139</u> feet. C. Pumping water level: <u>22</u> E Estimated or Q Measured 19 27 E. Well Construction completed; D. Well Construction began; 10 10 199% R. Bore hole diameter: OA inches. -/1 **G. Plain Carlog:** Diameter, 4 \_OD inches. Type of material: So A イレイ ID Wall thickness:\_ 1250 Inch(es). Joints-Welded/Ulfugd/Threaded/Other; Length(s) and placement(s) depth from Screen: 4 5 10 5 1.80° A. from Λю. SL Łó H. Screen OD in.; Type of material HODUC Screen openings (slot size): Trade name; .016 Faa Length(a) and placement(a) depth from <u>282</u> ft. to <u>292 ft</u>. from a Guides at Nen con ft. 10 A to 246 A from A ando que Concrete 1. Onvel pack interval(s) from\_ 10 乱物 Henis 10 J. Grouted/Sealed from, fL, whith 1 28 A. (YCC) C ft. with ČI) ( fron K. Drilling method: 571414 ary L. Dilling field;  $\mathcal{P}_{i}$ Ben He M. Well development technique (tobal time and method): 2 115. Air A INA IT N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? Yes No If yes, what will be used: 9. Geologic Materials Logged DEPTH IN FEBT DESCRIPTION depth in fest DESCRIPTION FROM FROM TÓ m ank 2 N.B⊅ 53 160 tempetone. med 10 160 240 21 chimistere viru a L 35 Course sendstone + maistone 35 45 Course sendetoner Unieston there and me to 45 53 Camont (Additional sheets may be submitted) 10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true. 12-29.91 Well Contractor's Signature Data

### Well 728 (G88070) Water Well Registration

Doute 1991 OWR Fare 145 2 STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION FOR DEPARTMENT USE ONLY Registration No. 6- 880.70. Registration Date 5-28-96 Owner Code No. 14-111 Rec Seguence No. 1000 Receipt No. 86479 pper Nobrana . white NRD ٠÷., 4-14 11 234-8377 132-326 144 800 Man )Telephone Number (319) 1816 artist. Drive: Cheyenne Ľ happigg X I. Well Owne 1361 dine Donnis Address Pd. Any 4559 Cogorrows 82119-305 71 Zip Code City. ne 2. Diilling Pinn\_ sletts: Telephona Number (308) 76.2 -15 Address Contrictors License No. -90 SumA/E Zip Code 199301 City. innes 3. Permit Number(s) \*\*\*\* . d ++\*\*\*\*\* No. . .... trained by a lit is a suit 4. Puspose of well (indiano one): \_\_\_\_Dewatering (over 90 days) Domestic Ocolheimid Ground Heat Exchanger 13 24 Oround Water Source Heat Pump \_\_\_Industrial \_\_\_Injection Interior Klivestock Monitoring Observation \_\_\_\_ Public Water Supply (was muse (# 634) \_\_\_\_\_Public Water Supply encourses . Recovery . Aquaculture م بالار الروان ما بالار الروان Other . •  $\vec{x}_{1}$ 5. Replacement and abandoned well information. A. Is this well a replacement well? \_\_\_\_Yes X No B. Regimention number of abandoned well:\_\_\_\_ C. Replacement well is \_\_\_\_\_ foet from abandoned well. D. Abandoned well list operated 19 R. Completion of original well abandonment on **, 19** B. Original well pump column size: ... inches. Q. Location of water use of abandoned wall: 6. A: Well location: NE 14 of the NIX' 14 of Section 1. Township . 22 North, Range 57 BoyWest, Daures Country. 1 2. The well is \_\_\_\_\_\_ feet from the (Horn backtonen) section line and \_\_\_\_\_\_ feet from the (Herr) section line. (Circle one) C. Street address or block, lot and subdivision, if applicable: D. Location of water use, if applicable (give legal descriptions): Live stev. K. 10.4.1.e.C. Section 1 erry E. If for irrigation, the land to be irrigated is \_\_\_\_\_\_ NCTCS. . . . . . . . . . 7. Peep Information. Is jump insuitled at this time? X Yes If yes, complete hems A through R No 🦾 B) Fringe complete items A and D with estimated information for those wells in which pump will be installed. A. Actual pumping rate, if applicable: <u>4:-20</u> gallons per minute. Measured D or Estimated **E**. B) Fringe column diameter and the set of the set feet. B. Brandy Type: Coulds Submersible 19.96 D. Pumping equipment insulled; 30 -39318 P. Pump installed by: Contractor A Owner O Pump Insuiller O License No.\_\_

Well 728 (G88070) Water Well Registration

8. Well Construction Information. feet B. Suile, water level: 112 ...... foet. C. Pumplog water lovel: 200 A. Total well depth: <u>260</u> feet. Estimated or D Measured - 1**5** 112 42373 1976 B. Well Construction completed 5- 20 -D. Well Construction began: 19526 Boro bojo diameter:  $\boldsymbol{G}$ ) (i 1944) į., OD inches. Type of material Sch \*\*: E s PUC 40 Well ubiciness: 12.50 \_inch(ca). Joints--Walded/Glued/The weind/Other: Length(a) and placement(a) depth from ..... 180 ..... A from ÎL D i . . . 1.4.72 . 5 OD in; Type of material Trade name:\_ <u>"Ergle</u> Length(s) and placement(s) depth from 180 n. to 260 n. from A W A. Guiden a I. Oravel pack interval(a) from, 10 <u>л ц 260</u> ft. from A. 10 ft. Grade size: 4.7 J. Genericd/Scaled from A, with Chipped Bent ft. 10 12 11 R., white UTO K. Drilling method: Straight Rotary L. Drilling fluid: M. Well development technique (total time and method): Air Liff Pumping -N. Will chemicals, fertilizes or antificene be injected or utilized in the system? <u>\_</u>No If yes, what will be used: 9. Geologic Materials Logged والمراجعة المتعوري DEPTH IN FEBT DESCRIPTION DEPTH IN FEBT 1 11 1 L. DRSCOIPTION FROM TO FROM . 70 - 1<sup>-1</sup> 2 Daile 260 Jason ban 220 U Dand ment 4 x 2 **4** 4 . . . 20 Tanic < 148 30 Elli L Barre コロ . . Good March 1890 1 1 1 1 1 1 A mildlent. med. 00 110 aun band stone 9 4 4 x 1 1 1 2.10 110 ويدرار - 1 Paul ۰. and the star i. eagli а<sup>1</sup>1 8 40 S ..... 30 3 x 25 1.5 标志 (Additional sheets may be submitted) 1.11 11 2.4 a hadra d A ward and a series a. : . 11 14. 18. 10. - I am familiar with the information submitted on this registration, and to the best of my knowledge it is true. 20 Fal cent 4 llow there I એ વેલા છે. નો at the group of the Water. Well Owner's Signana's Water Well Contractor's Signaturo any L. Marter Date e. 1 · managan anganan si the state of the second st 

## Well 731(G90120) Water Well Registration

| Cobbs Construction and abandoned well information C. Replacement and abandoned well information C. Replacement well is "foet from abandoned well. C. Replacement well is "foet from abandoned well. C. Replacement well isfoet from abandoned well. C. Abandoned well art operated C. Replacement well isfoet from abandoned well. C. Abandoned well art operated C. Location of water use of abandoned well. C. Location of water use of abandoned well. C. Street artices or block, he and subdivision, if applicable D. Location of water use, if applicable (give legal descriptions). E. If for trigation, the land to be brigated is  | STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION Registration Date  |  |   |   |   |   |
|---|--|--|---|---|---|---|
| STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL RECISTRATION Registration Data <u>12.26.66</u> Sequence No. <u>105.200</u> Registration No. <u>6.2667</u> Registration Data <u>12.26.66</u> Sequence No. <u>105.200</u> Registration No. <u>6.2667</u> Registration No. <u>7.2678</u> Registration No. <u>7.26788</u> Registration No. <u>7.26788</u> Registration No. <u>7.26788</u> Registration No. <u>7.27888</u> Registration No. <u>7.2788888888888888888888888888888888888</u>  | STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WITER VELL RECISTRATION HORDER VELL RECISTRATION FOR DEPARTMENT VELL RECISTRATION FOR DEPARTMENT VELL RECISTRATION FOR DEPARTMENT OF WATER RESOURCES NUMBER VELL RECISTRATION FOR DEPARTMENT OF WATER RESOURCES Registration Data 12.76.76.75 Sequence No. 105200 Registration No. 620437 1 Owner Code No. 1272 Recipt No. 2262 III Upper Undersee Utility Owner Sequence No. 105200 Registration No. 620437 1 Owner Code No. 1272 Recipt No. 2262 III Upper Undersee Utility Owner Sequence No. 105200 Registration No. 620437 1 Owner Code No. 1272 Recipt No. 2262 III Upper Undersee Utility Owner Sequence III III III III IIII IIII IIII IIII  |  |   |   |   |   |
| DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION FORDEDWATER WELL REGISTRATION FORDEDWATER WELL REGISTRATION FORDEDWATER WELL REGISTRATION FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDEDWATER VELL FORDED  | DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION FORDED-MATAGINAL REGISTRATION FORDED-MATAG   | * × y*   | STATE (   | OF NEBRASKA   | , , , , , , , , , , , , , , , , , , ,   |   |
| WATER WELL REGISTRATION         FOR DEPARTMENT USE ONLY         Registration Data       122.72.85         Owner Code No.       107.72.         Registration Data       127.72.         Sequence No.       105.2003         Registration Data       127.72.         Recipting Code No.       107.72.         Recincod   | WATER WELL REGISTRATION         FOR DEPARTMENT USE ONLY         Registration Data       12.2.42 FS       Sequence No.       10.5.200       Registration No. 5.2007         Owner Code No.       12.2.42 FS       Sequence No.       10.5.200       Registration No. 5.2007       10.1.2007         Well Owner Code No.       12.2.42 FS       Sequence IC (Spinsold Code Spinsold  |  |   |   | S .   | •   |
| Registration Date       12.22.92       Sequence No.       105.260       Registration No.       20.202         Owner Code No.       12.22.92       Recipition No.       21.22.92       Recipitation No.       21.22.92         Owner Code No.       12.22.92       Recipitation No.       21.22.92       Recipitation No.       21.22.92         Well Owner Marchell   | Registration Date       12.22.92       Sequence No. 10.5.200       Registration Not. CLASS         Owner Code No.       12.22.92       Recolumn Code No.       10.5.200       Registration Not. CLASS         Media       367-4.34-5377       307-4.33-3240       11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1   |  |   |   |   |   |
| Registration Date       13.26.26       Sequence No.       10.5.260       Registration No.       20227         Owner Code No.       10.67       10.6220       II. Ugger UcoStates Utility No.       10.67         Well Owner User Code No.       10.67       10.67       10.67       10.67         Well Owner User Code No.       10.67       10.67       10.67       10.67         Addres II. Cheve       10.67       10.67       10.67       10.67       10.67         Addres II. Cheve       10.67 <td< td=""><td>Registration Date       1326.26       Sequence No.       105320       Registration No.       20227         Owner Code No.       1022       12.       1</td><td></td><td></td><td></td><td></td><td><u>1 - 1</u></td></td<> | Registration Date       1326.26       Sequence No.       105320       Registration No.       20227         Owner Code No.       1022       12.       1   |  |   |   |   | <u>1 - 1</u>                                |
| Registration Date       122.00.000       Sequence No. 105 2020       Registration No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000 No. 6.2023; it is invested No. 2022       12.0000         2. Delling Firm Aledaan McMits, Tree       The phone Number (2001) No. 6.2023; it is invested No. 2022; it is inve  | Registration Date       12.2.2.2.2.       Sequence No. 105 2800       Registration Date       12.2.2.2.2.       12.2.2.2.2.       12.2.2.2.2.       12.2.2.2.2.2.       12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.  |  | FOR DEPA  | I WENINGE OWN, 4 24   |   | <u>.</u>                                    |
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| Owner Code No. <u>XXXX</u> Receipt No. <u>XXXX</u> Receipt No. <u>XXXX</u> Receipt No. <u>XXXX</u> Mell Owner Liest Colored State State       Societ State       Societ State       Societ State         Well Owner Liest Colored State       Societ State       Societ State       Societ State         Well Owner Liest Colored State       Societ State       Societ State       Societ State         Chy Caspet: HWERT Colored State       Societ State       Societ State       Societ State         Chy Caspet: HWERT Colored State       Societ State       Societ State       Societ State         Address       Balance       Societ State       Societ State       Societ State         Address       Balance       Societ State       Societ State       Societ State       Societ State         Chy Caspet: How State State       Societ  | Owner Code No. 2022       12. 1022       12. 1022       10. 1022 <td>Registration Date 12-29</td> <td>Zequence No</td> <td>105200 Registrati</td> <td></td> <td></td>  | Registration Date 12-29  | Zequence No   | 105200 Registrati   |   |   |
| 367-439-5372       367-633-3369         Well Overs function (1000 mm in the main of the phane of Telephone Number (11)         Address [1] for Amazing Solars (1000 mm in the phane of Telephone Number (11)         Address [1] for Amazing Solars (1000 mm in the phane of telephone Number (11)         2. Dilling Furn Malace (1000 mm in the phane of telephone Number (11)         Address [1] for the phane of telephone Number (11)         2. Dilling Furn Malace (1000 mm in the phane of telephone Number (11)         Address [1] for the phane of telephone of telephone Number (11)         3. Penalt Number (1000 mm in the phane of telephone of   | 367-434-5372       367-633-33694         Well Owen function: ((Correct, internation of the prime of Telephone Number (1))         Address [Lines 4 marks]       See Statistic (Lines 4 marks)         Chyl Caspert: ((1)): Real Correct, See Statistic (Lines 5 marks)       See Statistic (Lines 4 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 4 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         3. Petrially Mitcher(S)       See Statistic (See Statistic   | Owner Code No. 412/2   | Receipt No  | Z lich  | raen White NR   | Ditt  |
| 307-434-5372       307-633-3369         Well Owen function: ((Corner, 1: Maximic function of the phane of Telephone Number (1))         Address (Lifest ####Sold 25)       Sold Configuration of the phane of Telephone Number (1)         Chy/Caspet: (IV): Male Configuration of the phane of telephone Number (1)       Telephone Number (1)         2. Drilling Furn Male Configuration (IV): Train Statement (IV): Sold (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Train (IV): Male Configuration (IV): Male Confi  | 367-434-5372       367-633-33694         Well Owen function: ((Correct, internation of the prime of Telephone Number (1))         Address [Lines 4 marks]       See Statistic (Lines 4 marks)         Chyl Caspert: ((1)): Real Correct, See Statistic (Lines 5 marks)       See Statistic (Lines 4 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 4 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         2. Delling Furn field correct, Lines 7 marks)       See Statistic (Lines 6 marks)         3. Petrially Mitcher(S)       See Statistic (See Statistic   | NER THE CARD AND AND A   |   |   | Section of the section of the   | <u>,</u>                                    |
| <ol> <li>Well Quern Heard efforces (Liferen en instrume for plane of Telephone Number (</li></ol>   | <ol> <li>Well Quant Market Gelevier (1) State of the second for plane of Telephone Number (1) Address (2) Plane (2) State /li></ol>  | 307-2  | 311-5377 2017-  | 1.3.2 - 3.2690  | e serve and a television  | ~1 -  |
| Address, <u>E.C. 1028 Sources</u> <u>1028 Constants</u> <u>112 Constants</u> <u>210 Code</u><br>City <u>Code peri, H.V. Kit. Code - et al. Code and the Market </u>  | Address <u>LLA Deck Comession Solaris</u> <u>Mark Control Marks</u> <u>Charles</u> | - man Marshall   | Also Rein   | Remarks a - mark is an a  | And the second second second second second second second second second second second second second second second  | 12 4  |
| City Casper III 9 State Control of the state  | City (Lag pet 11/9) Stid L.C.M. et 25 Catego note 21/9 Fato 21/9 Colo<br>State<br>State<br>2. Defiling Fam Meloc 1. Mice 1/5., Trac.<br>Telephones Number (1998) 7/62 - 15 9/2<br>Address D. R. 3 Cor 28<br>City   | Addition D C Have a state  | CCCCCCR OF BARDIEC  | Transfer Telephone Numbe  |   | ·   |
| 2. Drilling Flam <u>Malacon Mile II.5. Tric.</u> 2. Drilling Flam <u>Malacon Mile II.5. Tric.</u> 2. Drilling Flam <u>Malacon Mile II.5. Tric.</u> 2. State Mile 2. Mile 2. State Mile Mile 2. State Mile Mile 2. State Mile Mile 2. State Mile Mile 2. State   | 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. Drilling Flam <u>Malacon Mile 1/25. Trice</u> 2. State <u>Mile 2002</u> 2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  2. Dewater ing (order 50 days)  3. Perturb Mile 2002  3. Replacement well information.  3. Replacement well information.  4. De the well is <u>free free free standoned well</u> 4. Replacement well is <u>free free free standoned well</u> 5. Replacement well is <u>free free standoned well</u> 5. Replacement well is <u>free free standoned well</u> 6. A. Well is the State well is <u>free free free standoned well</u> 7. Completion of writer use of standoned well  7. Townedby <u>27</u> North Range, <u>TO Standoned well</u> 7. Devel is <u>free free standoned well</u> 7. Devel is <u>free free standoned well</u> 7. Devel is <u>free standoned well in the free standoned well</u> 7. States well is <u>free free standoned well</u> 7. Devel is these <u>states well well well is the free standoned well</u> 7. Devel is the state well a develop the free standoned well is <u>free well is the free standoned well</u> 7. Develop the states well is <u>free free standoned well</u> 7. Develop the states well a develop the free standoned well is <u>free well is free free standoned well</u> 7. Develop the states well a develop the free standoned well is <u>free free standoned well</u> 7. Develop the states well a develop the statest is the state well a develop the statest is the statest is the statest is the free free statest is the   |  |   | 2/2-State Zin Code  | •   | ······································      |
| Adhess       B. R. 2       Gay       25       Combitator 1456250 NG       29.9 / State         City       Alliance       State/IE Zip Code 1622/2/1 + 10000       11         3. Permit Number(6)       State/IE Zip Code 1622/2/1 + 10000       11         3. Permit Number(6)       Dewatering (orbit 90 days)       Domestic       Ochibarnali       11         3. Permit Number(6)       Conund Heat Pump       Industrial       Infgation       Livestock       Monitoring         Observation       Public Water Source Heat Pump       Industrial       Infgation       Livestock       Monitoring         Observation       Public Water Source Heat Pump       Industrial       Infgation       Monitoring         Observation       Public Water Supply tota state 16 data       Public Water Supply totas state       Monitoring         Observation       Public Water Supply tota state 1000000000000000000000000000000000000   | Adhess       B. R. 2.       Gay 28       Combitery Lifeties NG       32.918         City       Alli Orice       State/IE Zip Code / 202/1       11         3. Permit Number(6)   |  |   |   |   |   |
| Adhess       B. R. 2       Gay       25       Combitator 1456250 NG       29.9 / State         City       Alliance       State/IE Zip Code 1622/2/1 + 10000       11         3. Permit Number(6)       State/IE Zip Code 1622/2/1 + 10000       11         3. Permit Number(6)       Dewatering (orbit 90 days)       Domestic       Ochibarnali       11         3. Permit Number(6)       Conund Heat Pump       Industrial       Infgation       Livestock       Monitoring         Observation       Public Water Source Heat Pump       Industrial       Infgation       Livestock       Monitoring         Observation       Public Water Source Heat Pump       Industrial       Infgation       Monitoring         Observation       Public Water Supply tota state 16 data       Public Water Supply totas state       Monitoring         Observation       Public Water Supply tota state 1000000000000000000000000000000000000   | Adhess       B. R. 2.       Gay 28       Combitery Lifeties NG       32.918         City       Alli Orice       State/IE Zip Code / 202/1       11         3. Permit Number(6)   | 1  | a) in our second  | • • • • • • • • • • • • • • • • • • •   |   | at 3  |
| CityAlli actic a  | CityAlliante a   |  |   |   |   | 2   |
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| A. Parpose of well (cpdlaste case):   | <ul> <li>4. Pageose of well (indicate core): Dewatcring (over 90 (days) Domestic Goldbarndt Ground Meat Expring of the second Water Source Heat Pump Indicating Indicating Indicating Indicating Indicating Indicating Indicating Indicating Indicating Indicating</li></ul>   | and a set of the second s |   | within the Particular and the second  | breas frances and   |   |
| <ul> <li>4. Pargoes of well (indicate one): Dewatering (over 90 days) Domestic Ordering (</li></ul>   | <ul> <li>4. Pageose of well (indicate core): Dewatering (over 90 days) Domestic Orbitainit Ground Master Source Heat Pump Indicating Infraston X_Livestock Monitoring Observation Public Water Source Heat Pump Indicating Public Water Source Heat Pump Indicating Public Water Source Aquaculant Observation Public Water Source Meat Pump Aquaculant Observation Public Water Source Aquaculant Observation Observation Public Water Source Aquaculant Observation</li></ul>  |  |   | a na amin'ny fanana a | B2447257.0074633 X43642 4. US3284   | 1914 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| A. Papose of well (indicate cas):   | A. Papose of well (indicate cas):  | 1. Permit Number(s)  | 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 | <ul> <li>Hereinen and Hamilton (h</li></ul>   |   |   |
| Ground Water Source Heat Pump industrial information information information in the state of the  | Ground Water Source Heat Pump industrial information information information in the state of the   |  |   |   | ter tel isteration  | 34 ," 1-35-                                 |
| Ground Water Source Heat Pump industrial information information information in the state of the  | Ground Water Source Heat Pump industrial information information information in the state of the   | 3  |   |   | In the second second  | 5.25 M                                      |
| Observation       Public Water Supply costs spaces       Recovery       Aqueculary         Observation       Observation       Observation       Recovery       Aqueculary         Observation       Observation       Observation       Observation       Recovery       Aqueculary         Observation       Observation       Observation       Observation       Recovery       Aqueculary         A. to this will a replacement well information       Attraction number of abandoned well.       Attraction operated       Attraction operated         G. Location of water use of abandoned well:       Information       Recovery       Attraction operated       Attraction operated         G. Location of water use of abandoned well:       Information       Recovery       Attraction operated       If         G. Location of water use of abandoned well:       Information       Recovery       Attraction operated       If         G. Location of water use of abandoned well:       Information       Recovery       If       If       If         G. Location of water use of abandoned well:       Information       Recovery       Attraction operated       If       If<   | Observation       Public Water Supply costs spaces       Recovery       Aqueculary         Observation       Observation       Observation       Recovery       Aqueculary         Observation       Observation       Observation       Observation       Recovery       Aqueculary         Observation       Observation       Observation       Observation       Recovery       Aqueculary         A. to this will a replacement well information       Yes       No       B.       Registration number of abandoned well.         C. Replacement well is  | 4. Purpose of well (logicatio one):  | Dewatering (over 90 di  | (ya)DomesticGebiliarin  | al Ground Heat Exchai   | iger 15                                     |
| Cobbs   | Cobbs  | Ground Water Source Heat I   | Pumplocustrial  | LojectionInigation X Liv  | estock Monitoring   |   |
| 1. Replecement and shandoned well information.         A. to this will a replacement well information.         A. to this will a replacement well is  | 1. Replecement and shandoned well information.         A. to this will a replacement well information.         A. to this will a replacement well is   | ObservationPublic We   | ater Supply (with specing (#4-658))   | Public Water Supply tendors spe   | touRecoveryAq   | microint                                    |
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| A. Is this will a replacement well for from abandoned well.       D. Abandoned well.         C. Replacement well is for from abandoned well.       D. Abandoned well.         B. Original well pump column size: heres.       R. Completion of original well abandoning to a (9).         G. Location of water use of abandoned well.       R. Completion of original well abandoning to a (9).         6. A. Well location: Slut to the Mut to of Section 18.       R. Township 27. North. Range 50.         7. The well is feet from the (Mindon South) section line and       Range 50.         8. The well is feet from the (Mindon South) section line and       Range 50.         9. Location of water use, if applicable (give legal descriptions).       Intermediate from well a sublivision, if applicable:         9. Location of water use, if applicable (give legal descriptions).       Intermediate from the from state of the form state of the state of  | A. Is this will a replacement well for from abandoned well.       D. Abandoned well.         C. Replacement well is for from abandoned well.       D. Abandoned well.         B. Original well pump column size: heres.       R. Completion of original well abandoning to a (9).         G. Location of water use of abandoned well.       R. Completion of original well abandoning to a (9).         6. A. Well location: Slut to the Mut to of Section 18.       R. Township 27. North. Range 50.         7. The well is feet from the (Mindon South) section line and       Range 50.         8. The well is feet from the (Mindon South) section line and       Range 50.         9. Location of water use, if applicable (give legal descriptions).       Intermediate from well a sublivision, if applicable:         9. Location of water use, if applicable (give legal descriptions).       Intermediate from the from state of the form state of the state of   |  | 42-17-5402444 4 X> X+ 44414   |   |   | Said an an an an an an an an an an an an an |
| A. Is this will a replacement well for from abandoned well.       D. Abandoned well.         C. Replacement well is for from abandoned well.       D. Abandoned well.         B. Original well pump column size: heres.       R. Completion of original well abandoning to a (9).         G. Location of water use of abandoned well.       R. Completion of original well abandoning to a (9).         6. A. Well location: Slut to the Mut to of Section 18.       R. Township 27. North. Range 50.         7. The well is feet from the (Mindon South) section line and       Range 50.         8. The well is feet from the (Mindon South) section line and       Range 50.         9. Location of water use, if applicable (give legal descriptions).       Intermediate from well a sublivision, if applicable:         9. Location of water use, if applicable (give legal descriptions).       Intermediate from the from state of the form state of the state of  | A. Is this will a replacement well for from abandoned well.       D. Abandoned well.         C. Replacement well is for from abandoned well.       D. Abandoned well.         B. Original well pump column size: heres.       R. Completion of original well abandoning to a (9).         G. Location of water use of abandoned well.       R. Completion of original well abandoning to a (9).         6. A. Well location: Slut to the Mut to of Section 18.       R. Township 27. North. Range 50.         7. The well is feet from the (Mindon South) section line and       Range 50.         8. The well is feet from the (Mindon South) section line and       Range 50.         9. Location of water use, if applicable (give legal descriptions).       Intermediate from well a sublivision, if applicable:         9. Location of water use, if applicable (give legal descriptions).       Intermediate from the from state of the form state of the state of   |  | ±x ⊷≈uş≰+ s 35 <+>  | مې د د د د د د د د د د د د د د د د د د د  | αξη μ <sup>γ</sup> αμία η μεκαγρή η 7 το σ − − − − − − − − − − − − − − − − − −  |   |
| C. Replacement well is fort from abandoned well. D. Abahdonied well last operated   | C. Replacement well is fort from abandoned well. D. Abandonied well has operated   |  |   |   | And and a second s  |   |
| H. Original well pump column size: inches. R. Completion of original well shandoninesh to   | H. Original well pump column size: inches. R. Completion of original well abandoning to (0   | A. Is this well a replacement  |   | o B. Registration number of al  | undened welh  |   |
| <ul> <li>G. Location of water use of abandoned well:</li></ul>  | G. Location of water use of abandoned well:  | C. Replacement well is   | Dependent for 1996  |   |   |   |
| <ul> <li>A. Well location: Slu/Va of the flu/Va of Section 18. Township 27 North. Range 50 Wild West. Dawes Count B. The well is 1980 feet from the (first) or South) section line and</li></ul>  | <ul> <li>A. Well location: Slu/Va of the flu/Va of Section 18. Township 27 North. Range 50 Wild West. Dawes Count B. The well is 1980 feet from the (first) or South) section line and</li></ul>   |  |   | e. Completion of original w   | icit spandozinezit oz   | 19  |
| <ul> <li>B. The well is feet from the (for Dor South) section line and foet from the frame between section line (Circle one)</li> <li>C. Street address or block, he and aubdivision, if applicable:</li></ul>  | <ul> <li>B. The well isfeet from the (for Dor South) section line andfeet from the feat between section line (Circle one)</li> <li>C. Street address or block, lot and subdivision, if applicable:</li></ul>   | U. LOCASON CI WHIT WO OF   | Spandouco Mere  |   | <u> </u>  |   |
| <ul> <li>B. The well is feet from the (for Dor South) section line and feet from the feat between section line (Circle one)</li> <li>C. Street address or block, he and aubdivision, if applicable:</li></ul>   | <ul> <li>B. The well isfeet from the (flor Dor South) section line andfeet from the flast between presented in (Circle one)</li> <li>C. Street address or block, lot and subdivision, if applicable:</li></ul>   |  |   | ومراجع والمراجع والم  |   | 4.4 ·                                       |
| <ul> <li>B. The well is <u>1780</u> feet from the (for Dor South) section line and <u>730</u> feet from the feat between beerfood in (Circle one)</li> <li>C. Street address or block, he and aubdivision, if applicable:</li> <li>D. Location of water use, if applicable (give legal descriptions);</li> <li>B. If for integriton, the land to be intigated is</li></ul>  | <ul> <li>B. The well isfeet from the (finitbor South) section line andfeet from the feat between beerform in the feat</li></ul>  |  | All he source 10  | 2011  | Salar Solar and   |   |
| (Circle one) (Circ  | (Circle one) (Circ   | 6. A. Well location: 21/14 of the  | MIND/Y of Section 10  | Township.ccZ_North, Rango_2C  | Wer Innes   | Count                                       |
| C. Success an block, lot and subdivision, if applicable<br>D. Location of water use, if applicable (give legal descriptions):<br>E. If for trigation, the land to be brigated is  | C. Success at block, lot and subdivision, if applicable<br>D. Location of water use, if applicable (give legal descriptions):<br>E. If for brigation, the land to be brigated is   | B. The well is   | - feet from the (NGth)or Sou  | nh) section line and  | oct from the Past of West Past  | etico ile                                   |
| <ul> <li>D. Location of water use, if applicable (give legal descriptions):</li> <li>E. If for trigation, the land to be irrigated is</li></ul>   | <ul> <li>D. Location of water use, if applicable (give legal descriptions):</li> <li>E. If for trigation, the land to be irrigated is</li></ul>  | C. Street address or block, lot  |   |   | (careto ano)  |   |
| E. If for trigation, the land to be trigated is   | E. If for trigation, the land to be trigated is  | ·  |   |   |   |   |
| R. Well information.<br>Is pump initialled at this time? X YesNo<br>If yes, complete items A and D with estimated information for those wells in which pump will be installed<br>A. Actual purplus rans, if applicable:   | R. Well information.<br>Is pump initialled at this time? X YesNo<br>If yes, complete items A and D with estimated information for those wells in which pump will be installed<br>A. Actual purplus rans, if applicable:  |  |   |   |   | Ining. granter. Tr                          |
| <ul> <li>7. Pump Information.</li> <li>Is pump installed at this time? X Yes</li></ul>  | <ul> <li>R. Pump Information.</li> <li>Is pump installed at this time? X Yes</li></ul>   | 1. If for sugation, the land to  | De sitigation is  | ACTES.  | a sub- in the same above above  |   |
| <ul> <li>Primp Information.</li> <li>Is pump installed at this time? X Yes</li></ul>  | <ul> <li>Primp Information.</li> <li>Is pump installed at this time? X Yes</li></ul>   | C. VICE PRODUCT CONTINUES  | former  |   |   |   |
| <ul> <li>Primp Information.</li> <li>Is pump installed at this time? X Yes</li></ul>  | <ul> <li>Primp Information.</li> <li>Is pump installed at this time? X Yes</li></ul>   | ×  |   |   |   |   |
| Is pump installed at this time? X YesNo<br>If yes, complete items A through R<br>If no, complete items A and D with estimated information for those wells in which pump will be installed<br>A. Actual pix-lung rate, if applicable: gallons per minite. Measured D of Beithnated BS<br>B. Pump column dispetent  | Is pump installed at this time? X YesNo<br>If yes, complete items A through R<br>If no, complete items A and D with estimated information for those wells in which pump will be installed<br>A. Actual pix-lung rate, if applicable: gallons per minite. Measured D of Beithnated BS<br>B. Pump column dispetent   | 2 Dump to formation  | 1000 m se state e, i fan ei fa  | C C C C C C C C C C C C C C C C C C C   | x   |   |
| If yes, complete items A and D with estimated information for those wells in which pump will be installed.<br>If no, complete items A and D with estimated information for those wells in which pump will be installed.<br>A. Actual pistying rate, if applicable: <u>3</u> gallons per talnine, Meanwed D, or Beithnated BC.<br>B. Pump column disineter: <u>1141</u> , toches.<br>D. Pumping equipment installed. <u>13 - 10</u> , 1976. B. BrandfType: <u>104 ton Mark Cyffind de</u>  | If yes, complete items A and D with estimated information for those wells in which pump will be installed.<br>If no, complete items A and D with estimated information for those wells in which pump will be installed.<br>A. Actual pistying rate, if applicable: <u>3</u> gallons per talning, Meanwed D, or Bethnated BC.<br>B. Pump column disineter: <u>1141</u> teches.<br>D. Pamping equipment installed. <u>13 - 6</u> B. BrandfType: <u>10 44 for Mark Cyffin de</u>  | Is many installed at this time?  | X Yes No  |   |   |   |
| A. Actual pix-jung rate, if applicable: 3 gallons per raining. Measured D or Bithnited B.<br>B. Pupp column disineter: 7/4/   | A. Actual pixes in grate, if applicable: 3 gallons per raining. Measured D or Bithingted B.<br>B. Prop column dispeter. 1944. Inches. C. Length of purp column 44.4 [1] for<br>D. Pringing equipment installed. 13 - 6. 1976. B. Brandy Type: Clay for Mark Cyffin de  | If yes, complete items A the   | ough R.   | · · · · · · · · · · · · · · · · · · ·   | $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$ | · · .                                       |
| B. Pump column disintern. 1947  | B. Pump column disinstern. 1947. teches. C. Length of pump column. 1947. teches. D. Pamping coulumn installed. 13-6. 1976. H. Brand Type: Clay ton Mark Cyllin de  | If no, complete stems A and  | D with estimated information  | o for those wells in which pump wi  | ll be installed   | N   |
| D. Printplag equipment installed 13-6. B. Brund Types Clay for Alark Cyfin de   | D. Pringing equipment installed 13-6. B. Brandy Types Clay for Alark Cyfin de  | · A. AGUN PORTING MO, I''  |   | ERUOIN PER MINUS. MEANIN  |   |   |
|   |  | D. Printing continuent inch  |   | 1976 . IL Brand Type  | Clauton Mark Cul  |   |
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Well 731(G90120) Water Well Registration

8. Well Construction Information. A. Total well depth: 180 feet. B. Statle water loyel: 106 ifeet. C. Paraping water level: 14.7 fort. :45 Bestimated or A Meanned 31.00 ះ ដែ D. Well Construction began; *w* -1926 E. Well Construction completed: 12-6-1994 R. Boro hole dumen \_\_\_\_\_ is a) His Cast | black \_\_\_\_\_ 4/6 lachae. material Ach 10 Sec. Oak N Wast D C Shad on bet Well dichen: 250 inch(cs). Joints-Webled/Olucd/Thee MUOther Length(s) and placement(s) depth from Scitter:\_\_\_\_\_\_ID 120 1. free Q 1.10 ite norre di H. Scieta: OD h.; Type of material Screen openings (alor size): 1016 Trais sume:\_\_\_ do 64 Length(a) and placement(a) depth from 1.20 ft to 180 J. Ann Ouldes 1. Gravel pack interval(s) from, 10 12.10 .180 A from Å to " Qrado, vizo: 1 440 How J. Grouted/Sealed from with Aller VIII) froni. Ĥ. 64 Rotary K. Drilling method: Altraight L. Drilling fluid: M. Well development technique (total time and methods); he air l ₫€J N. Will chemicals, ferdings or and froze to injected or utilited in the system? If yes, what will be used Yes Yr No 9. Geologic Materials Logged 200022-00020-0002 - 12-002000 DEPTH IN FERT DESCRIPTION DEPTH IN FEBT. DESCRIPTION IN MANUEL FROM FROM 1. 70 tot \*\***\$** A . HA IT AND W INLAND 3.123 Our west -ten meel ù h DAN 130 180 Laft me 3 14 Dud 14 ...... 35m Anths .... .... \* 2 1 14.96 19.45 35 50 Clh Aurold 3. Repairing at 1 is the day of well with ..... 174 50 Latt in a ha fa te a a ca ·.... <u>75</u> han me 110:00 130 limestone. . . . Will, altig 1 31 34 sandstone. ÷.\* at a canto a dotto tas set ta la canto canto canto ..... (Additional sheets may be sidenihood) and a real with star to setting to setting to setting to setting ( 1

Well 731(G90120) Water Well Registration

10. I am familiar with the information submitted on this registration, and to the best of thy information is in an Thapmonde in the second of the second of the second for the second of th Jonnie 7 13/1/16 Juseldin ore Signabulous is a super a start with a sparse of the start of the s 41. Por 100 715 ......





## Water Well 734 (G94138) Water Well Registration

|                | Orale 195<br>OWR Form 1   |
|----------------|---|
|                | STATE OF NEBRASKA   |
|                | DEPARTMENT OF WATER RESOURCES   |
|                | WATER WELL REGISTRATION   |
|                | THE REAL PROPERTY OF DEPARTMENT USE ONLY AND AND AND AND AND AND AND AND AND AND  |
|                | Registration Date 1-5-98 Sequence No. 109906 Registration No. 6-941.38<br>Owner Code No. 50020 Receipt No. 94092 12 UPPER NIOGRARA-WHITE NRD  |
|                | All was All   |
| K L Y          | Well Owner Gasaldine Alloway AKA JEAZ Hilloway Telephone Number (307) 234-6327  |
| ſ              | City Casper Sister Wy Zip Code 2160.5 +0.575  |
| <b>Statut</b>  |   |
| 21             | Drilling Pirm No. 1900 Wells Inc. Telephone Nimber (908)762-1592<br>Address 2511 # 2 5. Hury 385 Contractor's License No. 39318<br>City Alliance State NE 21p Code 69301 +  |
| -              | Permit Number(s)  |
| : د <b>ت</b> ه |   |
|                |   |
| <b>5.</b> .    | Replacement and abandoned well information.         A. is this well a replacement well?       Yes         X. No       B. Registration number of abandoned well:         C. Replacement well is foct from abandoned well. D. Abandoned well last operated, 19         B. Original well pump column alize: inches.       P. Completion of original well abandonment on, 19         O. Location of water use of abandoned welk       P. Completion of original well abandonment on |
|                |   |
| X              | A. Well location: <u>5W</u> 14 of the <u>HW</u> 14 of Section <u>31</u> , Township <u>30</u> North, Rappo <u>50</u> East/West, <u>Dawes</u> Count<br>B. The well <u>61 Jaco</u> feet from the (North or South) section line and <u>10 1/200</u> feet from the (Eastor West) section line<br>(Circle one)<br>C. Street address or block, lot and subdivision, if applicable:   |
|                |   |
|                | D. Location of water use, if applicable (give legal descriptions):<br>R. If for trigation, the land to be irrigated is acces.<br>P. Well reference letter(s), if applicable:  |
| -              |   |
| × `            | Pump Information.<br>Is pump installed at this time? Yes X. No<br>If yos, complete items A and D with estimated information for those wells in which pump will be installed.<br>XA. Actual pumping rate, if applicable:   |
|                |   |
|                |   |
|                |   |

#### Water Well 734 (G94138) Water Well Registration

ÿ A. Well Construction 1 formation, A. Total well depthe 300 \_\_feet. B. Statle water level; C. Pumping water level; 360 lect. frva. A Radmated or D Meanuel 12 ---D. Well Construction began:\_ 1997 B. Well Construction completed: 12 - 3 1997 R. Born hole illumeter:\_\_\_\_ 9 lach(ce). G. Plain Casis; Diameter\_ 4 /2 \_1D \_\_\_ 5 OD Inches. Type of material: Ach 40 PDC Wall thickness: .250 inches. Johns-Winking/Ohed/Pit/2005cd/Other: Length(s) and placement(s) depth from íi. 10 240 R. from i'L to Type of material 44 R 17 (D OD las PUC H. Screen bage Trade name: Guident at. Length(e) and placement(s) depth from . 240 360 ft. from A to n, do A to 300 1. Oravel pack interval(s) from \_\_\_\_\_\_ IL from A. 10 **Under state** aferet J. Ground/Sealed from A, with £. <u>Clugge</u> ferm ft, with (Farme K. Drilling method altricht L. Drilling Ruid: Dentinuter . M. Well development technique (total time and method): air lift. purspin 19 nik N. Will chemicals, fertilizer or antificezo be injected or utilized in the system? XNO If yes, what will be used: \_ 9. Ocologic Materials Logged DESCRIPTION DEPTH IN FEBT DEPTH IN FEBT DESCRIPTION PROM TO FROM TO 3 140 0 90 ark. basi sendetona 3 5 140 165 Un sandstone fine 5 40 sandstine 145 170 Æ, Baser Ast as Uniersch (Ha 170 190 brica dak. 40 65 mi ne grand mich silte and some linistry 190 200 Land Ask brow 224 and this 65 25 Sam de Lone 200 CA. tits of an parce 224 260 and a torre les 75 90 sandstones time 260 . 280 d hn 260 300 Ć (Additional sheets may be submitted) 10. I am familier with the information saturated on this registration, and to the best of my knowledge it is true. Water Well Contractor's Signature Water Well Opiner's Signature Data Al war as ward any

#### Water Well 735 (G148049) Water Well Registration

| Lie  | DECOLA, NE 68509-4676 DEPARTMEN   | TATE OF NEBRASKA   | 2004<br>1412 |
|------|---|--|--------------|
|      | FOR   | R DEPARTMENT USE ONLY  |              |
|      | ne Filed <u>  22 08</u> Owner Code No<br>  <u>222008 -  8992   WWWC</u>   | 88935 Registration No. 6-148049<br>(3) 122718 UNW NRD  | ,            |
| t. 1 | e. Well Owper's First Name PATTI  | Last Name Holl 1 baush   |              |
| é    | OR Company Name   |  |              |
| ļ    | b. Anestion Name  | and the second second second second second second second second second second second second second second second |              |
| (    | c. Address 971 gaguar   | Mound he   |              |
|      |   | State C Zip / 5375 Telephone   | ,            |
| 2. 1 | a. Contractor's License No. 29492 Contracto   | ar's Name from Presser   |              |
| ,    | Contractor's Email Address  | lell Service   |              |
| 1    | Address 3/6 for   |  |              |
|      |   | State 1 2 10 69739 Telephone 665 2259  |              |
|      | Drilling Firm's Email Address   |  |              |
|      | a. Well location <u>SE</u> % of the <u>SW</u> % of Section<br>b. Natural Resources District <u>UUU</u>  | a 3 1. Township 30 North, Range SOE W . Harrow Cour  | ity.         |
|      | <ul> <li>c. The well is <u>200</u> feet from the (N<br/>OR Letitude Degree <u>42</u> Minute<br/>Longitude Degree <u>103</u> Minute</li> <li>d. Street address and subdivision, if applicable</li></ul>  | 14 Second 14   |              |
| 4    | e. Location of water use (give legal descriptions).   |  |              |
|      | f. If for inrigation, the land to be irrigated is<br>g. Well reference letter(s), if applicable   |  |              |
| 4. ) | Permits<br>Management Ares Pennit Number  | Surface Water Fermit Number  |              |
| - 1  | Geothermal Permit Number  |  |              |
|      | Well Spacing Permit Number  | Other Perceit Number   |              |
| 1    | HHSSAquaceltur  | Groundwater Source Heat Pump Dirigation Diriction  | <b>n</b>     |
| 1    | Domestic Ground Heat Exchanger<br>Livestock Monitoring C<br>Public Water Supply (retain group) Recover  | Observation Public Water Supply consumered and<br>cry Other  |              |
| 5. 1 | Public Water Supply (retained to be and tob |  |              |
| 5. 1 | Public Water Supply (reference)         Wells in a Series.         a.       Is this well a part of a series?  | ery Other<br>Outset with this section.   |              |
| 5. 1 | Public Water Supply (reference)         Wells in a Series.         a.       Is this well a part of a series?  | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |
| 5. 1 | Livestock Monitoring      Public Water Supply (retained on the cover      Wells in a Series.     a. Is this well a part of a series? Yet go to part b. If one or more of the wells in the series is current   | ery Other  |              |

#### Water Well 735 (G148049) Water Well Registration

|   |  |                            |   |   |                      |   | 6-14                              | 8047                            |
|---|--|----------------------------|---|---|----------------------|---|-----------------------------------|---------------------------------|
| a. isti<br>d. Res   | tis well a repla<br>proteion numb  | constant web?              | _Y∞ []X₩<br>4   | o go to part \$ (<br>If not                           | registered, det      | un -<br>c origian) well wa<br>li in fe                          | s constructed ;<br>et from origin | n la lun                        |
|   | -  | use of original v          |   |   |                      |   |                                   |                                 |
| Picase S  | elect One:   |                            |   |   |                      |   |                                   |                                 |
| ۲. 🗖  | Original water   | well decommis              | nioned on <sub>(m)</sub>  | _leslos   | OR                   |   |                                   |                                 |
|   | water weil.  | OR                         |   |   |                      |   |                                   | a of the replacement            |
| 3. CJ   | days after such  | b construction o<br>ring c | f the replacem<br>zvatica   | nai weitz weit  | It will be used      | to pump 50 galia<br>) far one of the fol<br>rai resources distr | lowing: a.                        |                                 |
|   | If 3d is choses  | 1. NRD signatur            | e is required.  |   |                      |   |                                   | •                               |
|   | NRD signatu  | ۴۴                         |   |   | Dese                 |   | OR                                |                                 |
| *0  | Decomplission  | Modification (             | Intification for  | na is sobnitte  | i by landowner       |   |                                   |                                 |
| Puz<br>City<br>Pur<br>e. Puz<br>d. Dro<br>f. Pun<br>f. Pun<br>9. Well Con<br>a. Tota<br>d. Well<br>Well<br>. moun | np Installer's F<br>nping rats<br>ppips diamete<br>aping equipment<br>s well is design<br>structica Infon<br>I well depth<br>Construction I<br>s drilled priot ( | inn Address                | ns per minute<br>inches<br>/un<br>ted to pump is<br>fest. b. Su<br> | c<br>ss that 50 gpm<br>stic water level<br><u>C 7</u> | 2/0                  | Estimated   | uping water in                    | a<br>rel <u>290</u><br>s2400.02 |
| g. Casi   | ng and Screen  | Iolote are Weld            | al L Ga   |   | Threaded             | Othe  |                                   | 1 grow                          |
|   | struction (Cast  | b                          | <u>, 4, 6, 69 800</u>   | d d   | uid be in inche<br>C | to three decimal<br>f   | slaces<br>g                       | b                               |
|   | CEDICELI   | Casing or                  | Inside  | Outzide   | Wall                 | Screen Slot   | Type of                           | Trade Name                      |
|   | in Feet  | Screen                     | Diameter  | Dismeter  | Thickness            | Size  | Material                          |                                 |
| From  | To   | L                          |   |   |                      |   |                                   |                                 |
| 325   | 355  | screen                     | 4-050   | 4,273   | .271                 | _ 025   | PUC                               | ante ha                         |
| 355   |  | Carry                      | 4.050   | 4.273   | _ 27/                |   |                                   | Carra le                        |
|   |  | F                          | 1   |   |                      | ······································                          | L                                 |                                 |
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Water Well 735 (G148049) Water Well Registration

|   |                              | 6-142049   |
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| ann <mark>de desentations serveralitate</mark> a de astronomistano (n. C. ) constatores |                              | ананалананан ал ал ан ан ал алан адаасан саран саран саран ал ан ан ан ан ан ан ан ан ан ан ан ан ан               |
| Grout and Gravel Pack   | ,                            | · ·  |
| Placement Depth in Feet   | Grout or                     | Material Description   |
| xm To   | Gravel Pack                  |  |
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| Geologic Materials Logged   |                              | Depth is Post Description  |
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| L 10 what it  | ay                           | x<br>••••••••••••••••••••••••••••••••••••  |
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|   | [                            |  |
|   | •                            |  |
|   | (Additional sheets a         |  |
| I hereby certify that the information pro-  | vided on this registration i | i true and accurate to the best of my knowledge.   |
| 1   |                              |  |
| the the   | 1 1007                       | *  |
| Mater Well Contractor's Signature   | Date                         | Well Owner's Signature Date  |
|   |                              | if Contractor is unknown or Deceased   |
| 14 w . 4 . 4 . 3 . 3  |                              |  |
| 16 note this document contains three p  | iges.                        |  |
|   |                              |  |
|   |                              |  |
| -   |                              |  |

Water Well 736 (G68634) Water Well Registration

| `н<br>ж. с   | DO NOT WRITE   | IN THIS SPACE  |   | · 4   |
|--|--|--|---|---|
| Registration NoG-68634   | County Dawes   |  | _ Date Filed  | 2/23/83   |
| · · · · · · · · · · · · · · · · · · ·  | STATE OF N<br>DEPARTMENT OF W<br>WELL RÉGI   | ATER RESOURCES   |   | · · · · · · · · · · · · · · · · · · ·                                       |
| (If new installation c<br>registration forms a<br>B. Replacement well<br>Is this well to replac<br>If yes, give registrati | to another well? Yes<br>on number of previously regist<br>onsists of a series of wells with<br>and driller's certificates for eac<br>e a permanently abandoned well<br>ion number of abandoned well<br>(required only in a | one outlet, complete<br>h and submit \$7.50)<br>ell? Yes XNo                     |   | well to be registered<br>(Check One)<br>RRIGATION<br>1UNICIPAL<br>NDUSTRIAL |
| 2. Name & address of well<br>Tomahawk Ran<br>Marsland, Ne<br>Zip Code69354   | nch & Cattle Co. 76<br>Braska  | *  | ઉવયલ  | <u>ب</u><br>ج   |
| 3. Name & address of well  | döller:  |  | ·   |   |
| Hidwest Farm<br>Gèring, Nebr<br>Zip Code <u>69341</u>  | raska -  | 632-6137   | n<br>X<br>X<br>Marina Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio Antonio | * /   |
| 4. Location & purpose of<br>A.D-Upper White  |  |  | atural Resources  | District (Identify  |
| Dawes<br>C. The well is 100<br>owned by X you<br>(check or<br>D. The well is intende<br>following land:                    | 00 feet from the nearest mu<br>someone other than you.   | -County.<br>nicipal, irrigation, or<br>of land, and it is into<br>29 N, Rango 50 | industrial well. T<br>ended to irrigate   | ×.  |
| 5. Well and pump specific  | utions:  | * * **********************************   |   |   |
| A. Pumping rate under  | normal conditions:900  | gallons per ininute.   | 22  | °,à:  |
| B. Total well depth:<br>C. Inside diameter of t  | 200_feet.<br>he casing: <u>16_</u> inches.   | · · · · · · · · · · · · · · · · · · ·  |   | •<br>*  |
| D. Static (non-pumpin  | s) water level in the well: 11   | 5feet below groun  | d surface.  |   |
| E Depth of water und   | er normal pumping conditions   |  | ground surface.   |   |
| i mit makan an unter aute  |  | 180 feet.  |   | 21  |
| F. Fump column: Diar   | meterBinches. Length   |  |   |   |

#### (With an "X" mark the location of the well) hê ku NAHL . NË AL 5£ 84 -5E\*61 5.0 hs X 1 NE 54 NO 55 NE SE tem Ca 5 ¥ 56 8E 8E N. N. N. 2 1840 2440

This drawing represents one square mile (a section). Each small subdivision is a 40-acro tract.

1 certify that 1 am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, concise and accurate.

8 Feb 198-3

Both a Well Registration and Driller's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refundable \$7.50 fee (payable to the Director of Water Resources) must accompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

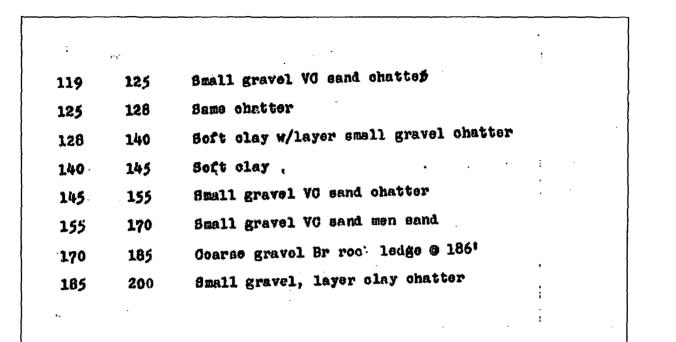
State of Nebraska Department of Water Resources 301 Centennial Mall-South P.O. Box 94676 Lincoln, Nebraska 68509

Water Well 736 (G68634) Water Well Registration

| Antifa April  | 1, 3344            | an an an an an an an an an an an an an a  |  |
|---|--------------------|---|--|
| Registratio   | n NoG              | -68634. County of Dansa   | Date Filed. 2/23/83  |
|   |                    |   | NEBRASKÅ<br>P WELL DRILLER   |
| 1, 11   | dvest F            | arm Service, IRG.   | of Box 166, Gering, Nebraska 69341   |
| County of   | ootta B            | LuffState of  | ta   |
| 1. LI   | un the drill       | ler of a well located on the S  | UNNE Quarter, Section No. 17   |
| Township.   | 29                 | North, Range 50 W, owned  | d by   |
| whose pos   | toffice add        | 1014 In   | State of   |
| S. T  | hat the dri        | ling was begun on the   | day of Ootober 1968, and completed a   |
|   |                    | of Datober 19.68  |  |
| ••••  |                    |   | Nowing manner: 0-120, 16" 10ga, Plain,   |
|   |                    |   | (Sive hind of tasing, lengths and position of plain :  |
| الالداد الإكرام فيتحقي  |                    |   |  |
| designed and souther  |                    | lite ereing, sta.)  | · · · · · · · · · · · · · · · · · · ·  |
| 4. T  | hat the dia        | meter of drilled hole is 0-36-36<br>36-200  | .inches.<br>25   |
| 4. Ti<br>5. Ti  | hat the dia<br>hat | meter of drilled hole is0-36-36<br>36-200<br>verge Rotery   | linghes.<br>25 <sup>a</sup><br>  |
| 4. Ti<br>5. Ti  | hat the dia<br>hat | meter of drilled hole is0-36-36<br>36-200<br>verge Rotery   | .inches.<br>25   |
| 4. T<br>6. T<br>6. T  | hat the dia<br>hat | mater of drilled hole is0-35-36<br>36-200<br>torgo_Rotary<br>led hole#/is not scaled, as follows  | inches.<br>25<br>  |
| 4. T<br>5. T<br>6. T<br>7. T  | hat the dia<br>hat | mater of drilled hole is0-35-36<br>36-200<br>lorgo_Rotary<br>ied hole#/is not sealed, as follows  | inches.<br>25<br>  |
| 4. TT<br>6. TT<br>6. TT<br>7. TT<br>penetrated<br>DEPTH   | hat the dia<br>hat | mater of drilled hole is0-35-36<br>36-200<br>torgo_Rotary<br>led hole#/is not scaled, as follows  | depth, thickness and character of the different atra   |
| 4. TI<br>6. TI<br>6. TT<br>7. TI<br>penetrated  | hat the dia<br>hat | mater of drilled hole is0-36-36<br>36-200<br>RECED ROLERY<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:   | inches.<br>25<br>  |
| 4. TT<br>6. TT<br>6. TT<br>9. TT<br>penetrated<br>DEPTH<br>FROM   | hat the dia<br>hat | mater of drilled hole is0-36-36<br>36-200<br>Rorgo Rotory<br>led hole#/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:  | Linches.<br>25 <sup>8</sup><br>  |
| 4. TI<br>6. TI<br>6. TI<br>9. TI<br>penstrated<br>DEPTH<br>FROM<br>0  | hat the dia<br>hat | meter of drilled hole is0-36-36<br>36-200<br>worgo Rotary<br>led hole #/is not sealed, as follows<br>llowing is an accurate log of the<br>location of water-bearing strats:<br>Soil & Clay<br>Br. rock Mid. sand  | Linches.<br>25 <sup>8</sup><br>depth, thickness and character of the different atra<br>MATERIAL DRILLED  |
| 4. TT<br>6. TT<br>8. TT<br>9. TT<br>penetrated<br>DEPTH<br>FROM<br>0.<br>111  | hat the dia<br>hat | mater of drilled hole is <u>0-36-36</u><br>(ergo Rotery<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>location of water-bearing strata:<br><u>Soll &amp; Clay</u><br>Br rook Mod sand<br>Dr rook SS Soft SS VO   | Linches.<br>25 <sup>8</sup><br>  |
| 4. TT<br>6. TT<br>6. TT<br>9. TT<br>penetrated<br>DEPTH<br>FROM<br>0<br>111<br>20<br>35   | hat the dia<br>hat | mater of drilled hole is <u>0-36-36</u><br>(ergo Rotary<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:<br><u>Soll &amp; Clay</u><br>Br rook Mod Sand<br>Dr rook SS Soft SS VO<br>Boft Clay   | inches.<br>25<br>depth. thickness and character of the different atra<br>MATERIAL DRILLED  |
| 4. TT<br>6. TT<br>6. TT<br>9. TT<br>penetrated<br>DEPTH<br>FROM<br>0<br>11<br>20<br>25<br>59  | hat the dia<br>hat | mater of drilled hole in0-36-36<br>36-200<br>Rerge Rotary<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:<br><u>Soil &amp; Clay</u><br>Br rook Mad sand<br>Dr rook 38 Soft 88 VO<br>Boft Clay<br>31 clay VC sed gravel  | Linches.<br>25<br>depth. thickness and character of the different atra<br>MATERIAL DRILLED<br>Sand<br>Sand   |
| 4. TI<br>6. TI<br>6. TI<br>9. TI<br>9. Postrated<br>DEPTH<br>FROM<br>0<br>11<br>20<br>35<br>59<br>65  | hat the dia<br>hat | meter of drilled hole is <u>0-34-36</u><br>36-200<br>Margo Rotary<br>led hole #/is not sealed, as follows<br>llowing is an accurate log of the<br>ocation of water-bearing strata:<br><u>Soll &amp; Clay</u><br>Br rook Mad sand<br>Dr rook SS Soft SS VO<br>Boft Clay<br>30 clay VO sed gravel<br>Soft Clay                              | Linches.<br>25 <sup>8</sup><br>  |
| 4. TT<br>6. TT<br>6. TT<br>9.  | hat the dia<br>hat | meter of drilled hole is <u>0-34-36</u><br>Margo Rotary<br>led hole M/is not sealed, as follows<br>lowing is an accurate log of the<br>location of water-bearing strats:<br><u>Soil &amp; Clay</u><br><u>Br rock Med sand</u><br><u>Dr rock 38 Soft 88 VO</u><br><u>Boft Olay</u><br><u>Soft Olay</u><br><u>2/3 soft olay Matres</u>      | inches.<br>25<br>  |
| 4. TT<br>6. TT<br>8. TT<br>9. TT | hat the dia<br>hat | mater of drilled hole is0-36-36<br>36-200<br>rerge Rotery<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:<br>5011 & Clay<br>Br rook Mod sand<br>Dr rook SS Soft SS VO<br>Boft Clay<br>3º oloy VC sed gravel<br>Soft Clay<br>2/3 soft olay Matress<br>Small gravel VO sand | inches.<br>25<br>Lype of drilling machinery was use<br>depth, thickness and character of the different stra<br>MATERIAL DRILLED<br>1 Sand<br>1 Sand<br>4 Soft 88 |
| 4. TT<br>6. TT<br>8. TT<br>9. TT | hat the dia<br>hat | mater of drilled hole is0-36-36<br>36-200<br>rerge Rotery<br>led hole #/is not sealed, as follows<br>lowing is an accurate log of the<br>ocation of water-bearing strata:<br>5011 & Clay<br>Br rook Mod sand<br>Dr rook SS Soft SS VO<br>Boft Clay<br>3º oloy VC sed gravel<br>Soft Clay<br>2/3 soft olay Matress<br>Small gravel VO sand | Linches.<br>25<br>   |

# Water Well 736 (G68634) Water Well Registration

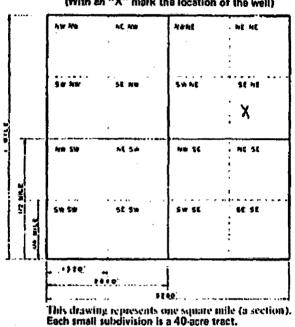
Water Well 736 (G68634) Water Well Registration



Water Well 737 (G68635) Water Well Registration

| - · · · · · ·                      | DO NOT WRITE IN THIS SPACE   |
|------------------------------------|--|
| Regist                             | ation No. G-68635 County Dates Date Filed 2/23/83  |
| * *<br>• *<br>• *                  | STATE OF NEBRASKA<br>DEPARTMENT OF WATER RESOURCES<br>WELL REGISTRATION  |
| I. G                               | neral information:   |
| - 2 <b>.</b>                       | Connected well Is this well connected to another well? Yes X No X IRRIGATION   |
| •                                  | If yes, give registration number of previously registered vell.<br>(If new installation consists of a series of wells with one outlet, complete MUNICIPAL  |
| B.                                 | registration forms and driller's certificates for each and submit \$7.50) Replacement welt   |
|                                    | Is this well to replace a permanently abandoned well? Yes No Other Other   |
| C.                                 | Permit No(required only in a Ground Water Control Area)  |
| * .                                | me & address of well owner:<br>Tomahawik Ranch & Cattle Co. (Bruce Lake (39455)<br>Marsland, Hebraska  |
| Z                                  | p Code 69354 Phone ( 308) 605-1765   |
| 3, N                               | me & address of well driller:  |
| , ring<br>nig                      | Chase Drilling Co.<br>This company is no longer in business.   |
|                                    | Phone: ()  |
| <b>B</b> .                         | Jupper White: Hiobrara       Natural Resources District (Identi         SE       4 of the ME       4 of Section       17       Township       29       Range       50       E X         Daves       County.       County.       County.       The well is 1000       feet from the nearest municipal, irrigation, or industrial well. The nearest well owned by X you       someone other than you.  |
| `,                                 |  |
| Ď                                  | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Saction 17, Township 29 N, Range 50 W   |
|                                    | Check one)<br>The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of<br>following land: Saction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and stock water  |
| E                                  | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Soction 17, Township 29 N, Range 50 W   |
| E<br>5. W                          | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Soction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and stock water   |
| E.<br>5. W                         | (check ener)<br>The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of<br>following land: Soction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and stock water<br>ell and pump specifications:  |
| E.<br>5. W<br>A                    | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Soction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and Stock water<br>ell and pump specifications:<br>Pumping rate under normal conditions: 1200 gallons per minute,   |
| E.<br>S. W<br>A<br>B               | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Saction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and stock water<br>ell and pump specifications:<br>Pumping rate under normal conditions: 1200 gallons per minute.<br>Total well depth: 340 fret.  |
| E<br>S. W<br>B<br>C<br>D           | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of<br>following land: Soction 17, Township 29 N, Ranks 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and Stock water<br>ell and pump specifications:<br>Pumping rate under normal conditions: 1200 gallons per minute.<br>Total well depth: 340 feet.<br>Inside diameter of the casing: 16 inches.<br>Static (non-pumping) water level in the well: 110 feet below ground surface.  |
| E<br>S. W<br>A<br>B<br>C<br>D<br>E | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of following land: Soction 17, Township 29 N, Range 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and Stock water<br>ell and pump specifications:<br>Pumping rate under normal conditions: 1200 gallons per minute.<br>Total well depth: 340 feet.<br>Inside diameter of the casing: 16 inches.<br>Static (non-pumping) water level in the well: 110 feet below ground surface.<br>Depth of water under normal pumping conditions: 200 feet below ground surface. |
| E. W. A. B. C. D. E. P.            | The well is intended to irrigate 200 acres of land, and it is intended to irrigate all or parts of<br>following land: Soction 17, Township 29 N, Ranks 50 W<br>OR<br>The well shall be used for purposes of: Irrigation and Stock water<br>ell and pump specifications:<br>Pumping rate under normal conditions: 1200 gallons per minute.<br>Total well depth: 340 feet.<br>Inside diameter of the casing: 16 inches.<br>Static (non-pumping) water level in the well: 110 feet below ground surface.  |

#### Water Well 737 (G68635) Water Well Registration



(With an "X" mark the location of the well)

I certify that I am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, concise and accurate.

1êma Date 983 **Owner's Signature** 

Both a Well Registration and Drifler's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refaulable \$7.50 fee (payable to the Director of Water Resources) must accompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

State of Nebraska Department of Water Resources 301 Centennial Mall-Sonth P.O. Box 94676 Lincoln, Nebraska 68509

## Well 738 (G97537) Water Well Registration

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|---|---|--|
|   | DIPARTURAR OF VATUR RISONALIS<br>Tater Veli Registratisa  | tage set 1   |
|   | ton offertations the other  |  |
| Registration Date <u>8-21-98</u> 7690<br>Orace Code Do. <u>37641</u> Receipt  |   | minmin n. <u>G-09753</u> 7<br>r <u>Niobrara-White</u> m  |
| i. tell omer janne filkin<br>kliens P.O., BoxQ15<br>city klinlin  | fute B  | Telephone Ruber ( 308 ) 665-2688<br>Rip Code 69356 +   |
| 2. Deliling Firm CRAD HATER MILLS<br>Address IN Vest Lab Creek Road<br>City Craviord  | State II  | Telephone Sanber { 398 } 665-1418<br>Contractor's License Ro. 35935<br>Sip Code 69339 +  |
| 3. Peralt Inder(o)  | a nananing na sa ang ang ang ang ang ang ang ang ang an   | r - Heldelander Hours  |
| (this   | Indentrial (njection fr<br>16 spacing 46-638) Public Vater  | _Geotheren) _Ground Neut Lech<br>rigation II Livestock _Nunitoring<br>Supply (without specing) _Recovery _A  |
| Groand Anter Source Sent Pany<br>Shanevation Pablic Vater Supply (vit   | Indentrialfnjeetionit<br>ib apacing 46-6383Public Vater<br>(00.<br>(enBoRegintration a<br>ibandoned well. D. Abandoned well<br>iinten, F. Completion of   | rleation II Livestock  |
| Groatd Tater Source Reat Pany<br>ObservationPablic Tater Supply (vit<br>Other<br>5. Replacement and abandoned well informati<br>I. in this well a replacement well? II T<br>B. Replacement well in IS feet from a<br>I. original well puny column size: 1 1/4 | ladastrial fajzetion in<br>ib spacing 46-538) Yabile Vater<br>(02.<br>(23.<br>(24 b) B. Registration a<br>basdoned well. D. Abandonid well<br>i inthes, F. Completion of<br>ells<br>retion 26 , Township 29 North, 1<br>wrdowth section line and <u>(0.50</u> feet<br>liviatios, if applicable: IB<br>(give legal descriptions):<br>righted is acres. | rigation II Lisestock Nonitoring<br>Sapply (vithout spacing) Recovery &<br>under of abandoned wells<br>last operated 10/10/97<br>original well abandonneat co. \$6/38/98 |

## Well 738 (G97537) Water Well Registration

| ħ   | icolo (14)<br>ill Caca<br>la vall (  | B OF NEGISTRAFICS REPORT FOR, Weld Owner LONG<br>ison SR & of the SW & of Sectlas 26 , Torm<br>a feet from the section lies and   | IX VILLIPS<br>ibip 29 North, Lung<br>feet from the  | Tage set 1 of 1<br>e 51 T , DAVIS Coonty,<br>                      |
|---|--|---|---|--|
|   | Construc   | tion falozaatlon<br>Appta: 260 feet, 0. Static rater level: (   | 178 leet.   | C. Jusping vater devels 189 feet.<br>[2] Satinated or (_] Kensured |
| P. Ba<br>G. 21<br>Bi<br>Bi<br>Bi<br>Bi<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>Sc<br>La<br>S<br>Sc<br>La<br>S<br>Sc<br>La<br>S<br>Sc<br>La<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S | rre bole<br>lain Cap<br>bll thic<br>ength(s)<br>treen op<br>ength(s)<br>ravel per<br>rosted/Se | Auction began 44/23/30 E. Weil Construction<br>diameter 9 inches.<br>mg: Dismeter 4.454 ID 4.950 OD inches.<br>mess, .454 inch[43], loiats 6LUED<br>and placecent[s] depth from 0 It. to 244<br>454 ID 4.959 OD in; Type of nutarial<br>mings (slot size)s .015 Trade mane; MOM<br>and placecent[s] depth from 240 ft. to 260<br>k interval(a) from 25 ft. to 260 ft. to 260<br>k interval(a) ft. to 25 ft. with BUBIC<br>from 0 ft. to 15 ft. with BUBIC<br>febds 20/242 3. Desiling fleids BU | Type of naterial PV<br>Ct. from f<br>PVC<br>ATS<br>LL. from ft.<br>Tom ft. to<br>WF18 CHIPS<br>CUTTINGS | t. to ft.<br>to ft. Guides at ft.                                  |
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Water Well 739 (G113923) Water Well Registration

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| ي د بر من من من من من من من من من من من من من | • • • • • • • • • • • • • • • • • • •                                       | STATE OF N                              |                                       |  | Toini Fee 200.00     |
|   |   | RTMENT OF NAT<br>WELL REGISTRA          |                                       |  | 10155 Fee 530.00     |
|   |   | FOR DEPARTMEN                           |                                       |  |                      |
| NOL ID  | 10107845103159 NOL Status   | Accepted Well Status                    |                                       |  | SP25 Print           |
| Covnar ID<br>Corp Num                         | 43200 NOL Date  | 01/12/2002 Call Up Code<br>Call Up Date |                                       | ition Date                             | 01/14/202            |
| and a constant                                | way 14, 2002  |   |                                       |  | Pope 1 of 3          |
|   | -   | STATE OF NI<br>ARTMENT OF W/            |                                       | CES                                    | ,                    |
| 1012-25                                       | WATER   | WELL REGISTRA                           | 128 Sec. 14 100 10 10 10 10           | PERMIT                                 |                      |
| NOL ID  | 101078451   | EOR DEPARTMEN                           | USE ONEN STATE                        |  |                      |
| Owner ID                                      | 43206   |   |                                       |  |                      |
| In Oxners I                                   | CA. 4549  |   | I TROESTER                            |  |                      |
| D Company                                     | Namo  |   |                                       |  |                      |
| Correspondent<br>Alfoness                     | dent Name<br>BOX 235  | A44                                     |                                       | · · · ·                                |                      |
|   | ARIAND  | Shale NE Zp Code                        | 69354                                 | ] Phone [                              | 300 - (45.2355       |
|   | mato Lia (D) [["]](65492]]  | Contractor's Name:                      | Lioniard H. Chubo                     | · ***                                  |                      |
| - AContract                                   | V's License No:   | Contractor's Email Address:             | - Ichubb@molcity.co                   |  |                      |
| 2 CAN BEAR 77/20                              | nt Name   | Wes                                     |                                       |  |                      |
| A DECKER OF A DECKER                          |   | Stale NE Di Code :                      | 68339                                 | Phone                                  | 08 - 305-1243        |
|   |   |   |                                       |  |                      |
| Salivial Loca<br>10 National Pa               | nion NV/SE of Se<br>Motifice District Upper Mobris                          |   | North, Range. 50                      | <u>] w</u> ((ENV),   [                 | County               |
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| d Street add                                  | hise or block, lot and adamision, it  | l'applicable:                           |                                       | Block No                               |                      |
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| A Fernits                                     | Pormite &   | lumber Dala                             | Permita                               | Permits Num                            | oor Date             |
| Gurtaga                                       | nest Aran Paint   |   | Transfer Out-Of-State<br>Woll Specing |  |                      |
| Geothern                                      |   |   | Conduct Water                         | ······                                 |                      |
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### Water Well 739 (G113923) Water Well Registration

| 30007.30                | nuory 14, 2002  |  |                      | FNEBRASK  |  | Paga 20             |
|-------------------------|---|--|----------------------|---|--|---------------------|
|                         | i.  |  |                      | F WATER RE  |  |                     |
|                         | 1<br>1911 - 1922 - 1923 - 1923  | WATER WE   | LL REGIST            | <b>FRATION</b> or   | AREA PERM                                | T G - 112929        |
|                         |   |  | FOR DEPAR            | TMENT USE ON  | <b>Y</b>                                 |                     |
| NOL ID                  | 101078451   |  | • •                  |   |  |                     |
| )wner ID                | 43206   |  |                      |   |  |                     |
| و شرید                  |   |  | szarsi algaritési    |   |  |                     |
| 15 Part 1 Part 1 Part 1 | PH 414 14 24 14 16 16 16 16 16 16 16 16 16 16 16 16 16  | Service States Strengt   | registered, give the | woll registration pum?  | wr (                                     |                     |
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| 114 YALXA<br>1          | upment installed i  | 125 oches:   | / [2001 ]            | <ul> <li>Langth of drop pipa</li> <li>Pump Brand</li> </ul>   | DEMPSIER.                                |                     |
| The second second       | B bo used to pump   | The state of the second st |                      |   | USIN AICE.                               |                     |
| (Figure )               | rinden bistimuliking  |  |                      |   |  |                     |
| stat west o             | (mi) 80°72  | leot.  | "≂ ¦s 21 a•          | b State Water Level   | · · · · · · · · · · · · · · · · · · ·    |                     |
|                         |   | in thet  |                      | d Woll construction b   |  |                     |
|                         | uction completed:   |  | 2001.<br>Other       | E Boro hole diameter l  | ninches. Top                             | Datem 19            |
|                         | Screen Joints   |  |                      | ×   |  |                     |
| L.<br>Const             | uction (Cealing and   | Senien)  | ,                    | Error in Case Scro  | en Table 🔲                               |                     |
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|                         | 60 <u>60</u>  | 4,454  | 4.950                | .496  | .016 PVC                                 | ROBERTS             |
|                         | and the second se |  | to the case of the   | S. B. A. Bart .   |  |                     |

Water Well 739 (G113923) Water Well Registration

| Monday, January 14, 2002                  | D               | EPARTMENT<br>R WELL REG | ISTRATIO                               | R RESOU                      |              | IT_G-#                                | Poge:<br>3. <i>9.</i> 93 |
|---|-----------------|-------------------------|--|------------------------------|--------------|---------------------------------------|--------------------------|
| NOL ID 10107645<br>Owner ID 4320          |                 | EOR.DE                  | PARTMENT US                            | EONLY                        |              |                                       | and fra                  |
|   | n and Granel) . |                         | Error in G                             | rout Gravel Table<br>Materia | ليدة         | 2                                     |                          |
| 10107845103<br>10107845103                | 012,<br>1260,   | BENTONITE C             | HIPS                                   |                              |              |                                       |                          |
|   |                 | *****                   | ~ ~                                    |                              |              | · · · · · · · · · · · · · · · · · · · |                          |
| P Clockop Alexanial Looped                |                 |                         | Error in G                             | acing Table                  | n            |                                       |                          |
| 10107845103<br>10107845103<br>10107845103 | 04 .<br>4 12 .  | TOPSOIL<br>BRULE CLAY   | ······································ | Descript                     | 8 <b>6</b> 1 |                                       |                          |
| 10107645103                               | 12.60 .         | WATER SAND              |  | · · ·                        |              |                                       |                          |
| N.A.M.                                    |                 |                         | •<br>• •                               | ••                           | •            | 1 19 40<br>19                         | · ·                      |
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Water Well 740 (G108894) Water Well Registration

| Mail to:<br>PO Edx 94676<br>Lincoln, NE 68509-4676<br>Phone: (4021471-2363<br>EPARTMENT OF NATURAL RESOURCES<br>WATER WELL REGISTRATION<br>Registration Date <u>8-13-2001</u> Sequence No. <u>123384</u> Registration No. <u>6108894</u><br>Owner Code No. <u>43206</u> Receipt No. <u>4854</u> <u>Upper Nicorruta, 104146</u> NRD  |
|---|
| 1. Well Owner Bruce Trocster Telephone Number 3081 665-2.553<br>Address Boy 523 RIVER RO<br>City Mars Land State ALF Zip Code 6: 83.54 +  |
| 2. Drilling Firm       Nc/con 10/c//s, Inc.       Telephono Number 085 7/32 - 159 2         Address       2.5 11 # 2.5 HUY 385       Contractor's License No. 39.318         City       Allignice       State NF       Zip Code 6- 33 cl +         Vinite 100 - 0005       Contractor's License No. 39.318       Contractor's License No. 39.318  |
| 4. Purpose of well (indicate one): Dewatering (over 90 days) Domestic Ground Heat Exchanger<br>Ground Water Source Heat Pump Industrial Injection Irrigation (important, see 6D and 6E)<br>Livestock Monitoring Observation Public Water Supply are gauge 44 4000<br>Public Water Supply are gauge Recovery Aquaculture Other   |
| 5. Replacement and abundoned well information.         A. Is this well a replacement well?       Yes X No         B. Registration number of abandoned well:         If not registered, date well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered at the well construction completion at the first registered |
| 6. A. Well locations <u>W</u> 4 of the <u>SE</u> 4 of Section <u>3C</u> , Township <u>29</u> North, Range <u>Rest West</u> <u>Part 25</u> County.<br>B. The well is <u>370</u> feet from the (North South) Section line and <u>2230</u> feet from the (EastRelated section line.<br>(circle one)<br>C. Street address or block, lot and subdivisions, if applicable:  |
| D. Location of water use, if applicable (give legal descriptions): <u><i>Cart of South</i> half of Section 20</u><br>× E. Uffor irrigation, the land to be irrigated is <u>130</u> acres. As Cross here to be the d.<br>F. Well reference letter(s), if applicable:   |
| <ul> <li>7. Pump Information.<br/>Is pump installed at this time:Yes _X_No Planned 9-5 his field be low in Spring<br/>of 20071<br/>If yes, complete items A through F.<br/>If no, complete items A and D with estimated information for those wells in which pump will be installed.<br/>A Actual pumping rate, if splicable: gallons per minute. Measured B or Estimated D<br/>B. Drop pipe diameter insches. C. Length of drop pipe: foet.<br/>D. Pumping equipment installed: <u>encode</u> townE. Brand/Type: <u>Cret/d &amp; 4 stroge 1/CL</u><br/>F. Company Nume <u>No Idean Wells, Tacka</u> Pump Installer Name<br/>Address <u>2671 #2 5 Hicry 78.55</u> Telephone Number <u>(208) 2162-1.555</u><br/>City <u>AlliArthe</u> State//F. Zip Code <u>GR3C1</u> + Contractor's License No <u>39.31/S</u></li> </ul>  |
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Water Well 740 (G108894) Water Well Registration

G-102294 8. Well Construction Information. A. Total well depth: fect. B. Statio water level: Sr feet. feet DEstimated or GMeasured (at what gallons per minute rate 837 C. Pumping water level: \_ D. Well Construction began: . hand glow (12 E. Well Construction completed: 1000 11 151. F. Bore hole diameter: inches. 1,1 G. Plain Casing: Diameter 15. D OD inches. Type of material: Schill DUC Wall thickness: inch(cs). Joints-WeblepKillugd Threaded/Other. Scor (1125 Placement depth(s) from D Ĥ. 10 よで ft. from ft. to Ð. H. Sereen: D 10 OD in ; Type of material I PHC Screen openings (slot size): \_\_\_\_\_ Trado names Cer trin Tered. Fiscement depth(s) from 50 A. to 100 A. from A, to Ω. (luides an Alen Ca 1 L Gravel pack interval(s) from \_\_\_\_\_ A. 100 100 A. from A. 10 Grade size Ĥ. J. Grouted/Scaled from \_\_\_\_ fL to 20 R, with Bean Yoni (NDC) Ous from A. Lo R., with A (ope)//ga Go. K. Drilling method: Merers drug Doilling Ruid: Alcht M. Well development tochnique (total time and method): -Ars & Turbine X N. Will chemicals, fertilizer or antifreeze be injected or utilized in the system? <u>Lyes</u> No But net **~**1 If yes, what will be used: fer thister 4 pessibly chamicals attached Log 9. Geologic Materials Logged Sca DEPTH IN FEET FROM TO DESCRIPTION DEPTH IN FEET FROM TO DESCRIPTION (Additional sheets may be submitted) 10. 1 am familiar with the information submitted on this registration, and to the best of my knowledge it is true. 27-01 Well Contractor's Signature Water Well Owner's Signature Date Common on records prov

# Water Well 740 (G108894) Water Well Registration

|  | NELSON WELLS, INC.<br>2511 #2 South Hwy. 385<br>Alliance, NE. 69301<br>(308)762-1592 |                                       |
|--|--|---------------------------------------|
| Test Hole No.: 3<br>Date: 10/2098<br>Customer: Bruce 7<br>Address: | froceter<br>d NE. 69354  |                                       |
| Location: South of<br>Logged By: Glenn                             | friver about 400'  |                                       |
| DEPTH  | GEOLOGICAL FORMATION   | DRILLING NOTES                        |
| 0-14   | Soft silty sand soil material  |                                       |
| 14-20  | Loose alluvial gravel and lime to SS rock  |                                       |
| 20-40  | Loose fine to coarse sand and grave!   |                                       |
| 40-60  | Loose fine to medium sand and gravel   | · · · · · · · · · · · · · · · · · · · |
| 60-75  | Loose fine sand and gravel some med gravel   |                                       |
| 75-82  | Fine to medlum sandstone   | SW 8'                                 |
| 82-100   | Brown silty sandstone with fractures   | TW 2-3                                |
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#### Water Well 741 (G81600) Water Well Registration

a 1985 5 (č.) 5-26.87 3 : 13 · · · \* STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION Tor Department Use Unly #MSTRUCTIONS To register a ground water well, forward the following to the Department of Water Resources, P.O. Box 94676, Lincoln, Nebrasha 68509-4676. Telephone number: 402/471-2363: Registration Number:\_\_\_\_G-81600 1. Water Well Registration form (DWR Form 131). Registration Date;\_\_\_ 2. The most recent United States Department of Agriculture aerial photograph(s), available at the county Agricultural Stabilization and Conservation Service, marked to show the Receipt Number 77879 following: a) The location of the well to be registered. b) The location of wells owned by you in the same acction. Each well should be labeled to NRD 12-UPPER NIOBRARA show the use of water and the registration number. Abandoned walls should be shown, atao. 1 of if the well is for irrigation, the land to be irrigated should be shown by a crosshatch pattern and the number of acces irrigated from the well should be indicated. 91:1124 3. Fees: \* For monitoring and observation wells -- \$60. \* For wells which pump less than 50 gallons per minute -- \$60.\* For wells which pump 50 gallons per minute or more --- \$100.9
 For wells which pump 50 gallons per minute or more --- \$100.9
 For wells permitted pursuant to the industrial Ground Water Regulatory Act, a separate registration fee is required for each additional group of ten or fewer wells registered under the permit. For each additional group of ten or fewer wells registered under the permit. For each additional group of ten or fewer wells Telephone Number (38) 10/25 re-liber Name of well owner Address 210 Code 63352 City / DAKS Suste Wells Telephone Number 0308 /0/25-White 2. Dailing Firm 35 Pump Installer License No. Creek Hd Consistion's License No. 390. Address // NE Zia Cod State, City C rowsor Well Driller (Namo) comment contra Well Logger (Namo) 3. Permit Number(s) X Livenock Domestic , Integration \_\_\_\_Industrial (Ice \_\_\_\_Public Water Supply \_\_\_\_ 4. This well will be for (indicate one): Observation (Ground Water Levels) Monitoring (Ground Water Quality) Recovery .... Injection Dewatering (over 90 days) Other 5. Replacement and abandoned well information (Notice of abandonment proceeding is required for all abandoned, registered wells): B. Registration number of abandoned well; XNO A. Is this well a replacement well? Yen feet from abandoned well. D. Abandoned well last operated C. Replacement well is 1.5 F. Abandoned well plugged ŧÖ B. Original well pump column size: inches. 6. A. Well location WE14 Str 14 of Section 29. Township 20 North, Range SH2 Bast/West,) Course Courses. feel from the East/West section line. \_2000\_ B. The well is \_\_\_\_\_ feet from the North/South section line and , (if possible, measurements should be from nearest section line.) (2000 N 1640E) C. Street add,eas or block, lot and subdivision, if applicable; D. Location of use (give legal description):\_\_\_ NE of SU/ NJ 29 29 E. If for irrigation, the land to be irrigated is \_ Commit as another service

#### Water Well 741 (G81600) Water Well Registration

1. KY 8 2 If a timed pump test was conducted, submit complete pumping and drawdown data including depth of 7. Pump Information. observation wells, if any, on separate page. galions per minute. Measured D or Estimated D A. Pumping rate; 9 60 B. Persp: Column diameter C. Depth to pump; inches. 1994 D. Pumping equipment installed; 24 E. Brand/Type; maria 8. Well Information. foet. B. Static water level: 42 feet. C. Punaping water level 190. LO A. Total well depth:\_ 3-19-94 , 19<u>944.</u> E. Construction completed; 7-19 D. Construction began:\_\_\_\_ 19.2 R Bore hole diameter\_ inches. O. Casing: Diamster 4.1/. \_OD in.: Type of material; 5 Wall Olckness 013 in. Joints-Welded/Olved/Threaded/Other:\_ Calue Guides at ft. from Length(s) and placement(s) depth from A.W. îl to 9% 50 Type of material\_ 110 <u>\_</u>TD OD in.; H. Screen;\_ Guldes at Roberts. Screen openings (slot size);\_ 016 Trade name; 50 20 Length(s) and placement(s) depth from \_\_\_\_\_ 1. 60 A. Irom 1 ñ. 10 1. Gravel pack interval(s) from 10 \_A. 10 \_ 190 A. from ñ. 10 ñ. Grads size J. Grouted/Sealed from 1.0 â., wit from Ratory 1.10 lor K. Drilling method: L. Drilling field; M. Well development technique (total time and method); 4.ir Listed N. Will chemicals or femilizer be injected into the distribution system? Yes <u>X No</u> **GEOLOGIC MATERIALS LOGGED** DEPTH IN FEET FROM TO DESCRIPTION DEPTH IN FEET DESCRIPTION m FROM 0 ID 25 60 175 O 965 190 4 4 ÷...\* t a i 1.4 (Additional shoets may be submitted) . I am familiar with the information submitted on this registration, and to the best of my knowledge it in true. (7) Well Contractor's Signature Water Well'Owner's Signature aler.

#### Water Well 742 (G86157) Water Well Registration

February 1999 DWR Form 981 STATE OF NEBRASKA DEPARTMENT OF WATER RESOURCES WATER WELL REGISTRATION \* FOR DEPARTMENT USE ONLY Registration Date: 12-4-45 Registration No. 6-8/0157 Sequence No. 97,608 Owner Code No. 43204 Receipt No. 83970 12 10021 - NID OFAFA NRD Bruce Telephone Number (308) 65-2353 1. Well Owner 110-est Address Zip Code 6 9 354 + City machand Water Telephone Number 303 ) 6 65 -1411 Wells 2. Dolling Form nəd Contractor's License No. 390 Pomp Lostatler License No. Zip Code (+ 97597 + Address CARI 11 W Acl Gry\_ ALLOPDAN 3. Permit Number(s). 4. Purpose of well (indicate one): \_\_\_\_Dewatering (over 90 days) \_\_\_\_Dearestic \_\_\_\_Geothermal \_\_\_\_Ground Real Exchanger Ground Water Source Heat Pump \_\_Industrial \_\_Injection \_\_Inigation \_\_Livestock \_\_Monitoring Observation \_\_Public Water Supply (was sparing 46688) \_\_Public Water Supply (was sparing) \_\_Recovery Other (infinite the) 5. Replacement and abandoned well information. A. Is this well a replacement well? \_\_\_\_Yes X\_No B. Registration number of abandoned well:\_ feet from abandoned well. D. Abandoned well last operated 19\_ C. Replacement well is\_ E. Original well pump column size: \_ inches. F. Abandoned well plugged 19\_ 6. A. Well hereion 10 Els Nuis of Series 31 Township 29 Minth Ringe 50 East/West Dames Country, feet from the East/West soction line. B. The well is 430 feet from the Nerth South statists line and 2360 C. Street address or block, lot and subdivision, if applicable; 2 D. Location of water use, if applicable (give legal descriptions); E. If for irrigation, the land to be irrigated is \_ acres. F. Well reference letter(s), if applicable; 7. Pemp Information. is pump installed at this time? X Yes 2 If yes, complete items A through E. If no, complete items A and D with estimated information for these wells in which pump will be installed. A. Actual pumping rate, if applicable: gallows per minute. Measured [] or Estimated Ef 20 40 B. Pump column dismoser. inches. C. Length of pump column: 1995 Cz.1 D. Pemping equipment installed; E. Brand/Type, 2 ho S. Somer Hle

#### Water Well 742 (86157) Water Well Registration

8. Well Construction Informat Lr A. Total well deptir fert. C. Postoling water la 19 95 5 D. Construction began: E. Construction completed: 05 E. Bore hole diameter; 125 OD inches. Type of material: ?,/C. G. Casing: Diameter Wall thickness: .1.55 Grider at 107 s. Joins-Weided/Gloed/Threaded/Other; 4 0 40 Length(s) and placement(s) depth from ft. m ft. ferm ñ H. Screen: 6.1/5 6.625 Type of material PUC m OD in: Dalertr Golden at Screen openings (slot size): 016 Trade name: ñ. 40 Length(s) and placement(s) depth from ft. from ČL 10 60 ft. M L. Gravel pack interval(s) from 10 2Afi m 60 Ŕ. Grade siz ft from ft. m J. Grouted/Scaled from 0 10 c.t. A. with ñ. 85 济 firm with (Lype) Rates ß K. Doilling method; L Drilling field; ~.\*\* M. Well development technique (total time and method); N. Will chemicals, femilizer or antifreeze be injected or unlized in the system? Yes No If yes, what will be used: 9. Geologic Materials Logged DEPTH IN FEET DESCRIPTION DEPTH IN FEET DESCRIPTION FROM FROM TO TO 12 SurForm n 30 Sandotome 60 30 Sol 1 Graver 0 (Additional shoets may be submitted) с. Т 10. I am familiar with the information submitted on this registration, and to the best of my knowledge it is true. ж¥, 0 11-18-95 e LI Owner's Sh Date 

## Well 743 (G016423) Water Well Registration

|  |   | STATE OF USER<br>DEPARTMENT OF NATER   |   |   | Cataber 19<br>DHL Toyn 1                      |
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| ł  | egistration bate <u>7-17-2000</u><br>Haer code Ro. <u>37704</u> Rec   |  |   |   |   |
| 14<br>CL   | 11 Oraer JOEN KANNING<br>dress 1761 RIVER RO1D BOX 276<br>ty BARSLARD   | 5  | tate IL   | Telephone Novber ( 333 ) 665-<br>Ziy Cade 69354 +   | 2167  |
| 14   | illiog fire CHUBB WATER WELLS<br>Areas 11 West Ast Creek Road<br>ay Crawford  | an and a substance of the substance of the substance of the substance of the substance of the substance of the   | State 15  | Telephone Kunber ( J03 ) 663-<br>Contractor's License To, 3903<br>Lip Code 69339 •  |   |
| 1. Pe  | caic lozber(s)  |  |   |   |   |
|  | rpase of well (indicate one): D<br>round Water Source Reat Pump<br>bservation Public Water Supply<br>ther   | evatering (over 90 days)<br>IndostrialInjecti<br>(with spacing 45-638) Pot   | Donestia<br>lon II<br>ollic Vater   | Geothersal Groud<br>rigatica <u>(II.Dr</u> estack K<br>Supply {vithout spacing)` Rec  | d Seat Exchange<br>201103123<br>201153 Aquicu |
| 0<br>0<br>5. R<br>B<br>B<br>B                                    | baerration 🔜 Public Yater Supply  | (with spacing 45-638) _ for<br>reation.<br>_ Tes II HD 5. Req<br>rea abaceduelt. D. Abac<br>rea abaceduelt. D. Abac<br>rea abaceduelt. D. Abac   | )lic Pater<br> stration =<br> dcped well                                      | Geothersal Grava<br>rigatica (ILDrestact H<br>Sopply {vithout spacing}`_ Rec<br>uzber of absadoned valls<br>last operated<br>original vall absadonment on | oferty _ Jácreo                               |
| 0<br>0<br>5. R<br>B<br>B<br>B<br>G<br>G<br>C<br>C<br>D<br>D<br>Z | bservation Public Water Supply<br>ther<br>episcement and abundoned well info<br>. Is this well a replacement well?<br>. Replacement well is feet f<br>. Original well gamp column size. | (with spacing 45-638) Pat<br>reatics.<br>FesII_E> 5. ReqI<br>rea abacdoned well. D. Abac<br>inches. Z. Comp<br>ed well;<br>sof Section 26 , Foraship 30<br>forth/South section line abd<br>subdivision, if applicable;<br>soble (give legal descriptions)<br>e irrigated is acres. | blic Pater<br>stration s<br>deped well<br>letion of<br>Borth, S<br>fect<br>BR | Supply {vithout spacing)` Rec<br>uzber of absadoned valls<br>last operated<br>original vall ababdonsent on<br>ange 51 T                                   | every Aşcıco                                  |

| X                 | ell Local                          | E OF REGISTRATION REPORT FOR, Sell Sume<br>lon: SF 1 of the DE 1 of Section 26 ,<br>s /poo feet from the <u>2</u> section line          | Tovaship 30 Roy            | tà, Razq<br>ros càc | Page set 1 of<br>te 51 K , DANES County.<br>A section line        |
|-------------------|------------------------------------|---|----------------------------|---------------------|---|
|                   |                                    | tica Information<br>depth: 140 feet. 8. Static water le   | sel: 70 feet.              |                     | C. Pasping Tater levels låt fært.<br>[1] Estivated or [] Heasured |
| 7. 8<br>6. 9<br>8 | ore bole<br>laia Casi<br>all thick | ruction began 05/85/99 8. Vell Constru<br>diameter 9 inches.<br>D5: Diameter 1.454 ID 4.950 0D inc<br>hess: .496 inchies). Joints GLUBD | tes. Type of sau           | eriat 17            | ¢   |
| 8. 5              | ereegi å.                          | 103 placesest(s) depth from 0 ft. 1<br>154 1D 4.990 OD in; Type of mate<br>bings (slot size): .016     Yrade name:                      | o 120 ft. frem<br>rial PVC | f                   | t, tə İt.   |
| L4<br>1. 61       | togchis)<br>ravel gac              | ind placement(s) depth from 120 fr. 20<br>k laterral(s) from 10 ft. to 140 ft<br>pled from 0 fr. to 10 ft. vith                         | 140 Ét. Érsz<br>. froz Ét. | ts.                 | to ft. Suides at fz.<br>ft. Srade sizes 28                        |
|                   |                                    | from it, to it, vith<br>ethad: ROTARY L. Drilling flat  | d. BEDTOSITE               |                     |   |
| <b>9. 1</b> 1     | lll cheai                          | oppent technique (total time and method<br>cals, fertilizer or antifreeze be inject   | ed or utilized in the      | the sys             | tes? Tes 31 80  |
| Ľ                 | f yes, sk                          | at vill be used:  |                            |                     |   |
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### Water Well 775 (G95954) Water Well Registration

|   | STATE OF ISDALSKA<br>PIPLETUEDT OF VLYLE RESORDER<br>Veter Vell Registretien<br>For DEPARTHERTAL SEE ORLY                   | tsge set 1 of 1  |
|---|---|--|
| tiplitaties into <u>5-11-98</u> 1   |   | lyinmin n. G-095954  |
| L. Gell Greef Billy Olympic<br>Briliges Les Gisters 2010<br>Elief Erlayors  | Reto R  | Telaphaea Xuiber ( 186 ) 661-1368<br>Bip Cole (9339 o  |
| 2. Dillig lire (HH) BATER HILS<br>Africa 11 Vest det Creek Boad<br>Elty Frantard  | ştata II  | Yelepioze Kundur ( 148 ) 661-1818<br>Cantractor's License 20, 31835<br>21p Cade 69339 +  |
|   | dático.<br>Tea II Io B. Registration a<br>on abadonad vell. D. Abacónsed vell<br>ínchen. F. Conplation of                   | elgation It fivescotKastcorfus<br>dapply (vithout spacing)RecoveryAquacultur<br>inaber of abasésand vells<br>i last operated<br>original vell abasésanest op |
| <ol> <li>Wall Location: IT &amp; of the IT &amp; of<br/>B. The well is feet from the M<br/>C. Street address or block, lot and<br/>D. Location of water use, if applical<br/>E. If for irrigation, the land to be<br/>F. Wall reference letter(s). if applical</li> </ol> | orth/South section line and fest<br>unddivision, if applicable, II<br>ble (give legal descriptions):<br>irrigates is seces. | tesge 51 V , DUTIS County.<br>Aron the Rest/Vent section live  |
| 1. Letas yanpiny rate, if applicable:<br>9. Lung colums diatatore 1 in<br>9. Tanping equipment installed: 44/10,<br>7. Tanp installed by: Contractor [_]  | Liunted information for these vells in<br>1 19.40 gallons per ninute. Ressured<br>1 6. C. Length of pupp colum              | l [_] Satinated [1]<br>n 200 Seat.<br>/ SIDRASIDIT   |
| с   | CONTINUE OF HEAT PAGE   |  |

## Water Well 775 (G95954) Water Well Registration

|                                | al vell   | iles lofornation<br>depths 120 feet. B. Static water ler  | •   | [I] Inclusted or [_] Besonred                 |
|--------------------------------|---|---|---|---|
| P. 841<br>G. 22(<br>18)<br>Kei | re hote d<br>in Casto<br>11 thicks<br>14 thicks | ractina began di/45/98 %. Yell Construc<br>Ilanater 9 inches.<br>191 Bisutter 4.454 B 4.950 Ø9 Inc<br>1920 .496 inch(40). Jolars 45880<br>104 placement[s] dipth from 0 ft. t<br>194 D 4.150 0D fan Type of ant<br>1840 (slot size): .416 Trade anter | hes. Type of subscript (<br>9 200 ft. from                            |   |
| ]41<br>]. 67/<br>J. 67/        | i <b>th(s)</b> i<br>ired pack<br>inten/Rei      | lings (slot size): .416 Trade autor<br>188 glacement(s) dapth from 280 ft. to<br>1 interral(a) from 18 ft. to 220 ft<br>1866 from 5 ft. to 15 ft. vith<br>from 6 ft. to 5 ft. vith<br>1866 Advahy L. Drilling find                                    | 210 ft. from f<br>. from ft. to<br>Bibliowish chies<br>Brithcoversiss | t. 20 ft. Svides at ft.<br>ft. Grade alzen 22 |
| 1. 80<br>9. 81                 | ll derelo<br> ) chenio                          | ppret technique (total tine and netlod)<br>cals, fertilizer or autifresse de inject<br>at vill de useén   | : 1137 MILTO ( 11   | ptni _ fe  ¥10                                |
|                                | ic Xater:<br>13 TELT<br>10                      | lale boyged<br>percareras   | DIFE IS JEC<br>Rost T   |   |
| •                              | 5   | STATACE SAID  |   |   |
|                                | 55<br>47  | EDATEL<br>Alid  |   |   |
| 44<br>111                      | 185<br>161                                      | slekstore<br>Lied   |   |   |
| 143                            | 16  | STEPSION .  |   |   |
| 144                            | 314   | TATELAAD  |   |   |
|                                |   |   |   |   |
|                                |   |   |   | ····  |
| *****                          |   |   |   |   |
|                                |   |   |   |   |
|                                |   |   |   |   |
|                                |   |   |   |   |
|                                |   |   |   |   |
|                                |   |   |   | ······································        |
|                                |   |   |   |   |
|                                |   |   |   |   |
|                                | فتعلق فالجج                                     |   |   |   |
|                                |   |   |   |   |

#### Water Well 782 (G134034) Water Well Registration

|                     |   |   | · · · · · · · · · · · · · · · · · · ·  |  | •                                      |
|---------------------|---|---|--|--|--|
| Mail<br>DNF<br>PO I |   |   | Departu  | 2005   | f (2)<br>isomey 2004<br>0102 Funa 145  |
| Line                | box 94076<br>poln, NE 68509-4676<br>ne (402)471-2363    | DEPARTMENT OF N<br>WATER WEL  | L REGISTRATION   | DURCES   |  |
|                     |   | FOR DEPART  | MENT USE ONLY  |  |  |
| Reg<br>Ow           | gistration Date <u>6-6</u><br>mer Code No. 73           | 232 Receipt No. R   | 18/230Re   | gistration No. 1-139   | 1034<br>Thates                         |
| L.                  | Well Owner's First Nam<br>Company Name                  | •   | Name Turn 6  | u17  |  |
| с.                  | Correspondent Name<br>Address                           | alten   | Altention  | 4  | 72 - 3460                              |
|                     | City Chadcon  | State M.E.  | Zip 69331  | Telephone 308 4  |  |
| <b>à.</b>           | Contractor's License No                                 |   | Pee  | Ishek  |  |
| <b>b</b> .          | Commetter's Email Addr<br>Drilling Firm Name            |   | Service  |  |  |
|                     | Address   |   |  |  |  |
|                     | City Scottsbl   |   | Zip  | Telephone  |  |
| а.<br>Ъ.            | Well location <u>NE</u> % o                             | The $\underline{NE}$ % of Section 28, Tow   | nship 29 North, Ran  | ₽5 <u>0</u> ₽□w⊠ Daw   | County.                                |
| Ç.                  | The well is _ ( POO                                     | feet from the (NXS) set   | tion line and 60   | 2 feet from the (EK)W  | ) section line                         |
|                     | or Latitude Degree<br>Longitude Degree                  | Minute Second   | Chier And and a state of the st | (cacle on  | * <i>;</i>                             |
|                     | Block   | vision, if applicable   | Lot  | 1. 28 NW 4 50  | tor saled                              |
| e.<br>E             | Location of water use, if<br>If for irrigation the land | applicable (give legal descriptions<br>to be irrigated is                                   | ) <u>NE /~/ SC</u>   | 7. KA 141019 50  | <u>Gi er j</u> er jo                   |
| 8                   | Well reference letter(s),                               | if applicable   | HHSS PWSID   | 1999200  |  |
| Pen                 | mits  |   | Surface Water Permit   |  |  |
|                     | nagement Area Permit No<br>Ahermal Permit Number        |   | Industrial Permit Num<br>Transfer Out-Of-State   | Permit Number  | ······································ |
| Mus                 | nicipal Permit Number                                   |   | Conduct Permit Numb  | cr   |  |
| HH                  | 11 Spacing Permit Number<br>SS                          | ۲ <u></u>   | Other Permit Number ,<br>NDEQ  | ······································                                     |  |
|                     | Livestock   | e) Aquaculture<br>ound Heat Exchanger Group<br>Monitoring Observat<br>hour quint Recovery C | ion 🛄 Public Wi  | Dewatering (over<br>np) Entropy (with spacing (*******))<br>(softwate wet) | 90 days)                               |
|                     | lls in a Series.  |   |  |  | <u></u>                                |
|                     | Is this well a part of a so<br>If one or more of the we | nics? Yes go to part b of this :<br>its in the series is currently register                 |  | part 7 of this application<br>ation number                                 |  |
| c.                  | How many wells in the                                   | series are you registering at this tin  |  |  |  |
| -                   | placement and abandoned                                 |   |  |  |  |
| a.<br>b.            | Is this well a replacement<br>Registration number of    | nt well? Ves No   | not registered, date abas  | woned well was constructed o   | n_la_lo_                               |
| C.                  | Replacement well is                                     | feet from abandoned well.   | d. Abandoned well  | last operated (nd /ot  |  |
| e.<br>8-            | Original well pump colu<br>Location of water use of     |   | f. Completion of o   | riginal well abandonment on o  | a <u>'(t_'(s)</u>                      |
| e.                  |   | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|                     |   | · .   |  |  |  |
|                     |   |   |  |  |  |
|                     |   |   |  |  |  |
|                     |   |   |  |  |  |
|                     |   |   |  |  |  |
|                     |   |   |  |  |  |

### Water Well 782 (G134034) Water Well Registration

|                                     |                               | ************************************** |                        |                      |  |   | 1-139           | 2058       |
|-------------------------------------|-------------------------------|--|------------------------|----------------------|--|---|-----------------|------------|
| 8. Pump in                          |                               | wali la andre je<br>at this time       | <u> </u>               | Jo                   |  |   |                 | *          |
| a. 19 pa<br>fe matem                | inctalled by w                | at any unit                            |                        |                      | s nump installed                       | by contractor in                                    | section 29      | Yes No     |
| If num                              | installed by m                | ump installer, pie                     | ase fill out lice      | nse number b         | elow                                   | - Martin Birthes 118                                |                 |            |
| b, Pun                              | p Installer's L               | icense No                              | Pu                     | mp Installer's       | Name                                   |   |                 |            |
|                                     |                               | imail Address                          |                        |                      |  |   |                 |            |
|                                     |                               | irm Name                               |                        |                      |  |   |                 |            |
|                                     | -                             | imn Address                            | ·                      | *** %                | ····                                   | - 4 - 4 - 4   |                 |            |
|                                     | n Installer's F               | Tirm Email Addr                        | State                  | Zip                  |  | 1010  | phone           | :          |
| e. Pom                              | ping rate                     |  | a per minute           | M                    | asured                                 | Estimated   |                 |            |
| d. Dro                              | p pipe diamet                 | er                                     | inches                 | e                    | . Length of dr                         | op pipe   | foe             | <b>t</b> - |
| f. Pug                              | ping equipme                  | at installed m                         | ha los                 |                      | Pump Brand                             |   |                 |            |
|                                     |                               | ned and construc                       | ted to pump les        | is than 50 gpm       | Yes                                    | No  |                 | -          |
|                                     | struction Infor               |  |                        |                      | 1 Aug. 1                               | r level _20   |                 |            |
|                                     | well depth                    |  | loet.<br>feet          |                      | A Mall Court                           | motion hange  |                 | a les      |
| e. Punq<br>e. Well                  | ang water iev<br>Construction | completed (mask)                       |                        | 1,1960               | f. Bore hole d                         | liameter in inches                                  | Top I           | Sottorn    |
| g. Casir                            | g and Screen                  | Joints are Weld                        | ed Głu                 | cd E                 | Threaded                               | ]Othe   | f               |            |
| 10 Well C                           |                               | ing & Commet -                         | determ                 | c ( remension of the | wild be in Inch-                       | s to three decimal                                  | nlaces          | -          |
|                                     | SERCEON (Cas                  | b                                      | c c                    | d d                  | C C                                    | f   | gales g         | h          |
|                                     | ment                          | Casing or                              | Inside                 | Outside              | Wall                                   | Screen Slot   | Type of         | Trade Name |
|                                     | in Feet                       | Screen                                 | Diameter               | Diameter             | Thickness                              | Size  | Material        |            |
| From                                | To                            | 1                                      |                        |                      |  |   |                 | ļ          |
|                                     |                               | ·                                      |                        |                      | · · · · · · · · · · · · · · · · · · ·  |   | t               |            |
|                                     |                               | 1 .                                    | <u> </u> .             |                      |  |   | 1               | 1 .        |
| <b>.</b>                            |                               | 1                                      |                        |                      | ************************************** |   | <b> </b>        | ·····      |
| anaan aharin, aaga tooparinga soopa |                               | 1                                      | 1                      | 1                    |  |   | t               |            |
|                                     | Ł                             | . <u>I</u>                             | <u>.</u>               | 1                    |  |   | A               |            |
| 11. Grout and                       | Gravel Pack                   |  |                        |                      |  |   |                 | * :        |
| Plac                                | ement Depth                   | in Feet                                |                        | out or               |  | Mater   | ial Description |            |
| From                                | T                             | ¢                                      | Grav                   | vel Pack             |  |   |                 | :          |
|                                     |                               | •                                      |                        |                      |  |   |                 |            |
|                                     | •                             |  |                        |                      |  |   |                 |            |
|                                     |                               |  |                        |                      |  |   |                 |            |
|                                     |                               | 1. s.                                  |                        |                      |  |   |                 |            |
| 10 00                               |                               |  | /                      | · ·····              | <u> </u>                               |   |                 |            |
|                                     | logic Material                |  |                        | ŀ                    |  |   |                 |            |
| Depth in Feet<br>From T             | n                             | Description                            |                        |                      | Dopth in Fee<br>From                   | t Do<br>To  | scription       |            |
| - and at 1                          | -                             |  |                        | 1                    |  |   |                 | :          |
|                                     |                               | WILLING (1997)                         | <b>19. 1.100</b>       | <b></b>              |  |   |                 | •          |
|                                     |                               |  |                        |                      |  |   |                 |            |
|                                     |                               |  |                        |                      |  |   |                 |            |
|                                     |                               |  |                        |                      | ·                                      |   |                 |            |
|                                     |                               |  | (Add                   | itional sheets       | may be submitte                        | xd)   |                 |            |
|                                     |                               | ·                                      | f* -rise               |                      |  |   |                 |            |
|                                     |                               |  | hwitted on this        | registration, a      | and to the best o                      | f my knowledge i                                    | t is true.      | -          |
| 13. I am fz                         | rräliar with th               | e information su                       | ORIGINAL OF ALL STREET |                      | 1                                      | 0 00  |                 | 5/8/10     |
| 13. 1 em fr                         | måliar with th                | e information su                       |                        | AR.                  | 1. K. T                                | . V   |                 |            |
|                                     |                               |  |                        | <u>_ xChi</u>        |  | entry.  |                 | 2/3//0     |
|                                     |                               | e information su<br>or's Signature     | Date                   | x Chu                | Well                                   | CAN Xr2C 9<br>Owner's Signatu<br>or is unknown or 1 |                 | Date       |
|                                     |                               |  |                        | <u>XChu</u>          | Well                                   | CANTER'S Signatu<br>or is unknown or l              |                 | Date       |
|                                     |                               |  |                        | <u>xCh</u> u         | Well                                   |   |                 | Date       |

| partment of Natural Resources<br>) Box 94676<br>ncoln, NE 68509-4676<br>none (402)471-2363   | DEPARTMENT   | TE OF NEBRASKA<br>C OF NATURAL RESC<br>R well registration   | DURCES<br>Picase indicate NA for itema  | May 2017<br>Delli Ferm 145  |
|--|--|--|---|---|
|  | FOR D  | EPARTMENT USE ONLY   |   |   |
| te Filed 9 2/07  | Owner Code No. 43  | 7 206 Registrati   | on No. 6-50312  |   |
| 122018 .1923   | 28 . WWHF(3  | Roceipt <u>R23250</u>  | UNW   | NRD   |
| Well   |  |  |   |   |
| a. Well Owner's First Name   | BRUCE  | Last Name TROES  | TER   |   |
| OR Company Name  |  |  |   |   |
| b. Attention Name  |  | · .  |   |   |
| c. Address 3143 RIVER RO   | DAD  |  |   |   |
| City MARSLAND  | Stet   | e NE Zip 69354   | Telephone   | - •   |
| A. Contractor's License No   | 39035 Contractor's   | Name_LEONARD CHUBB   | τ. Α φές τ. "   | ° , • ,   |
| Contractor's Email Addre   | Policy and a second sec |  | annan an in in an an an an an an an an an an an an an   |   |
| b. Drilling Firm Name CHU  |  | <u>, (</u> )   | an an an an an an an an an an an an an a  | and the second second second second second second second second second second second second second second secon |
| Address 3632 HWY. 20   |  | 1.275 ·  |   |   |
| City CRAWFORD  |  | c_NBZip_07339  | Telephone_308.665.1418  |   |
| Drilling Firm's Email Ad   |  |  |   | -   |
| <ul> <li>Well location <u>NE</u> 2 of</li> <li>Natural Resources District</li> </ul>   |  |  | 50 E□WD, DAWES  | County.   |
|  |  |  | feet from the (EW) section li   |   |
| OR Latitude Degree 42  |  |  | Location of well for a  | pit in .  |
| <ol> <li>Street address and subdivide</li> </ol>   | ision, if applicable   |  | the location of the pun   | n a   |
| <ol> <li>Street address and subdiv.<br/>Block</li> </ol>   | ision, if applicable   | Lat  | the location of the pun   | n a   |
| Street address and subdiv<br>Block      Location of water use (given block)  | ision, il applicable<br>ve legal descriptions) <u>SA</u>   | LotLot   | the location of the pun   | 9 <b>0</b>  |
| Street address and subdiv.     Block      Location of water use (gi     If for irrigation, the land t  | ision, il applicable<br>ve legal descriptions) <u>SA</u><br>to be irrigated is   | LotLotLot<br>ME AS 3AacresLoc  | the location of the pun   | wells   |
| <ol> <li>Street address and subdiv<br/>Block</li> <li>Location of water use (gi</li> <li>If for irrigation, the land t</li> <li>Well reference letter(s), if</li> <li>Permits</li> </ol>                                     | ision, if applicable   | Lot<br>ME AS 3A Loc<br>HHSS PWSID<br>Surface Water Permit N  | the location of the pun<br>ation of water use is required on all<br>umber   | wells   |
| <ol> <li>Street address and subdiv<br/>Block</li> <li>Location of water use (gi</li> <li>If for irrigation, the land t</li> <li>Well reference letter(s), if</li> <li>Wennits</li> <li>Management Area Permit Nur</li> </ol> | ision, if applicable   | Lot<br>ME AS 3A Loc<br>HHSS PWSID<br>Surface Water Permit N  | the location of the pun<br>ation of water use is required on all<br>umber   | wells   |
| <ol> <li>Street address and subdiv<br/>Block</li></ol>   | ision, if applicable<br>ve legal descriptions) <u>SA</u><br>to be irrigated is<br>f applicable<br>nber   | Lot<br>ME AS 3A acres. Loc<br>HHSS PWSID<br>Surface Water Permit N<br>Industrial Permit Number<br>Transfer Out-OF-State P<br>Conduct Permit Number | the location of the pun<br>ation of water use is required on all<br>umber   | wells   |
| <ul> <li>d. Street address and subdiv<br/>Block</li></ul>  | ision, if applicable<br>ve legal descriptions) <u>SA</u><br>to be irrigated is<br>f applicable<br>nber   | Lot<br>ME AS 3A Loc<br>HHSS PWSID<br>Surface Water Permit Number<br>Transfer Out-Of-State P<br>Conduct Permit Number<br>Other Permit Number        | the location of the pun<br>ation of water use is required on all<br>umber   | wells   |
| d. Street address and subdiv<br>Block  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>   | wells   |
|  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>Dewatering (over 90 days)<br>Diffrigation<br>Public Water Supply (missing (660)<br>er other)<br>(colour of<br>wart 7 of this application | wells   |
|  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>Dewatering (over 90 days)<br>Diffrigation<br>Public Water Supply (missing (660)<br>er other)<br>(colour of<br>wart 7 of this application | wells   |
|  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>Dewatering (over 90 days)<br>Diffrigation<br>Public Water Supply (missing (660)<br>er other)<br>(colour of<br>wart 7 of this application | wells   |
|  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>Dewatering (over 90 days)<br>Diffrigation<br>Public Water Supply (missing (660)<br>er other)<br>(colour of<br>wart 7 of this application | wells   |
|  | ision, if applicable   | Lot  | the location of the pun<br>ation of water use is required on all<br>umber<br>ermit Number<br>Dewatering (over 90 days)<br>Diffrigation<br>Public Water Supply (missing (660)<br>er other)<br>(colour of<br>wart 7 of this application | wells   |

Water Well 783 (G150312) Water Well Registration

## Water Well 783 (G150312) Water Well Registration

| a.<br>b.  | Is this well a rep  | placement well?  |   | o go to part 8  | of this applicat  | tion   |   |   |
|---|---|--|---|---|---|--|---|---|
|   | Original well la  | moer of original w<br>ist operated <sub>(a)</sub>  | -/wa/wa   | u n   | A registered, da<br>Replacement w   | ell is fe  | s constructed<br>et from origin   | w <u>/w_/w</u><br>al well.  |
| с.  | 2   | ier use of original v  | weli  |   |   |  |   |   |
|   | se Selêt One:   | •  | • ×   |   |   |  |   |   |
| £1.[<br>2.[   |   |  |   |   |   | n 180 days á Acr su  | ch constructio  | n of the replacement  |
| 3.[   | davs after s<br>b. 🗌 Mon  | such construction on<br>itoring c. Observed.   | f the replacem<br>ervation  | ant water well  | . It will be used   | I to pump 50 gallor<br>d for one of the fol<br>uni resources distr   | kowing: a.  | Livestock   |
|   |   | -  | •   | , ,   | * *   |  |   | mor to registration)  |
|   | NRD signs   |  |   |   |   | ¢  | OR  |   |
| 4.  |   | ion/Modification (   | Certification fo  | nn is submitte  | d by landowner  |  | a 4   | <b>a</b> :  |
| b.  |   | s License No<br>s Email Address  |   |   | s Name  |  |   |   |
| d.<br>f.<br>9. Well<br>a. 1<br>d. V<br>f. 1   | Pump Installer <sup>1</sup><br>Pump Installer <sup>1</sup><br>City<br>Pumping rate<br>Drop pipe diann<br>Pumping equipa<br>This well is desi<br>Construction Inf<br>Construction Inf<br>Construction Inf<br>Construction Inf<br>Construction Inf<br>Well Construction<br>Wells drilled price<br>noratoriums requi   | 70<br>m Began (m) 5<br>or to stays or<br>uire NRD signatum<br>ter in inches Top 9  | State<br>ress<br>inches<br>/ia<br>red to pump le<br>feet. b. Sta<br>/( $\phi$ , 6 / (<br>NRD sig<br>e (Si<br>Bottom | M<br>ss than 50 gpr<br>tic water leve<br><u>,, 08</u><br>mature<br>gnature can b  | easured<br>Length of d<br>Pump Bran<br>N Yes<br>1 24<br>e. Well Cons<br>e submitted on 1  | Irop pipe<br>d<br>No (8H is requi<br>feet. c. Purs<br>truction Complete<br>NRD Approval for  | fic<br>red on ALL v<br>uping water lev<br>d (et 5 //j<br>Date<br>m to DNR prio                        | rel 24 foet   |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. I<br>8. (   | Pump Installer's<br>Pump Installer's<br>City<br>Pumping rate<br>Drop pipe diarm<br>Pumping equipe<br>This well is desi<br>Construction Ial<br>Fotal well depth<br>Well Construction<br>Vells drilled prio<br>moratoriums requestions and Scree-<br>Sore hole diameters<br>Casing and Scree-                         | s Firm Addresss<br>s Firm Email Addr<br>gallo<br>ctcr<br>igned and construct<br>formation.<br>70<br>on Began (m)S<br>or to stays or<br>uite NRD signature<br>ter in inches Top 9<br>en Joints are Weld   |   | M<br>as than 50 gpr<br>tic water leve<br><u>b 08</u><br>mature_<br>gnature can b<br>9<br>ed   | easured<br>b. Length of d<br>g. Pump Bran<br>m 24<br>e. Yes<br>e. Well Cons<br>e submitted on 1<br>Threaded   | Estimated<br>http://www.estimated<br>http://www.estimated<br>logical completence<br>NRD Approval for<br>Other  | red on ALL v<br>red on ALL v<br>uping water lev<br>d (ret 5 //)<br>Date<br>m to DNR price             | rel 24 foet   |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. I<br>8. (   | Pump Installer's<br>Pump Installer's<br>City<br>Pumping rate<br>Drop pipe diarm<br>Pumping equipe<br>This well is desi<br>Construction Ial<br>Fotal well depth<br>Well Construction<br>Vells drilled prio<br>moratoriums requestions and Scree-<br>Sore hole diameters<br>Casing and Scree-                         | s Firm Addresss<br>s Firm Email Addr<br>gallo<br>ctcr<br>igned and construct<br>formation.<br>70<br>on Began (m)S<br>or to stays or<br>uite NRD signature<br>ter in inches Top 9<br>en Joints are Weld   | State   | M<br>as than 50 gpr<br>tic water leve<br><u>b 08</u><br>mature_<br>gnature can b<br>9<br>ed   | easured<br>b. Length of d<br>g. Pump Bran<br>m 24<br>e. Yes<br>e. Well Cons<br>e submitted on 1<br>Threaded   | Estimated<br>krop pipo<br>d<br>JNo (8H is requi<br>feet. c. Purs<br>truction Complete<br>NRD Approval for  | red on ALL v<br>red on ALL v<br>uping water lev<br>d (ret 5 //)<br>Date<br>m to DNR price             | tt<br>vells)<br>vel 24fcet<br>a 6/61_03fcet<br>or to registration)  |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. H<br>8. (0<br>10. Well                                | Pump Installer's<br>Pump Installer's<br>City<br>Pumping rate<br>Drop pipe diam<br>Pumping equips<br>This well is deai<br>Construction fail<br>Fotal well depth<br>Wells drilled prio<br>moratoriums requ<br>Bore hole diamet<br>Cassing and Screet<br>Construction (C<br>a<br>Placement                             | s Firm Addresss<br>s Firm Email Addresss<br>etcr   |   | M<br>as than 50 gpr<br>tic water leve<br><u>108</u><br>mature can b<br><u>9</u><br>cod <u>101</u><br>sourcements sh<br><u>4</u><br>Outside      | easured<br>b. Length of d<br>pump Bran<br>1 24<br>e. Well Cons<br>e submitted on 1<br>Threaded<br>ould be in inche<br>e<br>Wall                       | Estimated<br>http://www.standowski.com/<br>d   | red on ALL v<br>uping water lev<br>d (ret 5 //r)<br>Date<br>m to DNR prices<br>places<br>8<br>Type of | rel 24fcet<br>at 6_/61.03fcet<br>or to registration)                |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. I<br>g. ()<br>10. Well                                | Pump Installer's<br>Pump Installer's<br>City<br>Pumping rate<br>Drop pipe diam<br>Pumping equipor<br>This well is desi<br>Construction Ial<br>Fotal well depth<br>Well Construction<br>Vells drilled price<br>moratoriums requests<br>Sore hole diamed<br>Casing and Screet<br>Construction (C<br>a                 | s Firm Addresss<br>s Firm Email Addresss<br>etcr   | State   | M<br>as than 50 gpr<br>tic water leve<br><u>10 08</u><br>mature<br>gnature can b<br><u>9</u><br>lecd <u>1</u>                                   | easured<br>b. Length of d<br>c. Pump Bran<br>n 2 Yes<br>24<br>e. Well Cons<br>e submitted on 1<br>Threaded<br>Ould be in inches<br>e                  | Estimated<br>http://www.estimated<br>http://www.estimated<br>feet. c. Pura<br>feet. c. Pura<br>feet. c. Pura<br>feet. c. Pura<br>feet. c. Pura<br>for<br>truction Complete<br>NRD Approval for<br>Other<br>to three decimal<br>f | red on ALL v<br>red on ALL v<br>uping water lev<br>d (o) 5 /()<br>Date<br>m to DNR prio               | tt<br>vells)<br>vel 24fcet<br>a 6/61_03fcet<br>or to registration)  |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. I<br>g. ()<br>10. Well<br>10. Well                    | Pump Installer's<br>Pump Installer's<br>City<br>Pumping rate<br>Drop pipe diam<br>Pumping equiper<br>This well is desi<br>Construction Ial<br>Fotal well depth<br>Wells drilled prin<br>moratoriums requ<br>Bore hole diamet<br>Casing and Screet<br>Construction (C<br>8<br>Placement<br>cph in Feet               | s Firm Addresss<br>s Firm Email Addresss<br>etcr   |   | M<br>as than 50 gpr<br>tic water leve<br><u>108</u><br>mature can b<br><u>9</u><br>cod <u>101</u><br>sourcements sh<br><u>4</u><br>Outside      | easured<br>b. Length of d<br>pump Bran<br>1 24<br>e. Well Cons<br>e submitted on 1<br>Threaded<br>ould be in inche<br>e<br>Wall                       | Estimated<br>http://www.standowski.com/<br>d   | red on ALL v<br>uping water lev<br>d (ret 5 //r)<br>Date<br>m to DNR prices<br>places<br>8<br>Type of | tt<br>vells)<br>vel 24fcet<br>a 6/61_03fcet<br>or to registration)  |
| d.<br>f.<br>h.<br>9. Well<br>a. 1<br>d. V<br>f. 1<br>g. 0<br>10. Well<br>1<br>De<br>From<br>0 | Pump Installer's<br>Pump Installer's<br>City<br>Pump Installer's<br>Pumping rate<br>Drop pipe diarm<br>Pumping equipe<br>This well is desi<br>Construction Iad<br>Fotal well depth<br>Well Construction<br>Vells drilled price<br>moratoriums requestion<br>Construction (C<br>a<br>Placement<br>epth in Feet<br>To | s Firm Addresss<br>s Firm Email Addresss<br>nent installed (m)i<br>gned and construct<br>formation.<br>70<br>on Began (m)S<br>or to stays or<br>uire NRD signature<br>ter in inches Top 9<br>en Joints are Weld<br>Casing & Screen)- of<br>Casing or<br>Screen                               | State   | M<br>as than 50 gpr<br>tic water leve<br><u>108</u><br>mature<br>gnature can b<br>9<br>ecd<br>surements sh<br>d<br>Outside<br>Diameter          | easured<br>b. Length of d<br>Pump Bran<br>1 24<br>e. Well Cons<br>e submitted on 1<br>Threaded<br>ould be in inche<br>e<br>Wall<br>Thickness          | Estimated<br>http://www.standowski.com/<br>d   | red on ALL v<br>uping water lev<br>d (ret 5 //r)<br>Date<br>m to DNR prices<br>places<br>8<br>Type of | tt<br>vells)<br>vel 24fcet<br>a 6_/61.03fcet<br>or to registration) |
| d.<br>f.<br>h.<br>9. Well<br>d. V<br>f. H<br>8. ()<br>10. Well                                | Pump Installer's Pump Installer's Pump Installer's Pumping rate Drop pipe diam Pumping equipe This well is desi Construction Iad Fotal well depth Well Construction Vells drilled price moratoriums requested Sore hole diamet Casing and Screet Construction (C a Placement epth in Feet To 50                     | s Firm Addresss<br>s Firm Email Addr<br>gallo<br>ctcr<br>ment installed (m)<br>igned and construct<br>formation.<br>70<br>on Began (m)S<br>or to stays or<br>uice NRD signature<br>ter in inches Top 9<br>en Joints are Weld<br>Casing & Screen)- o<br><br>Casing or<br>Screen<br><br>CASING | State   | M<br>as than 50 gpr<br>tic water leve<br><u>108</u><br>mature<br>gnature can b<br>9<br>ecd<br>surements sh<br>d<br>Outside<br>Diameter<br>4.950 | easured<br>b. Length of d<br>Pump Bran<br>1 24<br>e. Well Cons<br>e submitted on 1<br>Threaded<br>ould be in inche<br>e<br>Wall<br>Thickness<br>0.248 | Estimated<br>http://www.stated<br>http://www.stated<br>feet. c. Pura<br>struction Complete<br>NRD Approval for<br>Other<br>Screen Slot<br>Size   | red on ALL v<br>uping water lev<br>d (ret 5 //r)<br>Date<br>m to DNR prices<br>places<br>8<br>Type of | tt<br>vells)<br>vel 24fcet<br>a.6/61.03fcet<br>or to registration)  |

## Water Well 783 (G150312) Water Well Registration

|  | el Pack                                    |  |  |              |
|--|--|--|--|--------------|
| Placement                              | Depth in Feet                              | Qrout or                               | Material Description   | -            |
| From )                                 | To   | Gravel Pack                            |  | deamaalantat |
| 0                                      | 5  | FILLDIRT                               | NATIVE SOIL  |              |
| 5                                      | 9  | GROUT                                  | BENTONITE CHIPS  |              |
| 9                                      | 70   | GRAVEL PAC                             |  |              |
| <u>,</u>                               |  |  |  |              |
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|  |  |  |  |              |
|  |  |  |  |              |
|  | Materials Logged                           |  |  |              |
| Depth in Foct                          | Description                                |  | Depth in Feet Description<br>From To   |              |
|  | URFACE SOIL                                |  |  |              |
| 25 8                                   | AND  |  |  |              |
| 5 70 V                                 | ATER BEARING S                             | ANDSTONE                               |  |              |
|  | ······                                     |  |  |              |
|  |  |  |  |              |
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|  |  |  | CALLER STREET, OFFICE AND A CALLER STREET,   |              |
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|  |  |  | examination. Manimumation management of a state of the st |              |
|  |  | ·                                      |  | ********     |
| From in sec 11&12 n                    | aust start at zero, sec 10 r               | not less than zero (Addition           | al sheets may be submitted)  |              |
| 13. I hereby certi                     | fy that the information                    | provided on this registratio           | n is true and accurate to the best of my knowledge.  |              |
|  | 1.0  |  |  |              |
| -                                      | ox-l.ll-                                   | 5-13-00-                               |  |              |
| Water Well C<br>(not rea               | contractor's Signature<br>quired for pits) | Date                                   | Well Owner's Signature Date<br>(If Contractor is unknown or Deceased or for pits)  | *****        |
|  | seament contains thru                      | • Dages.                               |  |              |
| Please note this de                    |  |  |  |              |
|  | 0, 11 & 12 are not rec                     | uired if registering a plt.            |  |              |
|  | 9, 11 & 12 are not rea                     | aired if registering a pit.            |  | ·            |
|  | 9, 11 & 12 are not rea                     | uired if registering a pit.            |  |              |
|  | 9, 11 & 12 are not rea                     | uired if registering a pit.            |  |              |
|  | 9, 11 & 12 are not rea                     | uired if registering a pit.            |  |              |

# Water Well 801 (G116402) Water Well Registration

|   | ST   | ATE OF NE  | BRASKA   | •  | Fee Pald   | \$60.0                            |  | and the second s |
|---|--|--|--|--|--|-----------------------------------|--|--|
| DEP   | ARTMEN   | IT OF NAT  | URAL RE  | SOURCE   | S HHSS Fe  | \$30.0                            |  |  |
|   | WATER  | WELL RE  |  |  |  |                                   | Get 8900                                   | 830  |
|   |  |  | ГОЯ  | DEPARTMEN  | TUSE ONLY  |                                   |  |  |
| NOL ID  | 10262508211  | 28 NOL Status  | Accepted   | Well Status  | A  | Registration C                    | oda G-11640                                |  |
| Owner ID  |  | NOL Date   | 07/10/2002   | Gall Up Code   |  | <b>Registration</b> D             | hate 07                                    | /10/2002   |
| Seq Num   | 141301   |  | ,  | Call Up Date   |  |                                   |  |  |
| ladbertau   | JUY 10. 2002   |  | CYTE A   |  |  |                                   |  | Poge   |
|   | and in room  | NP   |  |  | EBRASKA<br>ATER RES  |                                   | •  |  |
|   |  | DEL  |  |  | I ER RES<br>EGISTRA  |                                   | 3  |  |
|   | حمیت یا مرد <sup>رہ</sup><br>محتی ارماد مر <sup>و</sup> ہ  |  |  |  | IT USE ONLY  |                                   |  |  |
| NOL ID  | 102625082113   | 28 NOL Status  | Accepted   | Woll Status  | IA III   | Registration C                    | ode G-116402                               |  |
| Owner ID  |  | 1027 NOL Date  | 07/10/2002   | Gall Up Code   | ř  | Registration D                    |  | 10/2002  |
| Seq Num   | 141301   |  | 1  | Ca# Up Dato  |  | -                                 | <u></u>                                    |  |
| a Owner's N   |  | mike   |  |  | (groves  |                                   |  | · · · · ·  |
| Company i   |  |  |  |  |  |                                   |  |  |
| 2 Correspon   | dent Name  | [  |  | Alte   | nSon Namo  |                                   |  |  |
| Address   |  | 1302 mississippi st  |  |  |  |                                   |  |  |
| City: a   | lonce  | ]  | State NE   | j Zip Code   | 69301 ·  |                                   | Phone                                      | ].[  |
| City: Cr  | States of the local division of the local di |  | Slate NE   | Zip Code   | 69339  |                                   | Phone 308                                  | · 665-1418   |
| · · · · ·   | owford<br>mas Email Adda   |  | Slate NE   | Zip Code   | 69339  |                                   |  |  |
| Drilling A  | tion SWM   | 853 [] ol Si   | ection 19  | Zip Code<br>Township 30                                  |  | s <u>so</u> jv                    | Phone 308                                  |  |
| Drilling Fi<br>a Well Loca<br>Natural Re  | nns Email Adde<br>tion <u>SWM</u><br>source District   | v joisi<br>Upper Niobro  | ection 19  | Township 30  | North, Range   |                                   |  | es] ©  |
| Drilling Fi<br>va Well Loca<br>Natural Ra<br>C The well is  | ms Email Adda<br>tion <u>Sww</u><br>source District  | v ol Si<br>V ol Si<br>Upper Niobro<br>I teat from the  | cetion [19]<br>(0-White<br>(N/S) sectio  | Township 30  | North, Range   | s <u>[SO ][v</u><br>leet from the |  | es] ©  |
| Drilling Fi<br>a Well Loca<br>b Natural Ra<br>c The well is<br>GPS: or L  | nns Email Adda<br>tion <u>Swim</u><br>source District<br>attiude: 42   | v joisi<br>Upper Niobro  | iction [19]<br>ict-White<br>[(N/S) section<br>[Longitude   | Township 30  | North, Range   | icel from the                     |  | es] ©  |
| Drilling A<br>a Well Loca<br>b Natural Re<br>c The well Is<br>GPS: or L<br>d Street add   | nns Email Adda<br>tion <u>Swim</u><br>source District<br>stilude: 42<br>noss or block, to  | v oi Si<br>Upper Niobro<br>I teat from the<br>33' 49.00  | cetion [19]<br>ic-White<br>[ (N/S) sectio<br>[ Longitude<br>epplicable:                              | Township <u>30</u><br>In Bae and<br>: <u>-103 14*241</u> | North, Range   | icel from the                     | / [(E/W), [Dow<br>](E/W) secto             | es Co  |
| Drilling Fi<br>a. Well Loca<br>b. Natural Re<br>c. The well is<br>GPS: or I<br>d. Street add<br>e. Location o<br>i If for Inigal  | Ition SAVAN<br>source District<br>attiude: 42<br>noss or block, 10<br>8 water use, 11 A<br>ion, the land to  | ess discussion in the second s | cetion [19]<br>ic-White<br>[ (N/S) sectio<br>[ Longitude<br>epplicable:                              | Township <u>30</u><br>In Bae and<br>: <u>-103 14*241</u> | North, Range   | icel from the                     | / [(E/W), [Dow<br>](E/W) secto             | es Co  |
| Drilling Fi<br>Drilling Fi<br>A Well Loca<br>Natural Re<br>The well is<br>GPS: or I<br>GPS: or | tion <u>SWM</u><br>source District<br>attiude: <u>42</u><br>noss or block, lo<br>I water use, il a   | ess discussion in the second s | cetion [19]<br>ic-White<br>[ (N/S) sectio<br>[ Longitude<br>epplicable:                              | Township <u>30</u><br>In Bae and<br>: <u>-103 14*241</u> | North, Range   | icel from the                     | / [(E/W), [Dow<br>](E/W) secto             | es Co  |
| Drilling Fi<br>ba Weil Loca<br>b Natural Re<br>c The well is<br>GPS: or L<br>d Street edd<br>e Location o<br>l II for Inigal<br>g Weil Role   | Ition SAVAN<br>source District<br>attiude: 42<br>noss or block, 10<br>8 water use, 11 A<br>ion, the land to  | v di Si<br><u>Upper Nicbro</u><br>leat from the<br>33' 49:00"<br>t and subdivision, ti<br>pplicable (give legal<br>be inigated ts<br>i applicable  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>m line and<br>: [-103 14*241<br>[         | Norith, Range<br>[]<br>07]<br>Irrw1/4s19730:50   | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | es Co  |
| Drilling Fi<br>brilling Fi<br>brilling Fi<br>brilling Fi<br>brilling Fi<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>construction<br>constructi   | Inter Email Adde<br>tion <u>Switch</u><br>source District<br>attitude: <u>42</u><br>ross or block, lo<br>f water use, it and<br>ion, the land to b<br>grace latter(b), 4   | ess discrete set of th | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>m line and<br>: [-103 14*241<br>[         | North, Range   | icel from the                     | / [(E/W), [Dow<br>](E/W) secto             | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
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| Drilling Fi<br>ba Well Loca<br>b Natural Re<br>c The well is<br>GPS: or L<br>d Street add<br>b Location o<br>l II for Inigal<br>g Well Role<br>Permits<br>Marjagar  | Intes Email Adda<br>tion <u>Swyn</u><br>source District<br>atitude: <u>42</u><br>noss or block, lo<br>5 water use, il a<br>ion, the land to l<br>ence Ister(s), 4<br>nont Area Perm<br>Vater   | ess discrete set of th | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>m line and<br>: [-103 14*241<br>[         | North, Flange<br>North, Flange<br>10°<br>10°<br>10°<br>10°<br>10°<br>10°<br>10°<br>10° | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>A Weil Loca<br>Natural Re<br>The well is<br>GPS: or I<br>GPS: or I<br>Street add<br>Location o<br>I If for lefgal<br>Well Rolen<br>Permits<br>Manager<br>Suitace V<br>Gatherer<br>Industrie  | Inter Email Adda<br>Source District<br>astitude: 42<br>ross or block, to<br>5 water use, it a<br>ion, the land to<br>serve laster(s), 4<br>ment Area Perm<br>Vater<br>sal  | v of Sr<br>Upper Nicbro<br>teat from the<br>33 49.00°<br>t and subdivision, if<br>pplicable (give tegat<br>be inigated to<br>rapplicable<br>Permits )  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>m line and<br>: [-103 14*241<br>[         | Norih, Flange  | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>A Weil Loca<br>Natural Re<br>The well is<br>GPS: or I<br>GPS: or I<br>Street add<br>Location o<br>I If for lefgal<br>Well Rolen<br>Permits<br>Manager<br>Suitace V<br>Gatherer<br>Industrie  | Intel Email Adde<br>Source District<br>Source District<br>Attinde: 42<br>ross or block, Io<br>S water use, II a<br>son, the land to<br>serice Ister(s), 4<br>ment Area Parm<br>Vater<br>Ist  | v of Sr<br>Upper Nicbro<br>teat from the<br>33 49.00°<br>t and subdivision, if<br>pplicable (give tegat<br>be inigated to<br>rapplicable<br>Permits )  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>m line and<br>: [-103 14*241<br>[         | North, Flange<br>North, Flange<br>10°<br>10°<br>10°<br>10°<br>10°<br>10°<br>10°<br>10° | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>A Well Loca<br>Natural Ra<br>The well is<br>GPS: or L<br>GPS:  | Intel Email Adde<br>Source District<br>Source District<br>Attraction (42)<br>ross or block, Io<br>Swatar use, II A<br>ion, the land to<br>serice Ister(s), 4<br>ment Area Parm<br>Vater<br>tal<br>Transfer Notice  | v of Sr<br>Upper Nicbro<br>teat from the<br>33 49.00°<br>t and subdivision, if<br>pplicable (give tegat<br>be inigated to<br>rapplicable<br>Permits )  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>In Ene and<br>: [-103 14*240<br>[         | Norih, Flange  | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>brilling  | Ittes Email Adde<br>tion <u>Swwn</u><br>source District<br>attitude: <u>42</u><br>ross or block, to<br>f water use, if a<br>ion, the land to<br>f water use, if a<br>neat Area Perm<br>Vater<br>tal<br>Transfer Notice   | PSS V O O O O O O O O O O O O O O O O O O  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>In Ene and<br>: [-103 14*240<br>[         | Norih, Renge   | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>A Well Loca<br>Natural Ra<br>The well is<br>GPS: or L<br>GPS:  | Ittes Email Adde<br>tion <u>Swwn</u><br>source District<br>attitude: <u>42</u><br>ross or block, to<br>f water use, if a<br>ion, the land to<br>f water use, if a<br>neat Area Perm<br>Vater<br>tal<br>Transfer Notice   | PSS V O O O O O O O O O O O O O O O O O O  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>In Ene and<br>: [-103 14*240<br>[         | Norih, Renge   | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>brilling  | Ittes Email Adde<br>tion <u>Swwn</u><br>source District<br>attitude: <u>42</u><br>ross or block, to<br>f water use, if a<br>ion, the land to<br>f water use, if a<br>neat Area Perm<br>Vater<br>tal<br>Transfer Notice   | PSS V O O O O O O O O O O O O O O O O O O  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>In Ene and<br>: [-103 14*240<br>[         | Norih, Renge   | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |
| Drilling Fi<br>brilling  | Ittes Email Adde<br>tion <u>Swwn</u><br>source District<br>attitude: <u>42</u><br>ross or block, to<br>f water use, if a<br>ion, the land to<br>f water use, if a<br>neat Area Perm<br>Vater<br>tal<br>Transfer Notice   | PSS V O O O O O O O O O O O O O O O O O O  | cetton 19<br>ro-White<br>(N/S) section<br>(N/S) section<br>Longitude<br>eppliesble:<br>descriptions) | Township 30<br>In Ene and<br>: [-103 14*240<br>[         | Norih, Renge   | icel from the                     | / [(EAW), [Daw<br>](EAW) secto<br>Block No | 20 [] 0<br>[]<br>[] 10<br>[] 10<br>[]  |

Water Well 801 (G116402) Water Well Registration

| Wednesday, July 10, 2002   | STATE                                 | <b>OF NEBRASKA</b>  |   | Page 2 of 3   |
|--|---------------------------------------|---|---|---------------|
|  |                                       | OF WATER RESOU  | RCES  |               |
| · · · ·  |                                       | ELL REGISTRATIO   |   |               |
|  |                                       | ARTMENT USE ONLY  |   |               |
| NOL ID 10262508211328 N  | OL Status: Accepted W                 | a Status 🖌 Regis  | tration Code G-110402                             | Entre I       |
| Owner ID 61027 N   | OL Date 07/10/2002 Ce                 | It Up Code Regis  | valion Date 07/10/                                | 2002          |
| Seq Num 14/301   | Ca                                    | ll Up Dato  |   |               |
| a is this woil a part of a series?                                 | 0                                     |   |   |               |
| b if one or more of the wells in the s                             |                                       | the web registration number   |   |               |
| c How many wells in the series are y                               | ou registering at this time?          |   |   |               |
| 7 Replacement and abandoned well                                   | information Replac                    | emani Number  |   |               |
| a is this well a replacement wall?                                 | Ω                                     | b Registration number of<br>If not registered, date abar                              | standoned wall and standoned wall was constructed |               |
| c Applacement well is  | tool from obandoned woll.             | d Abandoned well last op  | bolan   | ]             |
| e Original well pump column size:                                  | inches.                               | I Completion of original w  | ell abandonmant on                                | ]             |
| g Location of water use of abandona                                | liew b                                |   |   |               |
| 8 Pump Information   | · · · · · · · · · · · · · · · · · · · |   |   |               |
| a is pump installed at this time?                                  | 8                                     |   |   |               |
| is pump installed by well owner in                                 | section 17                            | Is pump installed by contrac  | tor in section 27                                 |               |
| Else installed by pump installer.<br>b HHSS insteller's Ucense ID. |                                       |   |   |               |
| Pump Installer's Ucenso No.  |                                       | ller's Name   |   |               |
| Pump Installer's Email Address                                     |                                       |   |   | -             |
| Pump Insister's Firm Name  |                                       |   |   |               |
| Pump Installer's Firm Address                                      |                                       |   | AND AND AND AND AND AND AND AND AND AND           |               |
| City:  | State Z                               | Coda 40000  | Phone   | T T           |
| Pump Installer's Firm Ernall Addre                                 | 53                                    |   |   | <u>/</u> /    |
| a Pumping Rate 15 gr   | lions per minute                      | E measured or   | estimated   |               |
| d Drop pipe diamater   | 1.00 inches                           | o Longth of drop pipe   | . (es)  |               |
| f Pumping equipment installed                                      | 07 / 06 / 2002                        | g Pump Brand demos  | ter   | ·····         |
| n This well will be used to pump less                              | than 50 gpm 🔗                         |   |   |               |
| 9 Wall Construction Information                                    |                                       |   |   |               |
| a Total well depth 220.  | leot.                                 | · •   | 70 . feet.  |               |
| c Pumping Water Level 208.   |                                       | <ul> <li>d Well construction began:</li> <li>1 Bore hole clameter in loche</li> </ul> | 5. Top 9 .   80                                   | 20m 9.        |
| e Well construction completed:<br>g Casing and Screen Joints G     | 07 06 2002                            |   |   |               |
| g Casing and Screen Joints [G                                      | lued Other                            |   |   | J             |
| 10 Well Construction (Casing and Ser                               | inne                                  |   |   |               |
| From Depth   To Depth   Inst                                       |                                       | Thickness Sceen Slot  | Sizi Material Tra                                 | de name   Cas |
| 6 160<br>160 000   | 4,454 4.950                           |   | pve rober   |               |
| 160 220  | 4.454 4.950                           | .496 .  | 016 pvc rober                                     | 13            |
|  |                                       | <b></b>   |   |               |
|  |                                       | · · ·   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |
|  |                                       |   |   |               |

Water Well 801 (G116402) Water Well Registration

| Owner ID Seq Num 11 Well Construct          | 61027)<br>61027)<br>61027) | DEPARTM<br>WATE<br>WATE<br>OL Status<br>IQL Date<br>IQL Date           | R WELL RE<br>DR DEPARTMEN<br>Well Status<br>2 Cell Up Code<br>Cell Up Date | EBRASKA<br>TER RESOURCES<br>GISTRATION<br>TUSE ONLY<br>A Registration Cod<br>Registration Date |        | Page 3 of<br>Pint<br>Add |
|---|----------------------------|--|--|--|--------|--------------------------|
| 12 Goolog Matadal                           |                            | To Deptin )<br>3 surface s:<br>12 white roci<br>60 sand<br>70 sandsion | ,<br>with hard ledge:<br>ring sandslone w<br>ring sand                     |  |        |                          |
| NO Return to NOL<br>Duplicate<br>NOTIFY NOL |                            |  | Return to NOL  | ,  | · · ·  | <b>-</b>                 |
|   | ÷                          |  | •  |  |        | -                        |
|   |                            |  |  |  | ·<br>· |                          |

| <b>%</b> .   | :  | BEALTER   | F OF LINNASKA<br>OF VATER RESOURCES<br>Tell Begisteation                                     |  | detabet<br>DR1 Fer |
|--|--|---|--|--|--------------------|
|  |  | AND CALLED THE PARTY POLICIES.  | ATTERTAL USE CALL  |  |                    |
| R  | eglectration Date 4-5  | 5-199 Bequeste No. 115  | 1825   | 20011011010 10. <u>6-10010</u><br>rell).ilmana-White   | 26                 |
| 14   | 11 Opper ARLSE + BLTIT FB<br>dress 1668 DODGE 20.<br>Ly BLKINGFORD   | 91663193  | State II   | Telephone Junker (* 388 (* 487-33)<br>Lip Caže 69368 +   | t                  |
| 79   | Liling fire CHUBB MATCH D<br>Green 11 Nest Ash Creek D<br>ty Crewford  |   | ŝtate N  | Telephone Sunder ( 300 ) 663-143<br>Contractor's License No. 39435<br>Tip Coda 69339 >   | 1                  |
| 3. 24  | rait Tosber(s)   |   |  |  |                    |
| 0<br>  | ceaaf Teter Source Etat I<br>Spérration Poblic Tat<br>ther   |   | ars)Dieszia<br>lojectionI<br>B]Pablic Vater  | r — Gentlerini — Gentle i<br>rrigation II Livestock — Koni<br>Supply (vithout spacing) — Lecon   | itoring<br>ity Lea |
| 0<br>  | ceauf Veter Source Heat I<br>brérvation foblic Tat<br>ther<br>eplacement and abaudoned<br>. Is this well a replacet<br>. Replacement well is<br>. Original well pump colo  | PupIbdustrial<br>ter Sopply (with spacing 66-63<br>vell information.<br>mest well?Tep 11 Ho<br>feet from abandoned well.  | BjIBjectionI<br>BjFablic Water<br>B. Registration a<br>D. Abandamed veli<br>F. Completion of | erigation II LivestockKou<br>Supply (vichost spacing)Lecor<br>supply of abaselosed wells   | toring<br>try to   |
| -9<br>5, 2<br>8<br>3<br>5<br>5<br>5<br>1<br>1<br>5<br>1<br>1<br>5<br>1                                   | read Veter Source Heat I<br>briveration Poblic Tat<br>ther<br>eplacement and abundoned<br>. Is this well a replacet<br>. Beplacement well is<br>. Original well pump cold<br>. Location of water use of<br>. Well Locations JZ & of<br>. The well is (330) feet<br>. Street address or black<br>. Location of water use,   | PupIndustrial<br>ter Sopply (with spacing 65-63<br>well information.<br>seat well? Tep 11 Ho<br>feet from abandoned well.<br>feet from abandoned well.<br>feet from abandoned well.<br>inter inter<br>of abandoned well.<br>inter section if<br>from the North Cient) section if<br>from the North Cient) section if<br>from the North Cient) section if<br>from the North Cient) section if<br>from the North Cient) section if<br>from the North Cient) section if<br>if applicable (give legal down<br>land to be lerigated in | IDjection<br>B   | rrigation II LivestockKou<br>Supply (vithout spacing) Lecon<br>moder of abandobed wells<br>h last operated<br>original well abandocernat au  | itoring<br>ity Aci |
| 0<br>5. 2<br>8. 4<br>8<br>7. 5<br>9<br>9<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5 | cease Veter Source Heat I<br>briveration Poblic Tat<br>ther<br>eplacement and abundoned<br>. Is this well a replaced<br>. To this well a replaced<br>. Replacement well is<br><br>. Original well pump cold<br>. Location of water use of<br>. The well is (330) feet<br>. Street address or black<br>. Street address or black | Pup   | Injection  | rigation II bivestock Kot<br>Supply (without spacing) lecon<br>annher of shandobtd wells<br>h last operated<br>crigical well shandoussat on<br>Range 51 B<br>ton the discrete section dire<br>tion the discrete section dire<br>bich pump will be installed.<br>d ]<br>Return the first section dire | itoriky<br>117 Aci |
| 0<br>5. 2<br>8. 4<br>8<br>7. 5<br>9<br>9<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5 | cease Veter Source Heat I<br>briveration Poblic Tat<br>ther<br>eplacement and abundoned<br>. Is this well a replaced<br>. To this well a replaced<br>. Replacement well is<br><br>. Original well pump cold<br>. Location of water use of<br>. The well is (330) feet<br>. Street address or black<br>. Street address or black | Pup   | Injection  | rigation II bivestock Kot<br>Supply (without spacing) lecon<br>annher of shandobtd wells<br>h last operated<br>crigical well shandoussat on<br>Range 51 B<br>ton the discrete section dire<br>tion the discrete section dire<br>bich pump will be installed.<br>d ]<br>Return the first section dire | itoring<br>ity Aci |
| 0<br>5. 2<br>8. 4<br>8<br>7. 5<br>9<br>9<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5<br>1. 5 | cease Veter Source Heat I<br>briveration Poblic Tat<br>ther<br>eplacement and abundoned<br>. Is this well a replaced<br>. To this well a replaced<br>. Replacement well is<br><br>. Original well pump cold<br>. Location of water use of<br>. The well is (330) feet<br>. Street address or black<br>. Street address or black | Pup   | Injection  | rigation II bivestock Kot<br>Supply (without spacing) lecon<br>annher of shandobtd wells<br>h last operated<br>crigical well shandoussat on<br>Range 51 B<br>ton the discrete section dire<br>tion the discrete section dire<br>bich pump will be installed.<br>d ]<br>Return the first section dire | itoring<br>ity Açı |

## Water Well 836 (G100106) Water Well Registration

## Water Well 836 (G100106) Water Well Registration

| _               | ill Locat<br>ie well i                 | B OF SEGISTRATION REPORT FOR. Well Owner All<br>iam, JB & of the SE & of Section 23 , Yowas<br>s feet from the section line and | ip 39 North, Labge                    | G-100106<br>Tage set 1 of 1<br>51 F , DATES COURTY.<br>section line |
|-----------------|--|---|---------------------------------------|---|
|                 |  | tion Jaformation<br>depth: 220 feet. 3. Static water levels H   | 15 <i>fe</i> ez.                      | C. Junping water levels 150 feet.                                   |
|                 |  | rection brain 03/25/98 B. Tell Construction   |                                       | [1] Istinated or [_] Recoured                                       |
| 1. k            | re bole                                | laneter 9 Jaches.   | •                                     |   |
| Ĩ.              | II thick                               | og: Diaxeter 4.454 ZD 4.459 OD inches.<br>Desp: .496 Inch(es). Joints GLORD   |                                       |   |
| · 14<br>8. 81   | togth(s)                               | and placement(s) depth from 0 ft. to 208<br>154 ID 4.550 0D fb; Type of asterial (  | lt. fron ft<br>vre                    | , to It.  |
| \$(             | iteen ape                              | nings (alot size), , 416 - Trade anst, 2008   | 175                                   |   |
|                 | atel pac                               | nad placenencip) depth from 200 ft. to 220<br>k lutervalis) from 13 ft. to 220 ft. fr   | it. itol et.<br>18 ft. to             | to It. Guides at 110 It.<br>It. Grade sites 22                      |
| J. 61           | outed/Se                               | eled from 5 ft. to 10 ft. vith BERTOI   | INTE CENTS                            | •   |
| I. D1           | illing a                               | fros ft. to ft. with<br>ethod: BOTLAY L. Drilling fluid: MU   | )                                     |   |
| 1. 1            | 11 cheni                               | opment technique (total time and method): TISS<br>cals, fertilitar or antifreeze be injected or                                 | 1 POUPED 2.581<br>stilled in the syst | 127 Tes II 16   |
| , <b>1</b>      | l yes, nd                              | at will be useds  |                                       |   |
|                 |  |   |                                       |   |
| Casto           | els Vites                              | ials logged   |                                       |   |
| DEFTE           | 18 FR81                                | DESERTIFICE   | DIPTE IS THEF                         | discription   |
| TROK            | 10                                     |   | IRON TO                               |   |
|                 |  | TOP SOIL  |                                       |   |
|                 | 165<br>228                             | BUTTE ROCK<br>NATER ISANIAE SANDSTORE   |                                       |   |
|                 | ······································ |   |                                       |   |
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| F. 1 an         |  |   | iration, and to the h                 |   |

|                           | STATE OF HIDRASTA<br>DIFASTANT OF FATER ALSOFICIS  | October 1<br>1978: Zara   |
|---------------------------|--|---|
|                           | Tuter Vell Registration  | Zaye sit 1 st   |
|                           | TER STREAM THE STREAM THE STREAM THE TOT OFFATTLENTS OF OTLY CONTINUES.  |   |
| 1                         |  | n.n. <u>G-100105</u><br>19222-11)hite.m                           |
| â                         | Vell Guner ANLES + BRITT 20145123<br>Addreas 7600 DODGE RD.<br>City RANIEGIORD State BE Jip Coda   | + Baber ( 398 ) 417-3376<br>(5348 +                               |
|                           |  | 10 Auber ( 303 ) (65-2428<br>107's Licease Do. 32835<br>1 (9339 + |
| 3. 1                      | Perait Juber(s)  |   |
|                           | Replacement and abandomed well information.<br>A. Is this well a replacement well? Tes II So S. Replacement well is feet from abandomed well.<br>B. Original well pump colona size inches.<br>G. Location of water use of abandomed well<br>S. Completion of original w  | ibudeaed vell:<br>ested<br>rell absideagest ep                    |
|                           | A. Well Location: SE & of the SKA of Section 22 . Township 38 Sorth, Range 31<br>8. The wall is 500 feet from the South section line and 1400 fast from the W<br>C. Street address or block, lot and subdivision, if applicable: HE<br>D. Location of water use, if applicable (give legal descriptions):<br>8. If for irrigation, the land to be irrigated is arres.<br>F. Vell reference letter(s), if applicables |   |
|                           | Pump Information.<br>In pump installed at this time? Yes II No<br>If yes, complete items A through N.<br>If no, complete items A and D with estimated information for those wells in which pump<br>A. Actual pumping rate, if applicables == 0.00 gallons per minute. Resource [_] Bati  | vill åt jostalltå.<br>Jaten I 1                                   |
| )<br> <br> <br> <br> <br> | A. actual pulping late, it applicables 4.40 geneas per alatte, actual ( ] sold<br>B. Paup coloum dismeters isches. C. Letyth of paup coloums a<br>D. Pauping equipment installed: B. Brand/Types<br>J. Paup installed by: Contractor [_] Over [_] tang Installer [_] Liteurs No.   | feet.   |
| )<br> <br> <br> <br>      | B. Paup coloum diameter: Loches. C. Leugth of paup coloums d<br>D. Tomping equipment installed: B. Brand/Types   |   |

## Well 841 (G100105) Water Well Registration

## Well 841 (G100105) Water Well Registration

|                 | ll Locat i<br>s vell fi | an SB & of the SU & of Section 22 , Tavash<br>564 feet from the South section line and 1   | isp 39 Bort<br>1919 Leet fr | b, Razy<br>Da the | e SI P , DATES Conaty.<br>Reat dection line    |
|-----------------|-------------------------|--|-----------------------------|-------------------|--|
|                 |                         | ilon laformation<br>depth: 220 (eet. B. Static water level, 15   | is feet.                    |                   | C. tauping water levels 150 feet.              |
| d. Vel          | ti Coasti               | ection began 03/25/99 8. Vell Construction c   | apleted: 01                 | /25/33            | [1] Inclusted or (_) Lessared                  |
| 6, P);          | lin Casiz               | liszeter 9 inches.<br>19 Dianeter 4.454 ID 4.954 OD inches.  | Type of matal               | rtal 24           | * *  |
|                 |                         | ess: .496 inchien]. Joints (LVID<br>ad placement(s) depth from 4 ft. to 240  | ft. Ites                    | f                 | t. to 11.                                      |
| I. Sei          | tene 4.4                | 54 10 4.959 00 in; Ippe of nuterial P<br>ings (slot size) .016 Frade asnes ROBER   | 16                          | •                 |  |
| Lei<br>I. Gri   | ıqtà(s) e<br>ivel paci  | ad placement(s) depth from 240 ft. to 228<br>i sheerral(s) from 10 ft. to 210 ft. fro<br>led from 5 ft. to 10 ft. slth SILTON  | tt. tren<br>11 tt. 1        | it.<br>w          | to (t. fuldes at 218 it.<br>(t. fraie sixes 22 |
|                 |                         | from ft. to ft. slith  |                             |                   |  |
| H. Tal          | 1) devela               | chode Roylest 5. Drilling fluide 800<br>preat technique (total time and nethod):   |                             | _                 |  |
| - <b>1. 1</b> 1 | 11 cheste               | als, fertilizer or antificence be injected or<br>it will be usede  | atilized in (               | the sys           | test fee If Do                                 |
|                 | ,, «M                   |  | •                           |                   |  |
|                 |                         |  |                             |                   |  |
|                 |                         | als Logsed<br>Description  | UTPTE 1                     | e estr            | DISCULUTION                                    |
| PROX            | 10                      | Asarits, taaw  | FIGE                        | 10                |  |
|                 | 3                       | top soil   |                             |                   |  |
| )<br>15         | 75<br>85                | suit act and a subscription of the subscriptio |                             |                   |  |
| 85<br>138       | 130<br>148              | BUTTA ROCE<br>Sard   |                             |                   |  |
| 140             | 155                     | BUTTE ROCE   |                             |                   |  |
| 155             | 220                     | PATTR BEARING SANDSTONE  |                             |                   |  |
|                 |                         |  |                             |                   |  |
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|                 |                         | The information consisted on this region   | -                           |                   |  |
|                 | Pana                    |  | -                           |                   | best of up involeige it in tree.               |

#### Water Well 851 (G000345A) Water Well Registration

| Sebuit 16:<br>Department of Natural<br>Resources<br>301 Cencennial Mall South<br>P.O. Ros 94676<br>Linouto, Netwaska 68509-4676  | July :<br>DEPARTMENT OF NEERASKA<br>DEPARTMENT OF NATURAL RESOURCES<br>WATER WELL REGISTRATION MODIFICATION   | 2002 |
|--|---|------|
|  | ÉORDEPARIAENTASEONEY  |      |
| Dute Files _ 2-1-3   | 2005 Sequence No. 3611 Registration No. G-000345A   | 1    |
| Owner Code No 10081  | Receipe No Upper Nishrara White NRD   | ł    |
|  |   | .)   |
|  | Love Kalacis Work Telephone Number (  | •    |
| Address 3332 RT<br>City Marchard   | State N.6 Zip Code 69.3.5 4 +   |      |
| · · · · · · · · · · · · · · · · · · ·  |   | -    |
| 2. Constructor(Required)   | Telephone Number ()   |      |
| City   |   |      |
|  |   |      |
| <ol> <li>Water Well Registration No.</li> </ol>  | G-000345A<br>STO BE CORRECTED   |      |
| 1 1012 1 1012 42   | formation in ITEMS 4A and 4B are required)<br>2 Va of Section 21 Township 24 North, Range 50 F WY Dowers<br>Feet from the (N S. ) section line and form the (E 94) section line.  | -    |
| LIST LEGAL:<br>A. Well location: <u>who.</u> <sup>14</sup> S.<br>B. The well is<br>S. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>who.</u> <sup>16</sup> S.<br>B. The well is<br>C. Labitude Degree:<br>D. Langingde Degree:   | E Vs of Section 21 Township 29 North, Range SQ F. W Doscor County.<br>feet from the (N S) section line and fort from the (E W) section line.<br>EGAL AND/OR FOOTAGE:<br>FG Vs of Section 22 Township 29 North, Range 50 E W A Dacces County.<br>fort from the (N S) section line and feet from the (E W) section line.<br>Minute: Second:   |      |
| LIST LEGAL:<br>A. Well location: <u>where</u> <sup>14</sup> S.<br>B. The well is<br>5. LOCATION OF WELL<br>LIST LEGAL CORRECT L<br>A. Well location: <u>where</u> <sup>16</sup> S.<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>E. Street address and subdite<br>F. Block   | E Vs of Section 21 Township 29 North, Range SQ F. W. Ooscos County.<br>feet from the (N S) section line and four from the (E W) section line.<br>EGAL AND/OR FOOTAGE:<br>55 Vs of Section 22 Township 29 North, Range 50 E W. O Occes County.<br>feet from the (N S) section line and feet from the (E W) section line.<br>Minute: Second:<br>vision, if applicable   | -    |
| LIST LEGAL:<br>A. Well location <u>when</u> <sup>14</sup> S.<br>B. The well is<br>5. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>when</u> <sup>16</sup> S.<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>E. Street address and subdiv<br>F. Block.   | E Vs of Section 21 Township 29 North, Range SQ F. W. Ooscos County.<br>feet from the (N S) section line and four from the (E W) section line.<br>EGAL AND/OR FOOTAGE:<br>55 Vs of Section 22 Township 29 North, Range 50 E W. O Occes County.<br>feet from the (N S) section line and feet from the (E W) section line.<br>Minute: Second:<br>vision, if applicable   |      |
| LIST LEGAL:<br>A. Well location: <u>who</u> <sup>14</sup> SJ<br>B. The well is<br>5. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well bostion: <u>who</u> <sup>14</sup> SJ<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>D. Lo | We of Section 21_Lownship 24_North, Range SQ_F_MV Descer County.     [eet from the (N_S_)) section line and fort from the (E) section line.  EGAL AND/OR FOOTAGE:     Second: fort from the (E) section line.      Minute: Second:      Minute: Second:      vision, if applicable      is category)Drewstaring (over 90 days)DomesticGround Heat Exchanger     east PlumpIndustrialInjectionIrrigationLivestock     servationIndustrialInjectionInvestorInvestorInvestorInvestorInvestorInvestorIndustrialInjectionInvestorInvestorIndustrialInjectionInvestorInvestorIndustrialInjectionInvestorInvestorInvestorInvestorIndustrialInjectionInvestorInvestorIndustrialInjectionInvestorIndustrialInjectionInvestorIndustrialInjectionInvestorInvestorInvestorInvestorInvestorIndustrialInjectionInvestorIndustrialInjection  |      |
| LIST LEGAL:<br>A. Well location: <u>ALAC</u> <sup>14</sup> , SJ<br>B. The well is<br>5. LOCATION OF WELL<br>LIST LEGAL CORRECT L<br>A. Well location: <u>ALAC</u> <sup>16</sup> , SJ<br>B. The well is<br>C. Latitude Degree:<br>D. Langitude Degree:<br>D. Langitude Degree:<br>C. Latitude Degree:<br>D. Langitude Degree:<br>D. Location of water use<br>6. Namber of acress intigated:<br>A. Location of water use<br>7. Change of use(select from th<br>Ground Water Source Hill<br>HomitoringObs<br>RecoveryOth  | E       We of Section       24       North, Range SQ, F, WY, Ooker County.         feet from the (N, S, ) section line and foet from the (E, W, ) section line.       Feet from the (N, S, ) section line and foet from the (E, W, ) section line.         EGAL AND/OR POOTAGE:       Section 22       Toynship 29       North, Range SO, E, WK, Dakes County.  |      |
| LIST LEGAL:<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>S. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>B. Street address and subdiv<br>F. Block<br>6. Number of acress irrigited:<br>A. Location of water use<br>7. Change of use(select from the<br>Ground Water Source He<br>MonitoringObe<br>RecoveryOth<br>A. Well was used for :<br>B. New gallons per minute;<br>8. Welk in a Series.<br>A. Is this well a part of a set  | E       We of Section       24       North, Range SQ, F, MY       Dolver       County.         feet from the (N       S       ) section line and foot from the (E       W       ) section line.         EGAL AND/OR FOOTAGE:  |      |
| LIST LEGAL:<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>S. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>B. Street address and subdiv<br>F. Block<br>6. Number of acress irrigited:<br>A. Location of water use<br>7. Change of use(select from the<br>Ground Water Source He<br>MonitoringObe<br>RecoveryOth<br>A. Well was used for :<br>B. New gallons per minute;<br>8. Welk in a Series.<br>A. Is this well a part of a set  | E       Ye of Section       21       Laparaship       22       North, Range       SQ_F       Weight County, feet from the (E)       County, feet from the (N)       Section line and feet from the (E)       Wight County, feet from the (E)       Section line and feet from the (E)       Section line, feet from t |      |
| LIST LEGAL:<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>S. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>where</u> <sup>14</sup> SJ<br>B. The well is<br>C. Latitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>D. Longitude Degree:<br>B. Street address and subdiv<br>F. Block<br>6. Number of acress irrigited:<br>A. Location of water use<br>7. Change of use(select from the<br>Ground Water Source He<br>MonitoringObe<br>RecoveryOth<br>A. Well was used for :<br>B. New gallons per minute;<br>8. Welk in a Series.<br>A. Is this well a part of a set  | E       We of Section       24       North, Range SQ, F, MY       Dolver       County.         feet from the (N       S       ) section line and foot from the (E       W       ) section line.         EGAL AND/OR FOOTAGE:  |      |
| LIST LEGAL:<br>A. Well location: <u>who.</u> <sup>14</sup> SJ<br>B. The well is<br>S. LOCATION OF WELL<br>LIST LEGAL <u>CORRECT</u> L<br>A. Well location: <u>who.</u> <sup>14</sup> SJ<br>B. The well is<br>C. Labitude Degree:<br>D. Langitude Degree:<br>E. Street address and subdiv<br>F. Block<br>6. Number of acress irrigated:<br>A. Location of water use<br>7. Change of use(select from th<br>Ground Water Source He<br>MonitoringObe<br>RecoveryOth<br>A. Well was used for :<br>B. New gallons per minute;<br>8. Wells in o Series.<br>A. Is this well a part of a set  | E       Ye of Section       21       Laparaship       22       North, Range       SQ_F       Weight County, feet from the (E)       County, feet from the (N)       Section line and feet from the (E)       Wight County, feet from the (E)       Section line and feet from the (E)       Section line, feet from t |      |

### Water Well 851 (G000345A) Water Well Registration

| A. Is this well a replace                                    | ed well information.  |   |                                     |  |  | 000345           |                              |
|--|---|---|-------------------------------------|--|--|------------------|------------------------------|
| B. Registration number                                       | of abandoned well   | Vi  | not registered, d                   |  |  |                  |                              |
| C. Replacement well is<br>E. Original well pomp              | feet from   | ) abaodoned well<br>inches.                 | LDA<br>F.C                          | bandoned well las<br>empletion of origin | nal well abandoen                      |                  | (b)                          |
| G. Location of water up                                      |   |   |                                     |  |  |                  |                              |
| 10. Well Construction Inform                                 |   |   |                                     |  |  |                  |                              |
| A. Total well depth  | foci.   |   | 1                                   | 8. Static water le                       | vel                                    | Rei.             |                              |
| C. Pumping water love<br>E. Well Construction of             |   |   |                                     | D. Weil Construct<br>F. Bore hole dian   |  |                  |                              |
| G. Casing and Screen J                                       | oints are Welded  | Jalued                                      |                                     | Threaded                                 | Other                                  |                  |                              |
| 11. Well Construction (Casin                                 | a Recence a dist  | A   | n should be be i                    | nahar ta diran duri                      | international                          |                  |                              |
| A  | b   | c normality                                 | d                                   | e e                                      | f                                      | 8                | h                            |
| Placement  | Casing or   | Inside                                      | Outside                             | Wall                                     | Турсог                                 | Screen Slot      | Trade Name                   |
| Depth in Feet  | Screen  | Dissouter                                   | Dissoster                           | Thickness                                | Material                               | Sine             |                              |
| From To  |   | <u> </u>                                    |                                     |  |  |                  |                              |
|  |   | 1   |                                     |  |  |                  |                              |
|  |   |   |                                     |  |  |                  |                              |
|  |   |   |                                     |  |  |                  |                              |
|  |   |   |                                     |  |  |                  |                              |
| 12. Grout and Gravel Pack                                    |   |   |                                     |  |  |                  |                              |
| Placement Dept   | h în Feet   | 4   | rout of                             |  | Mag                                    | stal Description |                              |
| P  | -   |   |                                     |  |  |                  |                              |
| from   | <u>Ta</u>   | Gra   | vel Park                            |  |  |                  |                              |
| From   | To  | Gra   |                                     |  |  |                  |                              |
| From   | To  | Gra   |                                     |  | ······································ |                  |                              |
| From   | To  | Gra   |                                     | ······································   |  |                  |                              |
|  |   | Gra   |                                     |  |  | 1999             |                              |
| From<br>From<br>13. Geologic Materials Logg<br>Depth in Feet |   |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg                                  |   |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 |   |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     |  |  |                  |                              |
| I3. Geologic Materials Logg<br>Depth in Feet<br>From To      | d<br>Description  |   |                                     |  |  |                  |                              |
| 13. Geologic Materials Logg<br>Depth in Foet                 | d<br>Description  |   |                                     | \$0±1/2                                  | istered in                             | section d        | <u></u>                      |
| I3. Geologic Materials Logg<br>Depth in Feet<br>From To      | Description   | ge: [u/e//                                  | <br><br>                            | sotiy_ceg                                | istered in                             | Section 2        | L                            |
| I. REQUIRED: State R   | Description<br>Description  | ge: <u>lefe()</u><br>5ec.6%                 |                                     |  |  |                  | <u>ພາສະເພັ້ມເຫັງເຫັງເຫັນ</u> |
| 13. Geologic Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description  | ge: <u>lefe()</u><br>5ec.6%                 |                                     |  |  |                  | <u>ພາສະເພັ້ມເຫັງເຫັງເຫັນ</u> |
| I. REQUIRED: State R   | Description<br>Description  | ge: <u>lefe()</u><br>5ec.6%                 |                                     |  |  | e bast of my     | knowlodge i                  |
| 13. Geologic Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description  | ge: <u>lefe()</u><br>5ec.6%                 |                                     |  |  | e bast of my     | <u>ພາສະເພັດເຫັນ</u> ແຕ່ປະເ   |
| 13. Geologic Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description<br>easen for Chan<br>frowed to<br>h the informat | ge: <u>lefe()</u><br>5ec.6%                 | is core<br>22.<br>ted on this<br>Ma |  | a, and to th                           | e bast of my     | knowlodge i                  |
| 13. Geologie Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description<br>easen for Chan<br>frowed to<br>h the informat | ge: <u>i.Æii</u><br>Sec é'o<br>tion submitt | is core<br>22.<br>ted on this<br>Ma | registration<br>5. pelaps                | a, and to th                           | e bast of my     | knowlodge i                  |
| 13. Geologie Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description<br>easen for Chan<br>frowed to<br>h the informat | ge: <u>i.Æii</u><br>Sec é'o<br>tion submitt | is core<br>22.<br>ted on this<br>Ma | registration<br>5. pelaps                | a, and to th                           | e bast of my     | knowlodge i                  |
| 13. Geologie Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description<br>easen for Chan<br>frowed to<br>h the informat | ge: <u>i.Æii</u><br>Sec é'o<br>tion submitt | is core<br>22.<br>ted on this<br>Ma | registration<br>5. pelaps                | a, and to th                           | e bast of my     | knowlodge i                  |
| 13. Geologie Materials Logg<br>Depth in Feet<br>From To<br>  | Description<br>Description<br>easen for Chan<br>frowed to<br>h the informat | ge: <u>i.Æii</u><br>Sec é'o<br>tion submitt | is core<br>22.<br>ted on this<br>Ma | registration<br>5. pelaps                | a, and to th                           | e bast of my     | knowlodge i                  |

#### Water Well 852 (G000345B) Water Well Registration

| Submit to:<br>Department of Natural<br>301 Centennial Mall Sc  |  | OF NEBRASKA<br>NATURAL RESOURCE  | July<br>DNR For   |
|--|--|--|---|
| P.O. Box 94676<br>Lincoln, Nebraska 685<br>Phone (402) 471 2363  | 0/0/40/0    />>>>  | STRATION MODIFICATION<br>R USE ONLY  | · · · · · · · · ·   |
|  | FOR DEPAR  | TMENT USE ONLY   | <ul> <li>Carrier Made as adding to experimental</li> </ul>  |
| . *  | - 2007 _ Owner Code No   | 100°G Registration   | No. G-000345 B  |
| 03152007_00  | 3612 . MOOF/2)   | Upper Niebe  | ara)-40 hitz, NI  |
|  | ON 1 AND SIGNATURE IN SEC  | TION 3 ARE REQUIRED  | :<br>:<br>:<br>:  |
| SECTION 1:   | ist Name Steve   | Last NameKla   | es  |
| A. Well Owner's Fir<br>OR Company Name_  |  | _Last Name   |   |
| Attention Name   | 333 Awer Rd.   |  |   |
|  |  | E Zip 69354 Telep  | hone 308 665 180  |
| B. Well Registration No.   | 6-000345B  |  | :<br>:  |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural   | on of water use (give complete legal de<br>lumber of acres irrigated:<br>different than what is currently register<br>located in an area that has stays or a mo<br>Resources District PRIOR TO FILIN<br>roval form by the NRD. | ed, and/or the number of acres irr   | s, you MHIST obtain the written   |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural   | Iumber of acres irrigated:<br>different than what is currently register<br>located in an area that has stays or a mo<br>Resources District PRIOR TO FILIN<br>roval form by the NRD.  | ed, and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Modes  | igated is more than what is currently   |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br>LLNWNRO   | Iumber of acres irrigated:   | ed, and/or the number of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady<br>RD Staff   | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br><u>12/28/06</u><br>(Date)<br><u>Naturgatein</u> well  |
| For Irrigation Wells: N<br>If the location of loss is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>URWWNRO</u><br>(Natural Resources D   | Jumber of acres irrigated:<br>different than what is currently register<br>located in an area that has stays or a mo<br>Resources District PRIOR TO FILIN<br>roval form by the NRD.<br>(Signature of N                         | ed, and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mmdy<br>RD Staff   | igated is more than what is currently<br>s, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)   |
| For Irrigation Wells: N<br>If the location of loss is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>URWWNRO</u><br>(Natural Resources D   | Jumber of acres irrigated:   | ed, and/or the number of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady<br>RD Staff   | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br><u>12/28/06</u><br>(Date)<br><u>Naturgatein</u> well  |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>U.A.W. N.R.O.</u><br>(Natural Resources D<br>D. State Reason for Chan  | Jumber of acres irrigated:   | ed, and/or the number of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady<br>RD Staff   | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br><u>12/28/06</u><br>(Date)<br><u>Margittin well</u><br>inactive well,  |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>ULD W NRO</u><br>(Natural Resources D<br>D. State Reason for Chan<br><b>CORRECTIONS NEE</b><br>SECTION 2:<br>A. If location of well need   | Jumber of acres irrigated:<br>different than what is currently register<br>located in an area that has stays or a mo<br>Resources District PRIOR TO FILIN<br>roval form by the NRD.<br>(Jacon w                                | ed and/or the number of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mody  | igated is more than what is currently,<br>s, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br><u>A S rightern well</u><br><u>inactive well</u> ,<br>Complete only those items being modified<br>e.  |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>U.A.W.N.R.O.</u><br>(Natural Resources D<br>D. State Reason for Char<br>CORRECTIONS NEE<br>SECTION 2:  | Jumber of acres irrigated:   | ed, and/or the number of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady<br>RD Staff<br>RD Staff<br>The octure ao<br>the back of an  | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br><u>Description</u> wells<br><u>inactive</u> wells<br><u>complete only those items being modified</u><br><u>E</u> W,   |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>ULN W N &amp; O</u><br>(Natural Resources D<br>D. State Reason for Chan<br><b>COHRECTIONS NEE</b><br><b>SECTION 2:</b><br>A. If location of well need<br>1. Well location:<br>2. The well is<br>OR Latitude Degree:                      | Iumber of acres irrigated:   | ed, and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady<br>RD Staff<br>RD Staff<br>. Item 3 required when applicable<br>. Item 3 required when applicable<br>. TownshipNorth, Range<br>section line and | igated is more than what is currently,<br>you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br><u>A Suptimesell</u><br><u>inactive sell</u> ,<br>Complete only those items being modified<br>E.<br>E.W.,<br>feet from the (E.W.) section line   |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>ULN W N &amp; O</u><br>(Natural Resources D<br>D. State Reason for Chan<br><b>COHRECTIONS NEE</b><br><b>SECTION 2:</b><br>A. If location of well need<br>1. Well location:<br>2. The well is<br>OR Latitude Degree:<br>Longitude Degree: | Jumber of acres irrigated:   | ed, and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mady   | igated is more than what is currently<br>s, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>Multiple obtained of a Natural<br>12/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06<br>(Date)<br>13/28/06   |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>ULN W N &amp; O</u><br>(Natural Resources D<br>D. State Reason for Chan<br><b>COHRECTIONS NEE</b><br><b>SECTION 2:</b><br>A. If location of well need<br>1. Well location:<br>2. The well is<br>OR Latitude Degree:<br>Longitude Degree: | Jumber of acres irrigated:   | ed. and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mody   | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br><u>Necetive</u> well<br><u>inactive</u> well<br><u></u> |
| For Irrigation Wells: N<br>If the location of use is<br>registered, and you are<br>approval of the Natural<br>Resources District Appr<br><u>ULN W N &amp; O</u><br>(Natural Resources D<br>D. State Reason for Chan<br><b>COHRECTIONS NEE</b><br><b>SECTION 2:</b><br>A. If location of well need<br>1. Well location:<br>2. The well is<br>OR Latitude Degree:<br>Longitude Degree: | Jumber of acres irrigated:   | ed, and/or the mimber of acres in<br>ratorium on newly irrigated acres<br>G THIS FORM. This approval<br>Mody   | igated is more than what is currently<br>, you MUST obtain the written<br>can be the submission of a Natural<br>12/28/06<br>(Date)<br><u>Necetive</u> well<br><u>inactive</u> well<br><u></u> |

#### Water Well 852 (G000345B) Water Well Registration

|  | rom this Listing: Dewatering (over 90 days), Domestic, Ground Heat<br>Injection, Irrigation, Livestock, Monitoring, Observation, Public Water<br>hout spacing), Recovery, Other(if well use falls in this category – add specific   |
|--|---|
| use).  | G-000345B   |
| 1. Well was used for:  |   |
|  | 3. Date of Change:  |
| C. Well Construction Information.  |   |
| 1. Total well depth: feet.   | 2. Static water level: feet.  |
| 3. Pumping water level: feet   | 4. Well Construction began: (m) /(c) / (r)  |
| 5. Well Construction completed: (m) /(m) / (g)   | 6. Bore hole diameter in inches: Top Bottom   |
| 7. Casing and Screen Joints are: Welded, Glued_<br>D. Wells in a Scries.   | Threaded Other  |
| 1. Is this well a part of a series? Yes.   |   |
| 2. If one or more of the wells in the series is currently reg  | istered, give all well registration numbers:  |
|  |   |
| E. Replacement and decommissioned/modified well informa  | tion. Department of Natural Resources Decommission/Modification Certification form or<br>Notice of Decommissioning form is Required for replacement wells:  |
| I. Is this well a replacement well? Yes No     Repistration number of original well:   | ginal well is not registered, date well construction completed $\frac{1}{(m)} - \frac{1}{(m)}$  |
| 3. Original well last operated (m) /(0) /()  | 2   |
| 4. Completion of original well decommission/modification   |   |
| 5. Complete location of water use of original well:  |   |
| F. Pump information.   |   |
| 1. Pumping rate:   |   |
| 2. Drop Pipe diameter: Inche   |   |
| 4. Pumping equipment installed: (n) /(4)   | 5. Brand/Type:  |
| 5. Static Water Level:   |   |
| 7. Pumping water level:  | fòcu  |
| 8. Amount of time pumped:  |   |
| G. Active to Inactive  |   |
|  | status of this water well from active to inactive by removing the   |
| A/Ainch pump and pumping column and prop   | erly capping the water well according to state standards. (§46-1207.02)   |
| H. Well Construction Modification  |   |
|  | 2. Static water level: feet.  |
| 1. Total well depth: feet.   | 4. Well Modification began: (m) /(d) /(y)   |
| Total well depth: feet.     Pumping water level: feet     Vial Mediantics completed  |   |
| Total well depth: feet.     Pumping water level: feet     Well Modification completed: //  |   |
| <ol> <li>Well Modification completed: (m) /(4) /(x)</li> <li>Casing and Screen Joints are: Welded Glued III</li> <li>I certify that the well has been modified according to info</li> </ol>  |   |
| <ol> <li>Well Modification completed: (m) /(1)</li> <li>Casing and Screen Joints are: Welded Glued</li> <li>I certify that the well has been modified according to informinute or less. Pumping Rate:</li> </ol>   | 6. Casing diameter in inches: TopBottom<br>, Threaded, Other<br>mation given in section 2 E, F, & H, such that it will pump 50 gallons per  |
| <ol> <li>Well Modification completed: (m) /(4) /(x)</li> <li>Casing and Screen Joints are: Welded Glued</li> <li>I certify that the well has been modified according to infominite or less. Pumping Rate:</li> <li>Change to use (Check one of the following): Livestoo</li> </ol>   | 6. Casing diameter in inches: Top Bottom Threaded, Other mation given in section 2 E, F, & H, such that it will pump 50 gallons per     ck      Monitoring      Observation   |
| <ul> <li>5. Well Modification completed: (m) /(4) /(x)</li> <li>7. Casing and Screen Joints are: Welded Glued Glued</li> <li>1. I certify that the well has been modified according to informinite or less. Pumping Rate: Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approvel by the approved by the approvel by th</li></ul> | 6. Casing diameter in inches: Top Bottom Threaded, Other mation given in section 2 E, F, & H, such that it will pump 50 gallons per     ck      Monitoring      Observation   |
| <ol> <li>Well Modification completed: (m) /(4) /(x)</li> <li>Casing and Screen Joints are: Welded Glued</li> <li>I certify that the well has been modified according to infominite or less. Pumping Rate:</li> <li>Change to use (Check one of the following): Livestoo</li> </ol>   | 6. Casing diameter in inches: Top Bottom Threaded, Other mation given in section 2 E, F, & H, such that it will pump 50 gallons per     ck      Monitoring      Observation   |
| <ul> <li>5. Well Modification completed: (m) /(a) /(x)</li> <li>7. Casing and Screen Joints are: Welded Glued</li> <li>1. I certify that the well has been modified according to informinute or less. Pumping Rate:</li> <li>Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the ap</li> <li>SECTION 3:</li> </ul>   | 6. Casing diameter in inches: TopBottom Threaded, Other, Other, Other, Other, Other   |
| <ul> <li>5. Well Modification completed: (m) /(4) /(x)</li> <li>7. Casing and Screen Joints are: Welded Glued Glued</li> <li>1. I certify that the well has been modified according to informinite or less. Pumping Rate: Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approved by the approvel by the approved by the approvel by th</li></ul> | 6. Casing diameter in inches: TopBottom Threaded, Other, Other, Other, other  |
| <ul> <li>5. Well Modification completed: (m) /(a) /(x)</li> <li>7. Casing and Screen Joints are: Welded Glued</li> <li>9. I certify that the well has been modified according to informinute or less. Pumping Rate: Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the sp</li> <li>5. SECTION 3:</li> <li>1 hereby certify that the information provided on this for Market Science</li></ul> | 6. Casing diameter in inches: TopBottom<br>Threaded, Other<br>remation given in section 2 E, F, & H, such that it will pump 50 gallons per<br>ckMonitoringObservation<br>pplicable natural resources district. State use:<br>form is true and accurate to the best of my knowledge.<br>IJJ28/06 |
| <ul> <li>5. Well Modification completed: (m) /(a) /(x)</li> <li>7. Casing and Screen Joints are: Welded Glued</li> <li>1. I certify that the well has been modified according to informinute or less. Pumping Rate:</li> <li>Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the ap</li> <li>SECTION 3:</li> </ul>   | 6. Casing diameter in inches: TopBottom<br>Threaded, Other<br>remation given in section 2 E, F, & H, such that it will pump 50 gallons per<br>ckMonitoringObservation<br>pplicable natural resources district. State use:<br>form is true and accurate to the best of my knowledge.<br>IJJ28/06 |
| <ul> <li>5. Well Modification completed: (m) /(a) /(a)</li> <li>7. Casing and Screen Joints are: Welded Glued Glued</li> <li>9. I certify that the well has been modified according to informinute or less. Pumping Rate: Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the approved by the approved by the approved by the the information provided on this for Mater Well Owner's Si</li> </ul>  | 6. Casing diameter in inches: TopBottom Threaded, Other mation given in section 2 E, F, & H, such that it will pump 50 gallons per ck      Monitoring      Observation pplicable natural resources district. State use: orm is true and accurate to the best of my knowledge.                   |
| <ul> <li>5. Well Modification completed: (m) /(a) /(a)</li> <li>7. Casing and Screen Joints are: Welded Glued Glued</li> <li>9. I certify that the well has been modified according to informinute or less. Pumping Rate: Change to use (Check one of the following): Livestor nonconsumptive or de minimus use approved by the approved by the approved by the approved by the the information provided on this for Mater Well Owner's Si</li> </ul>  | 6. Casing diameter in inches: TopBottom<br>Threaded, Other<br>remation given in section 2 E, F, & H, such that it will pump 50 gallons per<br>ckMonitoringObservation<br>pplicable natural resources district. State use:<br>form is true and accurate to the best of my knowledge.<br>IJJ28/06 |

#### Water Well 853 (G126273) Water Well Registration

| Aanday, March 08, 2004  |  | STAT  | <b>FE OF N</b>   | EBRASK   | (A   |                                |   | Page 1 of 3         |
|---|--|---|--|--|--|--------------------------------|---|---------------------|
|   | DEI  | PARTMEN   | T OF W   | ATER RI  | ESOURC   | ES                             | 1476  | 50 - G-126273 .WWRJ |
|   |  | WATER V   |  |  |  |                                |   |                     |
|   |  | FORD  | EPARTME  | NT USE ON  | LY   |                                |   |                     |
| NOL ID 107334562410<br>Owner ID 1   | ABAAI  | Accepted  | Well Status  |  | Registration   |                                | 126273  |                     |
| 1   |  | 03/06/2004  | Call Up Code   |  | Registration   | n Date                         | 03/0  | B/2004              |
| Seq Num 14  | 7650   |   | Cell Up Date   |  | _  |                                |   |                     |
| a Owner's Mamo  | Sieve  |   |  | Kiaos  |  |                                |   |                     |
| Company Name<br>Correspondent Name  |  |   |  | ntion Name   | <u></u>  |                                | <del></del>                                   |                     |
| Address   | 3335 River Road  |   |  |  |  |                                |   |                     |
| City: Marsland  | <u></u>  | State NE  | Zip Code   | 69354  |  | Phone                          | 308   | · 665-1443          |
| -   |  |   |  | _  |  |                                | •   | •                   |
| a HHSS Contractor Lie ID:   | 325970   | Contractor's N  | ame:   | David L. C   | eines  | *                              |   |                     |
| Contractor's License No:  | 39309  | Contractor's E  | mail Address:  | keitydeine   | sinigation@hot                                       | nail.com                       |   |                     |
| Drilling Firm Name  | Kelly-Deines In  |   |  |  |  |                                |   |                     |
| Address<br>City: Gering   | 2510 North 10  | th Street<br>State NE 1   | Zip Code   | 69341  |  | Phone                          | 308   | -1635-5344          |
| Driffing Firms Email Addr   |  | DIDHE ME  | 20 0008  | 90341  |  | FIRANS                         | 200   | -1033-3344          |
|   | - [  |   |  |  |  |                                |   |                     |
| Well Location   | V lof Se   | ction 221 T   | ownship 29   | North, Rar   | ngo (50  | W KEAN).                       | Dawes   | County              |
| > Natural Resource Clatrict   | Upper Nicbrara   | -While<br>(N/S) section   | Kne and  |  | livet from the                                       | (E/W)                          | section I                                     | ]<br>he             |
| GPS: or Latitude: 42  | 28 48.40   | Longitude:  | -103 10 45.  | 217*   |  |                                |   |                     |
| ·   |  |   | 100 10 100   | LV   |  |                                |   |                     |
|   | t and subdivision, if  | applicable:   | ·  |  |  | Block No                       |   | jia 🔲               |
| Location of water use, if a   | t and subdivision, if<br>splicable (give legal   | applicable:<br>descriptions)  | PT NE  |  | PI NW 1/4 Sec 1                                      | 1                              | <u>,                                     </u> | Lox                 |
| Location of water use, if a<br>If for irrigation, the land to I   | t and subdivision, if<br>splicable (give legal<br>so inigated is   | applicable:<br>descriptions)  | ·  |  | PI NW 1/4 Sec 1                                      | 1                              | <u>,</u>                                      |                     |
| Street address or block, lo<br>Location of water use, if a<br>il for irrigation, the land to l<br>Well Reference letter(s), if  | t and subdivision, if<br>splicable (give legal<br>so inigated is   | applicable:<br>descriptions)  | PT NE  |  | PI NW 1/4 Sec :                                      | 1                              |   |                     |
| Location of water use, if an ill for irrigation, the land to i  | t and subdivision, if<br>splicable (give legal<br>so inigated is   | applicable:<br>descriptions)  | PT NE  |  | PI NW 1/4 Sec :                                      | 1                              |   | Lot                 |
| Location of water use, if a<br>if for irrigation, the land to i<br>Well Reference letter(s), if   | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | PT NE  | 1/4 Sec 22 & I   |  | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the land to i<br>Wall Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water  | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | Pi NE  | E 1/4 Sec 22 & I<br>Permita<br>Transfer Out-4<br>Weit Spacing  | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the land to t<br>Well Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal  | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | Pi NE  | E 1/4 Sec 22 & I<br>Permits<br>Transfer Out-<br>Weit Spacing<br>Conduct Wate   | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the tand to to<br>Wall Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal<br>Industrial   | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | Pi NE  | E 1/4 Sec 22 & I<br>Permits<br>Transfer Out-4<br>Weit Spacing<br>Conduct Wate<br>Municipal   | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for frigation, the land to i<br>Wall Reference letter(s), if<br>Permits<br>Management Area Penni<br>Surface Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Industrial   | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | Pi NE  | E 1/4 Sec 22 & I<br>Permits<br>Transfer Out-<br>Weit Spacing<br>Conduct Wate   | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for (rrigation, the land to I<br>Wall Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Purpose of Weil<br>Irri   | t and subdivision, if<br>splicable (give legal<br>se infigated is<br>opplicablo (<br>Permits N   | applicable:<br>descriptions)  | (Pr.NE   | E 1/4 Sec 22 & I<br>Permits<br>Transfer Out-4<br>Weit Spacing<br>Conduct Wate<br>Municipal   | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the land to i<br>Well Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Notes<br>Notes  | i and subdivision, if<br>splicable (give lega)<br>be infigated is<br>applicable (<br>Permits N<br>t UNW-030  | applicable:<br>descriptions)  | (Pr.NE   | Permits<br>Transfer Out-4<br>Weil Spacing<br>Conduct Wate<br>Municipal<br>Other  | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the land to i<br>Well Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surfece Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Notes<br>Wells in a Sertes  | i and subdivision, if<br>splicable (give legat<br>be inigated is<br>applicable [<br>Permits N<br>t UNW-030   | applicable:<br>descriptions)  | (Pr.NE   | Permits<br>Transfer Out-4<br>Weil Spacing<br>Conduct Wate<br>Municipal<br>Other  | Çf-State   | 23 T29N R50M                   |   |                     |
| Location of water use, if a<br>If for irrigation, the land to i<br>Well Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Notes<br>Wells in a Sertes<br>to this well a part of a series   | i and subdivision, if<br>splicable (give legat<br>teo inigated is<br>applicable (<br>Permits N<br>t UNW-030<br>UNW-030<br>st UNW-030   | applicable:<br>dascriptions)<br>130) /<br>umber Date  | Рт. NE<br>Астез<br>02/12/2003  | E 1/4 Sec 22 & I<br>Permits<br>Transfer Out-4<br>Weit Spacing<br>Condust Wate<br>Municipal<br>Other<br>her   | QI-State<br>M  | 23 T29N R50M                   |   |                     |
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| Location of water use, if a<br>If for irrigation, the land to i<br>Wall Reference letter(s), if<br>Permits<br>Management Area Permi<br>Surface Water<br>Geothermal<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Industrial<br>Indus | i and subdivision, if<br>splicable (give legal<br>be infigated is<br>appEcable (<br>UNIV-030<br>UNIV-030<br>as7<br>In the series is curres<br>are you registeri  | applicable:<br>dascripitons)<br>130 /<br>umber Date<br>049 //<br>049 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>040 //<br>00 //<br>00 //<br>00 //<br>000 //<br>00 //<br>00 //<br>00 //<br>00 //<br>00 //<br>00 //<br>00 //<br>00 //<br>00 // | O2/12/2003<br>O2/12/2003<br>O2/12/2003<br>Other the well rep   | E 1/4 Sec 22 & I Permits Transfer Out-4 Weit Spacing Conduct Wate Municipal Other her glstration numt  | QI-State<br>M  | 23 T29N R50M                   |   |                     |
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## Water Well 853 (G126273) Water Well Registration

| NOL ID 107334562410840 NOL Status Accepted Well Status Registration Code G-126273   | Page 2 of 3<br>150 - G-126273 -WWRI   |
|---|---|
| NOL ID 107334562410240 NOL Status Accepted Well Status Registration Code G-126273   | 50 · G-126273 ·WWR  |
| FOR DEPARTMENT USE ONLY           NOL ID         107334562410840         NOL Status         I         Registration Code         G-126273  |   |
| FOR DEPARTMENT USE ONLY           NOL ID         107334562410840         NOL Status         Registration Code         G-126273  |   |
|   |   |
|   | in the second second second second second second second second second second second second second second second |
|   | 08/2004   |
|   |   |
| Seq Num 147650 Call Up Date   | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.  |
| Location of water use of abandoned well   |   |
| Pump talormation  |   |
| is pump installed at this line?   |   |
| Is pump installed by well owner in section 1?   |   |
| Else installed by pump installer.   |   |
| HHSS installer's License ID.  |   |
| Pump Installer's License No. Pump Installer's Name  |   |
| Pump Instalitur's Email Address   |   |
| Pump Insteller's Film Nama  |   |
| Pump Installer's Firm Address   |   |
| City: State Zip Code -0000 Phone  | i I   |
| Punp Installer's Firm Ernst Address   | J   |
| Pumping Rate 600 gallons per minute M measured or estimated   | ·   |
| Drop pipe diameter inches e Length of drop pipe iet.  |   |
| Pumping equipment installed   |   |
| This well will be used to pump loss than 50 gpm   | ****  |
| Well Construction Information   |   |
| Total well depth [180.] feet, b Static Water Level 63. [eet.  |   |
| Pumping Water Level 140. feet. d Well construction began: 10 / 30 / 2003  | 7   |
|   | Bottom 26.  |
| Casing and Screen Joints Wolded Other   | 1   |
|   |   |
|   |   |
|   |   |
|   |   |
| rom: Depilit To Depilit Winside Diam : Quiside Diam : Thickness : Sceen Sloc Size : Material: :   at  | adovismer Cas   |
| Fom Depth To Depth Vitside Diality Outside Diant & Thickness, Scend SlotSur Material: 1 Th<br>0 80 15.6 16 .219 Steel   |   |
| Form Depth To Depth Miside Diality Obtaide Diant & Thickness, Scend Slot Size Material: 4 1<br>0 80 156 16 .219 Steel   | radaanamaning cas<br>slot   |
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| for: Depth 70 Depth Vitside Diality Outside Diant & Thickness, Sceni SjotSive Material: 1 1<br>0 80 15.6 16 .219 Stee   |   |
| Com     Depth     Totol Depth     Material     Totol       0     80     15.6     16     .219     Steed       80     160     15.6     16     .219     .085       80     160     15.6     16     .219     .085  |   |
| Tom: Depth       To: Depth       Instide Diame       Outside Diame       Thickness       Sceen Stots ()       Material       Instide Diame       Instide Diame <thi< td=""><td>slot</td></thi<>   | slot  |
| Form Depth         Top Depth         Inside Diam         Outside Diam         Contractor         Sceen Stors ()         Material         Internal         Interna         Inte  | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| 80         160         15.6         16         219         .085 Steel         Mill           Well Construction (Grout and Gravel)   | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Top Depth         Instalde Disinities Thickness         Sceen SlotSize()         Material         Internal  | slot  |
| Form Depth         Top Depth         Instalde Disinities Thickness         Sceen SlotSize()         Material         Internal  | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Tristofe Diam         QuitAide Diam         Tristone Sen Stots ()         Material         Tristone Sen Stots ()         Tristone Sen Stots ()         Tristone Sen Stots ()         Material         Tristone Sen Stots ()         Tristone Sen Stots () <thtristone ()<="" <="" sen="" stots="" td=""><td>slot</td></thtristone> | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |
| Form Depth         Top Depth         Instalde Diame         Outside Diame         Outside Diame         Outside Diame         See installer         Material         Installer         Inst   | slot  |
| Form Depth         Top Depth         Instalde Diama         Outside Diama         Outside Diama         Outside Diama         Second Stot         Material         Installed Diama         Instal   | slot  |

## Water Well 853 (G126273) Water Well Registration

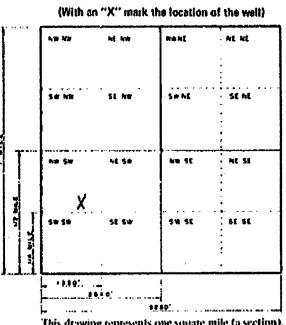
| konday, March 08, 3  | <b>:004</b>                     |                            | ARTMEN<br>WATER V  | TE OF NE<br>TOF WA<br>WELL RE<br>DEPARTMEN  | TER RE<br>GISTRA | SOURCES<br>TION                        | 147550 - G-1           | Page 3 of 3<br>28273 -WWR |
|--|---------------------------------|----------------------------|--|---|------------------|--|------------------------|---------------------------|
| NOL ID 1073<br>Owner ID<br>Sog Num   | 34562410940<br>10081<br>147850  | NOL Status<br>NOL Date     | Accepted<br>03/06/2004   | Well Status<br>Call Up Code<br>Call Up Date |                  | Registration Code<br>Registration Date | G-126273<br>03/08/2004 |                           |
| 2 Geolog Material  | ogged                           |                            |  |   |                  |  |                        |                           |
| 0733456241<br>0733456241<br>0733456241<br>0733456241<br>0733456241<br>0733456241<br>0733456241<br>10 Return to NOL | 0<br>6<br>16<br>82<br>98<br>131 | 6<br>16<br>82<br>98<br>131 | Top soil<br>Mag rock & b<br>Sand & grave<br>Medium sand<br>Sand & grave<br>Siltstone | rown clay<br>I little clay<br>little clay   |                  |  |                        |                           |
|  |                                 |                            |  |   |                  | · · ·                                  |                        |                           |

Water Well 858 (G68633) Water Well Registration

|                | DO NOT WRITE IN THIS SPACE  |
|----------------|---|
| Kegisi         | ation No. G-68633 County Daves Date Filed 2/23/83   |
| · · · ·        | STATE OF NEBRASKA<br>DEPARTMENT OF WATER RESOURCES<br>WELL REGISTRATION   |
|                | reral information:<br>Connected well (Check One)  |
| · .            | Is this well connected to another well? Yes & No X IRRIGATION   |
|                | If yes, give registration number of previously registered vell  |
| ~ <b>B</b> .   | registration forms and driller's certificates for each and submit \$7.50)   |
| , -<br>, ,     | Is this well to replace a permanently abandoned well? Yes No  |
| <u>• C</u>     | Permit No(required only in a Ground Water Control Area)   |
| 2. N           | ne & address of well owner:   |
| 2              | Tomahawk Ranch & Cattle Co. % Bruce Jake (29455)<br>Marsland, Nebraska  |
| Z              | Code 69354 Phone ( <u>308 ) 665-1765</u>  |
|                | ne & address of well driller:   |
| 0<br>94 14     | 이 治療 이 옷에 가지 않는 것을 하는 것을 하는 것을 하는 것이 가지 않는 것이 가지 않는 것이 하는 것이 같다.  |
| یے<br>ہو<br>جو | Unknown - Well was drilled prior to 1968  |
| Zi             | Code Phone: ()  |
| 4. L           | cation & purpose of the well:   |
| A              | Upper White, Niobrara 12Natural Resources District (Identify)   |
| <b>B</b> .     | NW 14 of the SW 14 of Section 15, Township 29, Range 50 EXW.  |
| È.             | County. (theck ono)<br>The well is 4000 feet from the nearest municipal, irrigation, or industrial well. The nearest well is  |
| 4.             | owned by you X someone other than you.  |
| . D            | The well is intended to intgate 200 acres of land, and it is intended to intigate all or parts of the following land: <u>Bection 15</u> , Township 29 H, Range 50 V |
|                | OR AND AND AND AND AND AND AND AND AND AND  |
| * *            | The well shall be used for purposes of: Irrigation & Stock water  |
|                | I and pump specifications:  |
|                | Pumpling rate under normal conditions: 1000 gallons per minute.   |
| , Ö.           | Total well depth: 200% feet.  |
|                | Inside diameter of the casing: 16 Inches.   |
| Ċ              | Stalle (non-pumping) water level in the well: 105 feet below ground surface.  |
| · · ?          | リアリンははないようかがあるがない。 しょうそうがい 予想 かせい アンジン 推測 しょうないがい たんもう かちょう アン・クライ  |
| n in<br>D      | Depth of water under normal pumping conditions: 140 feet below ground surface.  |
| . D.           | Depth of water under normal pumping conditions: 140 feet below ground surface.<br>Pump column: Diameter 8 inches Length 180 feet.                                   |

.

#### Water Well 858 (G68633) Water Well Registration



This drawing represents one square mile (a section). Each small subdivision is a 40-acro tract.

1 certify that 1 am familiar with the information contained on this registration, and that to the best of my knowledge and belief such information is true, concise and accurate.

mol & Caltle Co. 1 ma Well Owner's Signature sker 18 Feb 1983

Both a Well Registration and Driller's Certificate must be completed in triplicate and in full. An incomplete or defective form will be returned. A non-refundable \$7.50 fee (payable to the Director of Water Resources) must recompany your submittal. No fee is required to register: (1) a permitted well within a Ground Water Control Area; (2) a well constructed to replace a previously registered well; or (3) a well connected in a series with another well previously registered. Forward to:

> State of Nebraska Department of Water Recourses

. . .

Appendix E-2

## Water Well Completion Reports

. · ·

#### Permit No. NE0122611

16.2 bbls.

Bentonite 9 lbs/gal

| Company: Crow Butte Resources. Inc.            | Project: Crow Butte                      |
|--|--|
| Well Type: Production/Injection Monitor X      | Well No. BOW-2010-1                      |
| Ground Elevation: 4259 ft.                     | Wellhead Elevation: 4260 ft.             |
| Drilling Contractor: Landrill Exploration      | Driller: J. Lemmon                       |
| Mud Products: 6 Bags Super Gel 2 Quart Polymer | 2 Bags Lost Circulation Material         |
| Bit Size: 8 Inch                               |  |
| Drilling Begun: 8/24/2010                      | Drilling Completed On: 8/26/2010         |
| Completed Formation: Brule                     | Depth Drilled: 420 ft.                   |
| Casing Diameter: 4.95 inch O.D.                | Casing Type: White Certalok              |
| Casing Depth: 279 ft.                          | Basket Depth: N/A ft.                    |
| Packer Type: Johnson K-packer                  | Packer Depth: 275 ft.                    |
| Centralizer Depths: 20, 40, 100, 160, 220 Ft   |  |
| Screen Size: 3 inch by 020 inch                | Gravel Size:                             |
| Screened Interval(s): 285 ft 365 ft.           | ft ft.                                   |
| ft ft.   | ft ft.                                   |
| Completed Formation Upper Boundary: 270 ft.    | Lower Boundary: 400 ft.                  |
| Cement Contractor: Crow Butte Resources        | Operator: Klein                          |
| Estimated Cement Volume: 10.8 bbls.            | Actual Cement Volume Used: 16.2          |
| Cement Density: 12.4 lbs/gal                   | Water Volume Used: 11.6 bbls             |
| Cement Type/Class: I/II API                    | Additives: 500 lbs. Salt 500 lbs. Benton |
| Cement Circulated to Surface: 0 bbls.          | Density At Surface: 9 lbs/               |
| Logging Contractor: Century Geophysical Corp.  | Operator: Dunn                           |
| Unit No.: 0001                                 | Probe No.: 9055C                         |
| Log Type: Gamma, SP, Resistance, Deviation     |  |
| Well Deviation: 1.2 ft. at 342.2 degrees       |  |
| Remarks: Tremmied 4 bbls to surface            |  |
|  | · ·                                      |
|  |  |

Certification:

Representing:

On:

This report was filled out by:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Wade Beins

Crow Butte Resources, Inc.

By: Wade Beins

Title : Senior Geologist Date:

### Well Completion Report

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Ground Elevation: 4322 ft. Drilling Contractor: Landrill Exploration Mud Products: 7 Bags Super Gel 2 Quart Polymer Bit Size: 8 Inch **Drilling Begun:** 8/25/2010 **Completed Formation:** Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 339 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 338 ft. -398 ft. ft. ft. Completed Formation Upper Boundary: 330 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 13.1 bbls. Cement Density: 12.3 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 0 bbls. Logging Contractor: Century Geophysical Corp. 0001 Unit No.: Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 2.7 ft. at 300.1 degrees Remarks: Tremmied 3 bbls to surface

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Senior Geologist

May 27, 2011

By: Wade Beins Title : Date:

Permit No. NE0122611

Project:Crow ButteWell No.BOW-2010-2Wellhead Elevation:4323Driller:J. Lemmon1 Bags Lost Circulation Material

Drilling Completed On:8/27/2010Depth Drilled:420 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:328 ft.

Gravel Size: ft. ft. ft. ft. Lower Boundary: 410 ft. Klein Operator: Actual Cement Volume Used: 19.6 bbls. Water Volume Used: 14.1 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 9.4 lbs/gal Operator: Dunn 9055C Probe No.:



Company: Crow Butte Resources. Inc. Well Type: Production/Injection Monitor X 4350 ft. Ground Elevation: Drilling Contractor: Landrill Exploration Mud Products: 6 Bags Super Gel 1 Quart Polymer Bit Size: 8 Inch Drilling Begun: 8/20/2010 **Completed Formation:** Brule Casing Diameter: 4.95 inch O.D. 339 ft. Casing Depth: Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 346 ft. -416 ft. ft. ft. Completed Formation Upper Boundary: 330 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 13.1 bbls. Cement Density: 12.2 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 4 bbls. Century Geophysical Corp. Logging Contractor: 0001 Unit No.: Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 3.6 ft. at 320.7 degrees Remarks:

 Project:
 Crow Butte

 Well No.
 BOW-2010-3

 Wellhead Elevation:
 4350 ft.

 Driller:
 L. Corbin

 2 Bags Lost Circulation Material

Drilling Completed On:8/24/2010Depth Drilled:450 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:336 ft.

| Gravel Size: |               |             |           |
|--------------|---------------|-------------|-----------|
| ft           | ft.           |             |           |
| ft           | ft.           |             |           |
| Lower Bour   | ndary:        | 440 ft.     |           |
| Operator:    | Klein         |             |           |
| Actual Cem   | ent Volume Us | ed: 1       | 9.6 bbls. |
| Water Volu   | me Used:      | 14.1        | bbls.     |
| Additives:   | 500 lbs. Salt | 500 lbs. Be | entonite  |
| Density At S | Surface:      | 12.2        | lbs/gal   |
| Operator:    | Dunn          |             |           |
| Probe No.:   | 9055C         |             |           |
|              |               |             |           |

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

Wade Beins

By:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Title : Ade Beins Date:

le : Senior Geologist

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Monitor Ground Elevation: 4162 ft. Drilling Contractor: Landrill Exploration **Mud Products:** 6 Bags Super Gel Bit Size: 8 Inch Drilling Begun: 9/10/2010 **Completed Formation:** Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 249 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220 Ft

Screen Size: 3 inch by .020 inch 250 ft. -310 ft. Screened Interval(s): ft. ft. 240 ft. **Completed Formation Upper Boundary:** Cement Contractor: Crow Butte Resources Estimated Cement Volume: 9.6 bbls. Cement Density: 12.3 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: bbls. 3 Logging Contractor: Century Geophysical Corp. 0001 Unit No.: Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 18 ft. at 68 degrees Remarks:

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

May 27, 2011

#### Permit No. NE0122611

 Project:
 Crow Butte

 Well No.
 BOW-2010-4

 Wellhead Elevation:
 4163 ft.

 Driller:
 J. Lemmon

 1 Bags Lost Circulation Material

Drilling Completed On:9/13/2010Depth Drilled:310 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:240 ft.

Gravel Size: ft. ft. ft. ft. Lower Boundary: 300 ft. Klein **Operator:** Actual Cement Volume Used: 14.4 bbls. Water Volume Used: 10.4 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.6 lbs/gal **Operator:** Dunn Probe No.: 9055C



4163 ft.

3/17/2011

Well Completion Report

Company: Crow Butte Resources. Inc. Project: Crow Butte BOW-2010-4A Well Type: Production/Injection Well No. Monitor х Ground Elevation: 4162 ft. Wellhead Elevation: Drilling Contractor: Landrill Exploration Driller: S. Osmotherly 1 Bags Lost Circulation Material Mud Products: 5 Bags Super Gel 1 Quart Polymer Bit Size: 8 Inch 3/15/2011 Drilling Completed On: **Drilling Begun:** 400 ft. **Completed Formation:** Depth Drilled: Brule Casing Diameter: 4.95 inch O.D. Casing Type: Casing Depth: 249 ft. Basket Depth: N/A Packer Type: Johnson K-packer Packer Depth: 20, 40, 100, 160, 220 Ft Centralizer Depths: Screen Size: 3 inch by .020 inch Gravel Size: 261 ft. -Screened Interval(s): 311 ft. ft. ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 240 ft. Lower Boundary: Cement Contractor: Crow Butte Resources Klein **Operator:** Estimated Cement Volume: 9.6 bbls. Cement Density: 12.1 lbs/gal Water Volume Used: Cement Type/Class: I/II API Cement Circulated to Surface: 1/2 bbls. Density At Surface: Logging Contractor: Century Geophysical Corp. Operator: Dunn Unit No.: 0001 Probe No.: 9055C Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 9.8 ft. at 244.2 degrees Remarks: Tremmied 5 bbls to surface

White Certalok ft. 241 ft. 390 ft. Actual Cement Volume Used: 14.4 bbls. 10.4 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite 10 lbs/gal

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Monitor Ground Elevation: 4125 ft. Drilling Contractor: Landrill Exploration 22 Bags Super Gel Mud Products: Bit Size: 8 Inch Drilling Begun: 9/28/2010 **Completed Formation:** Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 169 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 177 ft. 237 ft. ft. ft. Completed Formation Upper Boundary: 160 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 6.6 bbls. Cement Density: 12.3 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. 0001 Unit No.: Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 5.3 ft. at 87 degrees Remarks:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

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Title : By: Wade Beins Date:

#### Permit No. NE0122611

Project:Crow ButteWell No.BOW-2010-5Wellhead Elevation:4126 ft.Driller:G. Krotz8 Bags Lost Circulation Material

Drilling Completed On:9/30/2010Depth Drilled:340 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:157 ft.

Gravel Size: ft. ft. ft. ft. Lower Boundary: 330 ft. Operator: Klein Actual Cement Volume Used: 9.8 bbls. 7.1 bbls. Water Volume Used: Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.7 lbs/gal Operator: Dunn Probe No.: 9055C

May 27, 2011

Senior Geologist



#### Well Completion Report

9.3 bbls.

6.7 bbls.

8.9 lbs/gal

Company: Crow Butte Resources. Inc. Project: Crow Butte BOW-2010-6 Well Type: Production/Injection Well No. Monitor х 4101 ft. Ground Elevation: 4099 ft. Wellhead Elevation: Driller: Drilling Contractor: Landrill Exploration G. Krotz Mud Products: 2 Quart Polymer 2 Bags Lost Circulation Material 7 Bags Super Gel Bit Size: 8 Inch 9/24/2010 Drilling Completed On: 9/28/2010 Drilling Begun: Completed Formation: Brule Depth Drilled: 300 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok Casing Depth: 159 ft. Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 150 ft. 20, 40, 100 Ft Centralizer Depths: Gravel Size: Screen Size: 3 inch by .020 inch 160 ft. ft. -Screened Interval(s): 220 ft. · ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 150 ft. Lower Boundary: 300 ft. Cement Contractor: Crow Butte Resources Operator: Klein Estimated Cement Volume: Actual Cement Volume Used: 6.2 bbls. Cement Density: 12 lbs/gal Water Volume Used: I/II API Additives: 500 lbs. Salt 500 lbs. Bentonite Cement Type/Class: Cement Circulated to Surface: 0 bbls. **Density At Surface:** Logging Contractor: Century Geophysical Corp. Operator: Dunn Unit No.: 0001 Probe No.: 9055C Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 4.3 ft. at 158.1 degrees Remarks: Tremmied 8 bbls to surface

Certification:

Representing:

On:

This report was filled out by:

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Date:

Wade Beins

Crow Butte Resources, Inc.

By: Wade Beins

Title : Senior Geologist

Crow Butte Resources. Inc. Company: Well Type: Production/Injection Monitor х 4248 ft. Ground Elevation: Drilling Contractor: Landrill Exploration Mud Products: 13 Bags Super Gel Bit Size: 8 Inch Drilling Begun: 3/21/2011 **Completed Formation:** Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 259 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220 Ft

Screen Size: 3 inch by .020 inch 267 ft. -Screened Interval(s): 347 ft. ft. ft. 260 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 10.0 bbls. Cement Density: 13.6 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 5.7 ft. at 111.8 degrees Remarks:

Permit No. NE0122611

Project:Crow ButteWell No.BOW-2010-7Wellhead Elevation:4248Driller:L. Corbin1 Bags Lost Circulation Material

Drilling Completed On:3/23/2011Depth Drilled:380 ft.Casing Type:White CertalokBasket Depth:N/Aft.Packer Depth:247 ft.

Gravel Size: ft. ft. ft. ft. Lower Boundary: 370 ft. **Operator:** Klein Actual Cement Volume Used: 15.0 · bbls. 10.8 bbls. Water Volume Used: Additives: 500 lbs. Salt 500 lbs. Bentonite 13.1 lbs/gal Density At Surface: Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

#### Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

Company: Crow Butte Resources. Inc. Project: Crow Butte Well No. BOW-2010-8 Well Type: Production/Injection Ground Elevation: 4366 ft. Wellhead Elevation: Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 5 Bags Super Gel 1 Quart Polymer Bit Size: 8 Inch Drilling Begun: 3/22/2011 Drilling Completed On: Completed Formation: Brule Depth Drilled: 4.95 inch O.D. Casing Diameter: Casing Type: Casing Depth: 349 ft. N/A ft. Basket Depth: Johnson K-packer Packer Depth: 336 ft. Packer Type: Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft Screen Size: 3 inch by .020 inch Gravel Size: 356 ft. -Screened Interval(s): 416 ft. ft. ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 410 ft. Lower Boundary: Cement Contractor: Crow Butte Resources Operator: Klein Estimated Cement Volume: 13.5 bbls. Actual Cement Volume Used: 12.3 lbs/gal Cement Density: Water Volume Used: I/II API Cement Type/Class: Additives: 5 Cement Circulated to Surface: bbls. Density At Surface: Logging Contractor: Century Geophysical Corp. Operator: Dunn Unit No.: 0001 Probe No.: 9055C Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 10.1 ft. at 352.9 degrees Remarks:

4367 ft. 1 Bags Lost Circulation Material 3/24/2011

420 ft. White Certalok

410 ft. 20.2 bbls. 14.5 bbls. 500 lbs. Salt 500 lbs. Bentonite 12 lbs/gal

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

#### Permit No. NE0122611

| Company: Crow Butte Resources. Inc.           | Project: Crow Butte                         |
|---|---|
| Well Type: Production/Injection Monitor X     | Well No. Walters 2-720                      |
| Ground Elevation: 4205 ft.                    | Wellhead Elevation: 4205 ft.                |
| Drilling Contractor: Landrill Exploration     | Driller: S. Osmotherly                      |
| Mud Products:                                 |   |
| Bit Size: 8 Inch                              | · · · · · · · · · · · · · · · · · · ·       |
| Drilling Begun: 6/29/2007                     | Drilling Completed On: 7/1/2007             |
| Completed Formation: Brule/Arikare            | Depth Drilled: 240 ft.                      |
| Casing Diameter: 4.95 inch O.D.               | Casing Type: White Certalok                 |
| Casing Depth: 79 ft.                          | Basket Depth: N/A ft.                       |
| Packer Type: Johnson K-packer                 | Packer Depth: 75 ft.                        |
| Centralizer Depths: 20,40,60                  |   |
|   |   |
| Screen Size: 3 inch by .020 inch              | Gravel Size:                                |
| Screened Interval(s): 85 ft 225 ft.           | ft ft.                                      |
| ft ft.  | ft ft.                                      |
| Completed Formation Upper Boundary: 80 ft.    | Lower Boundary: 224 ft.                     |
| Cement Contractor: Crow Butte Resources       | Operator: Klein                             |
| Estimated Cement Volume: 3.1 bbls.            | Actual Cement Volume Used: 4.7 bbls.        |
| Cement Density: Not Avai lbs/gal              | Water Volume Used: 3.4 bbls.                |
| Cement Type/Class: I/II API                   | Additives: 500 lbs. Salt 500 lbs. Bentonite |
| Cement Circulated to Surface: Not Avai bbls.  | Density At Surface: Not Availa lbs/gal      |
| Logging Contractor: Century Geophysical Corp. | Operator: Dunn                              |
| Unit No.: 0001                                | Probe No.: 9055C                            |
| Log Type: Gamma, SP, Resistance, Deviation    |   |
| Well Deviation: 0.01 ft. at 0 degrees         |   |
| Remarks:                                      |   |
| · · · ·                                       |   |

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

#### Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

September 28, 2011



#### Permit No. NE0122611

4246 ft.

7/6/2006

4.7 bbls.

3.4 bbls.

Company: Crow Butte Resources. Inc. Project: Crow Butte Well No. Well Type: Production/Injection Walters 1-721 Monitor х Ground Elevation: Wellhead Elevation: 4245 ft. Drilling Contractor: Landrill Exploration Driller: S. Osmotherly Mud Products: Bit Size: 8 Inch Drilling Begun: 7/4/2006 Drilling Completed On: **Completed Formation:** Brule Depth Drilled: 360 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok Casing Depth: 79 ft. Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 75 ft. Centralizer Depths: 20,40,60 Screen Size: 3 inch by .020 inch Gravel Size: Screened Interval(s): 85 ft. -225 ft. ft. ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 80 ft. Lower Boundary: 228 ft. Cement Contractor: Crow Butte Resources Operator: Klein Estimated Cement Volume: 3.1 bbls. Actual Cement Volume Used: Cement Density: Not Avai lbs/gal Water Volume Used: Cement Type/Class: I/II API Additives: 500 lbs. Salt 500 lbs. Bentonite Cement Circulated to Surface: Not Avai bbls. Density At Surface: Not Availa lbs/gal Logging Contractor: Century Geophysical Corp. Operator: Dunn Unit No.: 0001 Probe No.: 9055C Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 0.01 ft. at 0 degrees Remarks:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

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Being

By:

Wade Beins

Title : Senior Geologist

Date:

September 28, 2011

Permit No. NE0122611

#### Well Completion Report

~ Project: Company: Crow Butte Resources. Inc. Crow Butte Well Type: Production/Injection Well No. CPW-2010-1 Monito Ground Elevation: 4260 ft. Wellhead Elevation: 4262 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 11 Bags Super Gel 4 Quart Polymer 2 Bags Lost Circulation Material Bit Size: 8 Inch **Drilling Begun:** 8/31/2010 Drilling Completed On: 9/2/2010 Depth Drilled: **Completed Formation:** Chadron 1070 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 1009 ft. Casing Depth: Basket Depth: N/A ft. 995 ft. Packer Type: Johnson K-packer Packer Depth: Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

3 inch by .020 inch Screen Size: Screened Interval(s): 1015 ft. -1048 ft. ft. ft. 1016 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 38.8 bbls. Cement Density: 12.4 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 5 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 4.1 ft. at 203.5 degrees Remarks:

#### Gravel Size: ft. ft. ft. ft. Lower Boundary: 1046 ft. Operator: Klein Actual Cement Volume Used: 58.2 bbls. Water Volume Used: 41.7 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.6 lbs/gal **Operator:** Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

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Date:

By: Wade Beins le Beine

Title : Senior Geologist



Well Completion Report

Company: Crow Butte Resources. Inc. Project: Crow Butte CPW-2010-1A Well Type: Production/Injection Well No. х Ground Elevation: 4261 ft. Wellhead Elevation: 4263 ft. Drilling Contractor: Landrill Exploration Driller: S. Osmotherly 7 Bags Super Gel 3 Bags Lost Circulation Material Mud Products: 2 Quart Polymer Bit Size: 8 Inch Drilling Begun: 3/14/2011 Drilling Completed On: 3/16/2011 Chadron Completed Formation: Depth Drilled: 1080 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 1019 ft. Casing Depth: Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 1005 ft. Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

3 inch by .020 inch Screen Size: 1025 ft. -Screened Interval(s): 1055 ft. ft. ft. Completed Formation Upper Boundary: 1024 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 39.2 bbls. Cement Density: 12.3 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: bbls. 4 Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: 24.9 ft. at Well Deviation: 153.3 degrees Remarks:

Gravel Size: ft. ft. ft. ft. Lower Boundary: 1050 ft. Operator: Klein Actual Cement Volume Used: 58.8 bbls. Water Volume Used: 42.1 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

Permit No. NE0122611

| Company:      | Crow Butte       | Resources. Inc.              |               |                         | Project:            | Crow Butte  |        |          |
|---------------|------------------|------------------------------|---------------|-------------------------|---------------------|-------------|--------|----------|
| Well Type:    | Production/Injec | tion                         | Monitor       | x                       | Well No.            | Monitor 1   |        |          |
| Ground Elev   | vation:          | 4101 ft.                     |               |                         | Wellhead E          | levation:   |        | 4102 ft. |
| Drilling Con  | tractor: La      | ndrill Exploration           |               |                         | Driller:            | G. Land     |        |          |
| Mud Prodùc    | ts:              |                              |               |                         |                     |             |        |          |
| Bit Size:     | 8 Inch           |                              |               |                         |                     |             |        |          |
| Drilling Beg  | un:              | 4/3/1989                     |               |                         | Drilling Co         | mpleted On: |        | 4/5/1989 |
| Completed F   | Formation:       | Chadron                      |               |                         | Depth Drill         | ed:         | 968    | ft.      |
| Casing Diam   | neter: 4.9       | 5 inch O.D.                  |               |                         | Casing Typ          | e: White Co | ertalo | k        |
| Casing Dept   | h:               | 905 ft.                      |               |                         | Basket Dep          | th: N/A     | ft.    |          |
| Packer Type   | : Johnson        | n K-packer                   |               |                         | Packer Dep          | th: 900     | ) ft.  |          |
| Centralizer I | Depths: 20,      | 40, 100, 160, 220, 280, 340, | , 400, 460, 5 | 520, 580, 640, 700, 760 | ), 820, 880, 940 Ft |             |        |          |

Screen Size: 3 inch by .020 inch 905 ft. -Screened Interval(s): 940 ft. ft. ft. 900 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 34.8 bbls. Cement Density: Not Avai lbs/gal Cement Type/Class: · I/II API Cement Circulated to Surface: Not Avai bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 16.4 ft. at 116 degrees Remarks:

| Gravel Size: |               |          |          |      |
|--------------|---------------|----------|----------|------|
| ft           | ft.           |          |          |      |
| ft           | ft.           |          |          |      |
| Lower Boun   | dary:         | 936 ft.  |          |      |
| Operator:    | Klein         |          |          |      |
| Actual Ceme  | ent Volume Us | ed:      | 52.2     | bbls |
| Water Volur  | ne Used:      | 37.      | 4 bbl    | s.   |
| Additives:   | 500 lbs. Salt | 500 lbs. | Bentor   | nite |
| Density At S | Surface:      | Not Ava  | ila lbs/ | gal  |
| Operator:    | Dunn          |          |          |      |
| Probe No.:   | 9055C         |          |          |      |
|              |               |          |          |      |

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:On:

#### Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

September 28, 2011



| Company: Crow Butte Resources. Inc.           | Project: Crow Butte                         |
|---|---|
| Well Type: Production/Injection Monitor X     | Well No. Monitor 2                          |
| Ground Elevation: 4197 ft.                    | Wellhead Elevation: 4198 ft.                |
| Drilling Contractor: Landrill Exploration     | Driller: G. Land                            |
| Mud Products:                                 | · · ·                                       |
| Bit Size: 8 Inch                              | ,   |
| Drilling Begun: 4/7/1989                      | Drilling Completed On: 4/9/1989             |
| Completed Formation: Chadron                  | Depth Drilled: 1030 ft.                     |
| Casing Diameter: 4.95 inch O.D.               | Casing Type: White Certalok                 |
| Casing Depth: 974 ft.                         | Basket Depth: N/A ft.                       |
| Packer Type: Johnson K-packer                 | Packer Depth: 974 ft.                       |
| Centralizer Depths: ###                       |   |
|   |   |
| Screen Size: 3 inch by .020 inch              | Gravel Size:                                |
| Screened Interval(s): 980 ft 1015 ft.         | ft ft.                                      |
| ft ft.  | ft ft.                                      |
| Completed Formation Upper Boundary: 974 ft.   | Lower Boundary: 1015 ft.                    |
| Cement Contractor: Crow Butte Resources       | Operator: Klein                             |
| Estimated Cement Volume: 37.5 bbls.           | Actual Cement Volume Used: 56.2 bbls.       |
| Cement Density: Not Avai lbs/gal              | Water Volume Used: bbls.                    |
| Cement Type/Class: I/II API                   | Additives: 500 lbs. Salt 500 lbs. Bentonite |
| Cement Circulated to Surface: Not Avai bbls.  | Density At Surface: Not Availa lbs/gal      |
| Logging Contractor: Century Geophysical Corp. | Operator: Dunn                              |
| Unit No.: 0001                                | Probe No.: 9055C                            |
| Log Type: Gamma, SP, Resistance, Deviation    |   |
| Well Deviation: 14.6 ft. at 128 degrees       | •<br>•                                      |
| Remarks:                                      |   |
|   |   |
| This report was filled out by: Wade Beins     | :   |

Certification:

Representing:

On:

Crow Butte Resources, Inc.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

inc

Wade Beins By:

Title : Senior Geologist

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Monito Ground Elevation: 4260 ft. Drilling Contractor: Landrill Exploration Mud Products: Bit Size: 8 Inch Drilling Begun: 4/14/1989 Completed Formation: Chadron Casing Diameter: 4.95 inch O.D. 1008 ft. Casing Depth: Packer Type: Johnson K-packer Centralizer Depths: ###

Screen Size: 3 inch by .020 inch 1015 ft. -1050 ft. Screened Interval(s): ft. \_ ft. 1014 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 38.8 bbls. Cement Density: Not Avai lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: Not Avai bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 13.8 ft. at 72 degrees Remarks:

#### Certification:

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Date:

By: Wade Beins

Title : Senior Geologist

May 27, 2011

#### Permit No. NE0122611

Project: Crow Butte Well No. Monitor 3 Wellhead Elevation: 4261 ft. , Driller: G. Land

Drilling Completed On:4/18/1989Depth Drilled:1070 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:1008 ft.

Gravel Size: ft. ft. ft. ft. -Lower Boundary: 1046 ft. Klein Operator: Actual Cement Volume Used: 58.1 bbls. Water Volume Used: bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite **Density At Surface:** Not Availa lbs/gal **Operator:** Dunn Probe No.: 9055C



Company: Crow Butte Resources. Inc. Project: Crow Butte Well No. Well Type: Production/Injection Monitor 4A Monito Wellhead Elevation: 4328 ft. Ground Elevation: 4326 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin 6 Bags Super Gel 3 Quart Polymer Mud Products: Bit Size: 8 Inch 11/3/2010 Drilling Completed On: 11/5/2010 Drilling Begun: Completed Formation: Chadron Depth Drilled: 1140 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 1079 ft. Casing Depth: Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 1060 ft. Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft Screen Size: 3 inch by .020 inch Gravel Size: 1080 ft. -Screened Interval(s): 1110 ft. ft. ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 1081 ft. Lower Boundary: Cement Contractor: Crow Butte Resources Klein Operator: Estimated Cement Volume: 41.5 bbls. Actual Cement Volume Used: Cement Density: 12.5 lbs/gal Water Volume Used:

Cement Type/Class: I/II API Cement Circulated to Surface: 8 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 11.3 ft. at 53.7 degrees Remarks:

1109 ft. 62.2 bbls. 44.6 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.9 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

Wade Beins

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By:

Title : Senior Geologist Date:

Permit No. NE0122611

Company: Crow Butte Resources. Inc. Project: Crow Butte Well Type: Production/Injection Well No. Monitor 5 Monitor Х 4337 ft. Wellhead Elevation: 4340 ft. Ground Elevation: Drilling Contractor: Landrill Exploration Driller: J. Lemmon Mud Products: 8 Bags Super Gel 7 Quart Polymer 3 Bags Lost Circulation Material Bit Size: 8 Inch Drilling Completed On: 8/30/2010 9/1/2010 Drilling Begun: **Completed Formation:** Depth Drilled: 1140 ft. Chadron Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok Casing Depth: 1069 ft. Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 1060 ft. Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 1070 ft. -1120 ft. ft. ft. Completed Formation Upper Boundary: 1066 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 41.1 bbls. Cement Density: 12.2 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. 0001 Unit No.: Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 27 ft. at 142.1 degrees Remarks:

Gravel Size: ft. ft. ft. ft. 1116 ft. Lower Boundary: **Operator:** Klein Actual Cement Volume Used: 61.7 bbls. Water Volume Used: 44.2 bbls. 500 lbs. Salt 500 lbs. Bentonite Additives: Density At Surface: 11.5 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins Date:

Title : Senior Geologist



Company: Crow Butte Resources. Inc. Project: Crow Butte Well No. Monitor 6 Well Type: Production/Injection Monitor х Wellhead Elevation: 4215 ft. Ground Elevation: 4214 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 13 Bags Super Gel 8 Quart Polymer 4 Bags Lost Circulation Material Bit Size: 8 Inch 8/18/2010 Drilling Begun: 8/16/2010 Drilling Completed On: Completed Formation: Chadron Depth Drilled: 1050 ft. Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 989 ft. ft. Casing Depth: Basket Depth: N/A Packer Type: Johnson K-packer Packer Depth: 982 ft. Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 992 ft. -1025 ft. ft. ft. 982 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 38.1 bbls. Cement Density: 12 'lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 17.1 ft. at 37.3 degrees Remarks:

Gravel Size: ft. ft. ft. ft. -Lower Boundary: 1023 ft. Operator: Klein Actual Cement Volume Used: 57.1 bbls. Water Volume Used: 40.9 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 10 lbs/gal Operator: Dunn 9055C Probe No.:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Permit No. NE0122611

**Well Completion Report** 

Company: Crow Butte Resources. Inc. Project: Crow Butte Well Type: Production/Injection Well No. Monitor 7 Monitor х Ground Elevation: 4243 ft. Wellhead Elevation: 4244 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: **3 Bags Lost Circulation Material** 6 Bags Super Gel 6 Quart Polymer Bit Size: 8 Inch Drilling Begun: 8/20/2010 Drilling Completed On: 8/23/2010 **Completed Formation:** Chadron Depth Drilled: 1080 ft. 4.95 inch O.D. Casing Diameter: Casing Type: White Certalok 999 ft. N/A ft. Casing Depth: Basket Depth: Packer Type: Johnson K-packer Packer Depth: 993 ft. 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft Centralizer Depths: Gravel Size: Screen Size: 3 inch by .020 inch Screened Interval(s): 1003 ft. -1046 ft. ft. ft. ft. ft. ft. ft. -Completed Formation Upper Boundary: 1007 ft. Lower Boundary: 1044 ft. Cement Contractor: Crow Butte Resources Operator: Klein Actual Cement Volume Used: Estimated Cement Volume: 38.4 bbls. Cement Density: Water Volume Used: 11.7 lbs/gal Cement Type/Class: I/II API Additives: Cement Circulated to Surface: 2 bbls. Density At Surface: Logging Contractor: Century Geophysical Corp. **Operator:** Dunn Unit No.: 0001 Probe No.: 9055C Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 32.2 ft. at 159.9 degrees Remarks:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

57.6 bbls. 41.3 bbls. 500 lbs. Salt 500 lbs. Bentonite 10.2 lbs/gal

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist



Well Completion Report

| Company:       | Crow Bu      | tte Resources | s. Inc.՝   |         |            |            | Project:      | Crov      | w Butte  |          |         |
|----------------|--------------|---------------|------------|---------|------------|------------|---------------|-----------|----------|----------|---------|
| Well Type:     | Production/I | njection      |            | Monitor | x          |            | Well No.      | Mon       | itor 8   |          |         |
| Ground Eleva   | tion:        | 4             | 4352 ft.   |         |            |            | Wellhead El   | evatic    | on:      | 4        | 354 ft. |
| Drilling Contr | ractor:      | Landrill Exp  | loration   |         |            |            | Driller:      | L. C      | orbin    |          |         |
| Mud Products   | s: 10        | Bags Super (  | Gel        | 4 Q1    | uart Polyn | mer        | 4 Bags Lo     | ost Cir   | culation | Materia  | 1       |
| Bit Size:      | 8 Inch       | -             |            |         |            |            |               |           |          |          |         |
| Drilling Begu  | n:           | 8/27/2        | 2010       |         |            |            | Drilling Cor  | nplete    | d On:    | 8/       | 30/2010 |
| Completed Fo   | ormation:    | Chadron       | I .        |         |            |            | Depth Drille  | ed:       |          | 1150 fi  |         |
| Casing Diame   | eter:        | 4.95 inch O.  | D.         |         |            |            | Casing Type   | <b>::</b> | White C  | ertalok  |         |
| Casing Depth   | : .          | 1079 ft.      |            |         |            |            | Basket Dept   | h:        | N/A      | ft.      |         |
| Packer Type:   | John         | son K-packe   | <b>r</b> . |         |            |            | Packer Dept   | h:        | 1067     | 7 ft.    |         |
| Centralizer De | epths:       | 20, 40, 100,  | 160, 220,  | 280, 34 | 0, 400, 4  | 60, 520, 5 | 80, 640, 700, | , 760,    | 820, 880 | , 940, 1 | 000 Ft  |

Screen Size: 3 inch by .020 inch Screened Interval(s): 1087 ft. -1127 ft. ft. ft. Completed Formation Upper Boundary: 1085 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 41.5 bbls. Cement Density: 12.8 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 5 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 38.5 ft. at 173.6 degrees Remarks:

Gravel Size: ft. ft. ft. ft. Lower Boundary: 1123 ft. Operator: Klein Actual Cement Volume Used: 62.2 bbls. Water Volume Used: 44.6 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.5 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

Certification:

By:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Wade Beins Title : Date:

e: Senior Geologist

Permit No. NE0122611

Well Completion Report

Project: Crow Butte Company: Crow Butte Resources. Inc. Well Type: Production/Injection Well No. Monitor 9 Monitor х Wellhead Elevation: 4366 ft. Ground Elevation: 4365 ft. Drilling Contractor: Landrill Exploration Driller: S. Osmotherly Mud Products: 5 Bags Super Gel 2 Quart Polymer 2 Bags Lost Circulation Material Bit Size: 8 Inch 10/20/2010 Drilling Completed On: 10/22/2010 Drilling Begun: **Completed Formation:** Depth Drilled: 1170 ft. Chadron 4.95 inch O.D. Casing Type: White Certalok Casing Diameter: ft. Casing Depth: 1099 ft. Basket Depth: N/A Packer Depth: 1080 ft. Packer Type: Johnson K-packer 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000, 1060 Ft Centralizer Depths:

3 inch by .020 inch Screen Size: 1110 ft. 1140 ft. Screened Interval(s): ft. ft. 1116 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 42.3 bbls. Cement Density: 11.8 lbs/gal Cement Type/Class: I/II API bbls. Cement Circulated to Surface: 1 Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 20.8 ft. at 124.6 degrees Remarks:

Gravel Size: ft. ft. ft. ft. -Lower Boundary: 1137 ft. Operator: Klein Actual Cement Volume Used: 63.4 bbls. Water Volume Used: 45.4 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 10 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Well Completion Report

Crow Butte Resources. Inc. Project: Crow Butte Company: Well Type: Production/Injection Well No. Monitor 10 Ground Elevation: 4160 ft. Wellhead Elevation: 4161 ft. Drilling Contractor: Landrill Exploration Driller: J. Lemmon Mud Products: 4 Bags Super Gel 6 Quart Polymer 1 Bags Lost Circulation Material Bit Size: 8 Inch 9/10/2010 Drilling Completed On: 9/13/2010 Drilling Begun: **Completed Formation:** Depth Drilled: 1000 ft. Chadron 4.95 inch O.D. Casing Diameter: Casing Type: White Certalok Casing Depth: 929 ft. N/A Basket Depth: ft. Packer Type: Johnson K-packer 915 ft. Packer Depth: Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 935 ft. -970 ft. ft. ft. Completed Formation Upper Boundary: 931 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 35.7 bbls. Cement Density: 11.7 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 0 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 11.2 ft. at 252.6 degrees Remarks: Tremmied 5 bbls to surface

Gravel Size: ft. - : ft. ft. ft. 979 ft. Lower Boundary: Klein Operator: Actual Cement Volume Used: 53.6 bbls. Water Volume Used: 38.4 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite **Density At Surface:** 9.8 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Wade Beins

Title : Senior Geologist Date:

Permit No. NE0122611

### Well Completion Report

Company: Crow Butte Resources. Inc. Project: Crow Butte Well Type: Production/Injection Well No. Monitor 11 Monitor Wellhead Elevation: 4126 ft. Ground Elevation: 4124 ft. Drilling Contractor: Landrill Exploration Driller: G. Krotz 6 Bags Lost Circulation Material Mud Products: 10 Bags Super Gel 5 Quart Polymer Bit Size: 8 Inch 10/4/2010 Drilling Completed On: 10/6/2010 Drilling Begun: **Completed Formation:** Depth Drilled: 980 ft. Chadron Casing Type: Casing Diameter: 4.95 inch O.D. White Certalok Casing Depth: 899 ft. Basket Depth: N/A ft. Packer Depth: 892 ft. Packer Type: Johnson K-packer 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820 Ft Centralizer Depths:

Screen Size: 3 inch by .020 inch Screened Interval(s): 902 ft. -947 ft. ft. ft. Completed Formation Upper Boundary: 901 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 34.6 bbls. Cement Density: 12.1 lbs/gal Cement Type/Class: I/II API 3 Cement Circulated to Surface: bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 21.9 ft. at 155.2 degrees Remarks:

Gravel Size: ft. ft. ft. ft. Lower Boundary: 948 ft. Operator: Klein Actual Cement Volume Used: 51.9 bbls. Water Volume Used: 37.2 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite 10.5 lbs/gal Density At Surface: Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

Wade Beins By:

Title : Senior Geologist

## Appendix F

## Pumping Test #8 Report



## Marsland Hydrologic Testing Report -Test # 8

## Marsland Expansion Area, Dawes County, NE

## **FINAL REPORT**

July 8, 2011

Prepared By:

## AQUI-VER, INC.

4800 Wadsworth Boulevard Suite 400 Wheat Ridge, CO 80033 USA



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Marsland Hydrologic Test Report #8

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### 1. EXECUTIVE SUMMARY

As part of Cameco Resources U.S. Nuclear Regulatory Commission License Amendment Application to conduct In-Situ Recovery operations in the Marsland Expansion Area, a regional groundwater pumping test was completed to:

- 1. Demonstrate hydraulic communication between the production zone pumping well and the surrounding production zone observation wells;
- 2. Assess the hydrologic characteristics of the production zone aquifer within the test area;
- 3. Evaluate the presence or absence of hydrologic boundaries in the production zone; and
- 4. Demonstrate sufficient confinement between the production zone and the overlying aquifer for the purpose of ISR mining.

The pumping test at the Marsland Expansion Area utilized one pumping well (CPW-1A) and nine observation wells (CPW-1 and Monitor-2 through Monitor-8) completed in the Basal Chadron Sandstone, as well as three overlying observations wells (BOW-1 through BOW-3) completed in the Brule Formation. The total length of the test was 4.29 days. The average discharge rate was 27.08 gallons per minute (gpm).

During the test, drawdown of greater than 0.8 feet was observed in all Basal Chadron Sandstone observation wells included in the formal observation well network. Based on the drawdown response observed at the most distant observation well locations (Monitor-2 and Monitor-8), the radius of influence of the test is slightly more than 8,800 feet. The drawdown response measured in all Basal Chadron Sandstone observation wells demonstrates hydraulic communication between the production zone pumping well and the surrounding observation wells across the entire test area.

No drawdown was observed in overlying Brule Formation observation wells during the test period. This observation supports the conclusion that adequate confinement exists between the overlying Brule Formation and the Basal Chadron production zone.

Drawdown and recovery data collected from the monitor wells were graphically analyzed to determine the aquifer properties including transmissivity and storativity. The methods of analysis included the Theis (1935) drawdown and recovery methods, and the Jacob Straight-Line Distance-Drawdown method (Cooper and Jacob, 1946).

Transmissivities for the Basal Chadron Sandstone calculated from the drawdown and recovery data ranged from 230 ft<sup>2</sup>/day to 2,469 ft<sup>2</sup>/day, respectively. A value of 1,012 ft<sup>2</sup>/day is believed representative of the average transmissivity over the radius of influence. Based on an average net sand thickness of 40 feet, the average hydraulic conductivity of the Basal Chadron Sandstone is 25 ft/day. Hydraulic conductivities of the aquifer materials in the vicinity of the pumped well (including wells CPW-1A, CPW-1, and Monitor-3) were approximately 3 to 9 times less than those calculated for other wells in the pumping test area based on both the drawdown and recovery analyses, as indicated by an apparent higher conductivity boundary condition effect (flattening of drawdown and recovery curves) in these wells. The storativity calculated from the drawdown data ranged from 1.7E-03 to 8.32E-05, with an average value of 2.56E-04 for the entire test area.

Marsland Hydrologic Test Report #8



The transmissivity of the Basal Chadron Sandstone within the Marsland Expansion Area investigated herein is higher on average than the existing Class III Permit Area and the Three Crow and North Trend Expansion Areas.

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## 2. INTRODUCTION

Cameco Resources intends to submit an U.S. Nuclear Regulatory Commission (NRC) License Amendment Application to conduct in-situ recovery (ISR) operations in the Marsland Expansion Area, which is located approximately seven miles southeast of the current Class III Underground Injection Control (UIC) permit area and about four miles northeast of Marsland, Nebraska (**Figure 1**). As part of the amendment application, and in accordance with Nebraska Department of Environmental Quality (NDEQ) regulations, a regional groundwater pumping test was completed in the Marsland Expansion Area as described herein.

## 2.1 Purpose and Objectives

As part of the NRC License Amendment Application to conduct ISR operations in the Marsland Expansion Area, a regional groundwater pumping test was completed to:

- 1. Demonstrate hydraulic communication between the production zone pumping well and the surrounding production zone observation wells;
- 2. Assess the hydrologic characteristics of the production zone aquifer within the test area;
- 3. Evaluate the presence or absence of hydrologic boundaries in the production zone; and
- 4. Demonstrate sufficient confinement between the production zone and the overlying aquifer for the purpose of ISR mining.

The pumping test described herein was performed in accordance with the NDEQ approved Regional Pumping Test Plan dated September 27, 2010 and subsequent approved changes to the Regional Pumping Test Plan dated March 16, 2011. In accordance with state regulations and Cameco Resources existing Class III UIC permit, the following information is included as part of the Hydrologic Test Report requirements:

- A description and maps of the proposed permit area;
- Construction details for pumping and observation wells;
- Description of site stratigraphy and hydrogeology;
- Geologic cross-sections;
- Description of pumping test configuration and equipment;
- Discussion of pumping test performance and methods used for data analysis;
- Presentation of the results of the pumping test, including best estimates of transmissivity, hydraulic conductivity, and storativity for all observation wells and the pumped well;
- Type-curve match for each monitoring well used to develop best estimates of aquifer parameters;
- Assessment demonstrating confinement of the ore-bearing aquifer;
- Contour map showing drawdown observed at the end of the pumping period;
- Calculation of radius of influence; and



 Compilation of water level (drawdown) and barometric pressure data for all wells, including pre-test, pumping test, and recovery data

Upon approval of the Hydrologic Test Report and other related permit documentation, NDEQ will provide Cameco Resources the authority to commence mining operations within the radius of influence (ROI) defined by the results of this hydrologic test report. Additional pumping tests will be necessary if ISR occurs outside of the demonstrated ROI. Additional approval must be granted from the NRC. This report addresses only the hydrologic testing activities and results. Baseline water quality data and subsequent discussion will be submitted under a separate cover.

## 2.2 Report Organization

This report includes nine sections. Subsurface geology and site stratigraphy are discussed in **Section 3**. Section 4 presents historical pumping test results. Information related to the monitor well locations and completions is included in **Section 5**. Data Collection and Field Procedures are presented in **Section 6**. Test results and analytical procedures are presented in **Section 7**. Conclusions and references are included in **Sections 8 and 9**, respectively.







## 3. GENERAL SITE STRATIGRAPHY

The subsurface stratigraphy of the Marsland Expansion Area is based on preliminary test hole drilling conducted at the Marsland property and correlation of regional geologic formations observed at the current Class III permit area and proposed expansion areas. A generalized stratigraphic section and well completion intervals for the Marsland Expansion Area is provided in **Table 1**. A cross-section location map is provided in **Figure 2**. Geologic cross-sections are included in **Figures 3** through **8**. Structure contour maps of the top of the Basal Chadron Sandstone and underlying Pierre Shale are included in **Figures 9** and **10**, respectively. Isopach maps depicting the thickness of the Basal Chadron Sandstone and overlying Upper/Middle Chadron confining unit are included in **Figures 11** and **12**, respectively.

Ore-grade uranium deposits underlying the Marsland Expansion Area are located in the Basal Chadron Sandstone, which averages 50 feet in thickness (typically 40 feet net sand) and occurs at depths ranging from 900 to more than 1,100 feet below ground surface. Ore-grade deposits are generally located along a northwest-southeast trend in the Basal Chadron Sandstone. The width of the mineralized zone is generally less than 1,500 feet along this trend. Ore-grade deposits are located primarily in the lower portion of the Sandstone, although ore-grade deposits may occur locally throughout the section. Based on drilling to date, the highest concentration of mineralization is located in the north, northcentral, and southern portion of the expansion area.

The Basal Chadron Sandstone does not contain distinct clay layers that can be correlated over significant distances, and therefore represents a single sand "package" with some interbedded clay lenses. The Upper/Middle Chadron Formation (confining unit), consisting primarily of clay, claystone and siltstone, and separates the Basal Chadron Sandstone from the overlying Brule Formation. The Upper/Middle Chadron confining unit is approximately 700 feet thick in the Marsland Expansion Area. The overlying Brule Formation consists primarily of interbedded siltstone and clayey sandstone and is approximately 150 feet thick in the Brule Formation is overlain locally by the Arikaree Formation, a calcareous sandstone with interbedded siltstone and claystone generally less than 150 feet thick in the Marsland Expansion Area.

No significant sands have been identified within the Upper/Middle Chadron Formation that can be correlated over any significant distance. Hence, wells installed in the overlying Brule Formation were monitored as overlying aquifers during the pumping test.





## 4. SUMMARY OF HISTORICAL TESTING RESULTS

During the initial permitting and development of the Crow Butte mine, four pumping tests (referred to as Tests #1 though #4) were performed in the current UIC Permit (NE0122611) area. The tests were performed to: 1) confirm confinement of the ore-bearing aquifer, and 2) assess the hydraulic characteristics of the Basal Chadron Sandstone. Three additional pumping tests (#5 though #7) were performed to characterize the Basal Chadron Sandstone in the North Trend and Three Crow expansion areas. **Table 2** summarizes historical testing results.

Results of previous testing indicate the Basal Chadron Sandstone is relatively homogeneous and isotropic within the current Class III UIC permit area (e.g. the hydraulic conductivity is reasonably uniform with respect to location and direction), although higher values of hydraulic conductivity (permeability) are observed in the southern portion of the Class III UIC permit area (Test #4).

In the Three Crow area, values of hydraulic conductivity, transmissivity, and storage are similar to the permitted Class III UIC area, although the Basal Chadron Sandstone at Three Crow is divided locally into Upper and Lower Basal Sand units. The stratigraphy of the Basal Chadron Sandstone in the North Trend area is more complex and anisotropic than observed at other test locations.

In addition to the aforementioned historical pumping tests, a failed pumping test was undertaken in the Marsland Expansion Area on November 18, 2010. The pumping test was terminated after only 19 hours of operation due to pump failure. Although data collected as part of the failed pumping test was not formally analyzed, information gained from the failed test was used to modify the Pumping Test Plan for the subsequent successful test described herein.

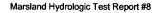


## 5. MONITORING WELL LOCATIONS, INSTALLATION AND COMPLETION

As part of the Marsland Pumping Test #8, Cameco Resources installed seven new wells in the Basal Chadron Sandstone (CPW-1, CPW-1A, Monitor-4A, Monitor-5 through Monitor-8) and redeveloped two existing wells (Monitor-2 and Monitor-3). Of these wells, only the pumped well (CPW-1A) and Monitor-3 through Monitor-7 were included in the formal Basal Chadron Sandstone observation well network. Cameco also installed three new wells in the overlying Brule Formation (BOW-1 through BOW-3). The pumping and observation wells are located in Sections 1, 2, and 12 of Township 29 North, Range 51 West, and Section 18 of Township 29 North, Range 50 West (Figure 1).

Because the underlying Pierre Shale is over 1,500 feet thick, no underlying monitoring wells were warranted. The depth to water in the Basal Chadron Sandstone is approximately 450 feet bgs.

Table 3 summarizes well construction details for all test wells and Figure 13 illustrates the locations of these wells. Appendix A includes the NDEQ well completion reports. The nature and thickness of the subsurface formations encountered during the installation of monitoring wells is representative of the stratigraphic section presented in Table 1. Monitoring wells were located at various distances and directions from the pumping well (CPW-1A) such that sufficient drawdown would be observed to allow hydraulic properties of the Basal Chadron Sandstone to be determined over the entire test area.





## 6. FIELD PROCEDURES AND DATA COLLECTION

The following tasks were accomplished as part of the pumping test field data collection program:

- Installation of In-Situ brand Level TROLL<sup>®</sup> data loggers (vented) into the observation wells and pumping well to record changes in water levels during the test;
- Measurement of baseline (pre-test) water levels and barometric pressure for a period of at least one week prior to the test;
- Periodic measurement of the pumping rate from the pumping well, and
- Collection of water level and barometric pressure data throughout the background, pumping, and recovery periods.

## 6.1 **Pumping Test Equipment**

Marsland Pumping Test #8 was performed using a 4-inch diameter 10 horsepower electrical submersible pump powered by a portable generator. The pump was set in well CPW-1A at an approximate depth of 600 feet, or 150 feet below the static water level. Flow from the pump was controlled with a manual valve and surface flow measured with two flow/totalizer meters. Per NDEQ direction, discharge water was collected in FRAC tanks and trucked to the Crow Butte facility for disposal.

Water levels in the observation wells and the pumping well were measured and recorded with dedicated In-Situ brand Level TROLL<sup>®</sup> 500 and Level Troll<sup>®</sup> 700-series pressure transducers/data loggers equipped with vented cables (for barometric pressure compensation). The data loggers were programmed to automatically calibrate prior to the test, record an initial reference water level elevation (head), and measure and record water levels according to programmed linear time schedules. The pressure rating for the transducers ranged from 30 pounds per square inch (PSI) in the observation wells to 100 pounds PSI in the pumping well. A separate barometric pressure transducer/data logger was deployed near the pumping well in the center of the test area. **Table 4** summarizes the PSI range and model for each transducer deployed at the Site.

## 6.2 Data Collection

To assess pre-test baseline water level fluctuations, water level data and barometric pressure data were recorded prior to the pumping period (pre-test period). Pre-test baseline monitoring was initiated on May 6, 2011 and ran for a period of 7 days before initiating the pumping test.

All pressure transducers were programmed to record water levels every 4 minutes during the pre-test, pumping, and recovery periods with the exception of observation well CPW-1 and pumping well CPW-1A. These wells were programmed using an event schedule. The transducers checked the water level in these wells every 30 seconds and if the water level in CPW-1 changed by 0.1 feet a reading was recorded and if the water level in CPW-1A changed by 0.5 feet a reading was recorded otherwise readings were recorded every 4 minutes. **Table 4** summarizes the logging interval for each transducer deployed at the Site.

The pumping test was started at 05:00 hours on May 16, 2011 and was terminated at 12:00 hours on May 20, 2011. The total length of the test was 4.29 days. As shown in **Table 5** the average discharge rate was 27.08 gallons per minute (gpm).



## 6.3 Water Management

Pumped water was collected in on-site FRAC tanks and transported to the Crow Butte facility evaporation ponds for disposal. Approximately 167,300 gallons of groundwater was collected and disposed over the 4.29 day pumping period.

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## 7. TEST RESULTS

## 7.1 Potentiometric Surface

**Figure 14** presents the potentiometric surface for the Basal Chadron Sandstone aquifer based on the monitoring wells installed within the Marsland Expansion Area. Water levels were measured and recorded on November 12, 2010 and are summarized in **Table 6**. The pumping well for the test (CPW-1A) was installed after these measurements were recorded and is therefore not included in the data set presented in **Figure 14** and **Table 6**. The data are considered representative of static conditions within this aquifer. Based on these data, groundwater in the Basal Chadron Sandstone flows predominantly to the northwest toward the White River drainage at a lateral hydraulic gradient of 0.0004 ft/ft (slope of the potentiometric surface).

**Figure 15** presents the potentiometric surface for the overlying Brule Formation aquifer based on monitoring wells installed within the Marsland Expansion Area. Water levels were measured and recorded on November 12, 2010 and are summarized in **Table 6**. All wells measured were utilized as observation wells during the test. The data are considered representative of static conditions within this aquifer. Based on these data, groundwater in this aquifer flows predominantly to the southeast toward the Niobrara River drainage at a lateral hydraulic gradient of 0.011 ft/ft.

## 7.2 Pre-Test Baseline Trends

As discussed in **Section 6.2**, water level data were collected for a period of approximately 7 days prior to the start of the pumping test. Graphs of the pre-test, pumping and recovery water level data and barometric pressure data vs.<sup>1</sup> time are included in **Appendix B (Graphs B1** through **B12)**. Water levels were variable and did respond slightly to barometric fluctuations but were generally stable (+/- 0.9 feet) prior to the test in both the Basal Chadron Sandstone and Brule Formation aquifers.

## 7.3 Brule Formation Response (Overlying Unit)

During the test (pumping and recovery periods), no discernable drawdown or recovery response was observed in Brule observation wells. Observation wells BOW-1, BOW-2, and BOW-3 did exhibit small fluctuations in water levels during the test period; however, these fluctuations are directly related to atmospheric pressure variations and not due to drawdown from pumping, as illustrated by **Graphs B1** through **B3** in **Appendix B**.

## 7.4 Basal Chadron Sandstone Response (Production Zone)

**Table 7** summarizes the corrected and uncorrected observed drawdown in the Basal Chadron Sandstone immediately prior to shutting off the pump. During the pumping portion of the test there was a low pressure event (cold front) that caused the observed drawdown to fluctuate by approximately 0.1 foot. **Figure 16** illustrates the drawdown immediately prior to shutting off the pump using the corrected drawdown values. With the exception of distal wells Monitor-2 and Monitor-8 (which are not part of the formal observation well network) drawdown of greater than 0.8 feet was observed in all of the observation wells, with a maximum drawdown of 23.40 feet observed in CPW-1A (pumping well).



## 7.5 Data Analysis

#### 7.5.1 Analytical Methods

Drawdown data vs. time were plotted for each observation well, and based on the character of the curves it was determined that confined aquifer analytical methods were appropriate for the analysis of water level data. These methods are consistent with that proposed in the Pumping Test Workplan.

Drawdown and recovery data collected from the observation wells were graphically analyzed to determine aquifer properties including transmissivity and storativity. The methods of analysis included Theis drawdown and recovery methods (1935), and the Cooper-Jacob Distance-Drawdown method (Cooper and Jacob, 1946). The software used to graphically analyze the data was Aquifer<sup>Win32</sup> version 3 developed by Environmental Simulations, Inc.

The major assumptions inherent in the application of these analytical methods include:

- The aquifer is confined and has apparent infinite extent;
- The aquifer is homogeneous and isotropic, and of uniform effective thickness over the area influenced by pumping;
- The piezometric surface is horizontal prior to pumping;
- The well is pumped at a constant rate;
- Water removed from storage is discharged instantaneously with a decline in head;
- The pumping well is fully penetrating; and
- Well diameter is small, so well storage is negligible.

These assumptions are reasonably satisfied over the test area. Locally, the Basal Chadron Sandstone is not homogenous and isotropic; however, over the scale of the pumping test, it can be treated as such for analytical purposes.

As discussed previously, no background trend corrections were warranted; however, all of the water levels measured in the observation wells, with the exception of CPW-1 and CPW-1A, were corrected for atmospheric pressure fluctuations.

#### 7.5.2 Barometric Pressure Correlations and Corrections

As discussed previously, all of the Level TROLL<sup>®</sup> data loggers used in the test were vented (gauged). The vent eliminates the impact of barometric pressure on the sensor; however, a change in water levels due to barometric changes will occur whether a vented sensor is used or not. Hence, use of vented equipment eliminates the barometric impact on the sensor, but does not correct the water level measurements for barometric effects on the aquifer. As such, the vented data loggers are barometrically compensated, but not corrected.



#### 7.5.2.1. Barometric Corrections

To evaluate if corrections due to barometric fluctuations were necessary, graphs of barometric pressure and groundwater levels vs. time were prepared for all of the wells monitored during the test. These graphs include data from the pre-test, drawdown, and recovery periods and are presented in **Appendix B (Graphs B1** through **B12)**. In addition the barometric efficiency of the Basal Chadron Sandstone aquifer was estimated to better understand the relationship between a change in barometric pressure and a measurable change in groundwater levels.

The barometric efficiency is the water level change caused by a barometric pressure change divided by that barometric pressure change (Clark, 1967). In a confined aquifer like the Basal Chadron Sandstone, an increase in barometric pressure usually will cause a decrease in water level in an open well by an amount governed by the barometric efficiency (Todd, 1959; Ferris and others, 1962; Freeze and Cherry, 1979; Kruseman and de Ridder, 1991; Landmeyer, 1996; Rasmussen and Crawford, 1997; and Batu, 1998). There are several methods to estimate the barometric efficiency. For this analysis the slope method on water level and barometric pressure change was used (Ferris and others, 1962). Measurements of change in water level are plotted on the y-axis and measurements of change in barometric pressure are plotted on the x-axis. A line is fitted to the plotted points and the slope of the line is the estimate of barometric efficiency.

The barometric efficiency of the aquifer was estimated using the pre-test water level data from Monitor-3 and the Baro TROLL<sup>®</sup> as the barometric sensor was located near the Basal Chadron Sandstone observation well Monitor-3. **Figure 17** illustrates the change in barometric pressure vs. change in water level for the pre-test period. Based on the slope of the data a barometric efficiency of 0.33 or 33 percent was estimated.

During the drawdown and recovery phases of the test the atmospheric pressures were variable with both increasing and decreasing pressure events as shown by the graphs in **Appendix B**. All of the Basal Chadron Sandstone observation wells appear to demonstrate a small but discernable barometric water level response during the test (up to 0.3 feet of barometric water level variation over the entire test period). As a conservative measure, barometric water level corrections were made for all Basal Chadron Sandstone wells except the pumped well (CPW-1A) and the closest observation well (CPW-1), which experienced large drawdowns (greater than 6 feet) relative to much smaller barometric fluctuations (making corrections unnecessary in these wells). As shown in the graphs in **Appendix B**, barometric corrections did not significantly affect the data but did smooth water level trends during low and high pressure events. These transducers were set to log based on an event schedule as discussed in **Section 6.2**.

#### 7.6 Analytical Test Results

**Appendix C** includes the type curve matches for the drawdown and recovery data. Water level data for all wells monitored, including the pre-test, pumping, and recovery phases of the test, are included in **Appendix D** on a CD ROM.

#### 7.6.1 Distance Drawdown Analysis

A distance drawdown graph of the data was prepared as a preliminary estimate of transmissivity and storativity and is shown on **Figure 18**. Based on this simple analysis the average transmissivity over the area of influence is approximately 737 square feet per day (ft<sup>2</sup>/day) and the storativity is approximately 4.9E-



05. Based on an average net sand thickness of 40 feet, the average hydraulic conductivity over the area of influence is approximately 18.4 feet per day (ft/day)

#### 7.6.2 Theis Drawdown Analysis

Transmissivity was calculated for all wells except for the pumping well using the Theis (1935) method for drawdown analysis in a confined aquifer. Type curve matches for the drawdown data are included in **Appendix C, Graphs C-1** through **C-8**. Type curve matching generally focused on late-time drawdown data since this data normally considered the most reliable indicator of overall aquifer response. Type curve matching for wells CPW-1A, CPW-1, and Monitor-3 focused on middle-time data for the drawdown phase of test due to the presence of a higher permeability boundary condition apparent in the late-time data for these wells. Log-log plots of drawdown data for wells CPW-1A, CPW-1, Monitor-3, and Monitor 5 are shown in **Figure 19**. The drawdown data for wells CPW-1A, CPW-1, and Monitor-3 show a late-time flattening of the curve (indicative of higher permeability boundary condition), whereas the drawdown data for Monitor-5 (and all other distant observation wells) exhibited a more typical confined aquifer drawdown response. Aquifer storativity ranged from 1.7E-03 to 8.32E-05, with an average value of 2.56E-04 for the entire test area (geometric mean of all values).

The flattening of the drawdown curve in wells located in the immediate vicinity of the pumping well (including wells CPW-1A, CPW-1, and Monitor-3) is believed to be related to a transmissivity contrast between lower permeability aquifer materials near the pumped well location, and higher permeability aquifer materials elsewhere within the radius of influence of the test. As illustrated by the structure contour and isopach maps of the Basal Chadron Sandstone (**Figures 10 and 11**), the pumping test area is located within a northwest trending ancient river channel system (paleochannel) incised into the underlying Pierre Shale. Coarse-grained sands and some gravel are present in drill cuttings and core in exploration boreholes installed west of the test area, as well as more localized areas north and south of the pumped well location (e.g. area between Monitor-2 and Monitor-6) (Mike Brost, Cameco Geologist, personal communication). This permeability contrast is believed to be responsible for the majority of the observed higher transmissivity boundary condition. In addition to the observed permeability contrast, the thickness of the Basal Chadron Sandstone increases to the west of the pumped well location (**Figure 11**), likely resulting in an incremental increase in transmissivity. As shown in **Table 8**, these observations are supported by higher transmissivity and hydraulic conductivity in more distant observation well locations.

Transmissivities calculated from the drawdown data ranged from 230 ft<sup>2</sup>/day at Monitor-3 to 1780 ft<sup>2</sup>/day in Monitor-2, with an average transmissivity of 892 ft<sup>2</sup>/day for the entire test area. Based on an average net sand thickness of 40 feet throughout the pumping test area, hydraulic conductivities ranged from 6 to 45 ft/day, with an average hydraulic conductivity of 22 ft/day for the entire test area. Transmissivity and hydraulic conductivity in the vicinity of the pumped well (including wells CPW-1A, CPW-1, and Monitor 3) were approximately 3 to 8 times lower than transmissivity measured elsewhere within the test area.

#### 7.6.3 Theis Recovery Analysis

Transmissivity was calculated using the Theis (1935) Recovery method for all wells monitored during the test. Type curve matching of the recovery data generally focused on late-time data. However, type curve matching for wells CPW-1A, CPW-1, and Monitor-3 focused on middle-time data as a higher permeability



boundary condition was apparent in the late-time data. The flattening of the recovery curve was also observed in the drawdown data, as discussed in the preceding section (Section 7.6.2). Type curve matches for the recovery data are included in **Appendix C**, **Graphs C9** through C17.

Transmissivities calculated from the recovery data ranged from 299 ft<sup>2</sup>/day at Monitor 3 to 2,470 ft<sup>2</sup>/day in Monitor 2, with an average transmissivity of 1,132 ft<sup>2</sup>/day for entire test area. Based on an average net sand thickness of 40 feet throughout the pumping test area, hydraulic conductivities ranged from 7 to 62 ft/day, with an average hydraulic conductivity of 28 ft/day for the entire test area. Transmissivity and hydraulic conductivity in the vicinity of the pumped well (including wells CPW-1A, CPW-1, and Monitor 3) were approximately 3 to 9 times lower than transmissivity measured elsewhere within the test area.

## 7.6.4 Summary of Analytical Results

Transmissivities calculated from the drawdown and recovery data using the Theis (1935) and Theis (1935) Recovery methods ranged from 230 ft<sup>2</sup>/day to 2,469 ft<sup>2</sup>/day with an representative average value of 1,012 ft<sup>2</sup>/day over the test area. The transmissivities for the recovery data were slightly higher than the drawdown data and are considered more representative of the aquifer properties because of the slight variability in the discharge rate during drawdown phase of the test. Based on average net sand thickness of 40 feet, the representative average hydraulic conductivity of the Basal Chadron Sandstone is 25 ft/day. Hydraulic conductivities and transmissivity of the aquifer in the vicinity of wells CPW-1A, CPW-1, and Monitor-3 were approximately 3 to 9 times less than those calculated elsewhere in the test area. The storativity calculated from the drawdown data ranged from 1.7E-03 to 8.32E-05 with an average value of 2.56E-04 for the entire test area.

## 7.7 Transmissivity Distribution

An isopach of the Basal Chadron Sandstone thickness and spatial distribution of transmissivity is shown on **Figure 20**. Transmissivity values calculated from the recovery data were plotted on the map. In general, higher transmissivities are in areas of thicker sand. However, as discussed previously, lower transmissivities and corresponding lower hydraulic conductivities are present in the vicinity of the pumping well, CPW-1 and Monitor 3. The circular nature of the drawdown cone (**Figure 16**) suggests no significant anisotropic qualities (e.g. directional transmissivity) to the aquifer on a regional scale.

## 7.8 Radius of Influence (ROI)

Based on the drawdown response of 0.86 feet in distant observation well Monitor-7 (located approximately 6,200 feet south of the pumping well), the ROI of the test was in excess of 6,200 feet. Although not included in the formal test monitoring network, data collected from the most distant observation wells (Monitor-2 and Monitor 8) clearly identify drawdown in excess of 0.4 feet due to pumping, and these data are of sufficient quality to reliably determine aquifer parameters at these locations. Therefore, based on the data collected from Monitor-2 and Monitor-8, the ROI for the test is slightly greater than 8,800 feet.



## 8. SUMMARY AND CONCLUSIONS

The following are significant results and conclusions of this work:

- The pumping well and all Basal Chadron observation wells exhibited significant and predictable drawdown during the test, demonstrating that the production zone has hydraulic continuity throughout the test area.
- The average transmissivity of the Basal Chadron Sandstone within the Marsland Expansion Area investigated herein is significantly higher than the existing Class III UIC Permit Area and the Three Crow and North Trend Expansion Areas.
- A zone of lower permeability (although not abnormally low by regional standards) is apparent in the vicinity of the pumping well (CPW-1A) and observation wells CPW-1 and Monitor-3, with significantly higher transmissivity noted elsewhere within the radius of influence of the test.
- Adequate confinement exists between the overlying Brule Formation and the Basal Chadron production zone as evidenced by no discernable drawdown in Brule Formation observation wells.
- The hydrologic properties of the Basal Chadron Sandstone have been adequately characterized to proceed with Class III UIC permitting and a NRC License Amendment Application for the Marsland Expansion Area.



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Marsland Hydrologic Test Report #8

**Tables** 

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 1

#### GENERALIZED STRATIGRAPHIC SECTION, MARSLAND EXPANSION AREA

| Depth (feet bgs) | Geologic Description   |
|------------------|--|
| 0 - 25           | Topsoil and alluvial deposits  |
| 25 - 150         | Arikaree Formation – calcareous sandstone, siltstone and claystone (no wells)      |
| 150 -300         | Brule Formation – interbedded siltstone and clayey sandstone (BOW wells)           |
| 300 - 1,000      | Upper/Middle Chadron Formation – siltstone and claystone confining unit (no wells) |
| 1,000 -1,050     | Basal Chadron Sandstone – CPW and Monitor wells                                    |
| 1,050+           | Pierre Shale (no wells)  |

#### Note:

1.bgs = below ground surface

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 2

PREVIOUS TESTING RESULTS, BASAL CHADRON SANDSTONE

| Parameter                                | Class III Permit Area Tests<br>#1 - #3 (mean) | Class III Permit Area<br>Test #4 (south) (mean) | North Trend<br>Tests #5 and #6<br>(mean) | Three Crow Test # 7<br>(mean) |
|--|---|---|--|-------------------------------|
| Transmissivity<br>(ft <sup>2</sup> /day) | . 363   | 826   | 60                                       | 480                           |
| Hydraulic<br>Conductivity (ft/day)       | 9.3   | 20.6  | 2.3                                      | 7.5                           |
| Storativity                              | 9.7 x 10 <sup>-5</sup>                        | 6.2 x 10 <sup>-5</sup>                          | 5.3 x 10 <sup>-5</sup>                   | 8.8 x 10 <sup>-5</sup>        |

Note:

1.  $ft^2/day = square feet per day$ 

2. ft/day = feet per day

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 4

MONITORING EQUIPMENT LAYOUT

| Well ID    | Completion Sand                | Monitoring Equipment      | Logging Interval                               |
|------------|--------------------------------|---------------------------|--|
|            |                                |                           |  |
| CPW-1A     | Basal Chadron Sandstone        | Level Troll 700 (100 PSI) | Linear Event (30 sec if water level changes by |
|            | Basar Gradion Ganasteric       |                           | >0.5 ft , 4 min if <0.5 ft of change           |
| *          |                                |                           |  |
| CPW-1      | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear Event (30 sec if water level changes by |
| 01 44-1    | Dasal Chadron Sandstone        | Level 1101 500 (50 F SI)  | >0.1 ft , 4 min if <0.1 ft of change           |
| Monitor-2  | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-3  | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-4A | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-5  | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-6  | <b>Basal Chadron Sandstone</b> | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-7  | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| Monitor-8  | Basal Chadron Sandstone        | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
|            |                                |                           |  |
| BOW-1      | Brule Formation                | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| BOW-2      | Brulé Formation                | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
| BOW-3      | Brule Formation                | Level Troll 500 (30 PSI)  | Linear (4 min)                                 |
|            |                                |                           | · · · · · · · · · · · · · · · · · · ·          |
| BAR-1      | Atmosphere                     | Baro Troll                | Linear (4 min)                                 |

Notes:

1. min = minute

2. ft = feet

3. PSI = pounds per square inch

Hydrogeology, Water Resources & Data Services

## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 5

PUMPING FLOW RATE VS. TIME

|           |       | METER 1 | METER 2 |      | •    |                                    |
|-----------|-------|---------|---------|------|------|------------------------------------|
| Date      | TIME  | GPM     | GPM     | PSI  | AMPS | Total Gallons<br>(meter 1/meter 2) |
|           |       |         |         |      |      | (meter i/meter 2)                  |
|           |       |         |         |      |      |                                    |
| 5/16/2011 | 5:00  | 27.90   | 28.4    | 50   | 12   | 0/0                                |
|           |       |         |         |      |      |                                    |
| 5/16/2011 | 6:00  | 27.10   | 27.9    | 49   | 12   | 1579/1601                          |
| 5/16/2011 | 7:00  | 26.90   | 27.1    | 49.  | 12   | 3138/3170                          |
| 5/16/2011 | 8:00  | 26.70   | 27.1    | 45   | 12   | 4824/4880                          |
| 5/16/2011 | 9:00  | 26.70   | 27.1    | 45   | 12   | 6545/6621                          |
| 5/16/2011 | 10:00 | 26.90   | 27.1    | 46   | 12   | 8163/8258                          |
| 5/16/2011 | 11:00 | 26.50   | 26.8    | 45   | 12   | 9720/9831                          |
| 5/16/2011 | 12:00 | 26.40   | 26.8    | 46   | 12   | 11341/11481                        |
| 5/16/2011 | 13:00 | 26.50   | 26.8    | 46   | 12   | 12869/13039                        |
| 5/16/2011 | 14:00 | 26.40   | 26.9    | 46   | 12   | 14518/14713                        |
| 5/16/2011 | 15:00 | 26.40   | 26.9    | 46   | 12   | 16255/16484                        |
| 5/16/2011 | 16:00 | 26.40   | 26.9    | 46   | 12   | 17560/18000                        |
| 5/16/2011 | 17:00 | 26.70   | 27      | 46   | 12   | 19337/19614                        |
| 5/16/2011 | 18:00 | 26.70   | 27.2    | 46   | 12   | 20933/21240                        |
| 5/16/2011 | 19:00 | 26.60   | 27.1    | 46   | 12   | 22588/22922                        |
| 5/16/2011 | 20:00 | 26.70   | 27.3    | 46   | 12   | 24257/24622                        |
| 5/16/2011 | 21:00 | 26.70   | 27.2    | 46   | 12   | 25814/26206                        |
| 5/16/2011 | 22:00 | 26.70   | 27.1    | 46   | 12   | 27384/27806                        |
| 5/16/2011 | 23:00 | 26.50   | 27.2    | 46   | 12   | 29094/29498                        |
| 5/17/2011 | 0:00  | 26.90   | 27.3    | 46   | 12   | 30660/31136                        |
| 5/17/2011 | 1:00  | 26.80   | 27.3    | 46   | 12   | 32286/32795                        |
| 5/17/2011 | 2:00  | 26.40   | 27.2    | 46   | 12   | 33895/34431                        |
| 5/17/2011 | 3:00  | 26.60   | 27.2    | 46   | 12   | 35533/36107                        |
| 5/17/2011 | 4:00  | 26.70   | 27.1    | 46   | 12   | 37236/37843                        |
| 5/17/2011 | 5:00  | 26.60   | 27.3    | 46   | 12   | 38781/39420                        |
| 5/17/2011 | 6:00  | 26.70   | 27.4    | 46   | 12   | 40434/40997                        |
| 5/17/2011 | 7:00  | 26.80   | 27.3    | 46   | 12   | 41829/42530                        |
| 5/17/2011 | 8:00  | 26.79   | 27.25   | . 46 | 13   | 43637/44373                        |
| 5/17/2011 | 9:00  | 26.73   | 27.19   | 46   | 13   | 45229/46012                        |
| 5/17/2011 | 10:00 | 26.73   | 27.19   | 46   | 13   | 46904/47733                        |
| 5/17/2011 | 11:00 | 26.59   | 27.12   | 46   | 13   | 48480/49328                        |
| 5/17/2011 | 12:00 | 26.66   | 27.06   | 46   | 13   | 50184/51061                        |
| 5/17/2011 | 13:00 | 26.66   | 27.06   | 46   | 13   | 51735/52632                        |
| 5/17/2011 | 14:00 | 26.59   | 27.19   | 46   | 13   | 53334/54270                        |
| 5/17/2011 | 15:00 | 26.59   | 27.19   | 46   | 13   | 54968/55945                        |
| 5/17/2011 | 16:00 | 26.53   | 27.12   | 46   | 13   | 56615/57612                        |
| 5/17/2011 | 17:00 | 26.79   | 27.25   | 46   | 13   | 58180/59210                        |
| 5/17/2011 | 18:00 | 26.92   | 27.39   | 46   | 13   | 59728/60788                        |
| 5/17/2011 | 19:00 | 26.99   | 27.52   | 46   | 13   | 61422/62516                        |
| 5/17/2011 | 20:00 | 26.92   | 27.58   | 46   | 13   | 63218/64388                        |

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 5

PUMPING FLOW RATE VS. TIME

|           |       | METER 1 | METER 2 |      |      |                                    |
|-----------|-------|---------|---------|------|------|------------------------------------|
| Date      | TIME  | GPM     | GPM     | PSI  | AMPS | Total Gallons<br>(meter 1/meter 2) |
| 5/17/2011 | 21:00 | 26.99   | 27.43   | 46   | 13   | 64670/65839                        |
| 5/17/2011 | 22:00 | 26.92   | 27.65   | 46   | 13   | 66283/67481                        |
| 5/17/2011 | 23:00 | 26.94   | 27.45   | 46   | 13   | 67907/69143                        |
| 5/18/2011 | 0:00  | 26.92   | 27.45   | 46   | 13   | 69508/70780                        |
| 5/18/2011 | 1:00  | 27.06   | 27.46   | 46   | 13   | 71181/72490                        |
| 5/18/2011 | 2:00  | 26.86   | 27.45   | 46   | 13   | 72804/74152                        |
| 5/18/2011 | 3:00  | 26.79   | 27.39   | 46   | 13   | 74443/75824                        |
| 5/18/2011 | 4:00  | 26.79   | 27.39   | 46   | 13   | 76053/77474                        |
| 5/18/2011 | 5:00  | 26.66   | 27.32   | 46   | 13   | 77684/79137                        |
| 5/18/2011 | 6:00  | 26.59   | 27.45   | 46   | 13   | 79283/80777                        |
| 5/18/2011 | 7:00  | 26.46   | 27.32   | 46   | 13   | 80908/82445                        |
| 5/18/2011 | 8:00  | 26.46   | 27.32   | 46   | 12   | 82532/84112                        |
| 5/18/2011 | 9:00  | 27.98   | 27.43   | . 46 | 12   | 84302/85927                        |
| 5/18/2011 | 10:00 | 26.59   | 27.32   | 46   | 12   | 85838/87502                        |
| 5/18/2011 | 11:00 | 26.66   | 27.32   | 46   | 12   | 87397/89104                        |
| 5/18/2011 | 12:00 | 26.79   | 27.39   | 46   | 12   | 89019/90769                        |
| 5/18/2011 | 13:00 | 26.53   | 27.32   | 46   | 12   | 90664/92458                        |
| 5/18/2011 | 14:00 | 26.73   | 27.19   | 46   | 12   | 92385/94212                        |
| 5/18/2011 | 15:00 | 26.59   | 27.32   | 46   | 12   | 93845/85706                        |
| 5/18/2011 | 16:00 | 26.92   | 27.32   | 46   | 12   | 95537/97438                        |
| 5/18/2011 | 17:00 | 26.86   | 27.52   | 46   | 12.  | 97124/99061                        |
| 5/18/2011 | 18:00 | 26.79   | 27.39   | 46   | 12   | 98727/100302                       |
| 5/18/2011 | 19:00 | 26.79   | 27.52   | 46   | 12   | 100350/102361                      |
| 5/18/2011 | 20:00 | 26.99   | 27.65   | 46   | 12   | 101944/104000                      |
| 5/18/2011 | 21:00 | 26.92   | 27.52   | 46   | 12   | 103574/105667                      |
| 5/18/2011 | 22:00 | 26.86   | 27.52   | 46   | 12   | 105215/107355                      |
| 5/18/2011 | 23:00 | 26.99   | 27.58   | 46   | 12   | 106857/108542                      |
| 5/19/2011 | 0:00  | 26.99   | 27.65   | 46   | 12   | 108521/110734                      |
| 5/19/2011 | 1:00  | 26.99   | 27.72   | 46   | 12   | 110161/112415                      |
| 5/19/2011 | 2:00  | 26.99   | 27.65   | 46   | 12   | 111965/114270                      |
| 5/19/2011 | 3:00  | 26.94   | 27.72   | 46   | 12   | 113333/115667                      |
| 5/19/2011 | 4:00  | 26.94   | 27.65   | 46   | 12   | 114978/117308                      |
| 5/19/2011 | 5:00  | 26.94   | 27.58   | 46   | 12   | 116623/118951                      |
| 5/19/2011 | 6:00  | 26.92   | 27.65   | 46   | 12   | 118246/120689                      |
| 5/19/2011 | 7:00  | 27.06   | 27.72   | 46   | · 12 | 119860/122351                      |
| 5/19/2011 | 8:00  | 27.00   | 27.65   | 48   | 12   | 121626/124162                      |
| 5/19/2011 | 9:00  | 27.06   | 27.52   | 48   | 12   | 123245/125826                      |
| 5/19/2011 | 10:00 | 26.86   | 27.52   | 48   | 12   | 124871/127490                      |
| 5/19/2011 | 11:00 | 26.92   | 27.58   | 48   | 12   | 126491/129137                      |
| 5/19/2011 | 12:00 | 26.79   | 27.52   | 48 . | 12   | 128125/130828                      |
| 5/19/2011 | 13:00 | 26.59   | 27.58   | 48   | 12   | 129745/132498                      |
| 5/19/2011 | 14:00 | 26.94   | 27.65   | 48   | 12   | 131369/134145                      |
| 5/19/2011 | 15:00 | 26.92   | 27.45   | 48   | 12   | 132973/135792                      |

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## TABLE 5PUMPING FLOW RATE VS. TIME

|           |                         | METER 1 | METER 2 |     |      | •                                  |
|-----------|-------------------------|---------|---------|-----|------|------------------------------------|
| Date      | TIME                    | GPM     | GPM     | PSI | AMPS | Total Gallons<br>(meter 1/meter 2) |
| 5/19/2011 | 16:00                   | 27.45   | 27.58   | 48  | 12   | 134606/137470                      |
| 5/19/2011 | 17:00                   | 26.86   | 27.52   | 48  | 12   | 136270/139168                      |
| 5/19/2011 | 18:00                   | 26.86   | 27.65   | 48  | 12   | 137893/140832                      |
| 5/19/2011 | 19:00                   | 26.79   | 27.58   | 48  | 12   | 139550/142528                      |
| 5/19/2011 | 20:00                   | 26.86   | 27.58   | 48  | 12   | 141176/144192                      |
| 5/19/2011 | 21:00                   | 26.79   | 27.45   | 48  | 12   | 142803/145861                      |
| 5/19/2011 | 22:00                   | 26.86   | 27.45   | 48  | 12   | 144375/147470                      |
| 5/19/2011 | 23:00                   | 26.46   | 27.58   | 48  | 12   | 146010/149145                      |
| 5/20/2011 | 0:00                    | 26.92   | 27.39   | 48  | 12   | 147643/150817                      |
| 5/20/2011 | 1:00                    | 26.73   | 27.45   | 48  | 12   | 149285/152499                      |
| 5/20/2011 | 2:00                    | 26.99   | 27.58   | 48  | 12   | 150921/154172                      |
| 5/20/2011 | 3:00                    | 26.92   | 27.52   | 48  | 12   | 152550/155837                      |
| 5/20/2011 | 4:00                    | 27.06   | 27.58   | 48  | 12   | 154176/157504                      |
| 5/20/2011 | 5:00                    | 26.99   | 27.39   | 48  | 12   | 155820/159188                      |
| 5/20/2011 | 6:00                    | 26.92   | 27.45   | 48  | 12   | 157422/160827                      |
| 5/20/2011 | 7:00                    | 26.79   | 27.52   | 48  | 12   | 159048/162492                      |
| 5/20/2011 | 8:00                    | 26.73   | 27.32   | 47  | 12   | 160710/164208                      |
| 5/20/2011 | 9:00                    | 26.79   | 27.32   | 46  | 12   | 162426/165960                      |
| 5/20/2011 | 10:00                   | 26.59   | 27.19   | 46  | 12   | 163966/167537                      |
| 5/20/2011 | 11:00                   | 26.46   | 27.12   | 46  | 12   | 165526/169126                      |
| 5/20/2011 | 12:00                   | 26.46   | 27.06   | 46  | 12   | 167215/170855                      |
| Aver      | age Flow (GPM)          | 26.80   | 27.37   |     |      |                                    |
| Combine   | d Average Flow<br>(GPM) | . 27.   | 08      |     |      | ,                                  |

Notes:

1. GPM = gallons per minute

2. Pumping started at 5:03 am on 5/16/2011 and ended at 12:00 pm on 5/20/11

3. PSI = pounds per square inch

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 6

## **GROUNDWATER LEVELS, NOVEMBER 12, 2010**

| · Well ID  | Measurement<br>Date | Northing (feet) | Easting (feet)     | TOC Elevation<br>(feet amsl) | Depth to Water<br>(feet btoc) | Groundwater Elevation<br>(feet amsl) |
|------------|---------------------|-----------------|--------------------|------------------------------|-------------------------------|--------------------------------------|
|            | 2410                | I               | Basal Chadron Pu   |                              | (100( 0(00)                   |                                      |
| CPW-1A     | NM                  | 446202          | 1121450            | 4262.70                      | NM                            | NM                                   |
|            |                     |                 | Basal Chadron Obse | ervation Wells               |                               | ·········                            |
| CPW-1      | 11/12/2010          | 446225          | 1121528            | 4261.85                      | 551.11                        | 3710.75                              |
| Monitor-2  | 11/12/2010          | 439439          | 1126362            | 4198.40                      | 484.57                        | 3713.83                              |
| Monitor-3  | 11/12/2010          | 446288          | 1121519            | 4261.30                      | 551.03                        | 3710.27                              |
| Monitor-4A | 11/12/2010          | 450084          | 1121344            | 4327.49                      | 617.80                        | 3709.69                              |
| Monitor-5  | 11/12/2010          | 447734          | 1119236            | 4339.50                      | 628.45                        | . 3711.05                            |
| Monitor-6  | 11/12/2010          | 442856          | 1124385            | 4215.00                      | 502.18                        | 3712.83                              |
| Monitor-7  | 11/12/2010          | 440358          | 1120757            | 4244.38                      | 530.99                        | 3713.39                              |
| Monitor-8  | 11/12/2010          | 450974          | 1117005            | 4353.70                      | 644.47                        | 3709.23                              |
|            |                     |                 | Brule Observat     | ion Wells                    |                               | •                                    |
| BOW-1      | 11/12/2010          | 446250          | 1121572            | 4260.10                      | 126.13                        | 4133.97                              |
| BOW-2      | 11/12/2010          | 450154          | 1121367            | 4323.40                      | 150.37                        | 4173.04                              |
| BOW-3      | 11/12/2010          | 450974          | 1117056            | 4350.30                      | 137.49                        | 4212.81                              |

Notes:

1. TOC = top of casing

2. btoc = below top of casing

3. amsi = above mean sea level

4. NM = not measured

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## TABLE 7

#### DISTANCES TO PUMPING WELL AND OBSERVED DRAWDOWN

| Completion Type       | Well ID    | Distance to Pumping Well<br>(feet) | Completion Sand         | Respond to<br>Pumping<br>(Y/N) | Observed Drawdown<br>at End of Pumping<br>(5/20/2011) | Corrected Drawdown<br>at End of Pumping<br>(5/20/2011) |
|-----------------------|------------|------------------------------------|-------------------------|--------------------------------|---|--|
| Pumping Well          | CPW-1A     | .0                                 | Basal Chadron Sandstone | Y ·                            | 23.40   | 23.50  |
|                       | ·····      |                                    | · ·                     |                                |   |  |
|                       | CPW-1      | 67                                 | Basal Chadron Sandstone | Y                              | 6.22  | 6.32   |
|                       | Monitor-3  | 100                                | Basal Chadron Sandstone | Υ.                             | 4.79  | 4.89   |
| , · [                 | Monitor-5  | 2,800                              | Basal Chadron Sandstone | Y                              | 1.29  | 1.39   |
| Production Zone       | Monitor-4A | 4,067                              | Basal Chadron Sandstone | Y                              | 1.00  | 1.10   |
| Observation Wells     | Monitor-6  | 4,667                              | Basal Chadron Sandstone | Y                              | 1.05  | 1.15   |
|                       | Monitor-7  | 6,200                              | Basal Chadron Sandstone | Y                              | 0.76  | 0.86   |
|                       | Monitor-8* | 6,800                              | Basal Chadron Sandstone | Y                              | 0.66  | 0.76   |
|                       | Monitor-2* | 8,800                              | Basal Chadron Sandstone | Y.                             | 0.32  | 0.42   |
|                       |            |                                    |                         |                                |   |  |
| Overlying Observation | BOW-1      | 133                                | Brule Formation         | N                              | -   | -  |
| Wells                 | BOW-2      | 4,167                              | Brule Formation         | · N                            | -   | -  |
| **6//2                | BOW-3      | 6,867                              | Brule Formation         | N                              | -   | -  |

#### Note:

1.\* Wells Monitor-2 and Monitor-8 were monitored and analyzed as described in the original Plan, but are not part of the formal monitoring network used to establish radius of influence.

2. Pumping started at 5:03 am on 5/16/2011 and ended at 12:00 pm on 5/20/11

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## Marsland Regional Hydrologic Testing Report - Test # 8 Crow Butte Project, Marsland Expansion Area

## TABLE 8

SUMMARY OF TEST RESULTS

|            |                                    | Th                          | eis Drawdown                          |             | 1  | heis Recovery                         |             |
|------------|------------------------------------|-----------------------------|---------------------------------------|-------------|--|---------------------------------------|-------------|
| Well ID    | Distance to Pumping<br>Well (feet) | Transmissivity<br>(ft²/day) | Hydraulic<br>Conductivity<br>(ft/day) | Storativity | Transmissivity<br>(ft <sup>2</sup> /day) | Hydraulic<br>Conductivity<br>(ft/day) | Storativity |
| CPW-1A**   | 0                                  |                             |                                       |             | 573                                      | 14                                    |             |
| CPW-1**    | 67                                 | 430                         | 11                                    | 8.32E-05    | 523                                      | 13                                    |             |
| Monitor-3  | 100                                | 230                         | 6                                     | 1.70E-03    | 299                                      | 7                                     |             |
| Monitor-5  | 2,800                              | 915                         | 23                                    | 5.50E-05    | 971                                      | 24                                    |             |
| Monitor-4A | 4,067                              | 903                         | 23                                    | 5.41E-05    | 1,377                                    | 34                                    |             |
| Monitor-6  | 4,667                              | 901                         | 23                                    | 3.44E-05    | 1,063                                    | 27                                    |             |
| Monitor-7  | 6,200                              | 983                         | 25                                    | 3.57E-05    | 1,315                                    | 33                                    | _ <b></b>   |
| Monitor-8* | 6,800                              | 989                         | 25                                    | 3.95E-05    | 1,596                                    | 40                                    | **          |
| Monitor-2* | 8,800                              | 1,781                       | 45                                    | 4.72E-05    | 2,469                                    | 62                                    |             |
|            | Averages                           | 892                         | 22                                    | 7.46E-05    | 1,132                                    | 28                                    |             |

| Average Transmissivit (ft²/day)         | 1,012    |
|---|----------|
| Average Hydraulic Conductivity (ft/day) | 25       |
| Average Storativity                     | 7.46E-05 |

Note:

1.\* = Monitor-2 and Monitor-8 were monitored and analyzed as described in the original Plan, but are not part of the formal monitoring network

2. \*\* = Water level data for CPW-1A and CPW-1 were not corrected for barometric variations due to the large drawdowns (greater than 6 feet) relative

to much smaller barometric fluctuations

2. Pumping started at 5:03 am on 5/16/2011 and ended at 12:00 pm on 5/20/11

3. Hydraulic conductivity calculated based on a typical net sand thickness of 40 feet

4. ft2/day = square feet per day

5. ft/day = feet per day

6. -- = not applicable



# Figures

Marsland Hydrologic Test Report #8

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## Marsland Regional Hydrologic Testing Report - Test # 8

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## TABLE 3

MARSLAND PUMING TEST #8 WELL COMPLETION DETAILS

| Well ID    | Northing (ft) | Easting (ft) | Section | Twp/Rng   | TOC<br>Elevation<br>(feet amsl) | Total Depth<br>(feet bgs) | Well Diameter (OD)<br>(Inches) | Screen Slot<br>Size (inches) | Top of Screen<br>(feet bgs) | Bottom of<br>Screen<br>(feet bgs) | Screen Intervals<br>(feet bgs) | Screen Length<br>(feet) |
|------------|---------------|--------------|---------|-----------|---------------------------------|---------------------------|--------------------------------|------------------------------|-----------------------------|-----------------------------------|--------------------------------|-------------------------|
|            |               |              |         |           | Basal Chad                      | ron Sandstone             | Pumping Well                   |                              |                             |                                   |                                |                         |
| CPW-1A     | 446202        | 1121450      | 1       | T29N/R51W | 4262.7                          | 1,055                     | 4.95                           | 0.015                        | 1022                        | 1052                              | 1022-1052                      | 30                      |
|            |               |              |         |           | Basa                            | al Chadron Sar            | ndstone Observation            | Wells                        |                             | <u></u>                           |                                |                         |
| CPW-1      | 446225        | 1121528      | 1       | T29N/R51W | 4261.85                         | 1,070                     | 4.95                           | 0.020                        | 1015                        | 1048                              | 1015-1048                      | 33                      |
| Monitor-2* | 439439        | 1126362      | 18      | T29N/R50W | 4198.40                         | 1,027                     | 4.95                           | 0.020                        | 970                         | 1010                              | 970-1010                       | 40                      |
| Monitor-3  | 446288        | 1121519      | 1       | T29N/R51W | 4261.30                         | 1,069                     | 4.95                           | 0.020                        | 1016                        | 1043                              | 1016-1043                      | 27                      |
| Monitor-4A | 450084        | 1121344      | 1       | T29N/R51W | 4332.10                         | 1,134                     | 4.95                           | 0.020                        | 1088                        | 1110                              | 1088-1110                      | 22                      |
| Monitor-5  | 447734        | 1119236      | 1       | T29N/R51W | 4339.50                         | 1,120                     | 4.95                           | 0.020                        | 1070                        | 1120                              | 1070-1120                      | 50                      |
| Monitor-6  | 442856        | 1124385      | 12      | T29N/R51W | 4215.00                         | 1,050                     | 4.95                           | 0.020                        | 990                         | 1023                              | 990-1023                       | 33 .                    |
| Monitor-7  | 440358        | 1120757      | 12      | T29N/R51W | 4244.38                         | 1,050                     | 4.95                           | 0.020                        | 1000                        | 1043                              | 1000-1013, 1023-1043           | 33                      |
| Monitor-8* | 450974        | 1117005      | 2       | T29N/R51W | 4353.70                         | 1,180                     | 4.95                           | 0.020                        | 1085                        | 1125                              | 1085-1125                      | 40                      |
|            |               |              |         |           |                                 | <b>Brule Formati</b>      | on Observation Wells           | S                            |                             |                                   | -                              |                         |
| BOW-1      | 446250        | 1121572      | 1       | T29N/R51W | 4260.10                         | 370                       | 4.95                           | 0.020                        | 285                         | 365                               | 285-305, 325-365               | 60                      |
| BOW-2      | 450154        | 1121367      | 1       | T29N/R51W | 4323.40                         | 400                       | 4.95                           | 0.020                        | 339                         | 399                               | 339-369, 389-399               | 40                      |
| BOW-3      | 450974        | 1117056      | 2       | T29N/R51W | 4350.30                         | 415                       | 4.95                           | 0.020                        | 345                         | 415                               | 345-365, 385-415               | 50                      |

#### Note:

1.\* Wells Monitor-2 and Monitor-8 were monitored and analyzed as described in the original Plan, but are not part of the formal monitoring network

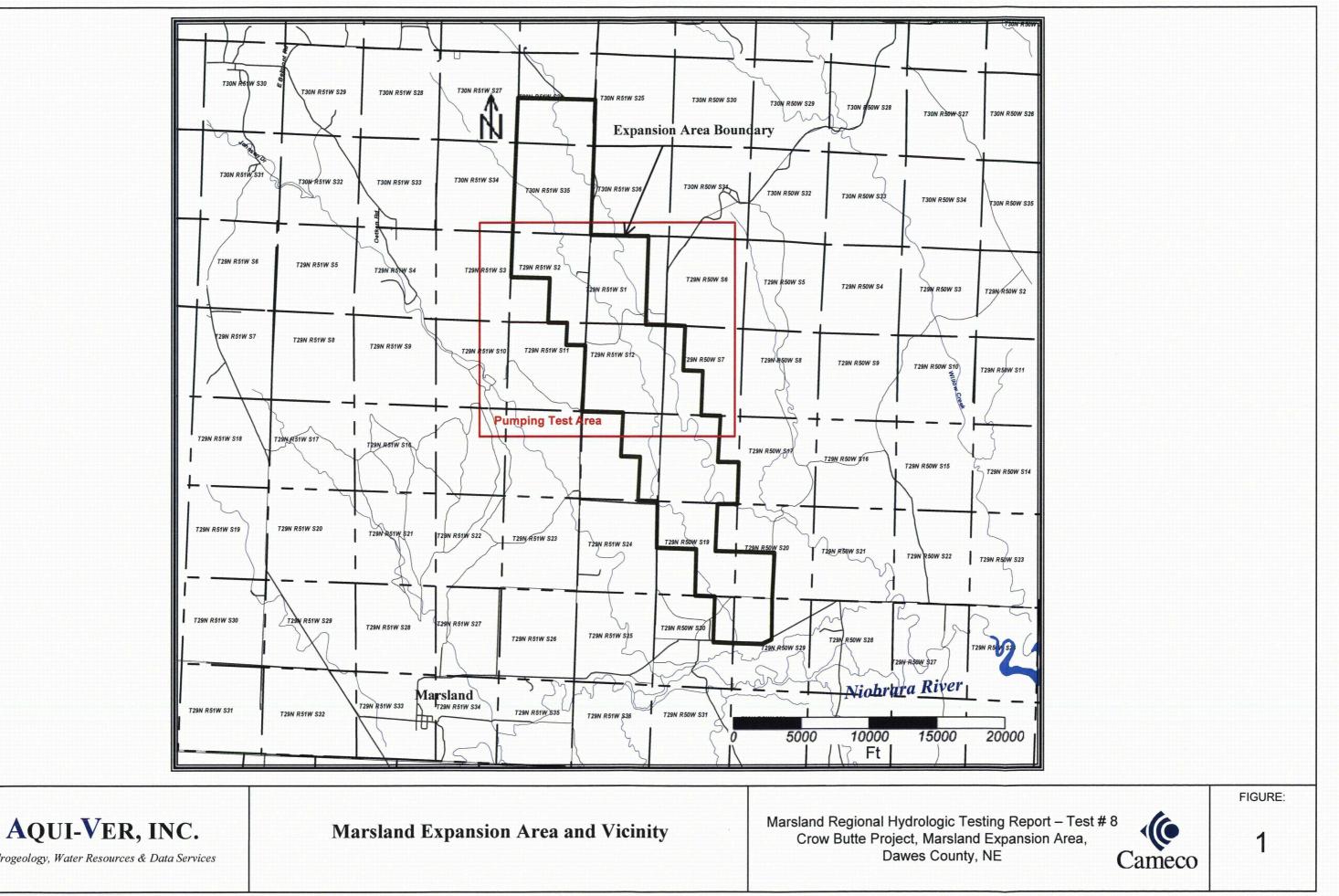
2. Twp = Township

3. Rng = Range

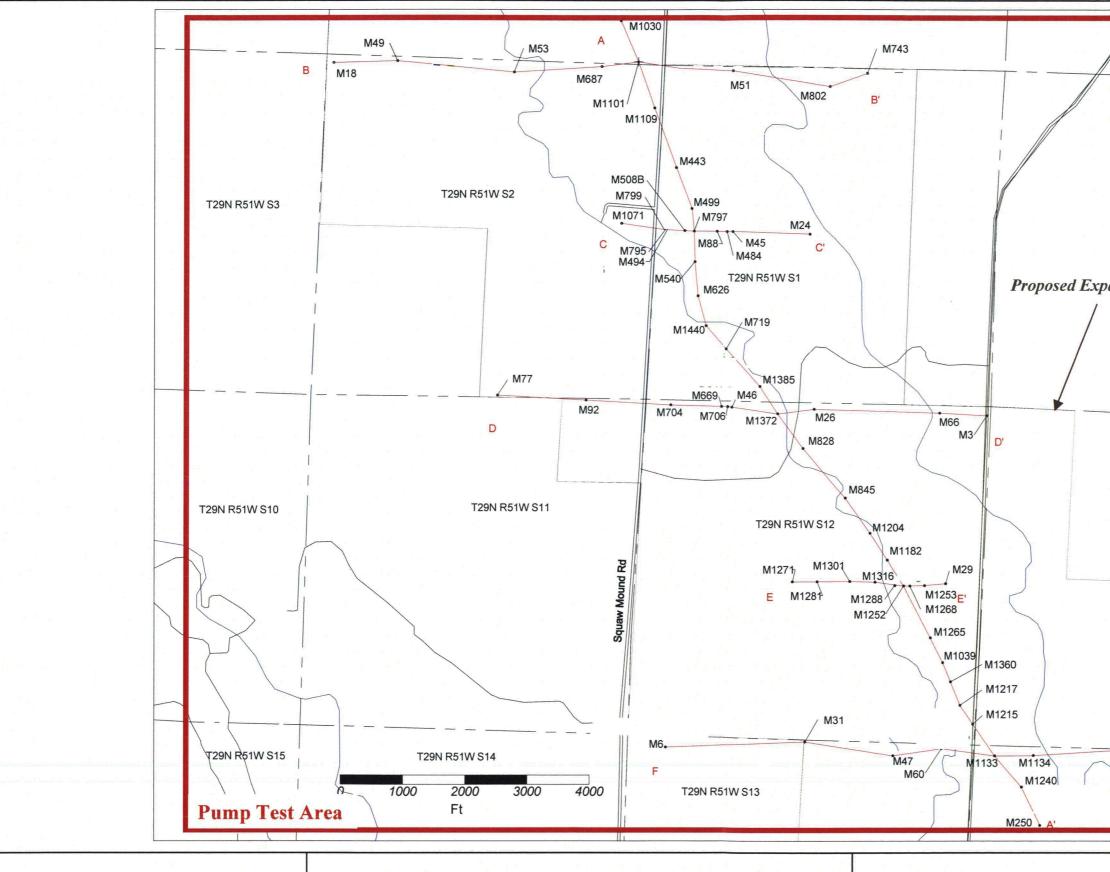
4. amsl = above mean sea level

5. OD = outer diameter

6. bgs = below ground surface



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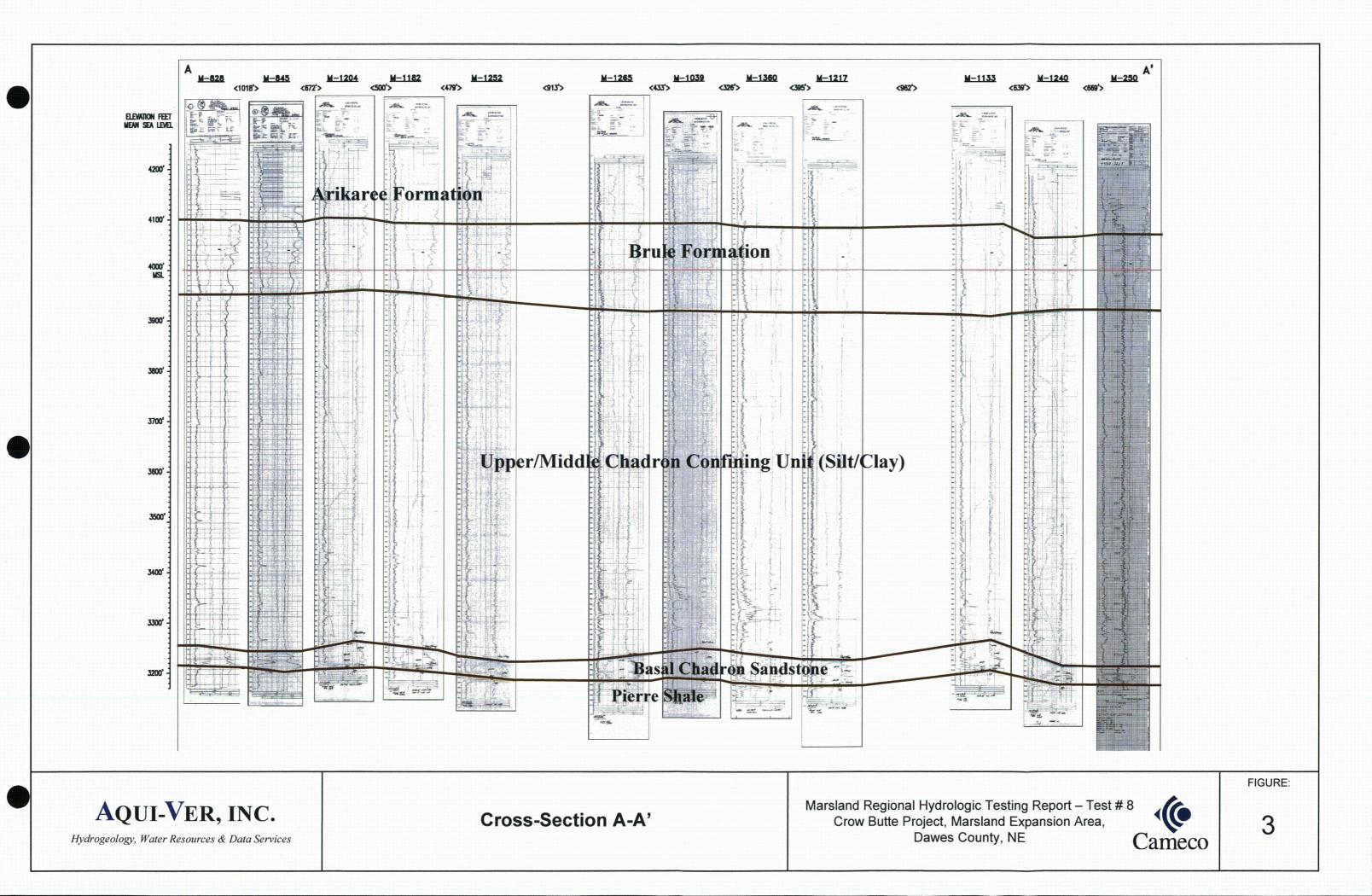
**Cross-Section Location Map** 

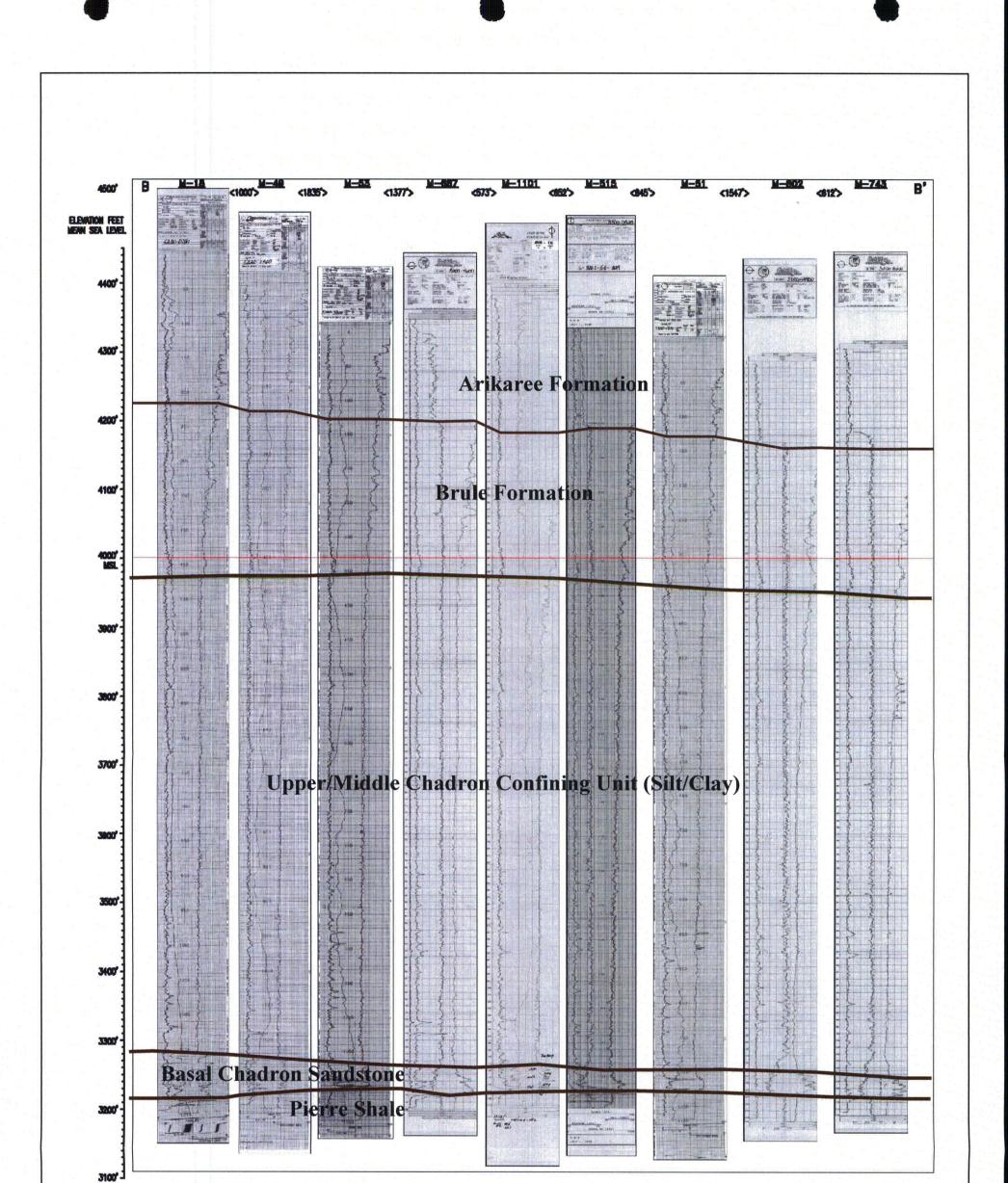
Marsland Regional Hydrologic Tes Crow Butte Project, Marsland Dawes County,

Hydrogeology, Water Resources & Data Services

AQUI-VER, INC.

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| ig Report – Test # 8   | la   |   |        | 10 <sup>-1</sup><br>11<br>11 |
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# Geologic Cross Section B-B'

# AQUI-VER, INC.

Hydrogeology, Water Resources & Data Services

Marsland Regional Hydrologic Testing Report – Test # 8 Crow Butte Project, Marsland Expansion Area, Dawes County, NE

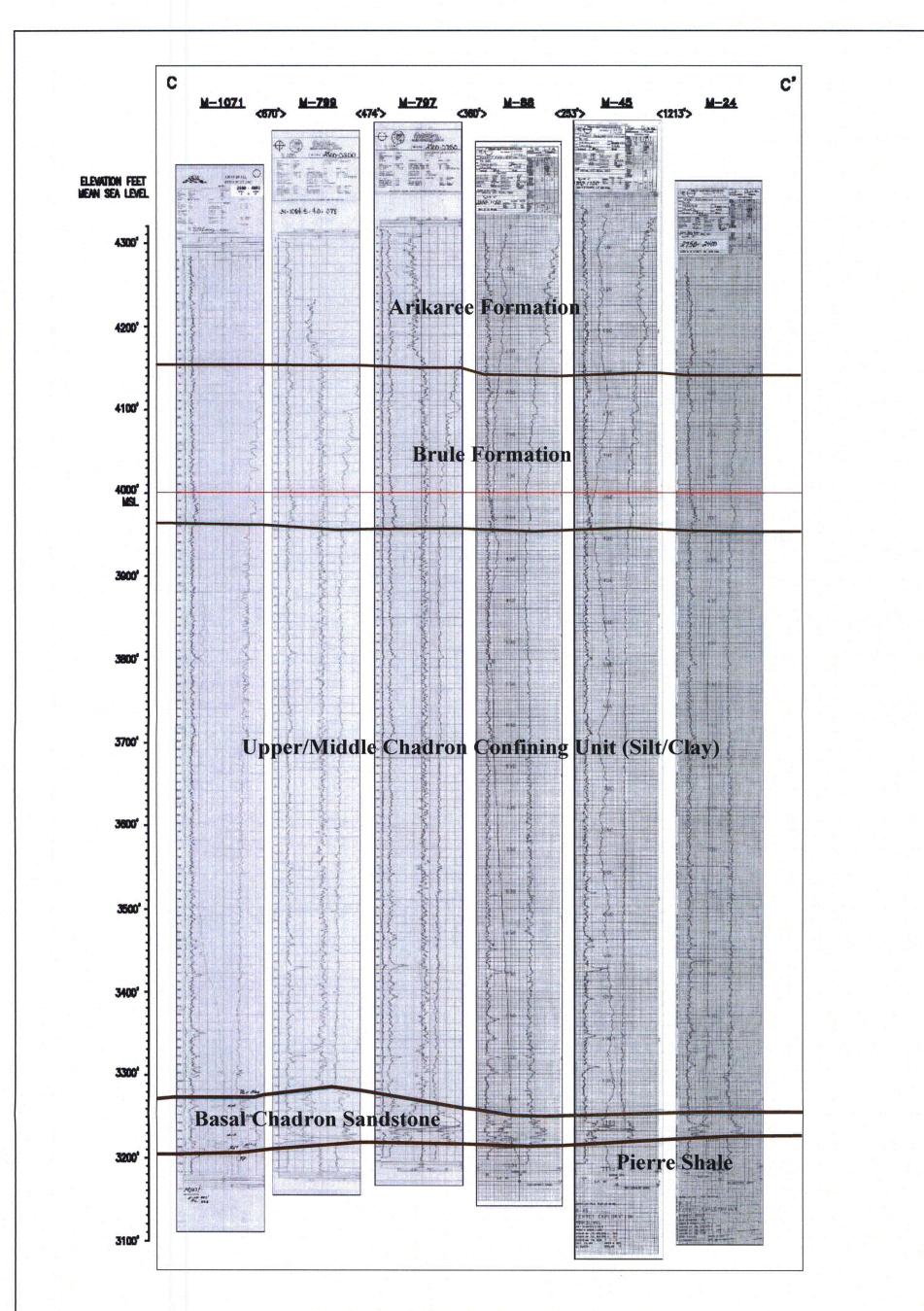


FIGURE:









Hydrogeology, Water Resources & Data Services

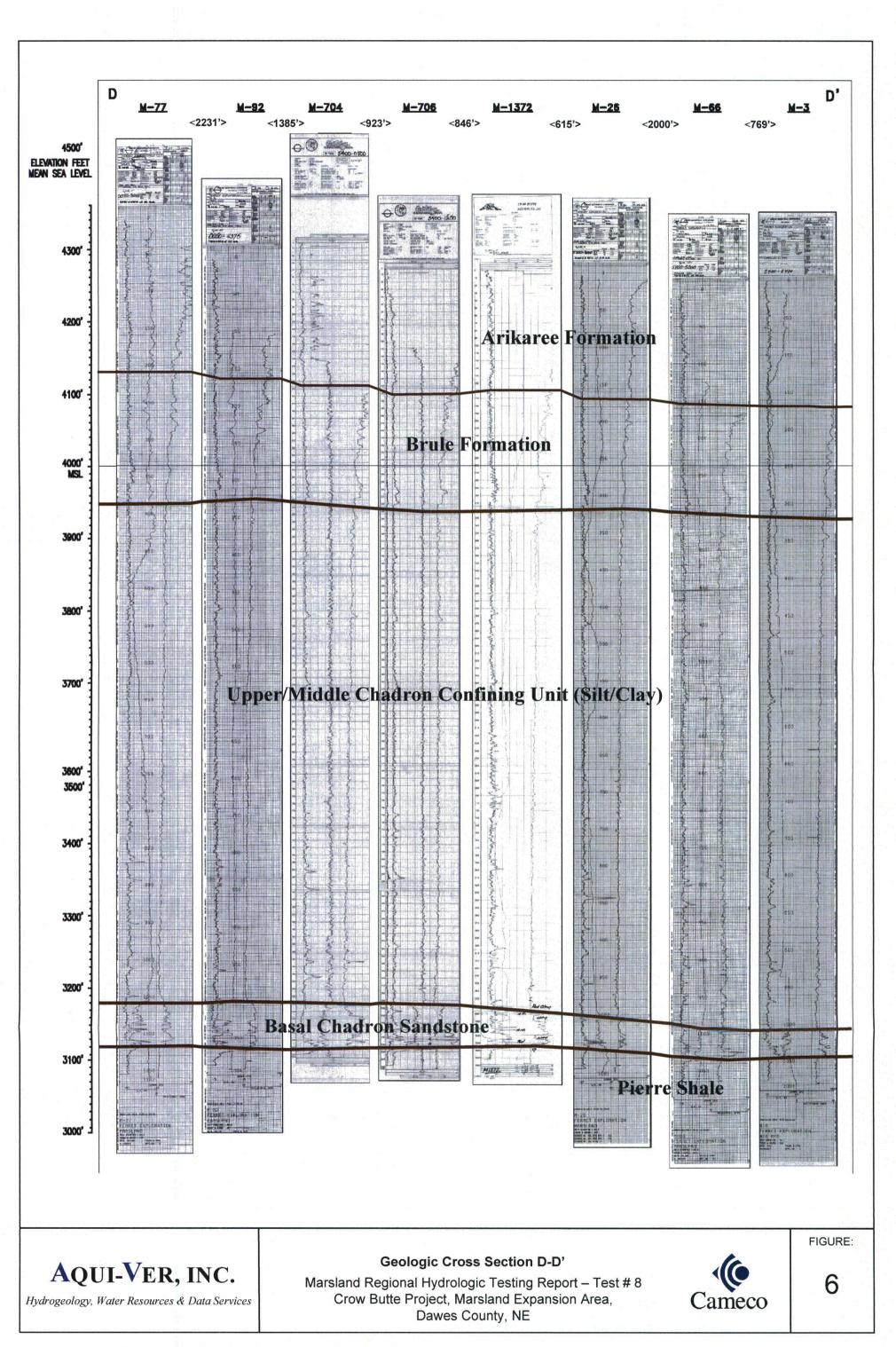
Geologic Cross Section C-C'

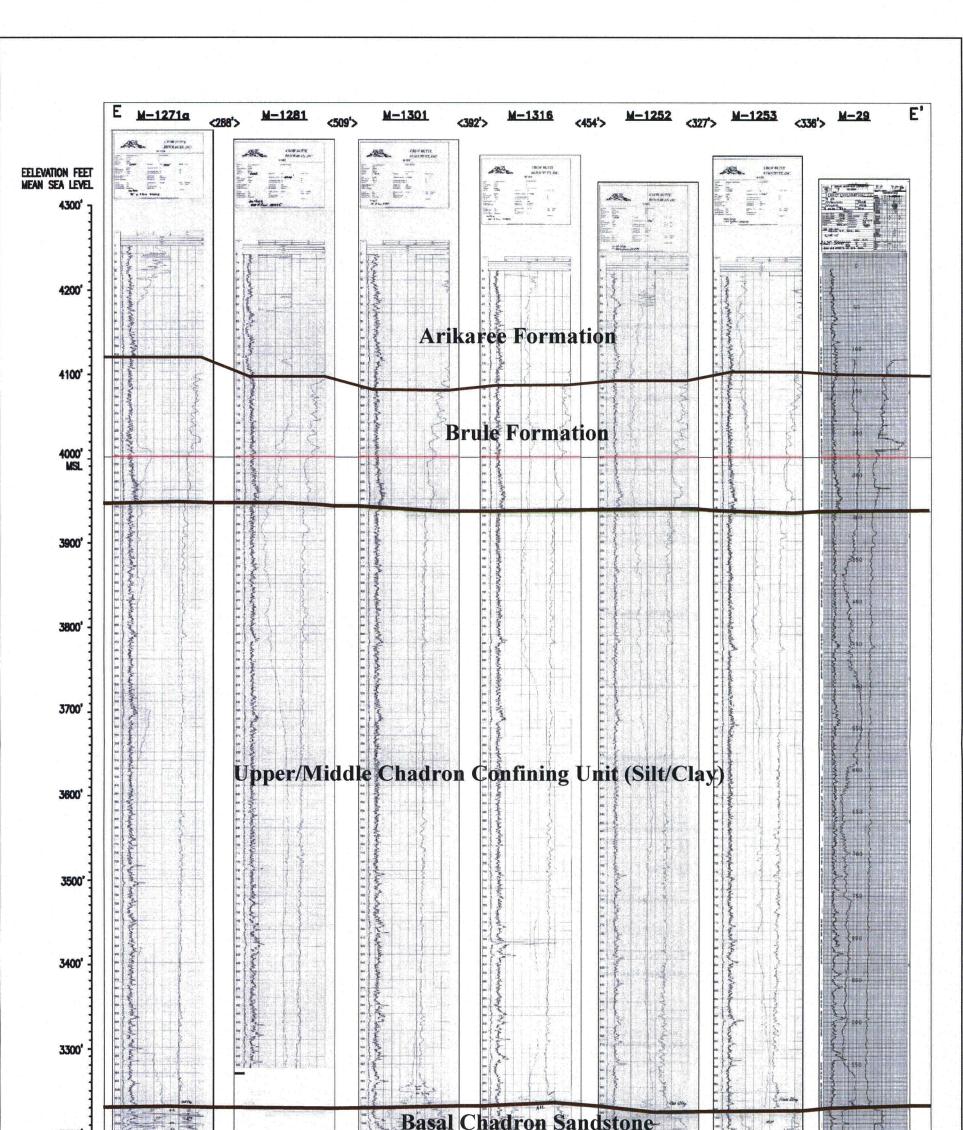
Marsland Regional Hydrologic Testing Report – Test # 8 Crow Butte Project, Marsland Expansion Area, Dawes County, NE

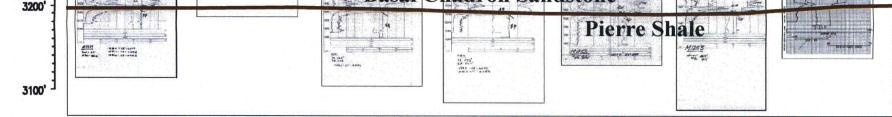


FIGURE:









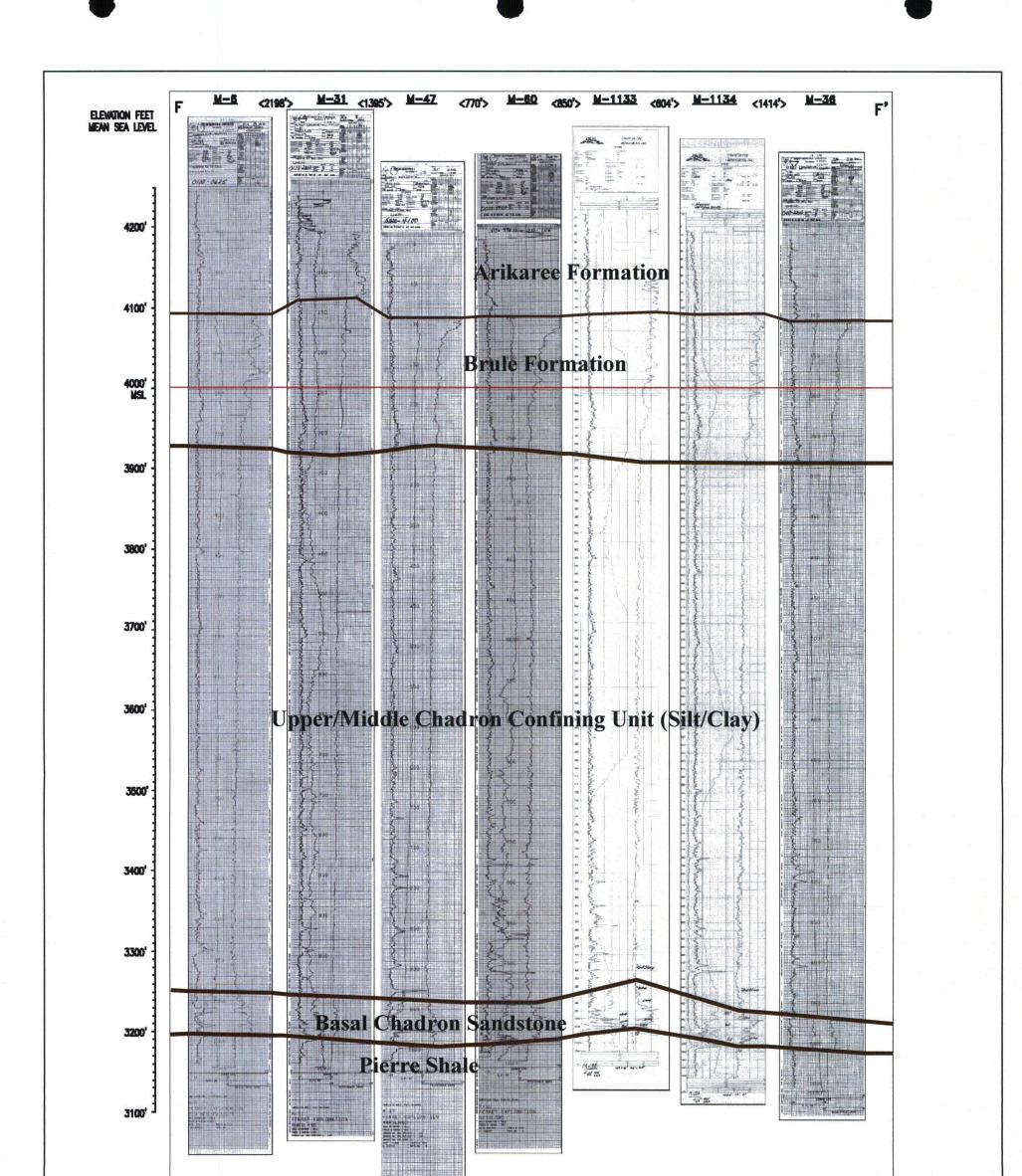
Hydrogeology, Water Resources & Data Services

Marsland Regional Hydrologic Testing Report – Test # 8 Crow Butte Project, Marsland Expansion Area, Dawes County, NE

**Geologic Cross Section E-E'** 



FIGURE:





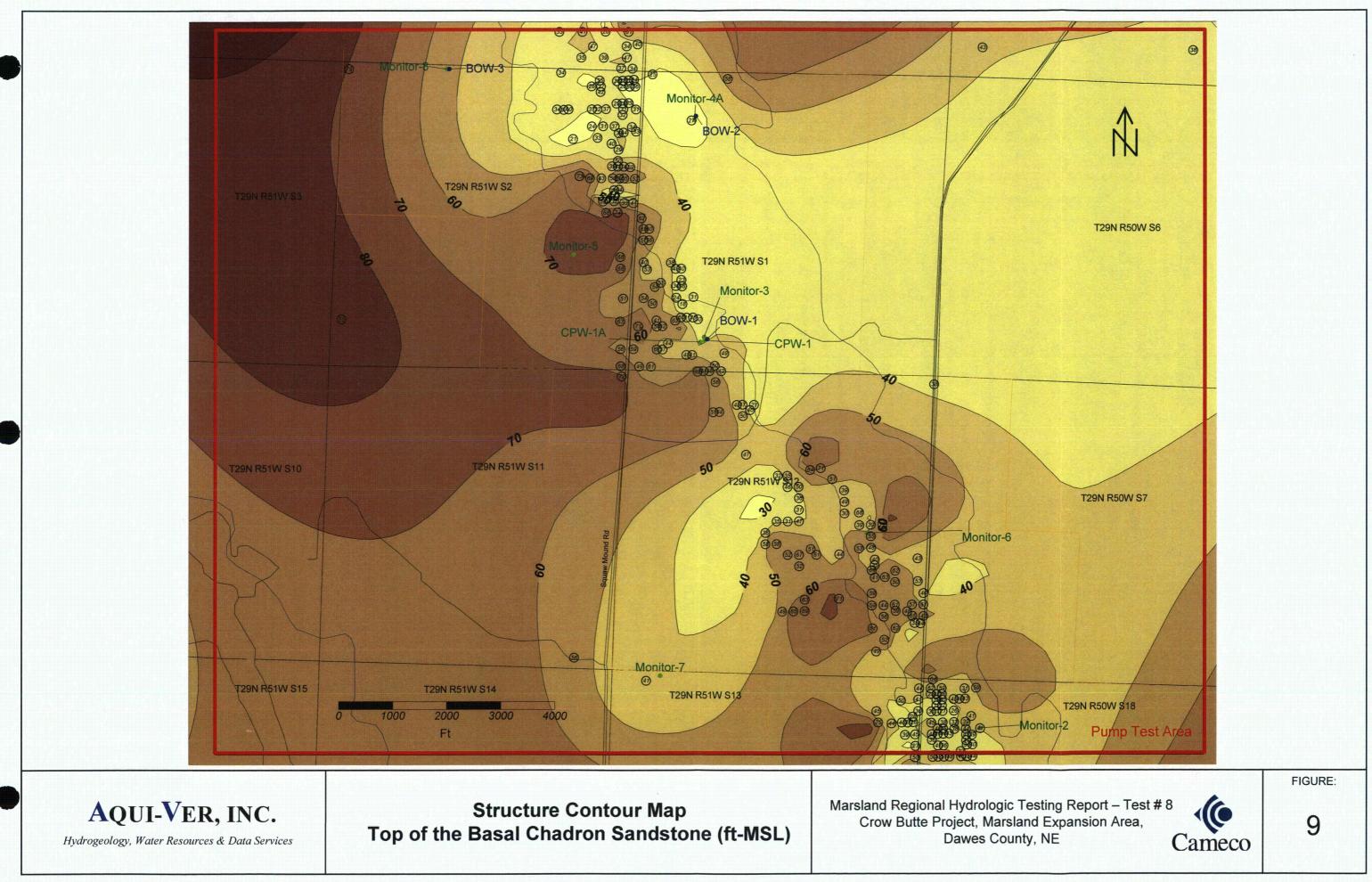
Hydrogeology, Water Resources & Data Services

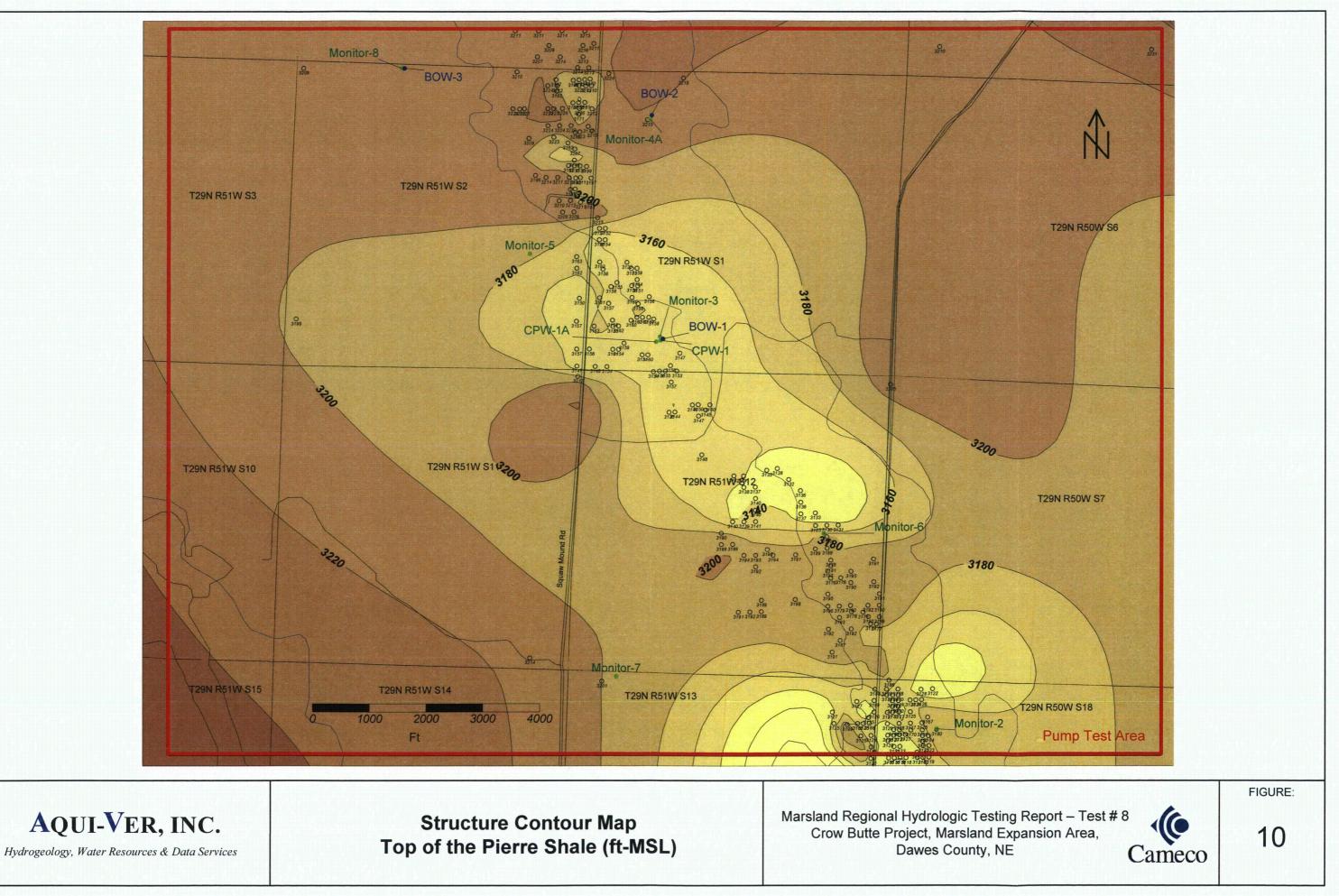
Marsland Regional Hydrologic Testing Report – Test # 8 Crow Butte Project, Marsland Expansion Area, Dawes County, NE

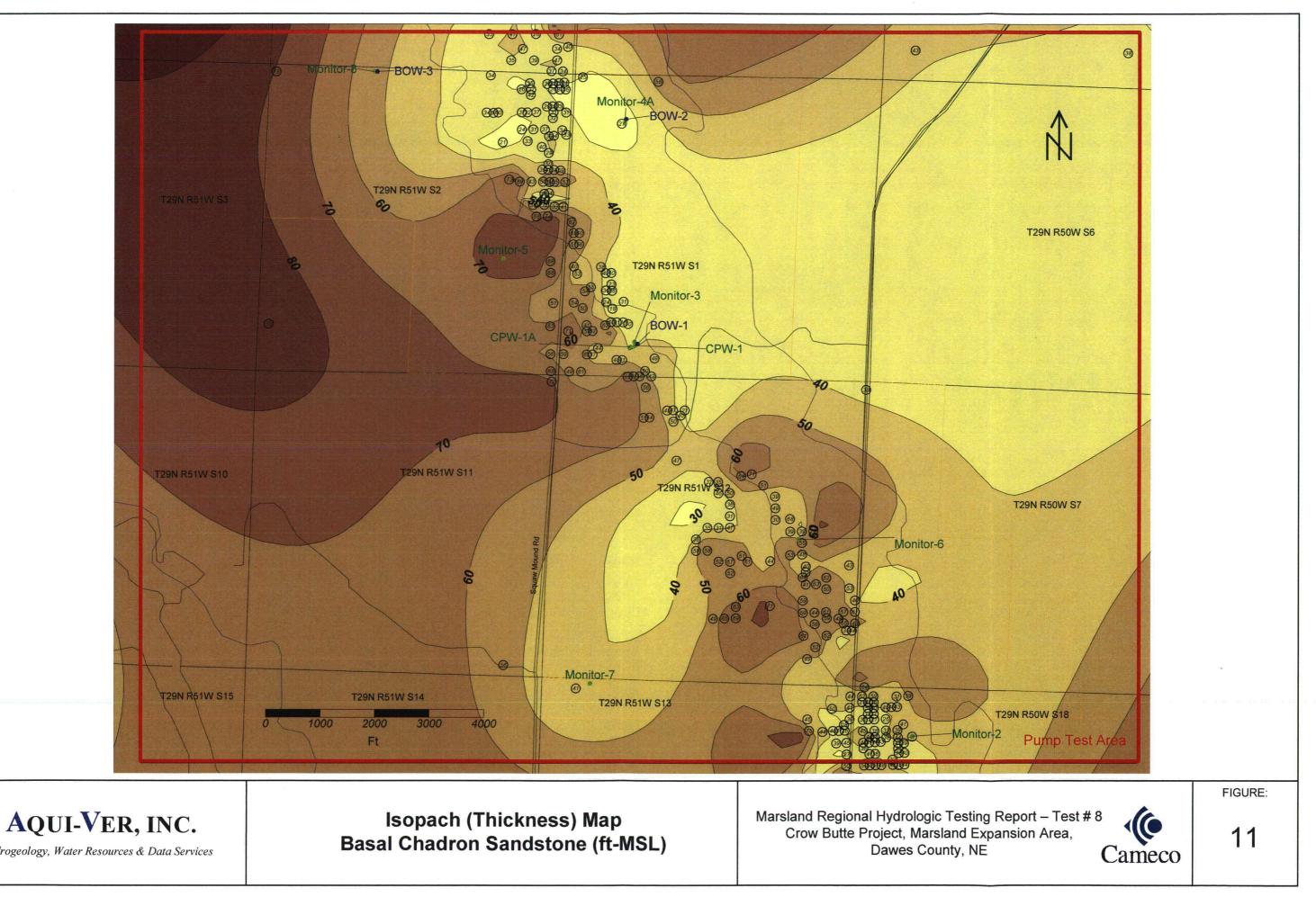
**Geologic Cross Section F-F'** 



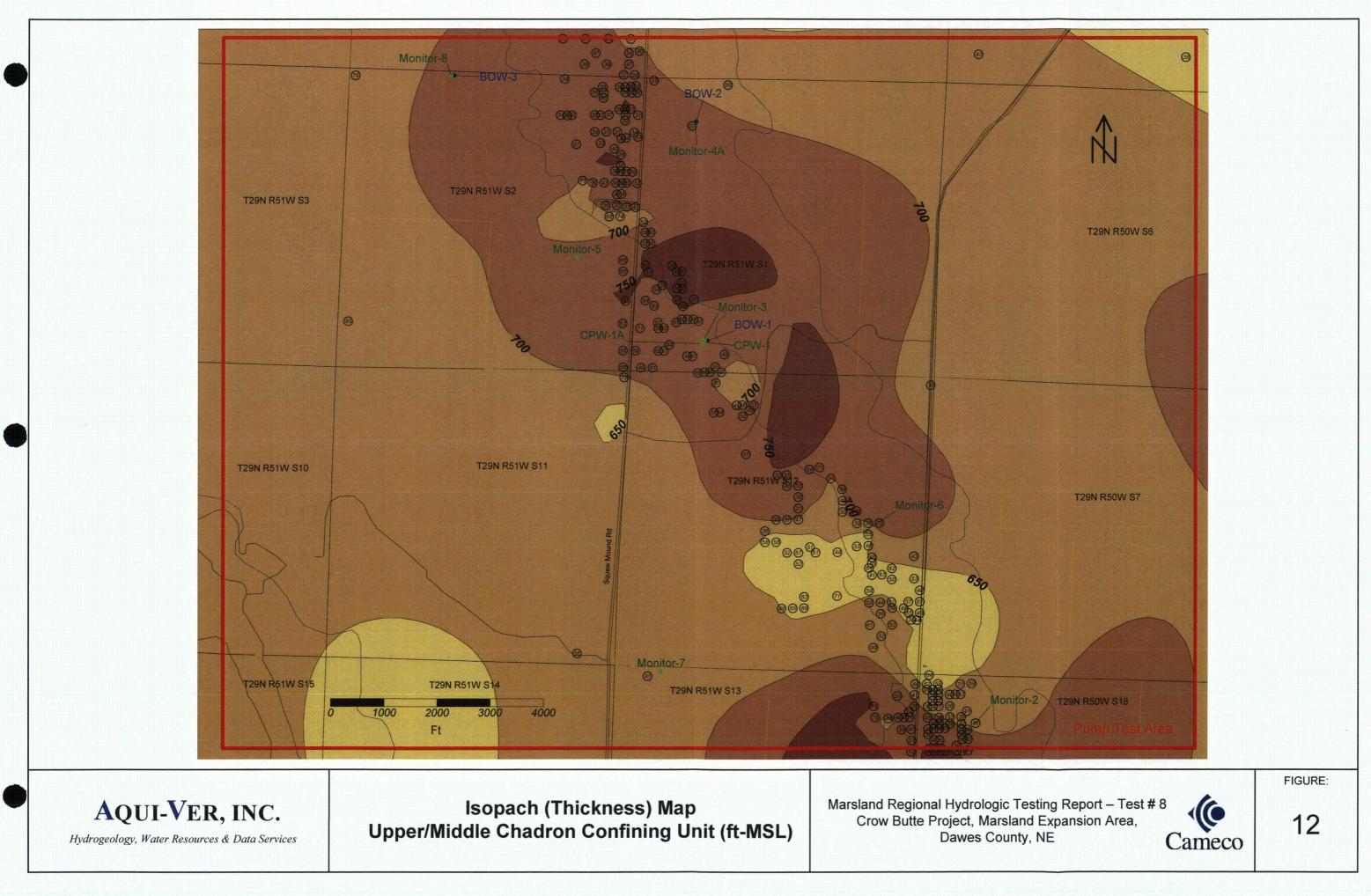
FIGURE:

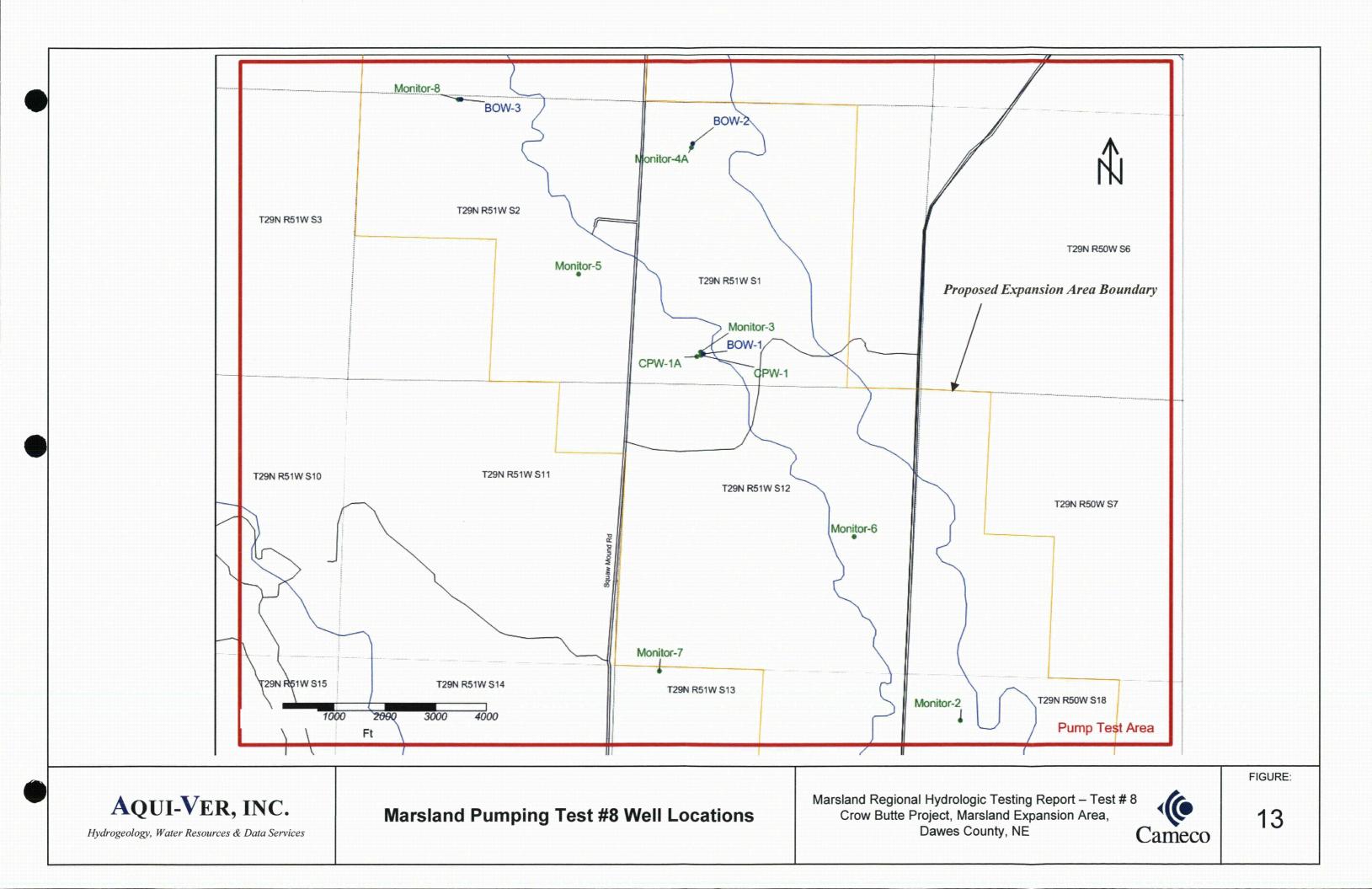


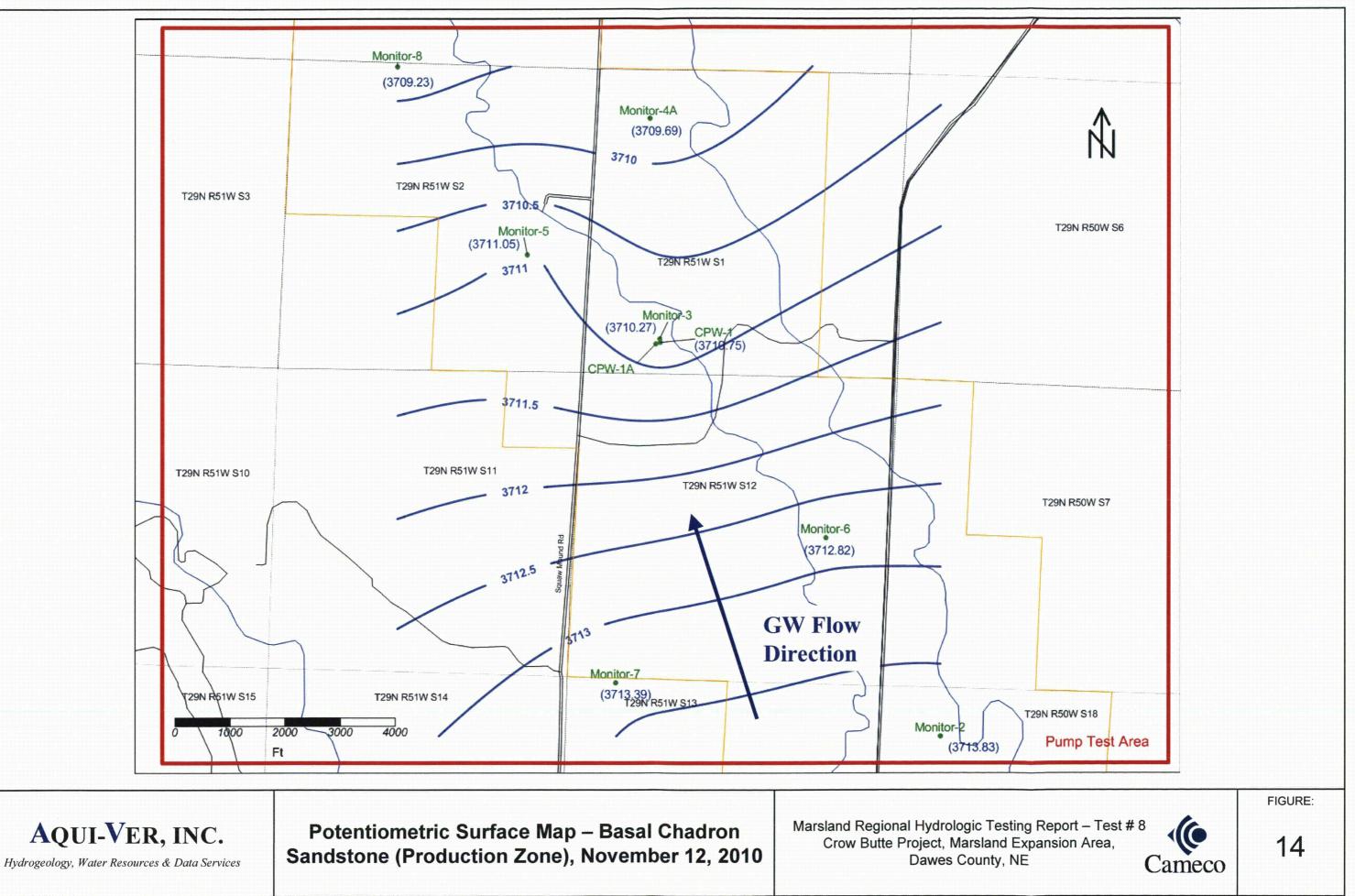




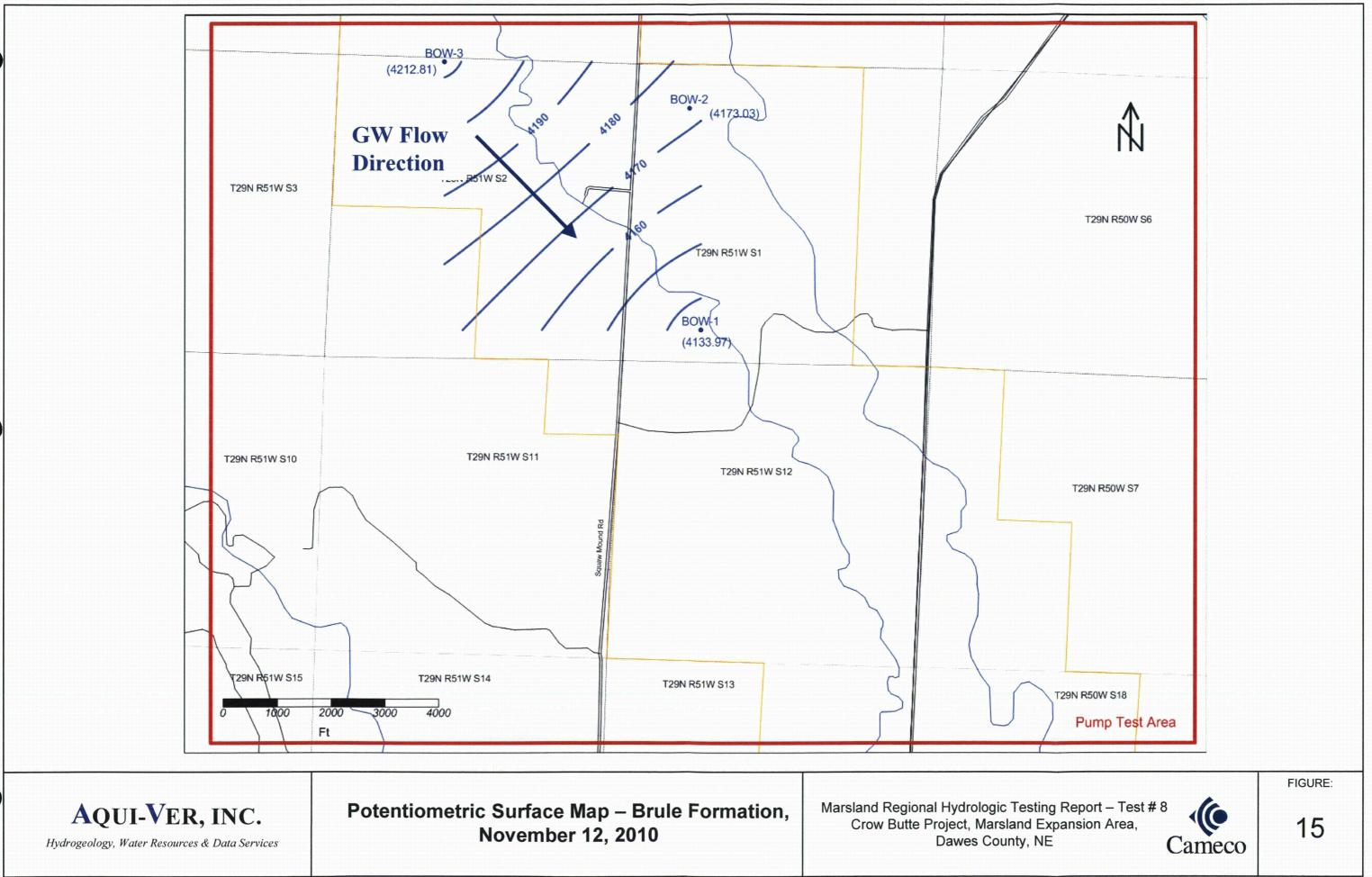
Hydrogeology, Water Resources & Data Services

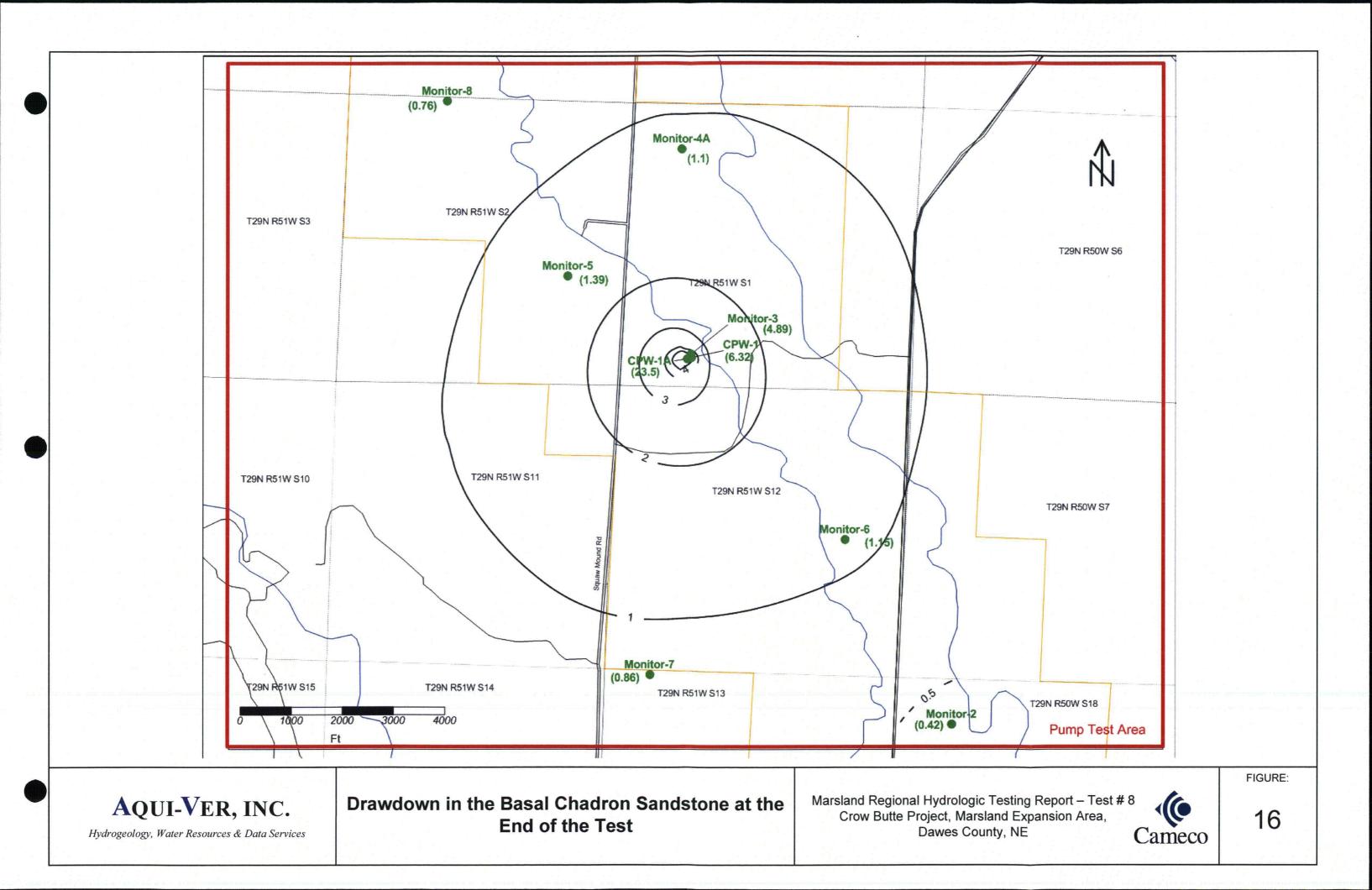


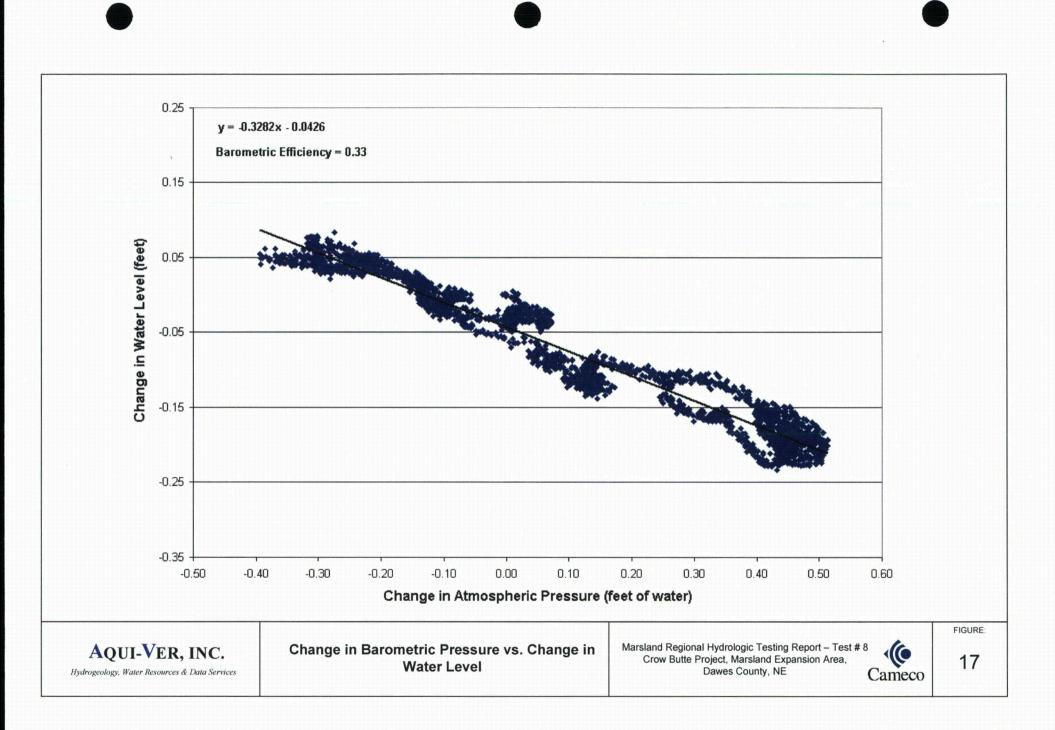


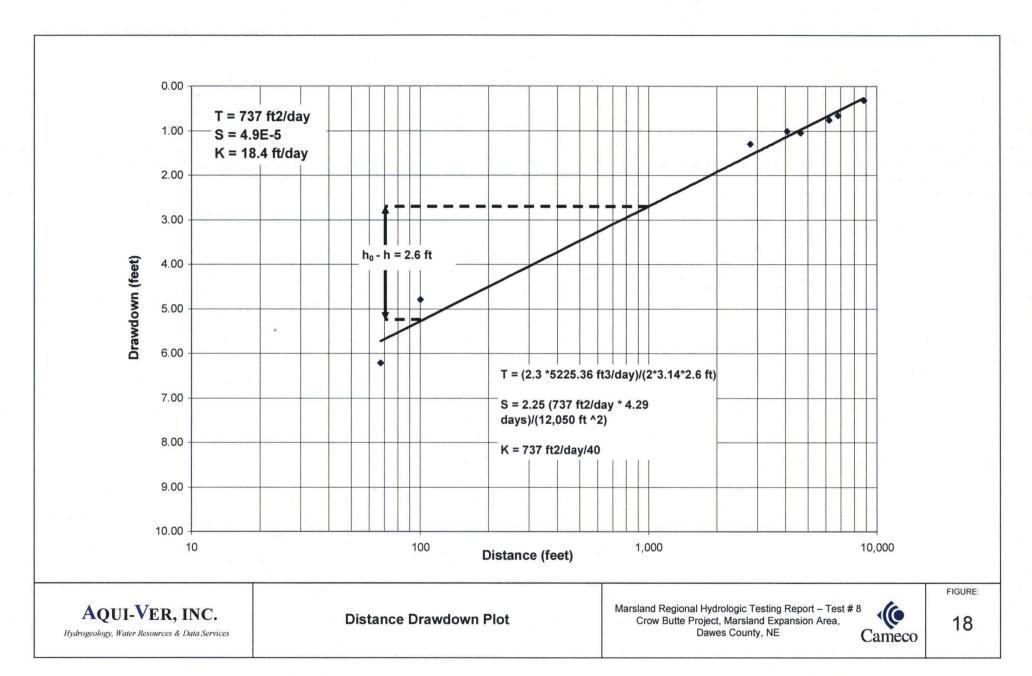


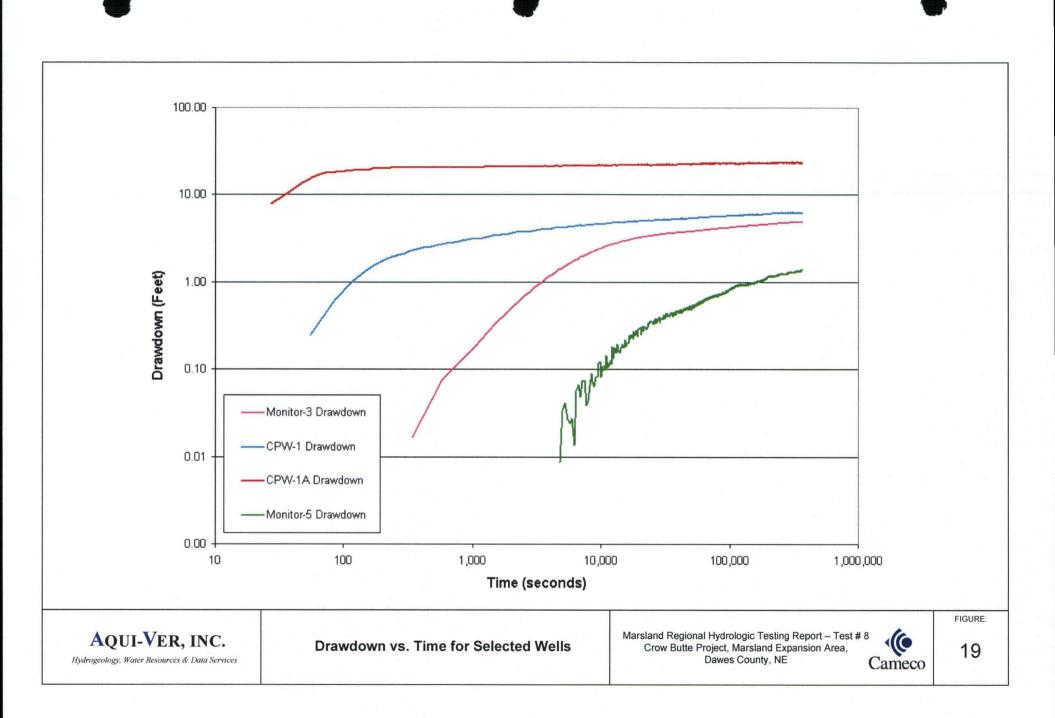
AQUI-VER, INC.

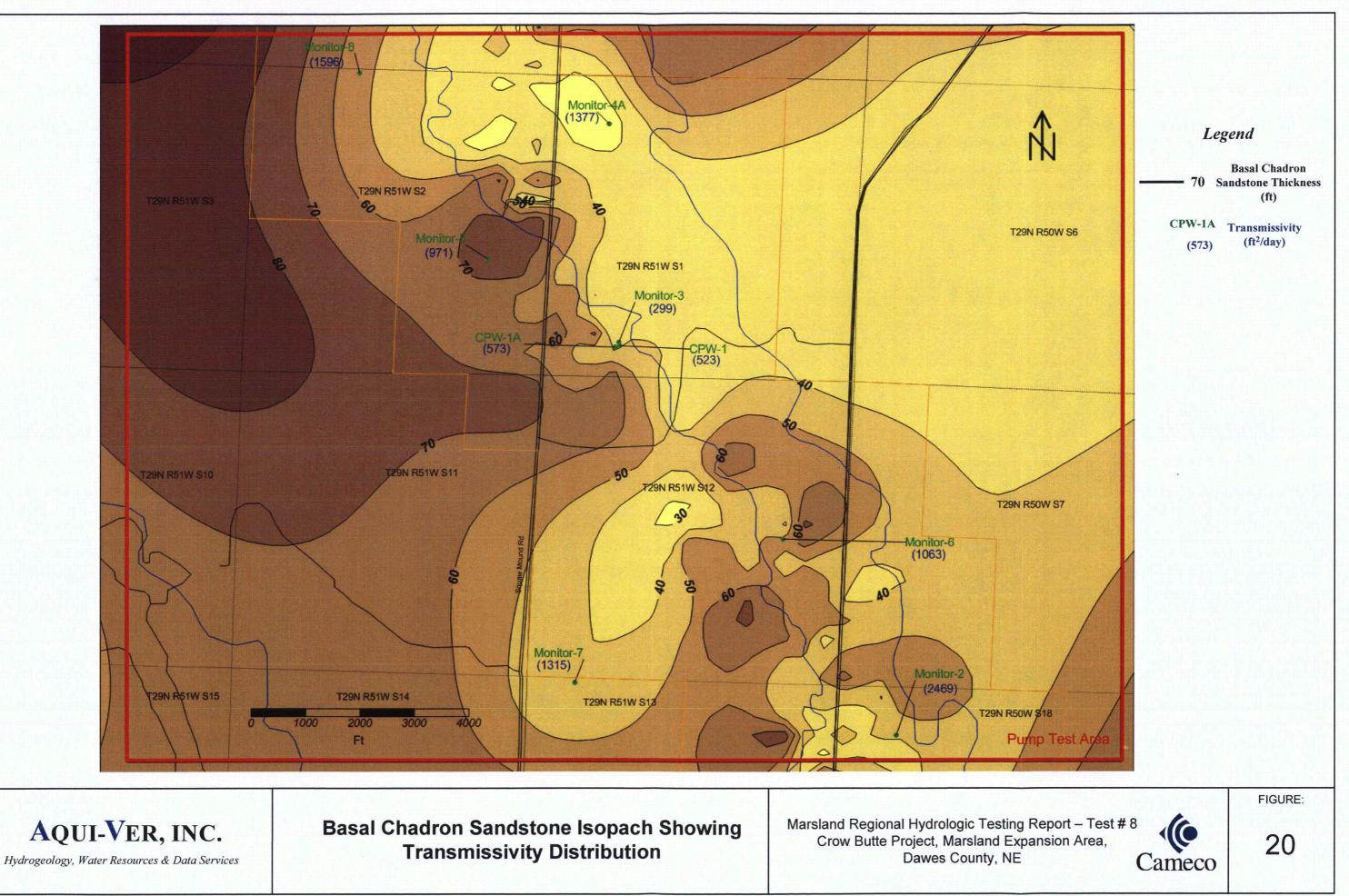












AQUI-VER, INC.





# Appendix A

## WELL COMPLETION REPORTS

Marsland Hydrologic Test Report #8



#### Permit No. NE0122611

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Monitor Ground Elevation: 4259 ft. Drilling Contractor: Landrill Exploration Mud Products: 6 Bags Super Gel 2 Quart Polymer Bit Size: 8 Inch **Drilling Begun:** 8/24/2010 Completed Formation: Brule Casing Diameter: 4.95 inch O.D. 279 ft. Casing Depth: Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220 Ft Screen Size: 3 inch by .020 inch Screened Interval(s): 285 ft. -365 ft. ft. ft.

Completed Formation Upper Boundary: 270 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 10.8 bbls. Cement Density: 12.4 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 0 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 1.2 ft. at 342.2 degrees Remarks: Tremmied 4 bbls to surface

Project:Crow ButteWell No.BOW-2010-1Wellhead Elevation:4260 ft.Driller:J. Lemmon2 Bags Lost Circulation Material

Drilling Completed On:8/26/2010Depth Drilled:420 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:275 ft.

| Gravel Size:        | •             |             |       |     |  |
|---------------------|---------------|-------------|-------|-----|--|
| ft                  | ft.           |             |       |     |  |
| ft                  | ft.           |             |       |     |  |
| Lower Boun          | dary:         | 400 ft.     |       |     |  |
| Operator:           | Klein         |             |       |     |  |
| Actual Ceme         | ed:           | 16.2        | bbls. |     |  |
| Water Volui         | 11.6 bbls.    |             |       |     |  |
| Additives:          | 500 lbs. Salt | 500 lbs. Be | enton | ite |  |
| Density At Surface: |               | 9           | lbs/  | gal |  |
| Operator:           | Dunn          |             |       |     |  |
| Probe No.:          | 9055C         |             |       |     |  |
|                     |               |             |       |     |  |

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist



## Nebraska Department of Environmental Quality

#### Well Completion Report

Company: Crow Butte Resources. Inc. Well Type: Production/Injection Ground Elevation: 4322 ft. Drilling Contractor: Landrill Exploration Mud Products: 7 Bags Super Gel 2 Quart Polymer Bit Size: 8 Inch Drilling Begun: 8/25/2010 Completed Formation: Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 339 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): 338 ft. -398 ft. ft. ft. Completed Formation Upper Boundary: 330 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 13.1 bbls. Cement Density: 12.3 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 0 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 2.7 ft. at 300.1 degrees Remarks: Tremmied 3 bbls to surface

Project: Crow Butte Well No. BOW-2010-2 Wellhead Elevation: 4323 ft. Driller: J. Lemmon 1 Bags Lost Circulation Material Drilling Completed On: 8/27/2010

Depth Drilled:420 ft.Casing Type:White CertalokBasket Depth:N/Aft.Packer Depth:328 ft.

|                         |   |  |  | •  |
|-------------------------|---|--|--|--|
| ft.                     |   |  |  |  |
| ft.                     |   |  |  |  |
| dary:                   | 410 ft.   |  |  |  |
| Klein                   |   |  |  |  |
| Actual Cement Volume Us |   |  | 19.6   | bbls.  |
| ne Used:                | 14  | 4.1  | bbls   | s. ·   |
| 500 lbs. Salt           | 500 lbs.  | Be   | enton  | ite  |
| Density At Surface:     |   | <del>)</del> .4  | lbs/   | gal  |
| Dunn                    |   |  |  |  |
| 9055C                   |   |  |  |  |
|                         | ft.<br>dary:<br>Klein<br>ent Volume Us<br>ne Used:<br>500 lbs. Salt | ft.<br>dary: 410 ft.<br>Klein<br>ent Volume Used:<br>ne Used: 14<br>500 lbs. Salt 500 lbs.<br>Surface: 9<br>Dunn | ft.<br>dary: 410 ft.<br>Klein<br>ent Volume Used:<br>ne Used: 14.1<br>500 lbs. Salt 500 lbs. Bio<br>Surface: 9.4<br>Dunn | ft.<br>dary: 410 ft.<br>Klein<br>ent Volume Used: 19.6<br>ne Used: 14.1 bbls<br>500 lbs. Salt 500 lbs. Benton<br>Surface: 9.4 lbs/<br>Dunn |

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Crow Butte Resources. Inc. Company: Well Type: Production/Injection Monitor х Ground Elevation: 4350 ft. Drilling Contractor: Landrill Exploration Mud Products: 6 Bags Super Gel 1 Quart Polymer Bit Size: 8 Inch 8/20/2010 Drilling Begun: Completed Formation: Brule Casing Diameter: 4.95 inch O.D. Casing Depth: 339 ft. Packer Type: Johnson K-packer Centralizer Depths: 20, 40, 100, 160, 220, 280 Ft

Screen Size: 3 inch by .020 inch 346 ft. -Screened Interval(s): 416 ft. ft. ft. Completed Formation Upper Boundary: 330 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 13.1 bbls. Cement Density: 12.2 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 4 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 3.6 ft. at 320.7 degrees Remarks:

 Project:
 Crow Butte

 Well No.
 BOW-2010-3

 Wellhead Elevation:
 4350 ft.

 Driller:
 L. Corbin

 2 Bags Lost Circulation Material

Drilling Completed On:.8/24/2010Depth Drilled:450 ft.Casing Type:White CertalokBasket Depth:N/A ft.Packer Depth:336 ft.

Gravel Size: ft. ft. ft. ft. Lower Boundary: 440 ft. **Operator:** Klein Actual Cement Volume Used: 19.6 bbls. Water Volume Used: 14.1 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 12.2 lbs/gal **Operator:** Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Permit No. NE0122611

Crow Butte Company: Crow Butte Resources. Inc. Project: Well No. CPW-2010-1 Well Type: Production/Injection Monitor х Ground Elevation: 4260 ft. Wellhead Elevation: 4262 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 11 Bags Super Gel 4 Quart Polymer 2 Bags Lost Circulation Material Bit Size: 8 Inch Drilling Begun: 8/31/2010 Drilling Completed On: 9/2/2010 Completed Formation: Depth Drilled: 1070 ft. Chadron Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok Casing Depth: 1009 ft. Basket Depth: N/A ft. 995 ft. Packer Type: Johnson K-packer Packer Depth: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft Centralizer Depths:

Screen Size: 3 inch by .020 inch 1015 ft. -Screened Interval(s): 1048 ft. ft. ft. Completed Formation Upper Boundary: 1016 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 38.8 bbls. Cement Density: 12.4 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 5 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 4.1 ft. at 203.5 degrees Remarks:

Gravel Size: ft. ft. ft. ft. 1046 ft. Lower Boundary: Operator: Klein Actual Cement Volume Used: 58.2 bbls. Water Volume Used: 41.7 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.6 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

Wade Beins By:

Title : Senior Geologist

Nebraska Department of Environmental Quality

Permit No. NE0122611

**Well Completion Report** 

Crow Butte Resources. Inc. Project: Crow Butte Company: Well No. CPW-2010-1A Well Type: Production/Injection Monitor Wellhead Elevation: 4263 ft. Ground Elevation: 4261 ft. Drilling Contractor: Landrill Exploration Driller: S. Osmotherly **3 Bags Lost Circulation Material** Mud Products: 7 Bags Super Gel 2 Quart Polymer Bit Size: 8 Inch 3/14/2011 Drilling Completed On: 3/16/2011 Drilling Begun: 1080 ft. Completed Formation: Chadron Depth Drilled: 4.95 inch O.D. Casing Diameter: Casing Type: White Certalok 1019 ft. N/A Casing Depth: Basket Depth: ft. Johnson K-packer Packer Depth: 1005 ft. Packer Type: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft Centralizer Depths:

Screen Size: 3 inch by .020 inch 1025 ft. -Screened Interval(s): 1055 ft. ft. ft. -Completed Formation Upper Boundary: 1024 ft. Cement Contractor: Crow Butte Resources 39.2 bbls. Estimated Cement Volume: Cement Density: 12.3 lbs/gal I/II API Cement Type/Class: Cement Circulated to Surface: 4 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 24.9 ft. at 153.3 degrees Remarks:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On: Gravel Size: ft. ft. ft. ft. Lower Boundary: 1050 ft. Klein Operator: Actual Cement Volume Used: 58.8 bbls. Water Volume Used: 42.1 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11 lbs/gal Operator: Dunn Probe No.: 9055C

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Permit No. NE0122611

Company: Crow Butte Resources. Inc. Project: Crow Butte Well Type: Production/Injection Well No. Monitor 2 Monitor х Ground Elevation: 4197 ft. Wellhead Elevation: 4198 ft. Drilling Contractor: Landrill Exploration Driller: G. Land **Mud Products:** Bit Size: 8 Inch Drilling Begun: 4/7/1989 4/9/1989 Drilling Completed On: Completed Formation: Depth Drilled: 1030 ft. Chadron Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 974 ft. Casing Depth: Basket Depth: N/A ft. Packer Type: Johnson K-packer Packer Depth: 974 ft. Centralizer Depths: ### Screen Size: 3 inch by .020 inch Gravel Size: 1015 ft. 980 ft. ft. -Screened Interval(s): ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 974 ft. Lower Boundary: 1015 ft. Cement Contractor: Crow Butte Resources Klein Operator: Estimated Cement Volume: 37.5 bbls. Actual Cement Volume Used: 56.2 bbls. Cement Density: Not Avai lbs/gal Water Volume Used: bbls. Cement Type/Class: I/II API Additives: 500 lbs. Salt 500 lbs. Bentonite Cement Circulated to Surface: Not Avai bbls. Not Availa lbs/gal Density At Surface: Logging Contractor: Century Geophysical Corp. Operator: Dunn Unit No.: 0001 Probe No.: 9055C Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 14.6 ft. at 128 degrees Remarks:

#### Certification:

Representing:

On:

This report was filled out by:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

Wade Beins

Crow Butte Resources, Inc.

Wade Beins By:

Title : Senior Geologist

#### Permit No. NE0122611

58.1 bbls. bbls. Bentonite

| Company: Crow Butte Resources. Inc.           | Project: Crow Butte                         |  |  |
|---|---|--|--|
| Well Type: Production/Injection Monitor X     | Well No. Monitor 3                          |  |  |
| Ground Elevation: 4260 ft.                    | Wellhead Elevation: 4261 ft.                |  |  |
| Drilling Contractor: Landrill Exploration     | Driller: G. Land                            |  |  |
| Mud Products:                                 |   |  |  |
| Bit Size: 8 Inch                              |   |  |  |
| Drilling Begun: 4/14/1989                     | Drilling Completed On: 4/18/1989            |  |  |
| Completed Formation: Chadron                  | Depth Drilled: 1070 ft.                     |  |  |
| Casing Diameter: 4.95 inch O.D.               | Casing Type: White Certalok                 |  |  |
| Casing Depth: 1008 ft.                        | Basket Depth: N/A ft.                       |  |  |
| Packer Type: Johnson K-packer                 | Packer Depth: 1008 ft.                      |  |  |
| Centralizer Depths: ###                       |   |  |  |
|   |   |  |  |
| Screen Size: 3 inch by .020 inch              | Gravel Size:                                |  |  |
| Screened Interval(s): 1015 ft 1050 ft.        | ft ft.                                      |  |  |
| ft ft.  | ft ft.                                      |  |  |
| Completed Formation Upper Boundary: 1014 ft.  | Lower Boundary: 1046 ft.                    |  |  |
| Cement Contractor: Crow Butte Resources       | Operator: Klein                             |  |  |
| Estimated Cement Volume: 38.8 bbls.           | Actual Cement Volume Used: 58.1 bb          |  |  |
| Cement Density: Not Avai lbs/gal              | Water Volume Used: bbls.                    |  |  |
| Cement Type/Class: I/II API                   | Additives: 500 lbs. Salt 500 lbs. Bentonite |  |  |
| Cement Circulated to Surface: Not Avai bbls.  | Density At Surface: Not Availa lbs/gal      |  |  |
| Logging Contractor: Century Geophysical Corp. | Operator: Dunn                              |  |  |
| Unit No.: 0001                                | Probe No.: 9055C                            |  |  |
| Log Type: Gamma, SP, Resistance, Deviation    |   |  |  |
| Well Deviation: 13.8 ft. at 72 degrees        |   |  |  |
| Remarks:                                      |   |  |  |
|   | •   |  |  |

Crow Butte Resources, Inc. Representing: On:

This report was filled out by:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

Wade Beins

By: Wade Beins

Title : Senior Geologist

Permit No. NE0122611

| Company:      | Crow B     | utte Resources. Inc. |                           | Project:           | Crow Butte     |                 |
|---------------|------------|----------------------|---------------------------|--------------------|----------------|-----------------|
| Well Type:    | Production | /Injection           | Monitor X                 | Well No.           | Monitor 4A     |                 |
| Ground Elev   | vation:    | 4326 1               | ft.                       | Wellhead El        | evation:       | 4328 ft.        |
| Drilling Con  | tractor:   | Landrill Exploratio  | n                         | Driller:           | L. Corbin      |                 |
| Mud Produc    | ts: 6      | 5 Bags Super Gel     | 3 Quart Polymer           | :                  |                |                 |
| Bit Size:     | 8 Inch     |                      |                           |                    |                | <i>2</i>        |
| Drilling Beg  | un:        | 11/3/2010            |                           | Drilling Cor       | npleted On:    | 11/5/2010       |
| Completed H   | Formation  | n: Chadron           |                           | Depth Drille       | xd:            | 1140 ft.        |
| Casing Dian   | neter:     | 4.95 inch O.D.       |                           | Casing Type        | : White C      | Certalok        |
| Casing Dept   | h:         | 1079 ft.             |                           | Basket Dept        | h: N/A         | ft.             |
| Packer Type   | : Joh      | nson K-packer        | ·                         | Packer Dept        | h: 106         | 50 ft.          |
| Centralizer I | Depths:    | 20, 40, 100, 160, 22 | 20, 280, 340, 400, 460, 5 | 20, 580, 640, 700, | , 760, 820, 88 | 0, 940, 1000 Ft |

Screen Size: 3 inch by .020 inch 1080 ft. -Screened Interval(s): 1110 ft. ft. ft. **Completed Formation Upper Boundary:** 1081 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 41.5 bbls. Cement Density: 12.5 lbs/gal I/II API Cement Type/Class: Cement Circulated to Surface: 8 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 11.3 ft. at 53.7 degrees Remarks:

Gravel Size: ft. ft. ft. ft. Lower Boundary: 1109 ft. Operator: Klein Actual Cement Volume Used: 62.2 bbls. Water Volume Used: 44.6 bbls. 500 lbs. Salt 500 lbs. Bentonite Additives: Density At Surface: 11.9 lbs/gal Operator: Dunn 9055C Probe No.:

This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Title : By: Wade Beins Senior Geologist Date:



| Company: Crow Butte Resources. Inc.                                   | Project:       | Crow Butte     |                 |
|---|----------------|----------------|-----------------|
| Well Type: Production/Injection Monitor X                             | Well No.       | Monitor 5      |                 |
| Ground Elevation: 4337 ft.  | Wellhead Ele   | evation:       | 4340 ft.        |
| Drilling Contractor: Landrill Exploration                             | Driller:       | J. Lemmon      |                 |
| Mud Products: 8 Bags Super Gel 7 Quart Polymer                        | 3 Bags Lo      | st Circulation | Material        |
| Bit Size: 8 Inch  |                |                |                 |
| Drilling Begun: 8/30/2010   | Drilling Com   | pleted On:     | 9/1/2010        |
| Completed Formation: Chadron  | Depth Drille   | d:             | 1140 ft.        |
| Casing Diameter: 4.95 inch O.D.                                       | Casing Type    | : White C      | Certalok        |
| Casing Depth: 1069 ft.  | Basket Dept    | h: N/A         | ft.             |
| Packer Type: Johnson K-packer   | Packer Dept    | h: 106         | 0 ft.           |
| Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 5 | 580, 640, 700, | 760, 820, 880  | 0, 940, 1000 Ft |

Screen Size: 3 inch by .020 inch Screened Interval(s): 1070 ft. -1120 ft. ft. ft. 1066 ft. Completed Formation Upper Boundary: Cement Contractor: Crow Butte Resources Estimated Cement Volume: 41.1 bbls. Cement Density: 12.2 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Log Type: Gamma, SP, Resistance, Deviation Well Deviation: 142.1 degrees 27 ft. at Remarks:

Gravel Size: ft. ft. ft. ft. 1116 ft. Lower Boundary: Klein Operator: Actual Cement Volume Used: 61.7 bbls. Water Volume Used: 44.2 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.5 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

4215 ft.

8/18/2010

Company: Crow Butte Resources. Inc. Project: Crow Butte Well Type: Production/Injection Well No. Monitor 6 Monitor х 4214 ft. Wellhead Elevation: Ground Elevation: Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 13 Bags Super Gel 8 Quart Polymer 4 Bags Lost Circulation Material Bit Size: 8 Inch 8/16/2010 Drilling Completed On: Drilling Begun: **Completed Formation:** Chadron Depth Drilled: 1050 ft. 4.95 inch O.D. Casing Type: White Certalok Casing Diameter: 989 ft. N/A ft. Casing Depth: Basket Depth: Packer Depth: 982 ft. Packer Type: Johnson K-packer

Centralizer Depths: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft

Screen Size: 3 inch by .020 inch Screened Interval(s): .992 ft. -1025 ft. ft. ft. 982 ft. **Completed Formation Upper Boundary:** Cement Contractor: Crow Butte Resources **Estimated Cement Volume:** 38.1 bbls. 12 lbs/gal Cement Density: Cement Type/Class: I/II API Cement Circulated to Surface: 3 bbls. Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 17.1 ft. at 37.3 degrees Remarks:

ft. ft. ft. ft. 1023 ft. Lower Boundary: Operator: Klein Actual Cement Volume Used: 57.1 bbls. Water Volume Used: 40.9 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 10 lbs/gal Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

#### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

May 27, 2011

Gravel Size:

Permit No. NE0122611

Company: · Crow Butte Resources. Inc. Project: Crow Butte Monitor 7 Well No. Well Type: Production/Injection Monitor х Ground Elevation: Wellhead Elevation: 4244 ft. 4243 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 6 Bags Super Gel 6 Quart Polymer 3 Bags Lost Circulation Material Bit Size: 8 Inch Drilling Begun: 8/20/2010 Drilling Completed On: 8/23/2010 Completed Formation: 1080 ft. Chadron Depth Drilled: Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok ft. Casing Depth: 999 ft. Basket Depth: N/A Packer Type: Packer Depth: 993 ft. Johnson K-packer 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940 Ft Centralizer Depths:

Screen Size: 3 inch by .020 inch 1003 ft. -Screened Interval(s): 1046 ft. ft. ft. . Completed Formation Upper Boundary: 1007 ft. Cement Contractor: Crow Butte Resources Estimated Cement Volume: 38.4 bbls. Cement Density: 11.7 lbs/gal Cement Type/Class: I/II API Cement Circulated to Surface: bbls. 2 Logging Contractor: Century Geophysical Corp. Unit No.: 0001 Gamma, SP, Resistance, Deviation Log Type: Well Deviation: 32.2 ft. at 159.9 degrees Remarks:

Gravel Size: ft. ft. ft. ft. Lower Boundary: 1044 ft. Operator: Klein Actual Cement Volume Used: 57.6 bbls. Water Volume Used: 41.3 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite 10.2 lbs/gal **Density At Surface:** Operator: Dunn Probe No.: 9055C

This report was filled out by:Wade BeinsRepresenting:Crow Butte Resources, Inc.On:

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins

Title : Senior Geologist

Company: Crow Butte Resources. Inc. Project: Crow Butte Well No. Monitor 8 Well Type: Production/Injection Monitor Х Ground Elevation: Wellhead Elevation: 4354 ft. 4352 ft. Drilling Contractor: Landrill Exploration Driller: L. Corbin Mud Products: 10 Bags Super Gel 4 Quart Polymer 4 Bags Lost Circulation Material Bit Size: 8 Inch Drilling Begun: 8/27/2010 Drilling Completed On: 8/30/2010 1150 ft. **Completed Formation:** Chadron Depth Drilled: Casing Diameter: 4.95 inch O.D. Casing Type: White Certalok 1079 ft. N/A ft. Casing Depth: Basket Depth: 1067 ft. Packer Type: Johnson K-packer Packer Depth: 20, 40, 100, 160, 220, 280, 340, 400, 460, 520, 580, 640, 700, 760, 820, 880, 940, 1000 Ft Centralizer Depths: 3 inch by .020 inch Gravel Size: Screen Size: 1087 ft. ft. -Screened Interval(s): 1127 ft. ft. ft. ft. ft. ft. Completed Formation Upper Boundary: 1085 ft. Lower Boundary: 1123 ft. Cement Contractor: Crow Butte Resources Operator: Klein Estimated Cement Volume: 41.5 bbls. Actual Cement Volume Used: Cement Density: 12.8 lbs/gal

Well Deviation: 38.5 ft. at 173.6 degrees Remarks: This report was filled out by: Wade Beins Representing: Crow Butte Resources, Inc. On:

I/II API

Gamma, SP, Resistance, Deviation

5

Century Geophysical Corp.

bbls.

62.2 bbls. Water Volume Used: 44.6 bbls. Additives: 500 lbs. Salt 500 lbs. Bentonite Density At Surface: 11.5 lbs/gal Operator: Dunn Probe No.: 9055C

Certification:

Cement Type/Class:

Logging Contractor:

Unit No.:

Log Type:

Cement Circulated to Surface:

0001

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and all its attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date:

By: Wade Beins Beine

Title : Senior Geologist