

Explanation

- LFG Sand Monitor Well
- - - Lost Creek Fault
- Index Surface Contour Interval - 50ft.



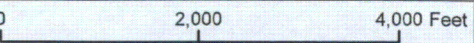
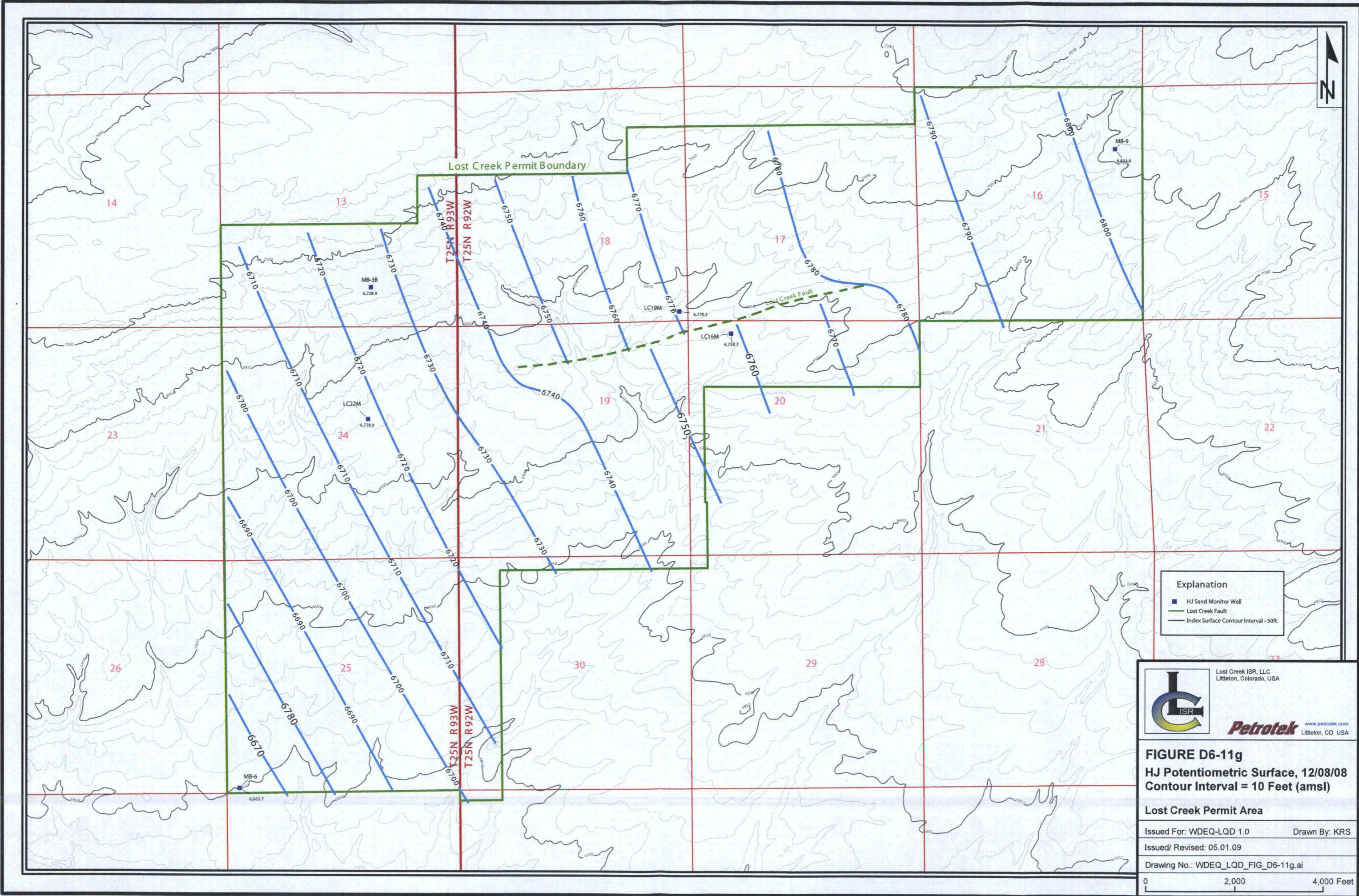

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FIGURE D6-11f
LFG Potentiometric Surface, 12/08/08
Contour Interval = 10 Feet (amsl)

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Drawing No.: WDEQ_LQD_FIG_D6-11f.ai	
	



Explanation

- HJ Sand Monitor Well
- - - Lost Creek Fault
- Index Surface Contour Interval - 50ft.



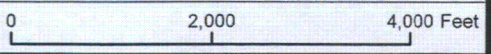
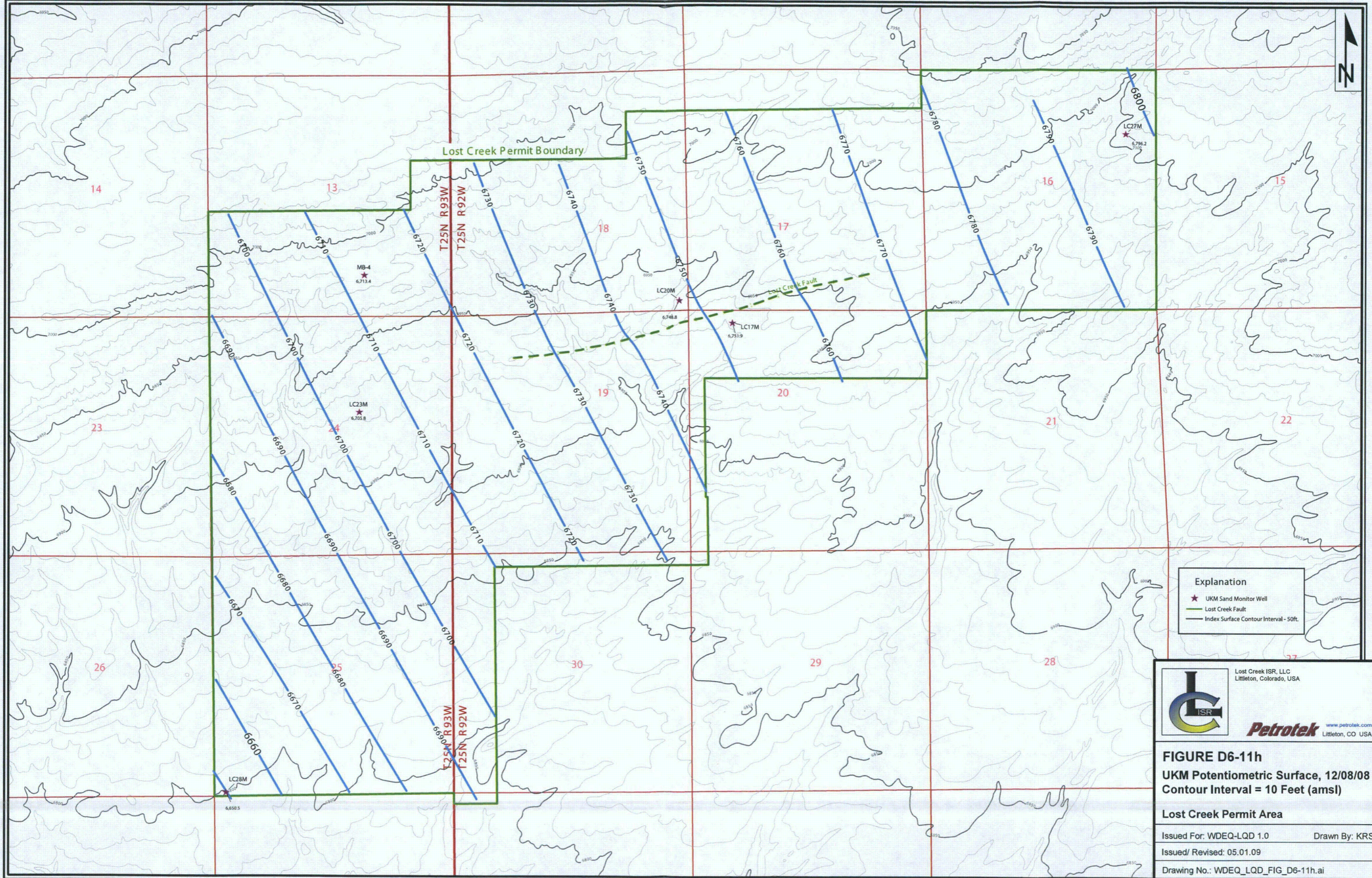

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FIGURE D6-11g
HJ Potentiometric Surface, 12/08/08
Contour Interval = 10 Feet (amsl)

Lost Creek Permit Area

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 Drawing No.: WDEQ_LQD_FIG_D6-11g.ai





Explanation

- ★ UKM Sand Monitor Well
- - - Lost Creek Fault
- Index Surface Contour Interval - 50ft.

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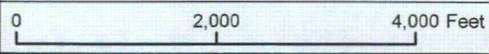
FIGURE D6-11h
UKM Potentiometric Surface, 12/08/08
Contour Interval = 10 Feet (amsl)

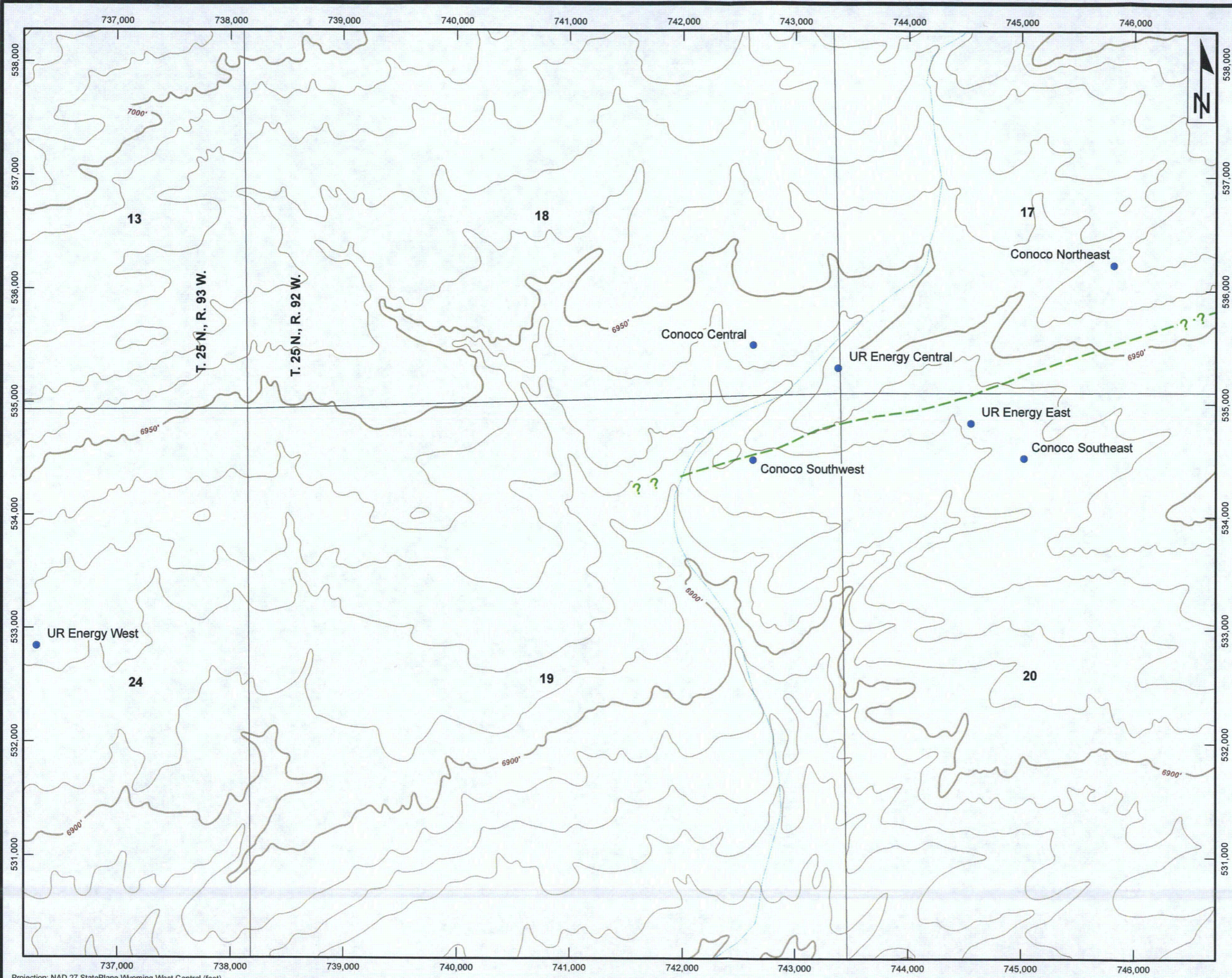
Lost Creek Permit Area

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Issued/ Revised: 05.01.09

Drawing No.: WDEQ_LQD_FIG_D6-11h.ai





Legend

- Well Group
- - - Lost Creek Fault

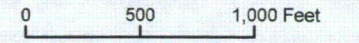
Scale: 1:10,000

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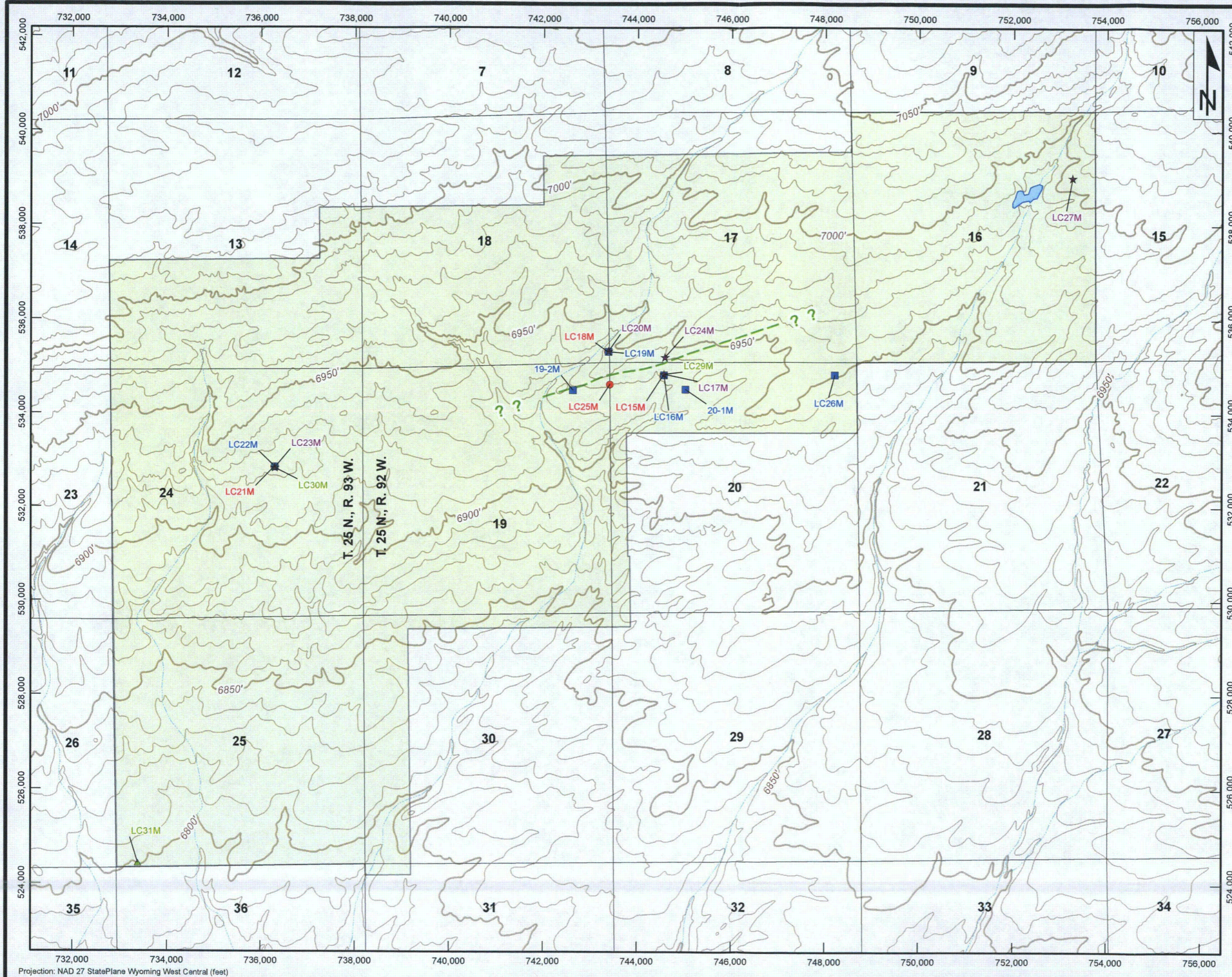
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FIGURE D6-12 Location of Well Groups Used to Evaluate Vertical Hydraulic Gradients

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Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- Pump Test Locations 1982-2006
 - ▲ DE Horizon
 - LFG Horizon
 - HJ Horizon
 - ★ UKM Horizon
- Lost Creek Fault
- ▭ Lost Creek Permit Area
- Intermediate Contour Interval - 10ft.
- Index Contour Interval - 50ft.

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FIGURE D6-13
Location of Pump Tests
Conducted in 1982 and 2006
Lost Creek Permit Area

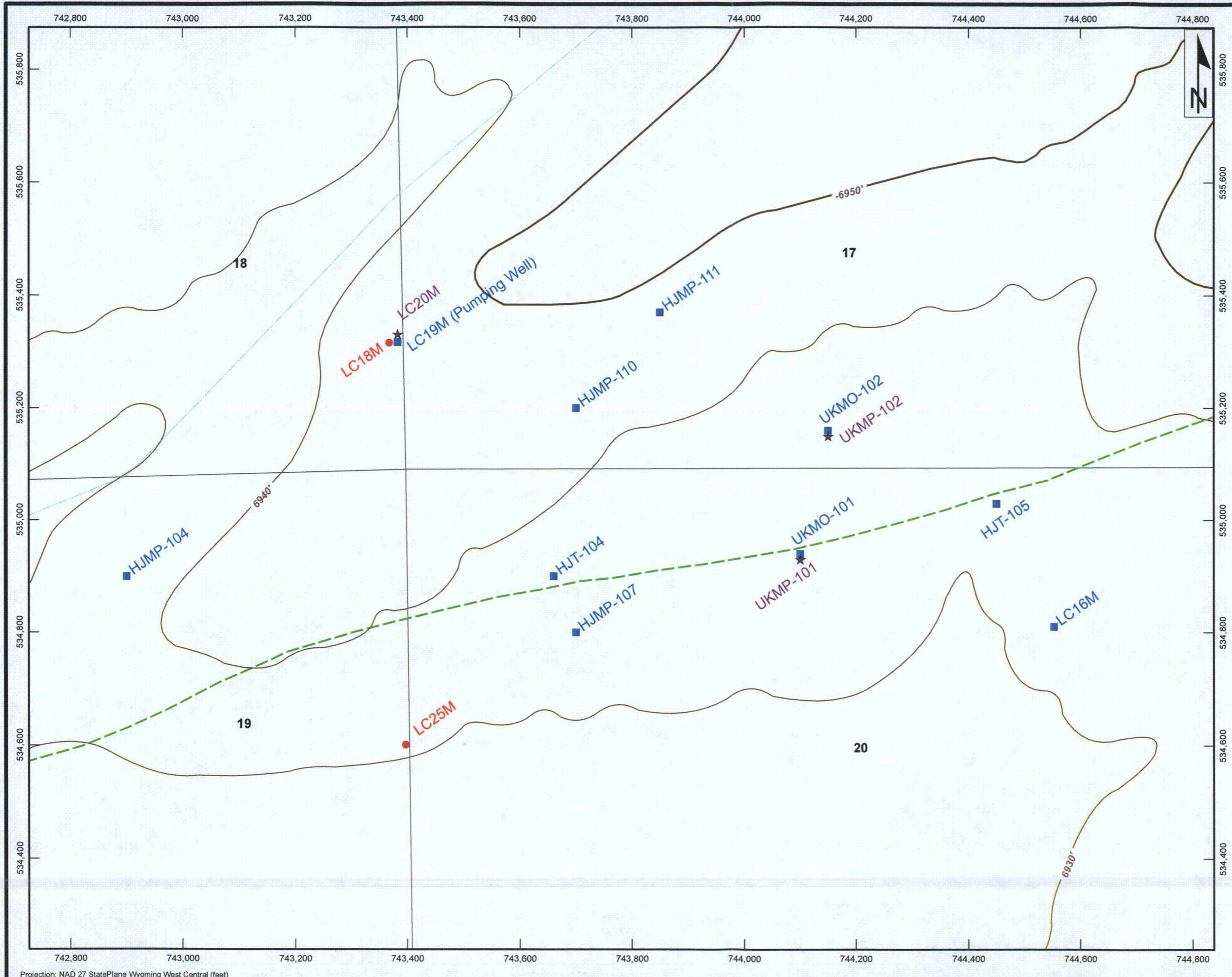
Issued For: WDEQ-LQD 1.0 Drawn By: JM

Issued/ Revised: 05.01.09

Drawing No.: WDEQ_LQD_FIG_D6-13.mxd

0 1,000 2,000 Feet

Projection: NAD 27 StatePlane Wyoming West Central (feet)



- ### Legend
- HJ Monitor Well
 - LFG Monitor Well
 - ★ UKM Monitor Well
 - Lost Creek Fault

Scale: 1:2,000

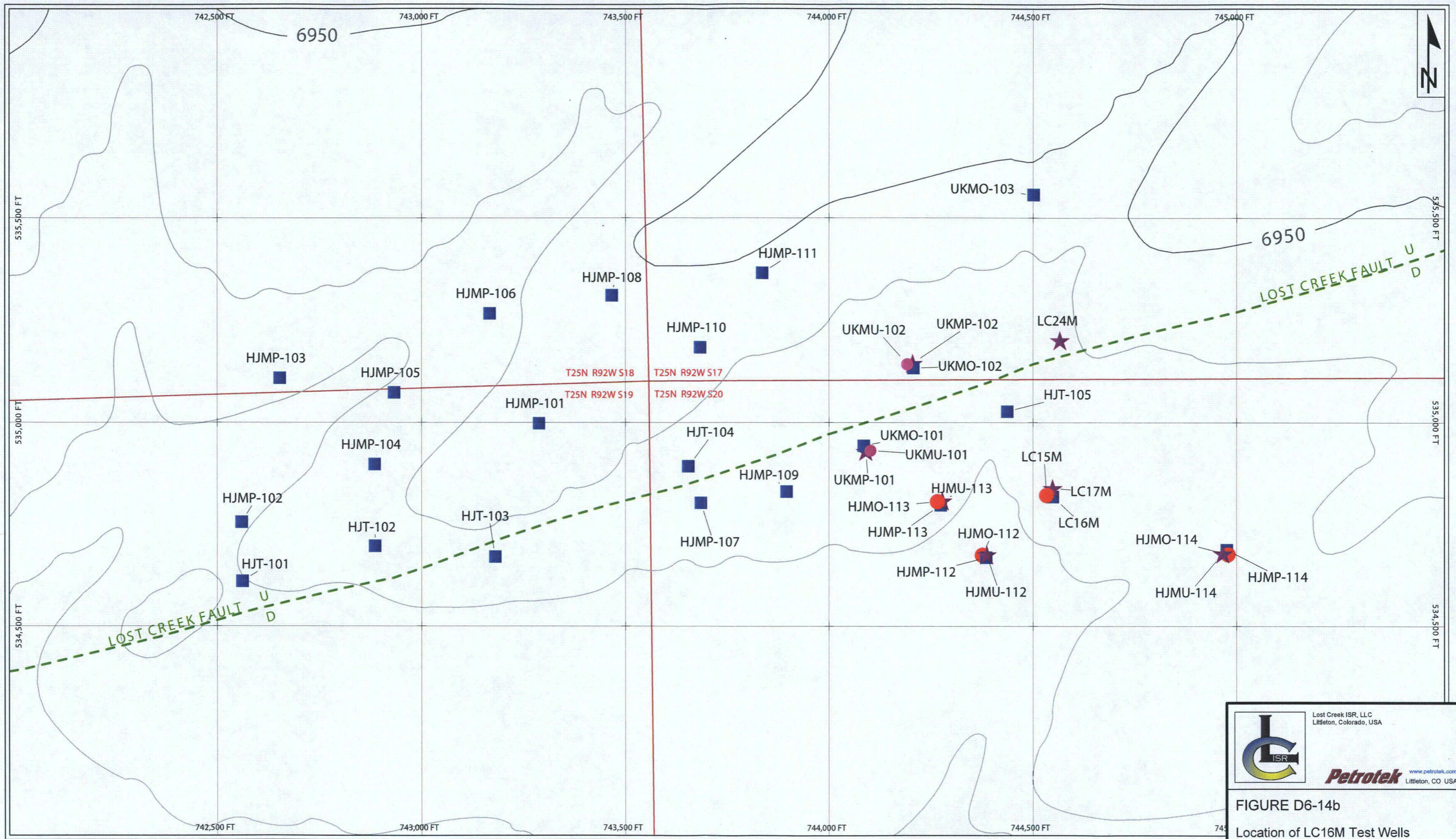
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FIGURE D6-14a
Location of LC19M Pump Test
and Monitoring Wells, 2007

Lost Creek Permit Area	
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Issued/ Revised: 12.04.08	
Drawing No.: WDEQLQD_FIG_D6-14a.mxd	


Projection: NAD 27 StatePlane Wyoming West Central (feet)



- Legend**
- Well Symbols
 - LFG Horizon
 - HJ Horizon
 - ★ UKM Horizon
 - MKM Horizon
 - Surface Contour Interval - 10ft.

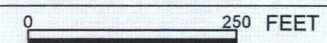


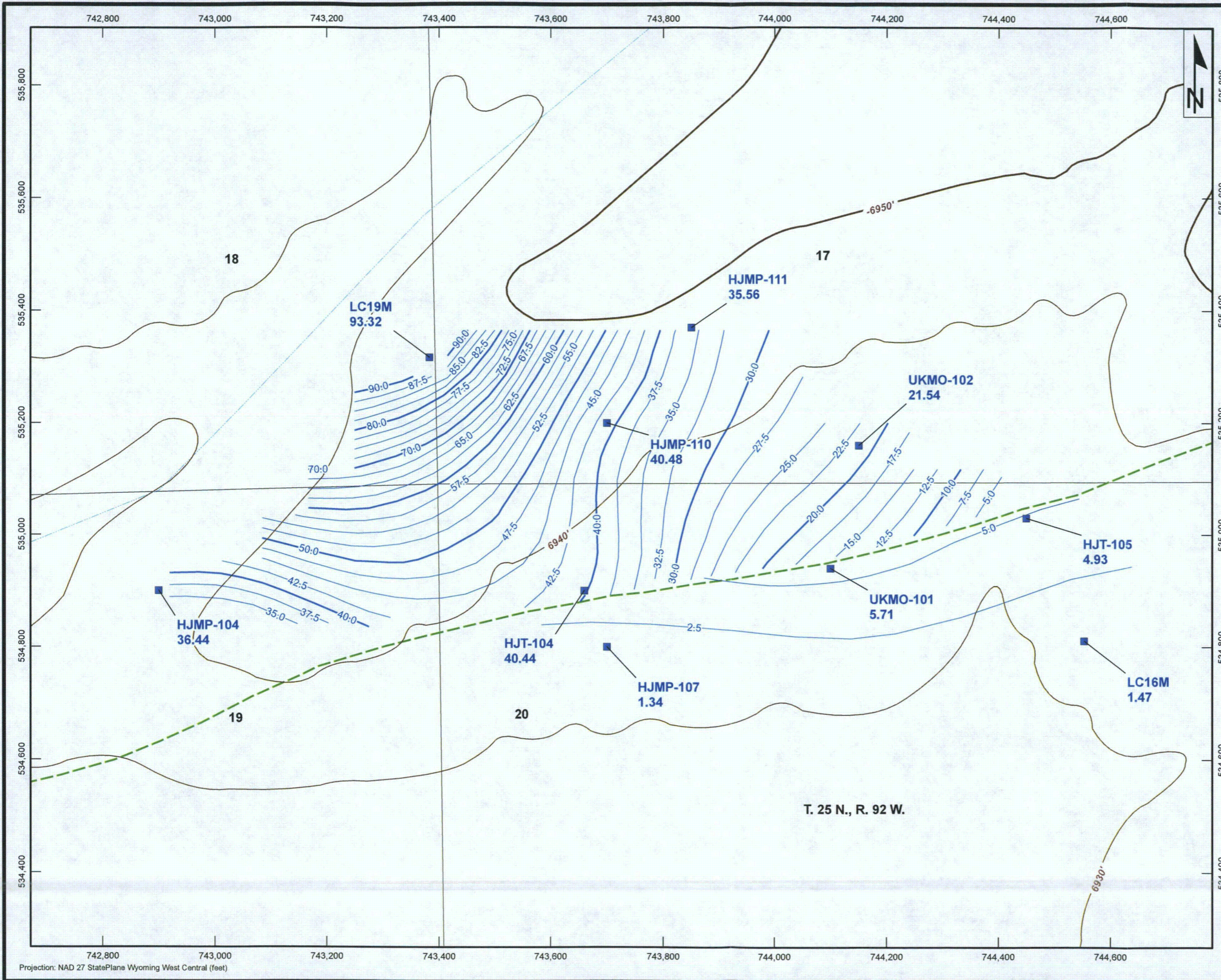
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FIGURE D6-14b
Location of LC16M Test Wells

Lost Creek Permit Area	
Issued For: WDEQ-LQD 1.0	Drawn By: KS
Issued/ Revised: 04.30.09	
Drawing No.: WDEQ-LQD_Fig_D6-14b.ai	
	



- Legend**
- HJ Monitor Well
 - Drawdown Contour (feet)
 - - - Lost Creek Fault

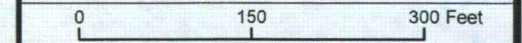
Scale: 1:2,000

FIGURE D6-15
Drawdown in the HJ Aquifer
at the End of the LC19M
Pumping Test (2007)
Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0 Drawn By: JM

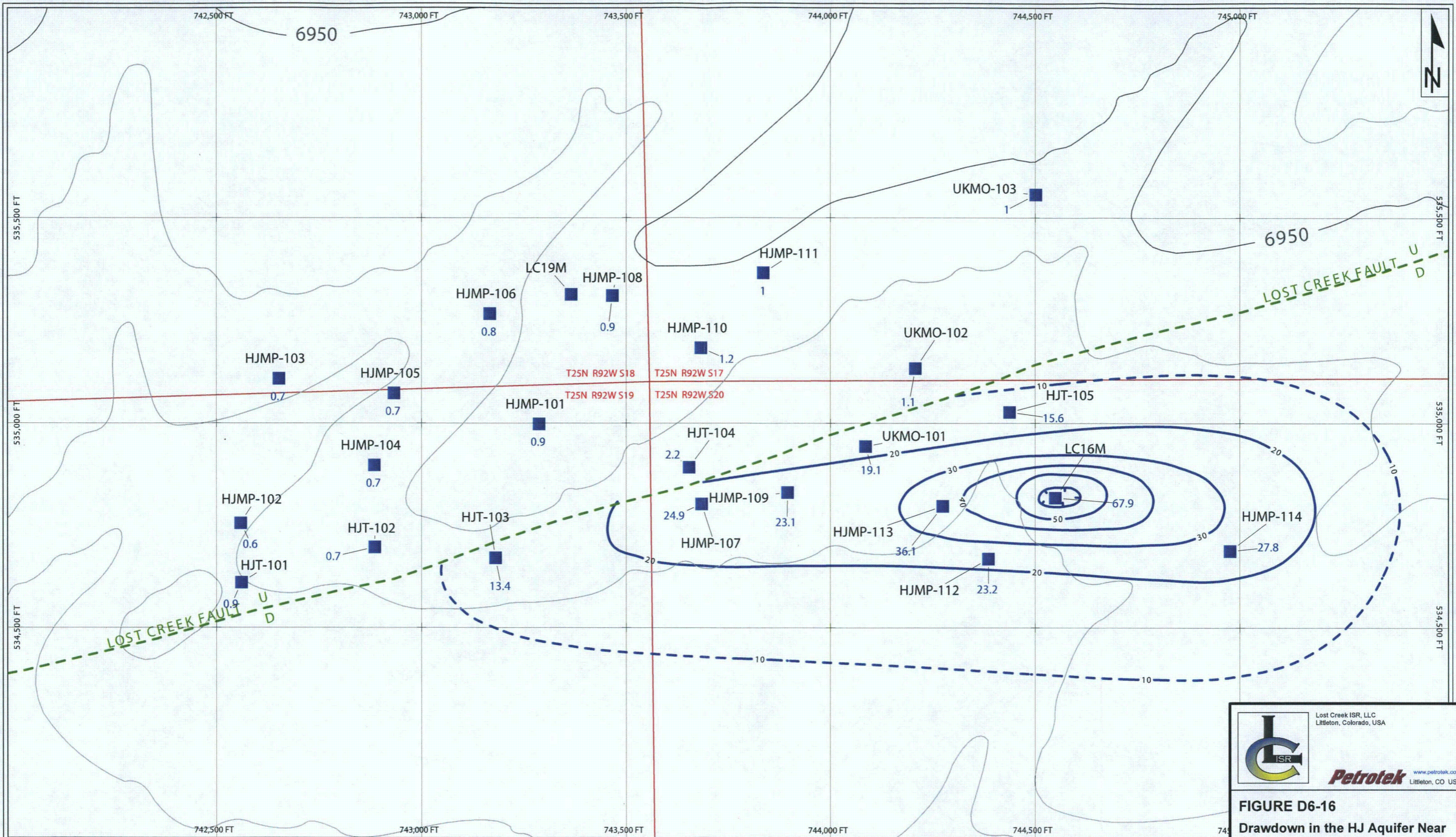
Issued/ Revised: 04.13.09

Drawing No.: WDEQ_LQD_FIG_D6-15.mxd



Projection: NAD 27 StatePlane Wyoming West Central (feet)

T. 25 N., R. 92 W.



Legend

- Well Symbols
- HJ Horizon
- Drawdown Contour
- Surface Contour Interval - 10ft.

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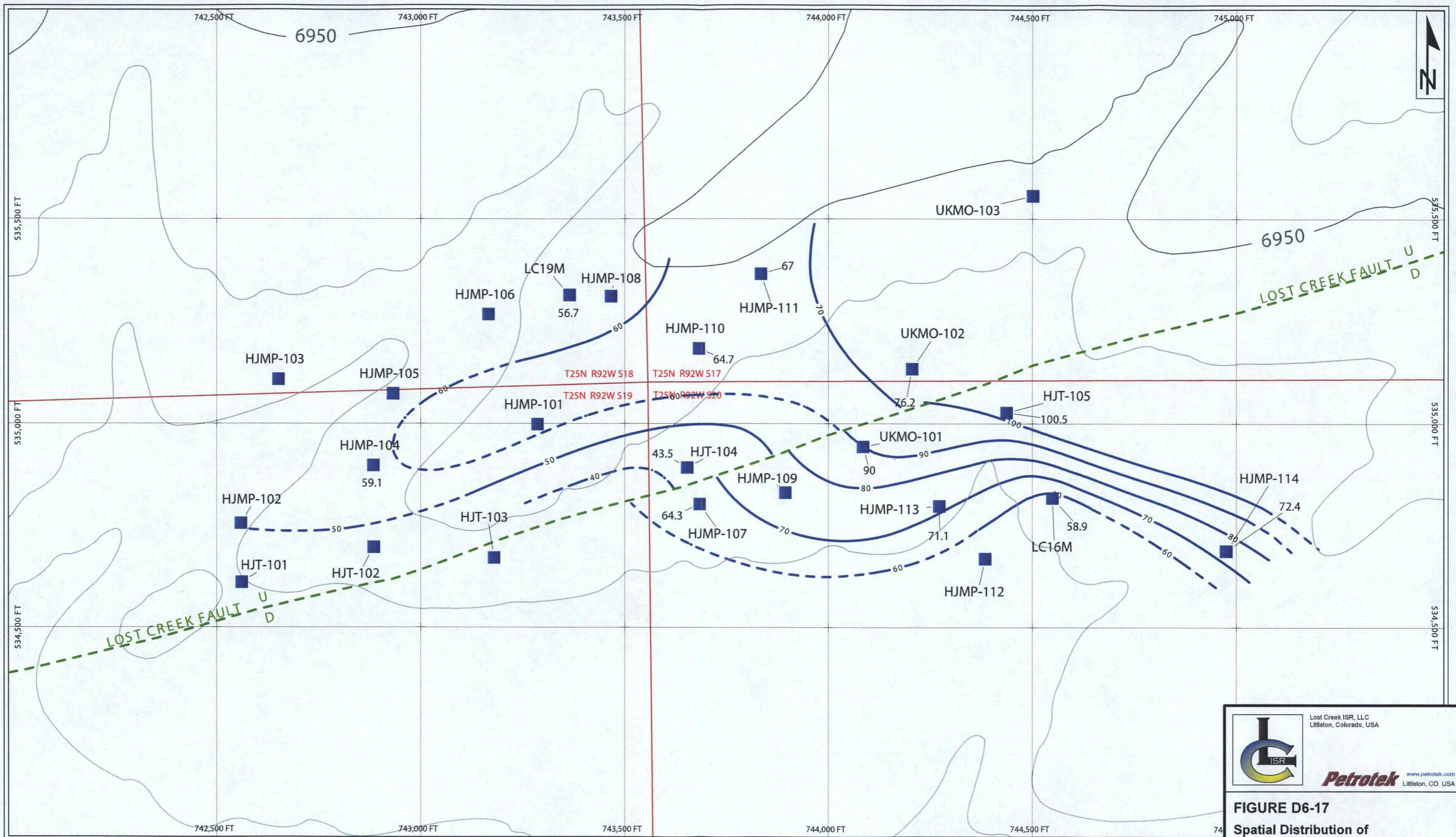
FIGURE D6-16
Drawdown in the HJ Aquifer Near the End of the LC16M Pump Test
Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0 Drawn By: JM

Issued/ Revised: 05.01.09

Drawing No.: WDEQ-LQD_Fig_D6-16.ai

0 250 FEET



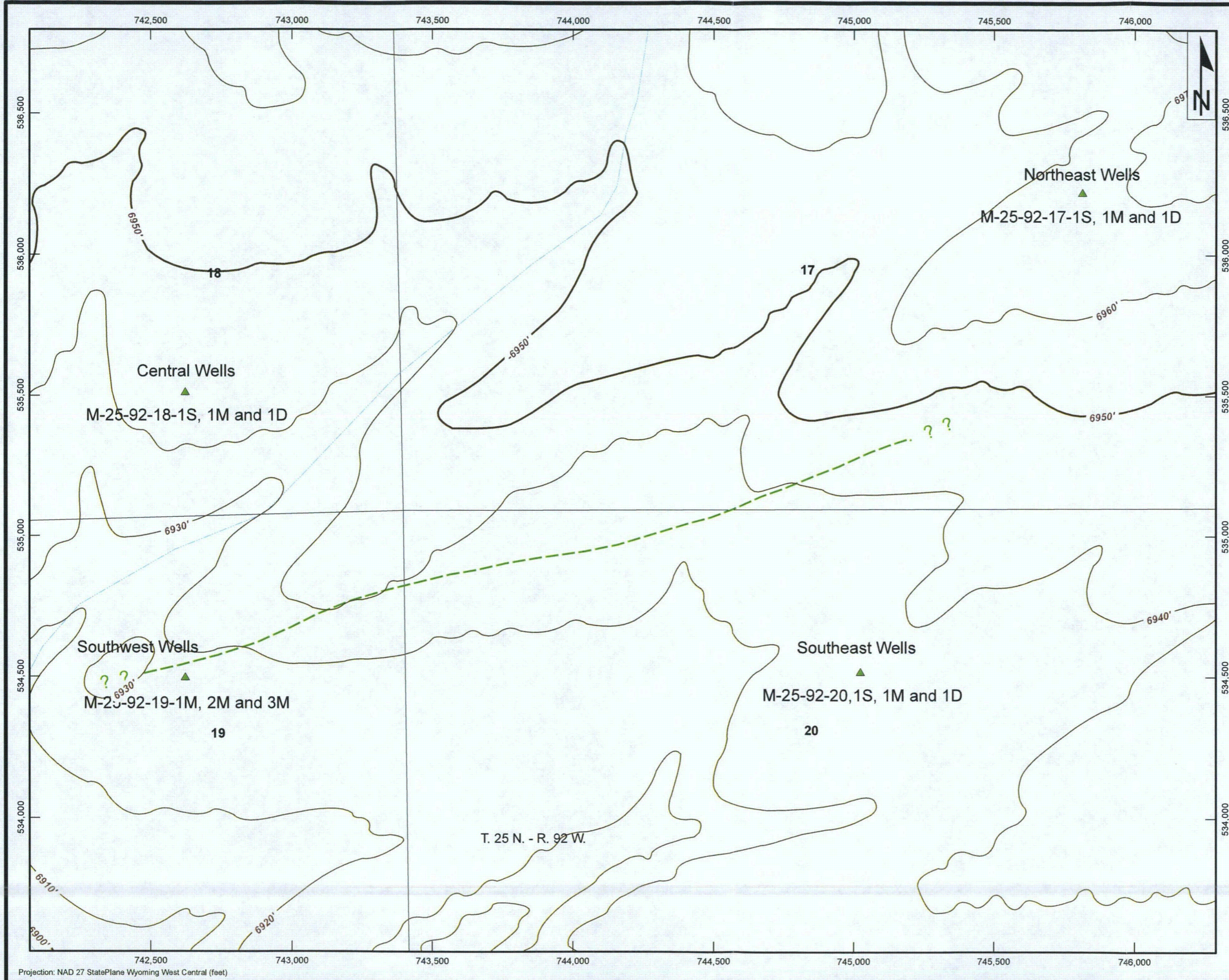
Legend

- Well Symbols
- HJ Horizon
 - Transmissivity Contour - 10 ft²/d
 - - - Surface Contour Interval - 10ft.

FIGURE D6-17
Spatial Distribution of
Aquifer Transmissivity (ft²/day)
Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0 Drawn By: KS
 Issued/ Revised: 05.01.09
 Drawing No.: WDEQ-LQD_Fig_D6-17.ai

0 250 FEET



- ### Legend
- ▲ Monitor Wells
 - Lost Creek Fault
 - S - Overlying Monitor Well
 - M - Production Zone Monitor Well
 - D - Underlying Monitor Well

Scale: 1:4,000

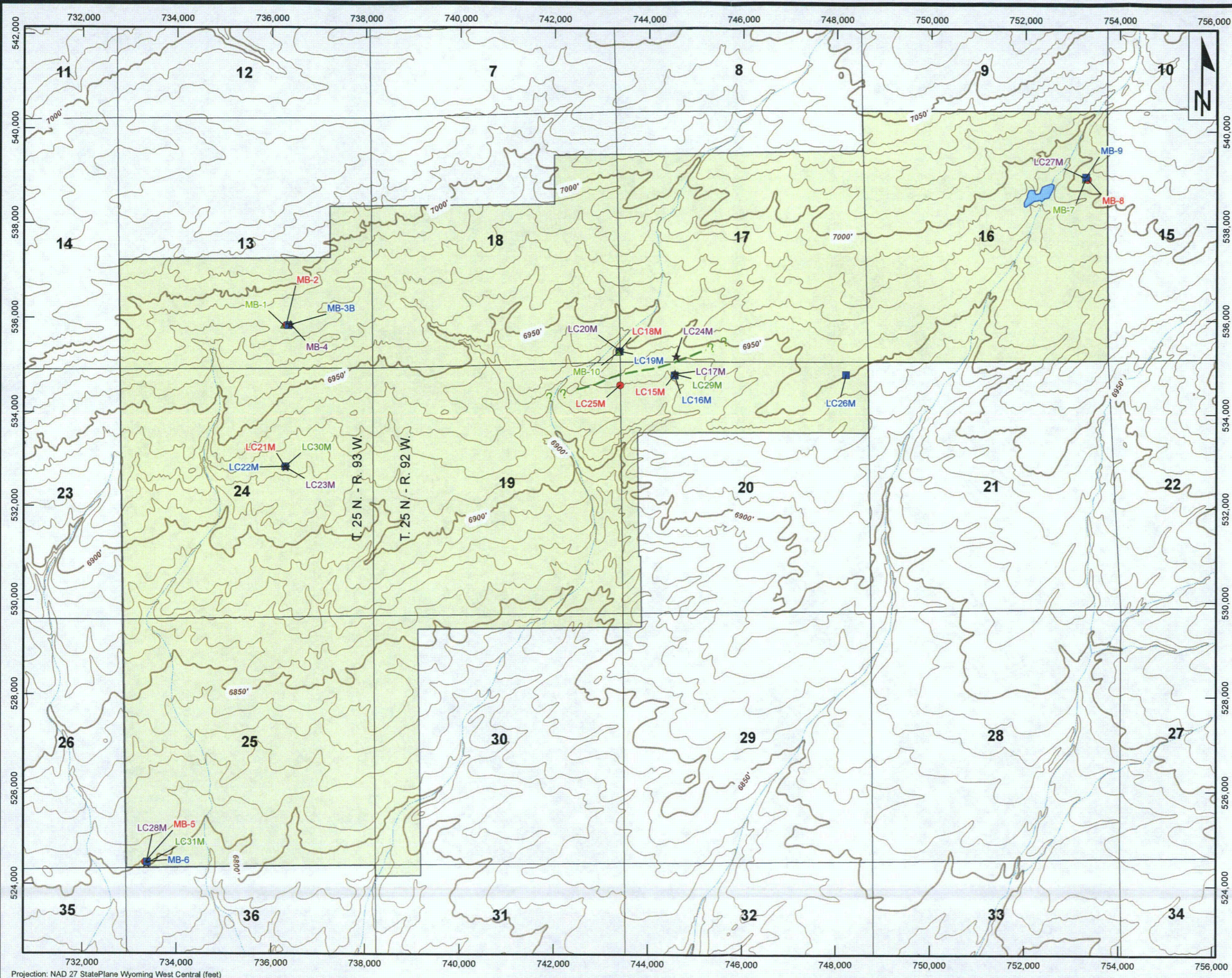
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FIGURE D6-23
Location of Historic Site Monitor Wells
 Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 12.04.08	
Drawing No.: WDEQ_LQD_FIG_D6-23.mxd	

0 200 400 Feet



Legend

Monitor Wells

- ▲ DE Horizon
- LFG Horizon
- HJ Horizon
- ★ UKM Horizon

— Lost Creek Fault

■ Lost Creek Permit Area

Scale: 1:24,000

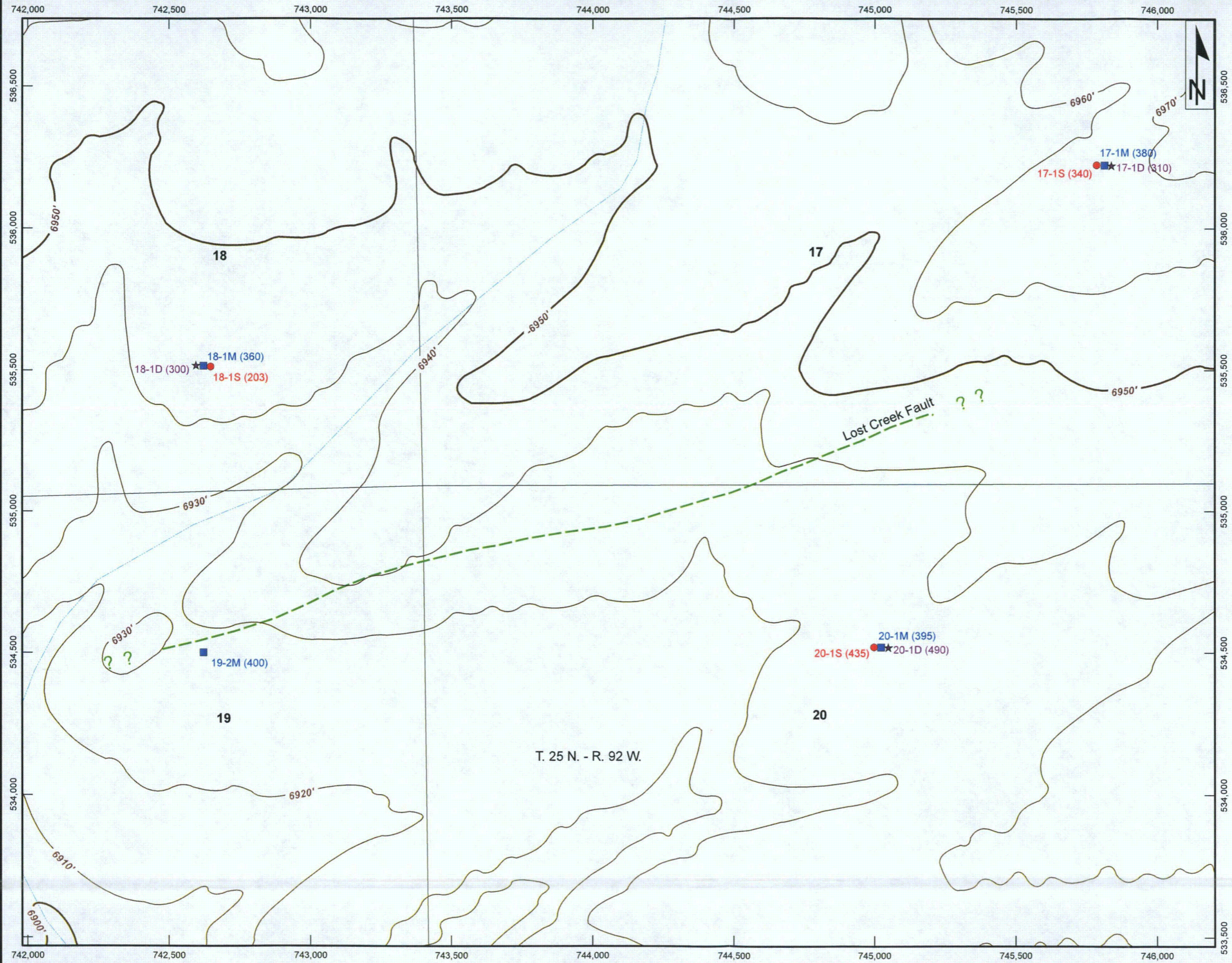
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FIGURE D6-24
Location of Site Baseline
Monitor Wells

Lost Creek Permit Area	
Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 04.06.09	
Drawing No.: WDEQ_LQD_FIG_D6-24.mxd	

Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- LFG Monitor Well (TDS Value in mg/L)
- HJ Monitor Well (TDS Value in mg/L)
- ★ UKM Monitor Well (TDS Value in mg/L)
- Lost Creek Fault

Scale: 1:4,000

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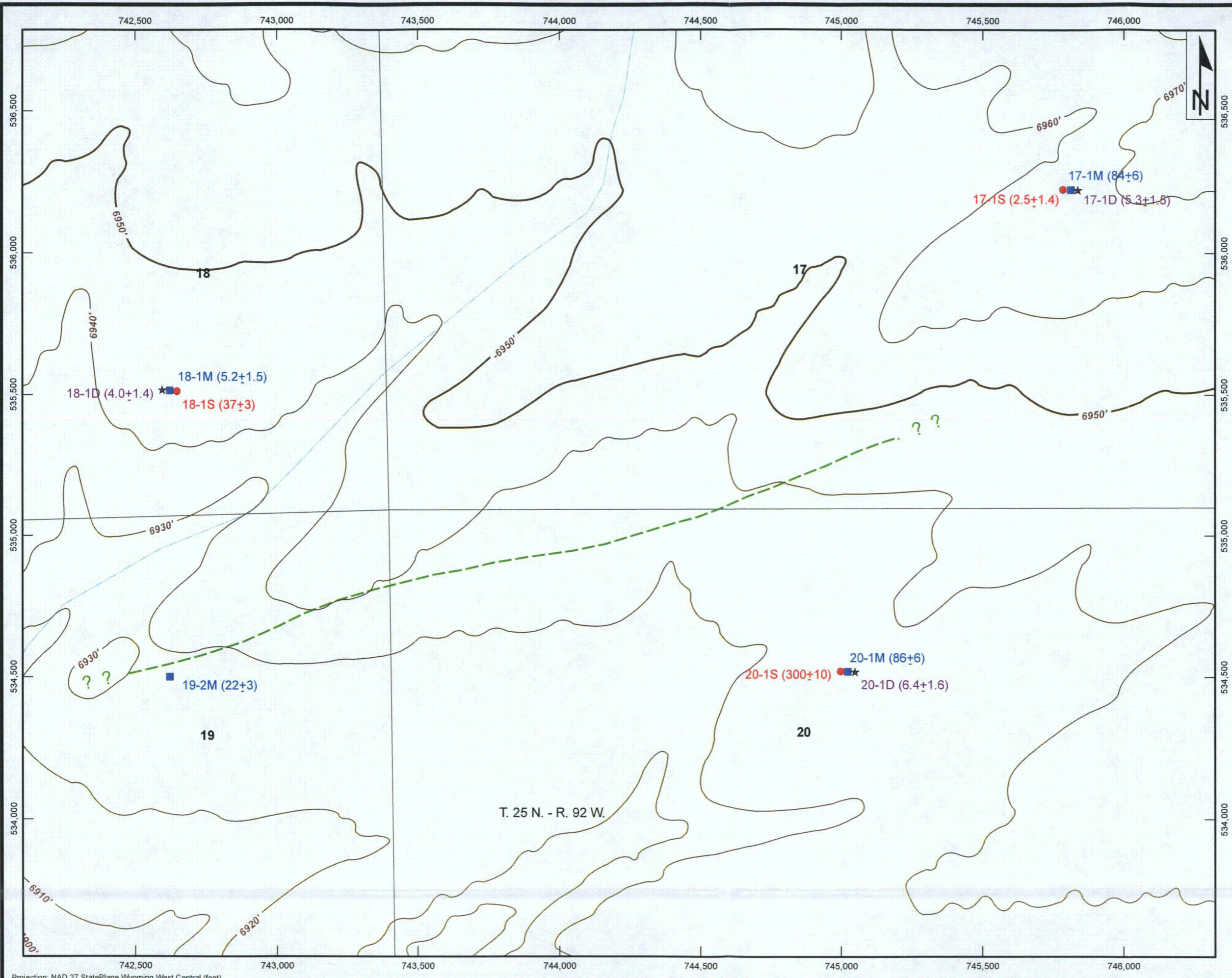
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FIGURE D6-25a
Distribution of TDS, August 1982

Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 12.04.08	
Drawing No.: WDEQ_LQD_FIG_D6-25a.mxd	

0 200 400 Feet



Legend

- LFG Monitor Well (Ra-226 Value in pCi/L)
- HJ Monitor Well (Ra-226 Value in pCi/L)
- ★ UKM Monitor Well (Ra-226 Value in pCi/L)
- Lost Creek Fault

Scale: 1:4,000



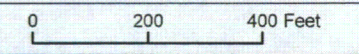
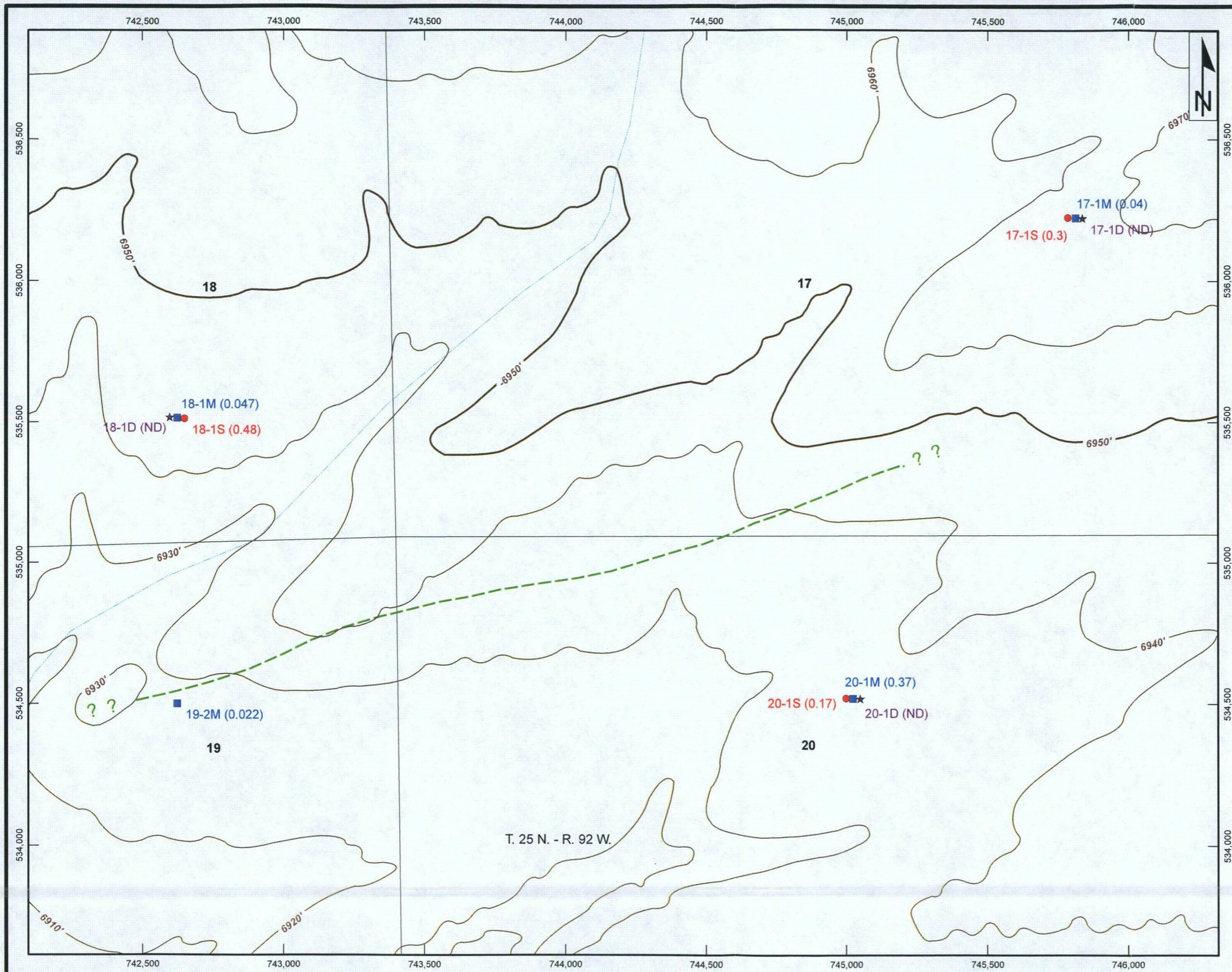

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FIGURE D6-25b
Distribution of Radium-226,
August 1982

Lost Creek Permit Area
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 Issued/ Revised: 12.05.08
 Drawing No.: WDEQ_LQD_FIG_D6-25b.mxd



Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- LFG Monitor Well (U Value in mg/L)
- HJ Monitor Well (U value in mg/L)
- ★ UKM Monitor Well (U value in mg/L)
- Lost Creek Fault

Scale: 1:4,000

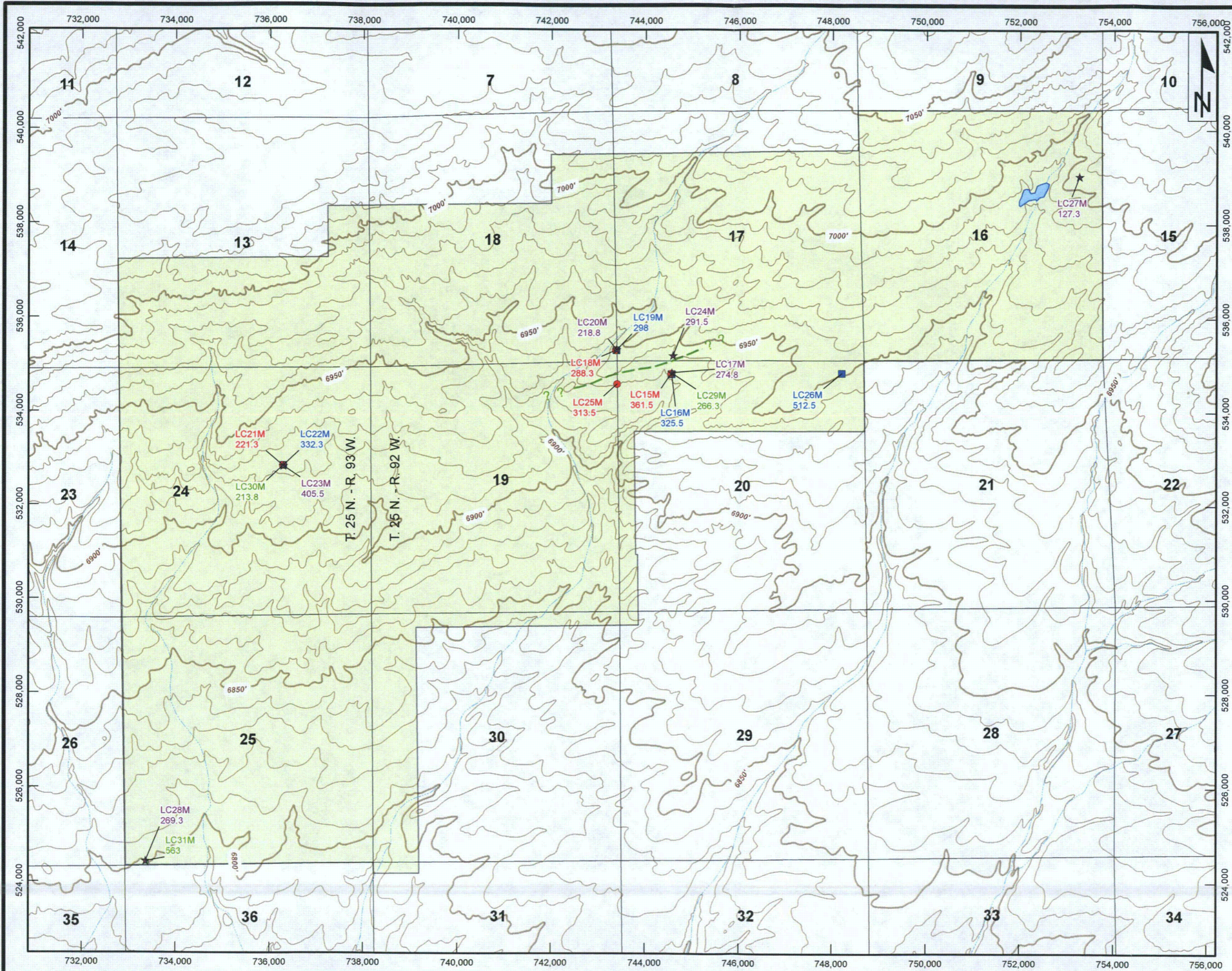
FIGURE D6-25c
Distribution of Uranium,
August 1982

Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 12.05.08	
Drawing No.: WDEQ_LQD_FIG_D6-25c.mxd	

0 200 400 Feet

Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- ▲ DE Monitor Well (TDS value in mg/L)
- LFG Monitor Well (TDS value in mg/L)
- HJ Monitor Well (TDS value in mg/L)
- ★ UKM Monitor Well (TDS value in mg/L)
- Lost Creek Fault
- Lost Creek Permit Area



Scale: 1:24,000

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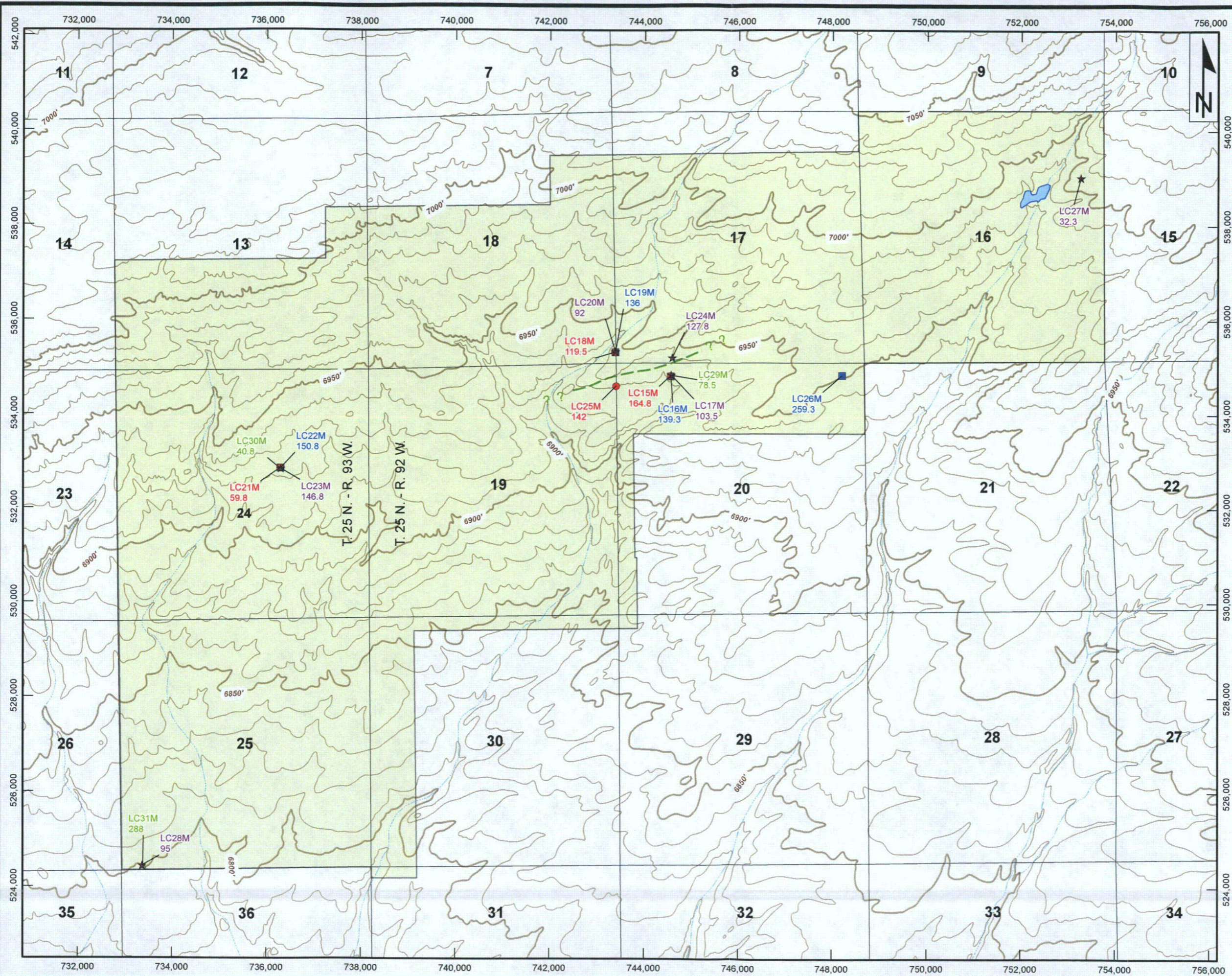
FIGURE D6-26a
Distribution of Average TDS
September 2006 to May 2007

Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 04.13.09	
Drawing No.: WDEQ_LQD_FIG_D6-26a.mxd	

0 1,500 3,000 Feet

Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- ▲ DE Monitor Well (Sulfate value in mg/L)
- LFG Monitor Well (Sulfate value in mg/L)
- HJ Monitor Well (Sulfate value in mg/L)
- ★ UKM Monitor Well (Sulfate value in mg/L)
- Lost Creek Fault
- Lost Creek Permit Area

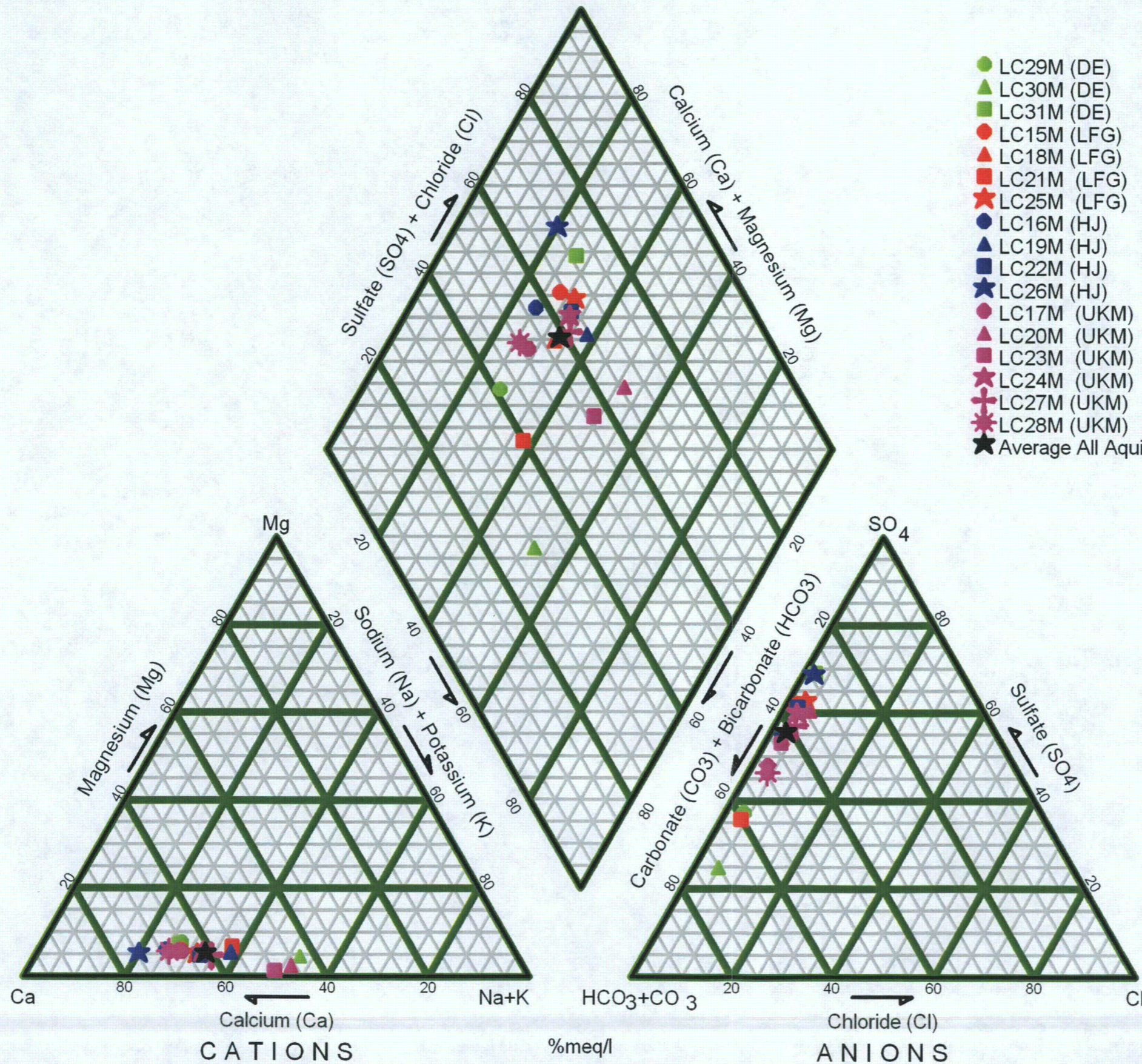
Scale: 1:24,000

FIGURE D6-26b
Distribution of Average Sulfate
September 2006 to May 2007

Lost Creek Permit Area

Issued For: WDEQ-LQD 1.0	Drawn By: JM
Issued/ Revised: 04.13.09	
Drawing No.: WDEQ_LQD_FIG_D6-26b.mxd	

0 1,500 3,000 Feet



- LC29M (DE)
- ▲ LC30M (DE)
- LC31M (DE)
- LC15M (LFG)
- ▲ LC18M (LFG)
- LC21M (LFG)
- ★ LC25M (LFG)
- LC16M (HJ)
- ▲ LC19M (HJ)
- LC22M (HJ)
- ★ LC26M (HJ)
- LC17M (UKM)
- ▲ LC20M (UKM)
- LC23M (UKM)
- ★ LC24M (UKM)
- ✦ LC27M (UKM)
- ✦ LC28M (UKM)
- ★ Average All Aquifers

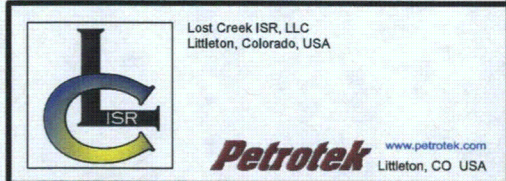
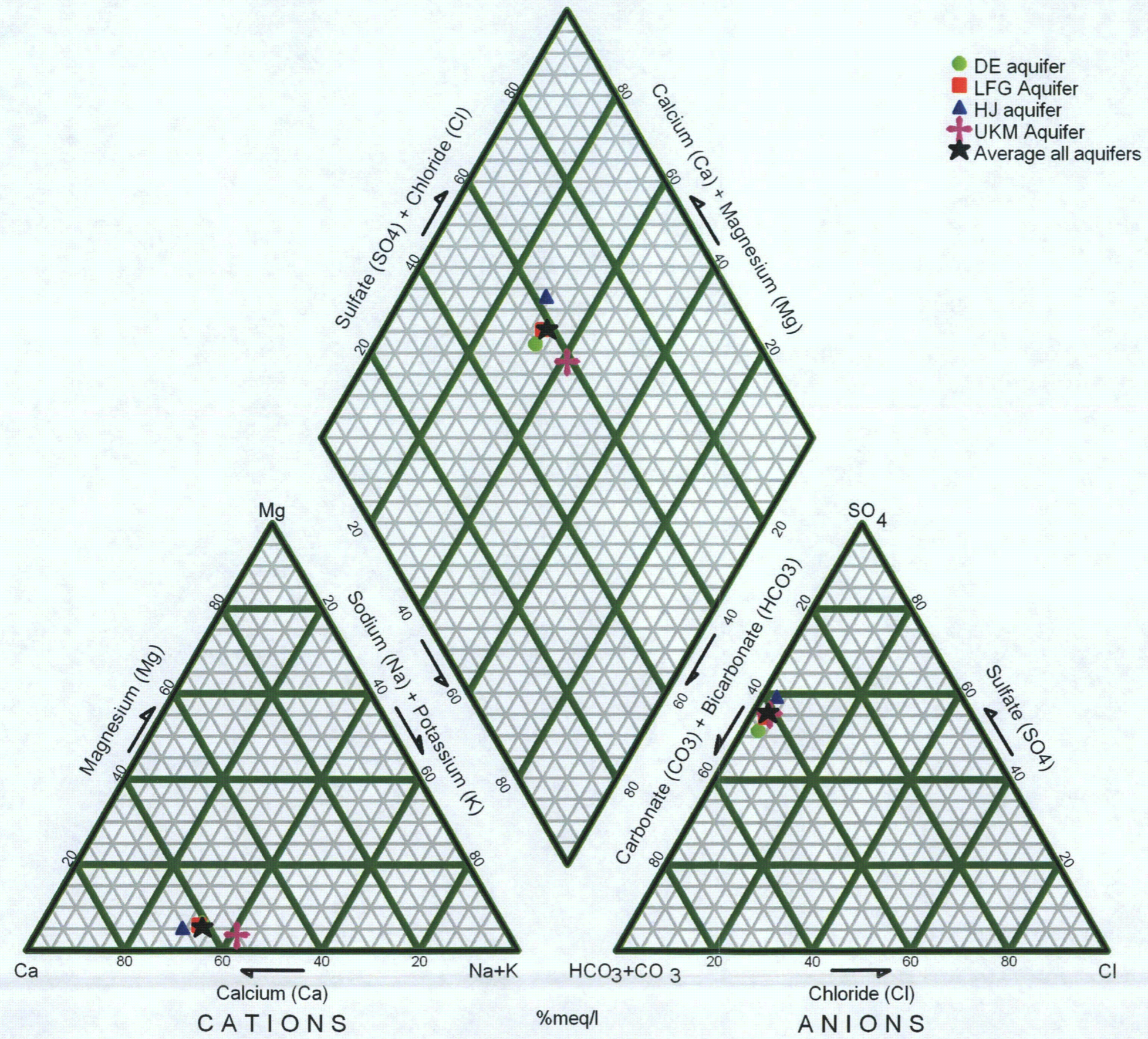



FIGURE D6-27a
Piper Diagram - Average Water Quality at Individual Monitor Wells
 Lost Creek Permit Area
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 Issued/ Revised: 04.13.09
 Drawing No.: WDEQ_LQD_FIG_D6-27a.mxd




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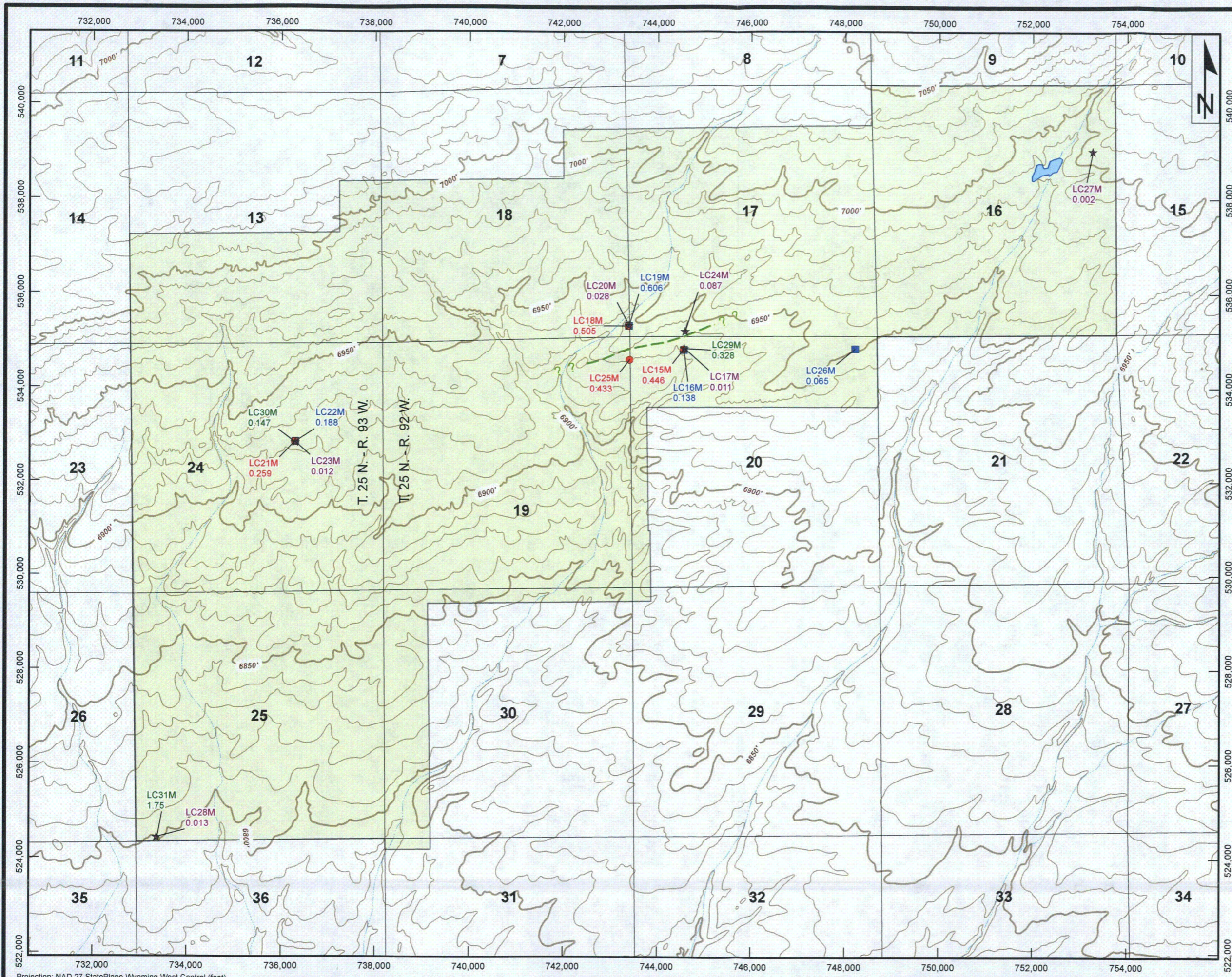

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FIGURE D6-27b

Piper Diagram - Average Water Quality in Aquifers of Interest

Lost Creek Permit Area

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 Drawing No.: WDEQ_LQD_FIG_D6-27b.mxd



Legend

- ▲ DE Monitor Well (Uranium value in mg/L)
- LFG Monitor Well (Uranium value in mg/L)
- HJ Monitor Well (Uranium value in mg/L)
- ★ UKM Monitor Well (Uranium value in mg/L)
- Lost Creek Fault
- Lost Creek Permit Area

Scale: 1:24,000

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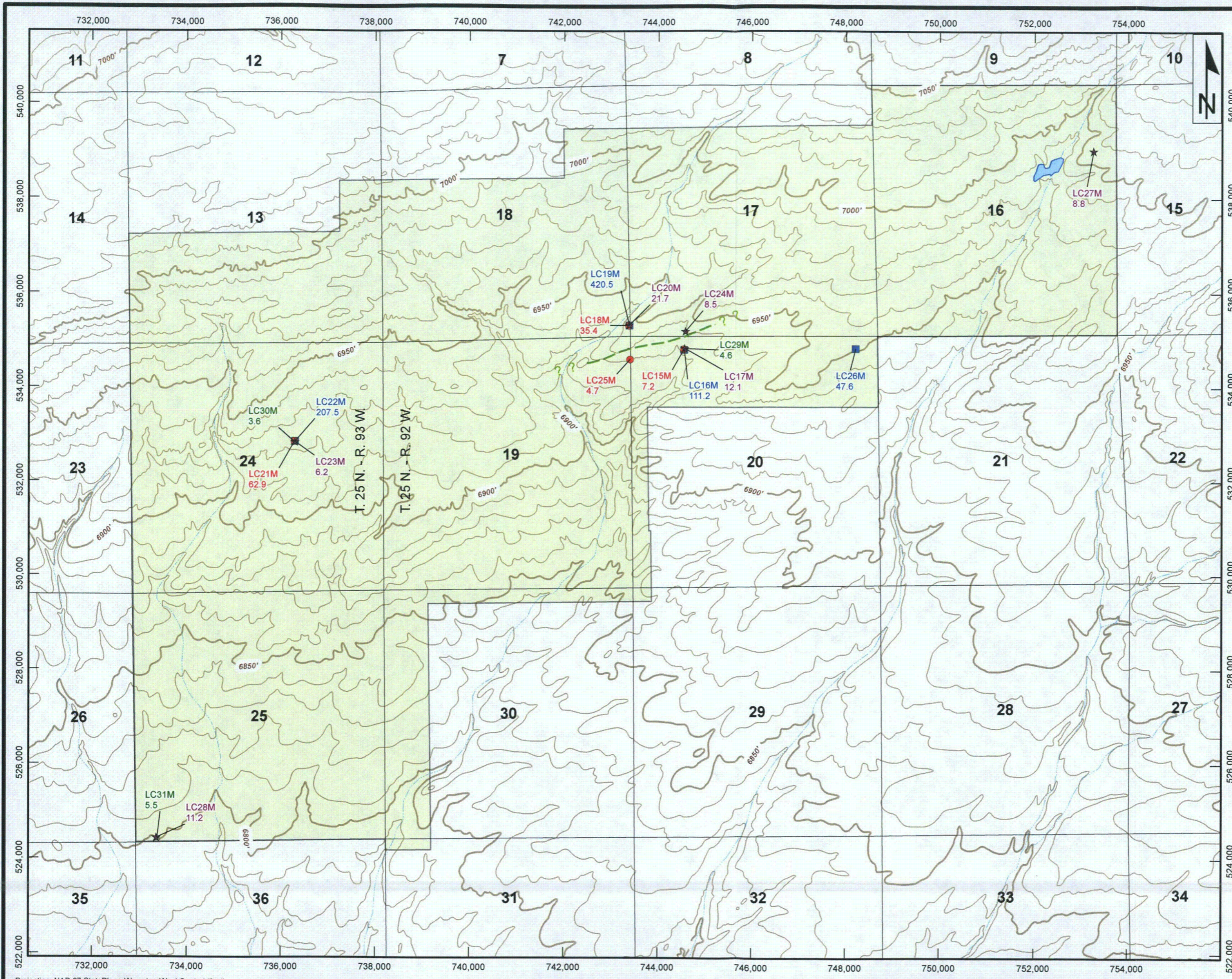
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FIGURE D6-28a
Distribution of Average Uranium
September 2006 to May 2007
Lost Creek Permit Area

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Issued/ Revised: 04.13.09	
Drawing No.: WDEQ_LQD_FIG_D6-28a.mxd	

0 1,500 3,000 Feet


Projection: NAD 27 StatePlane Wyoming West Central (feet)



Legend

- ▲ DE Monitor Well (Radium value in pCi/L)
- LFG Monitor Well (Radium value in pCi/L)
- HJ Monitor Well (Radium value in pCi/L)
- ★ UKM Monitor Well (Radium value in pCi/L)
- Lost Creek Fault
- Lost Creek Permit Area

Scale: 1:24,000

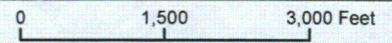


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FIGURE D6-28b
Distribution of Average Radium 226 + 228, September 2006 to May 2007
Lost Creek Permit Area

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Issued/ Revised: 04.13.09	
Drawing No.: WDEQ_LQD_FIG_D6-28b.mxd	



Projection: NAD 27 StatePlane Wyoming West Central (feet)