



United States Environmental Protection Agency  
Washington, DC 20460

## PLUGGING AND ABANDONMENT PLAN

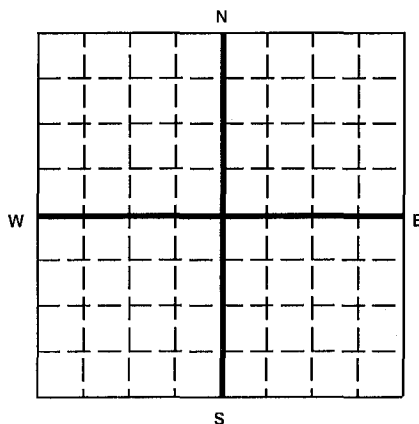
### Name and Address of Facility

Resolute Natural Resources Company  
1675 Broadway, Suite 1950, Denver, CO 80202

### Name and Address of Owner/Operator

Resolute Aneth, LLC.  
23429 County Road G, Cortez, CO 81321

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State

Utah

County

San Juan

Permit Number

Surface Location Description

1/4 of 1/4 of 1/4 of SW 1/4 of Section 17 Township 40s Range 24e

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 740 ft. from (N/S) N Line of quarter section

and 1665 ft. from (E/W) E Line of quarter section.

### TYPE OF AUTHORIZATION

- ☐ Individual Permit  
☒ Area Permit  
☐ Rule

Number of Wells 34

### WELL ACTIVITY

- ☐ CLASS I  
☒ CLASS II  
☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage  
☐ CLASS III

Lease Name Aneth Unit

Well Number See attachments

### CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	48		100' to 500'	
8 5/8	24 to 36		1200' to 1600'	
5 1/2	14 to 15.5		5500' to 6000'	

### METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

### CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5 1/2	5 1/2	5 1/2	5 1/2			
Depth to Bottom of Tubing or Drill Pipe (ft.)	5450	4600	1550	53			
Sacks of Cement To Be Used (each plug)	11.5	11.5	11.5	11.5			
Slurry Volume To Be Pumped (cu. ft.)	13.7	13.7	13.7	13.7			
Calculated Top of Plug (ft.)	5350	4500	1450	3			
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6	15.6	15.6			
Type Cement or Other Material (Class III)	A	A	A	A			

### LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
Perfs 5425'	5500'		

### Estimated Cost to Plug Wells

Casing, cement and pipe configuration are for typical injection wells without laterals. Estimated net average P&A cost for these wells is \$34,013 per well.

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Dwight E Mallory, EH&S Coordinator

Signature

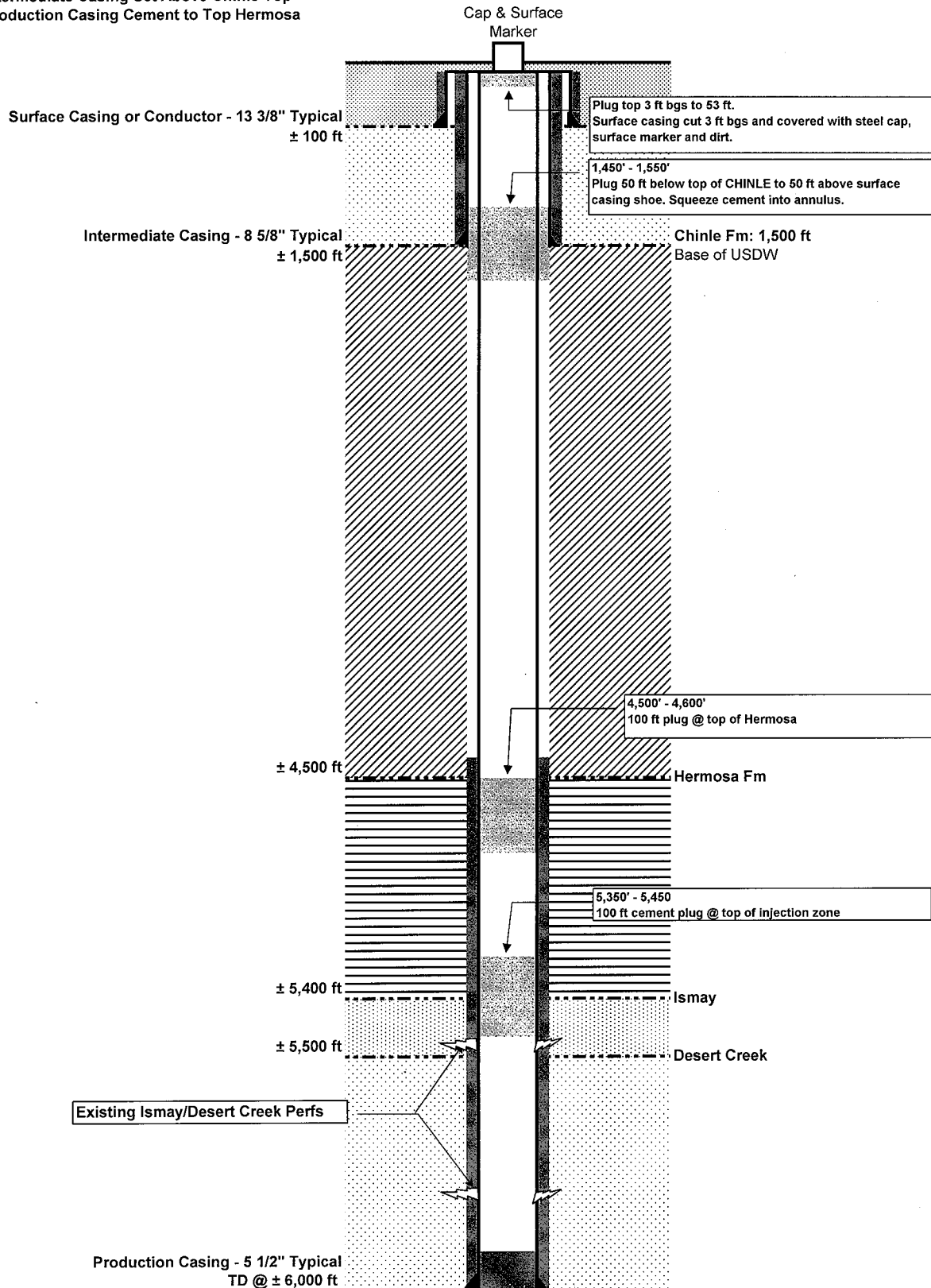
Date Signed

2/26/2008

# RESOLUTE

## NATURAL RESOURCES

Sample Vertical UIC Well - P&A Schematic  
Intermediate Casing Set Above Chinle Top  
Production Casing Cement to Top Hermosa



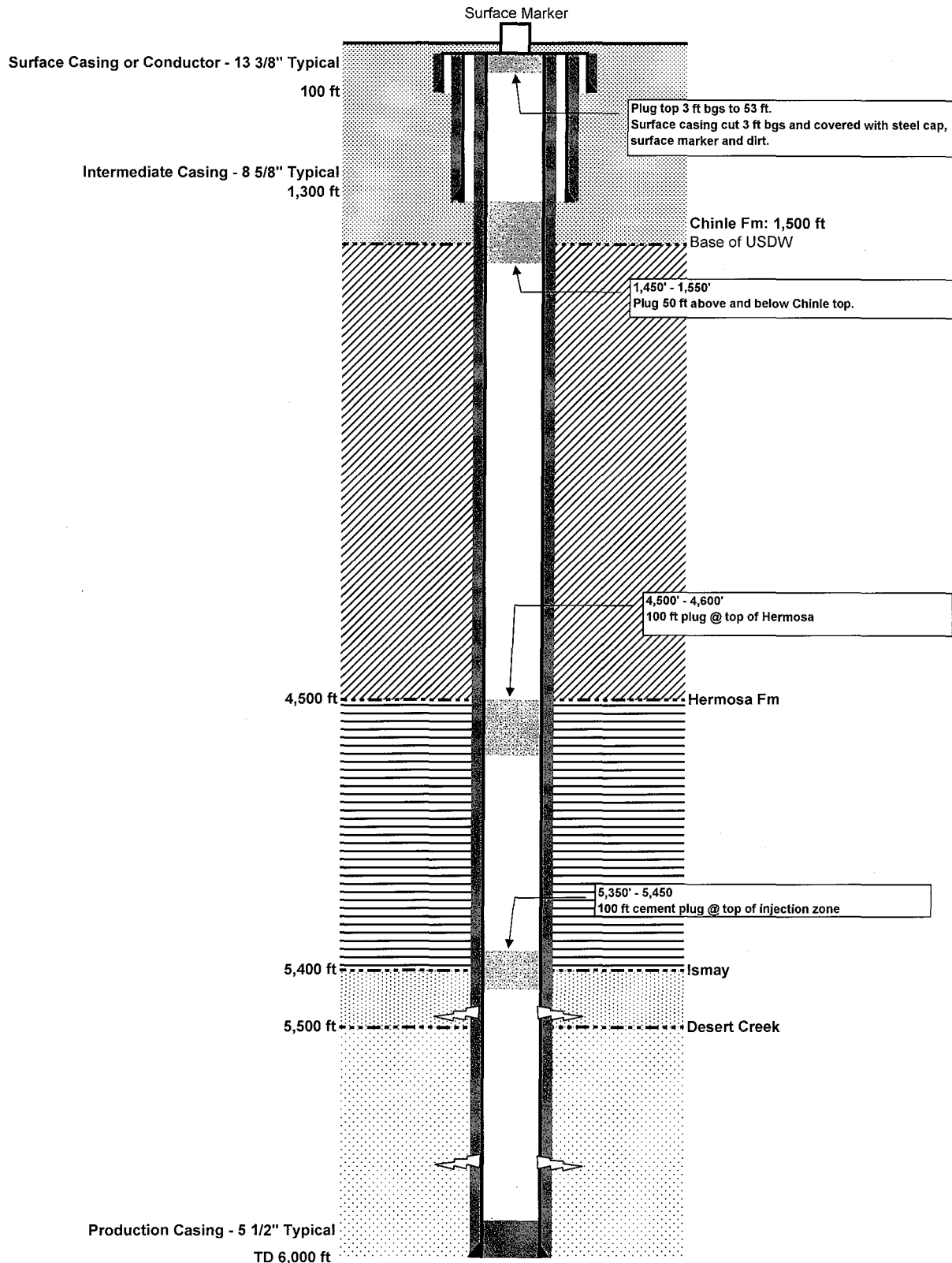
### NOTES:

Formation, Casing and Cement depths are typical for wells in the Aneth Unit  
13 3/8" Surface Casing is standard. However, 10 3/4" and 13" casing may be present in a limited number of wells.  
8 5/8" Intermediate Casing is standard. However, 7", 8" and 9 5/8" may be present in a limited number of wells.  
5 1/2" Production Casing is standard. However, 4 1/2" casing may be present in a limited number of wells.

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## NATURAL RESOURCES

Sample Vertical UIC Well - P&A Schematic  
Surface Casing Set Above Chinle Top  
Cement to Surface



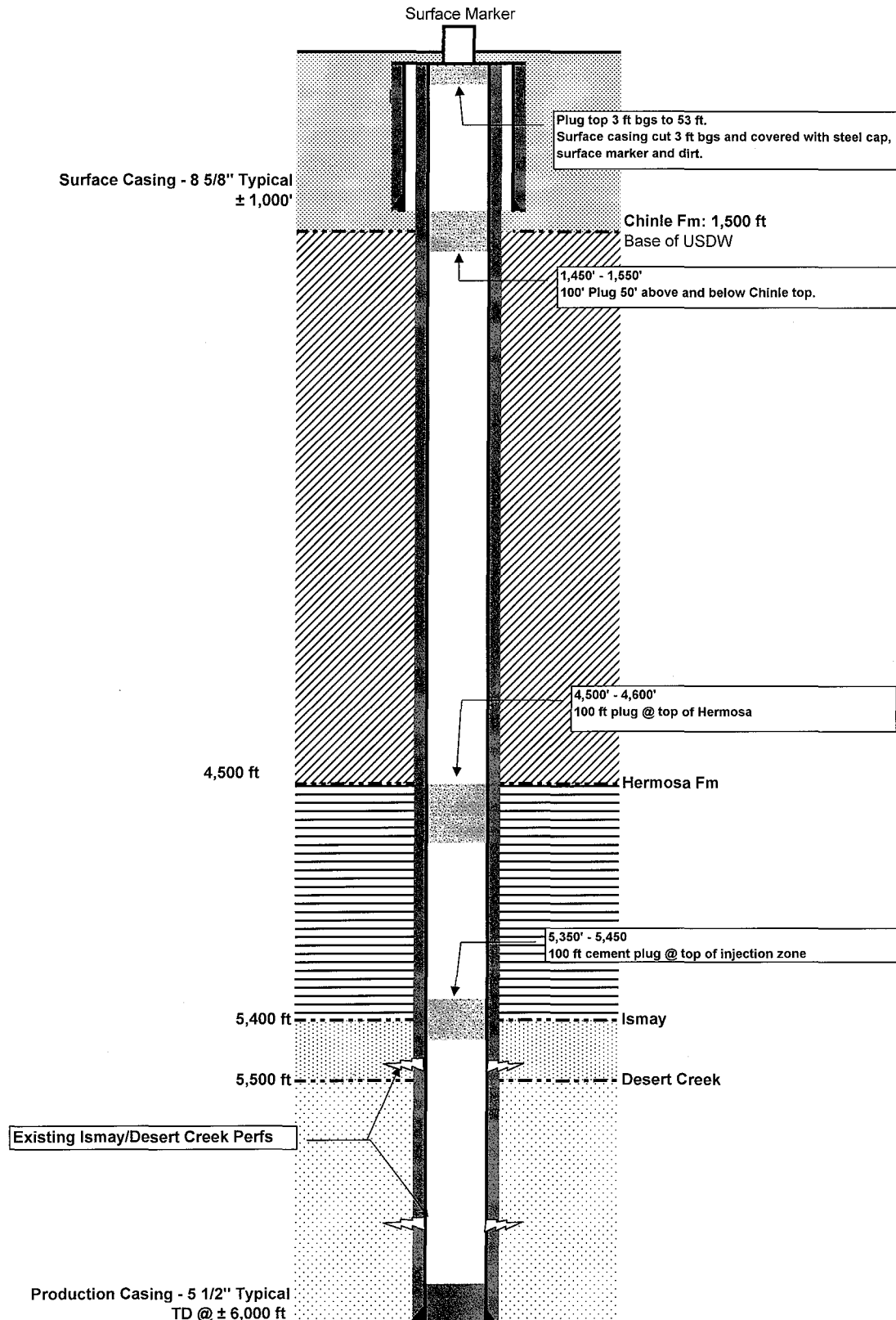
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## NATURAL RESOURCES

Sample Vertical UIC Well - P&A Schematic  
8 5/8" Surface Casing  
Cement to Surface



### NOTES:

Formation, Casing and Cement depths are typical for wells in the Aneth Unit

8 5/8" Surface Casing is standard. However, 9 5/8", 10 3/4" and 13 3/8" casing may be present in a limited number of wells.

5 1/2" Production Casing is standard. However, 4 1/2" casing may be present in a limited number of wells.



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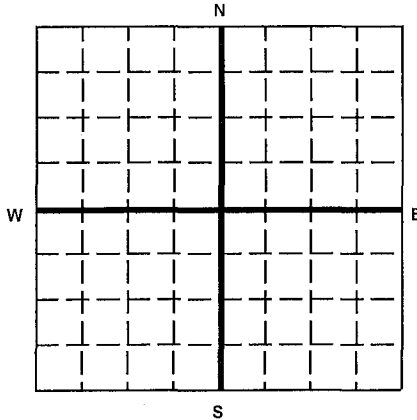
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5 1/2	14 to 15.5		5500' to 6000'	

### METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒ The Balance Method  
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☐ Other

### CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	4 3/4 OH	5 1/2	5 1/2	5 1/2	5 1/2		
Depth to Bottom of Tubing or Drill Pipe (ft.)	5610	5450	4600	1600	53		
Sacks of Cement To Be Used (each plug)	10	11.5	11.5	11.5	11.5		
Slurry Volume To Be Pumped (cu. ft.)	11.8	13.7	13.7	13.7	13.7		
Calculated Top of Plug (ft.)	5510	5350	4500	1500	3		
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.6	15.6	15.6	15.6	15.6		
Type Cement or Other Material (Class III)	A	A	A	A	A		

### LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
4.5 " Open Hole 5510'	7500' TMD		

### Estimated Cost to Plug Wells

Casing, cement and pipe configuration are for typical injection wells with splayed laterals drilled in the Desert Creek. Estimated net average P&A cost for these wells \$43,500 per well.

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

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Dwight E Mallory, EH&S Coordinator

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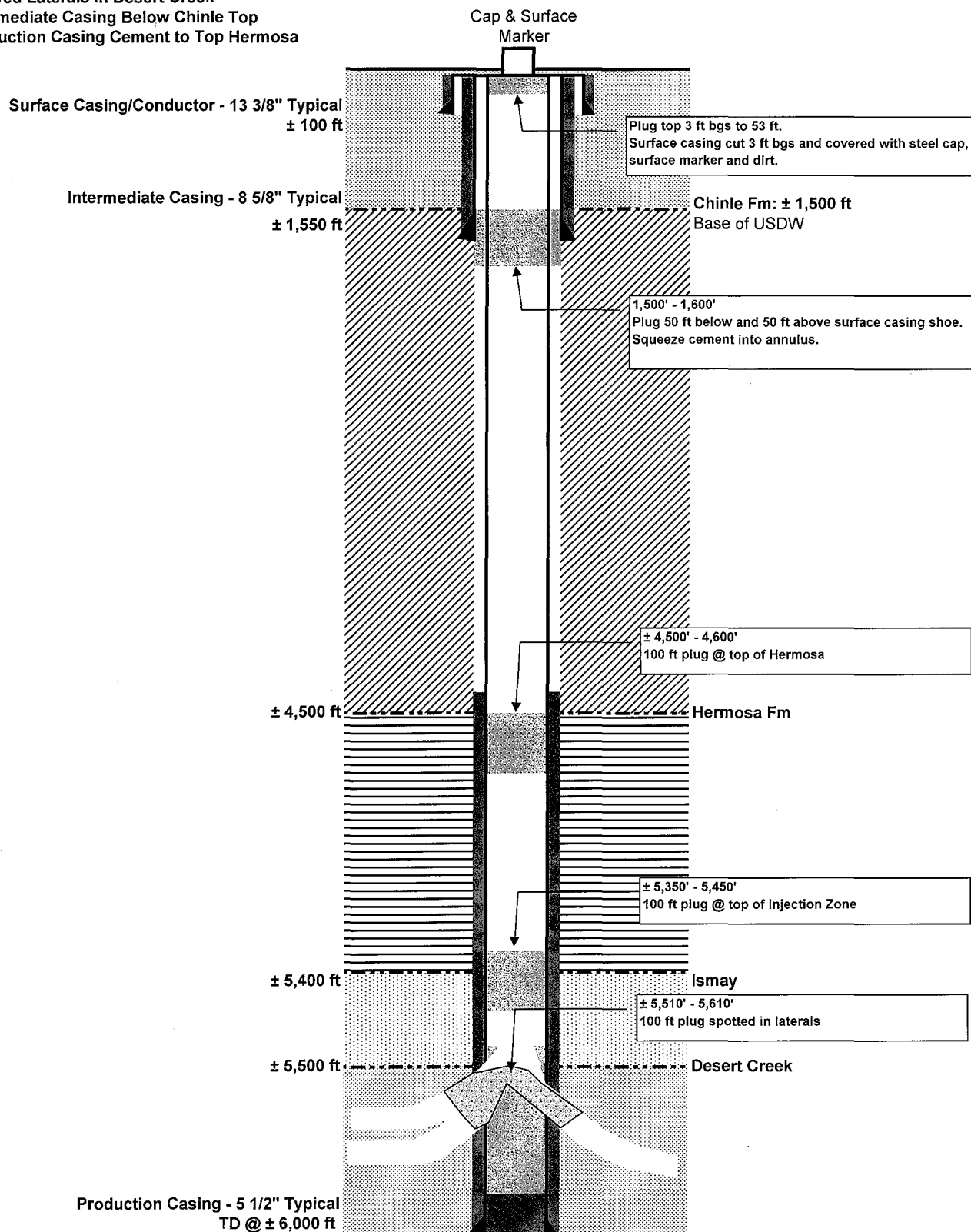
## NATURAL RESOURCES

Sample Horizontal UIC Well - P&A Schematic

Splayed Laterals in Desert Creek

Intermediate Casing Below Chinle Top

Production Casing Cement to Top Hermosa



### NOTES:

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