

APPENDIX A - Plugging and Abandonment Plan (s)



United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

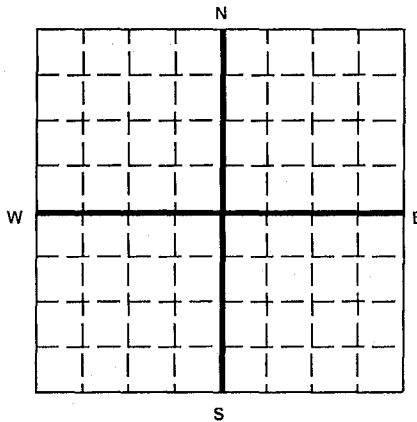
Name and Address of Facility

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 68

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.) | 5400 | 4600 | 1600 | 150 | | | |
| Sacks of Cement To Be Used (each plug) | 5.75 | 11.5 | 11.5 | 11.5 | | | |
| Slurry Volume To Be Pumped (cu. ft.) | 6.85 | 13.7 | 13.7 | 13.7 | | | |
| Calculated Top of Plug (ft.) | 5350 | 4500 | 1500 | 50 | | | |
| 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 values are for typical Aneth Unit wells without laterals. Estimated average P&A cost for these wells \$39,000 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

12/20/2007

RESOLUTE

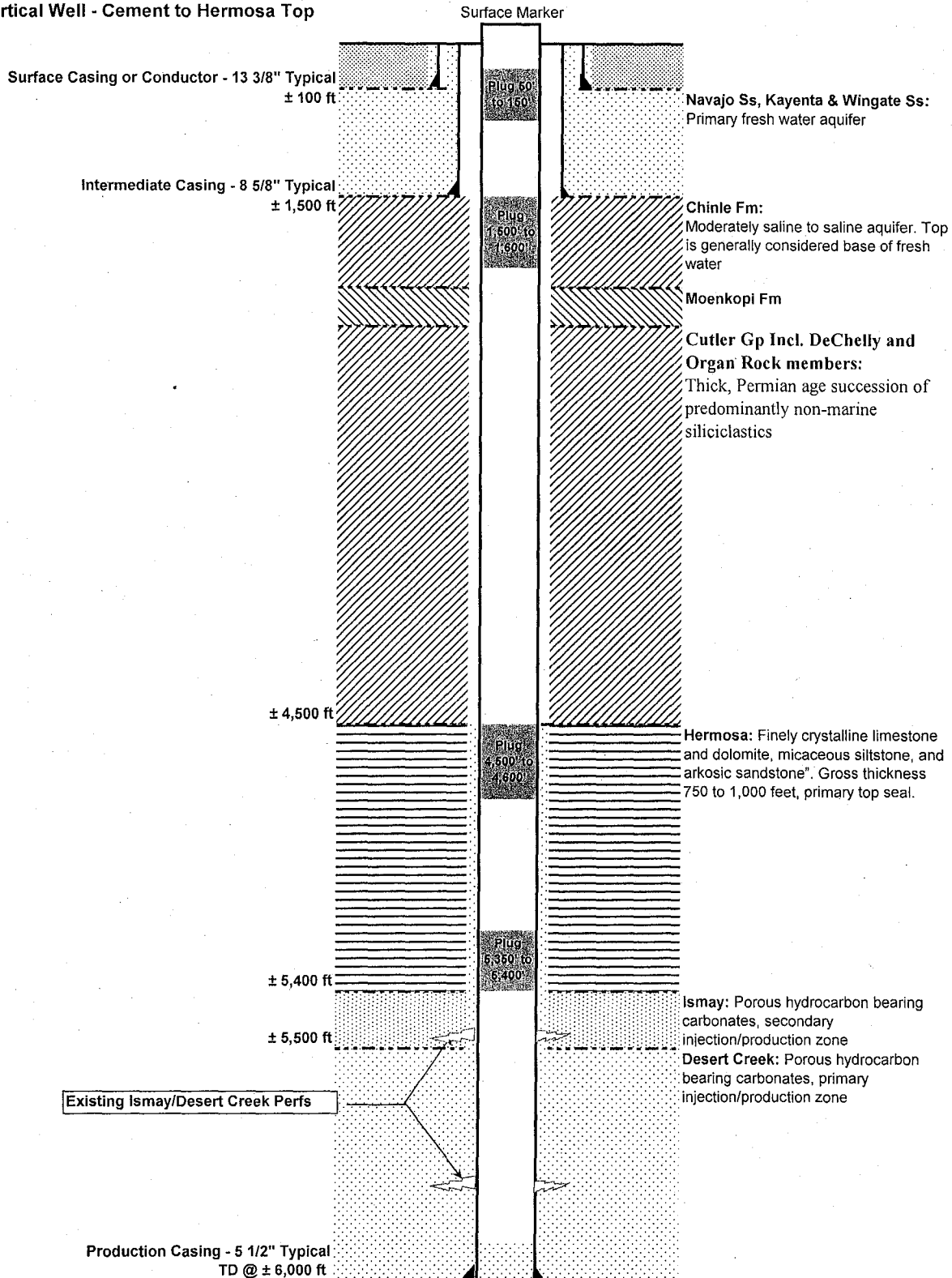
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - Cement to Hermosa Top



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.

RESOLUTE

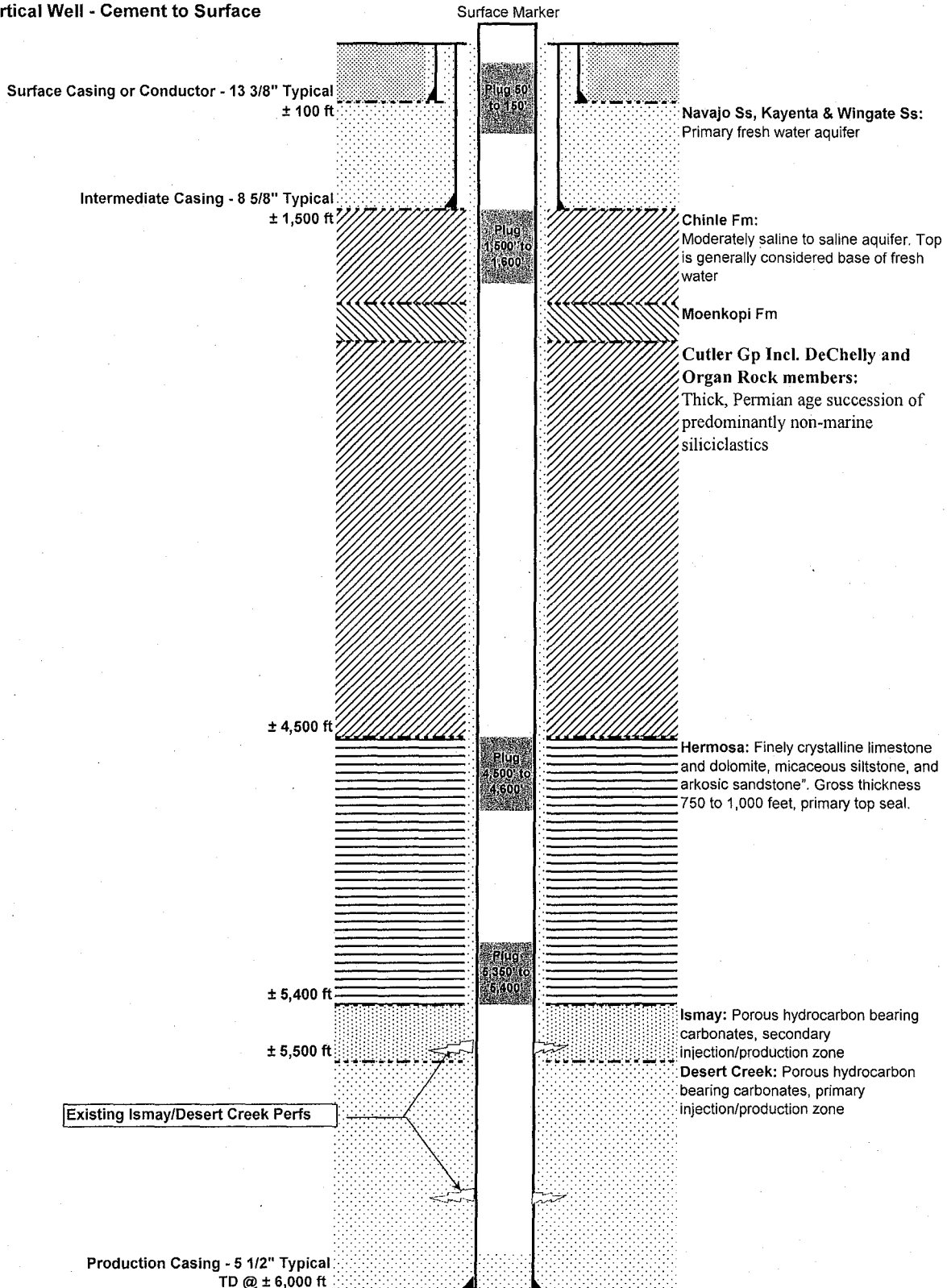
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - Cement to Surface



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.

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

RESOLUTE

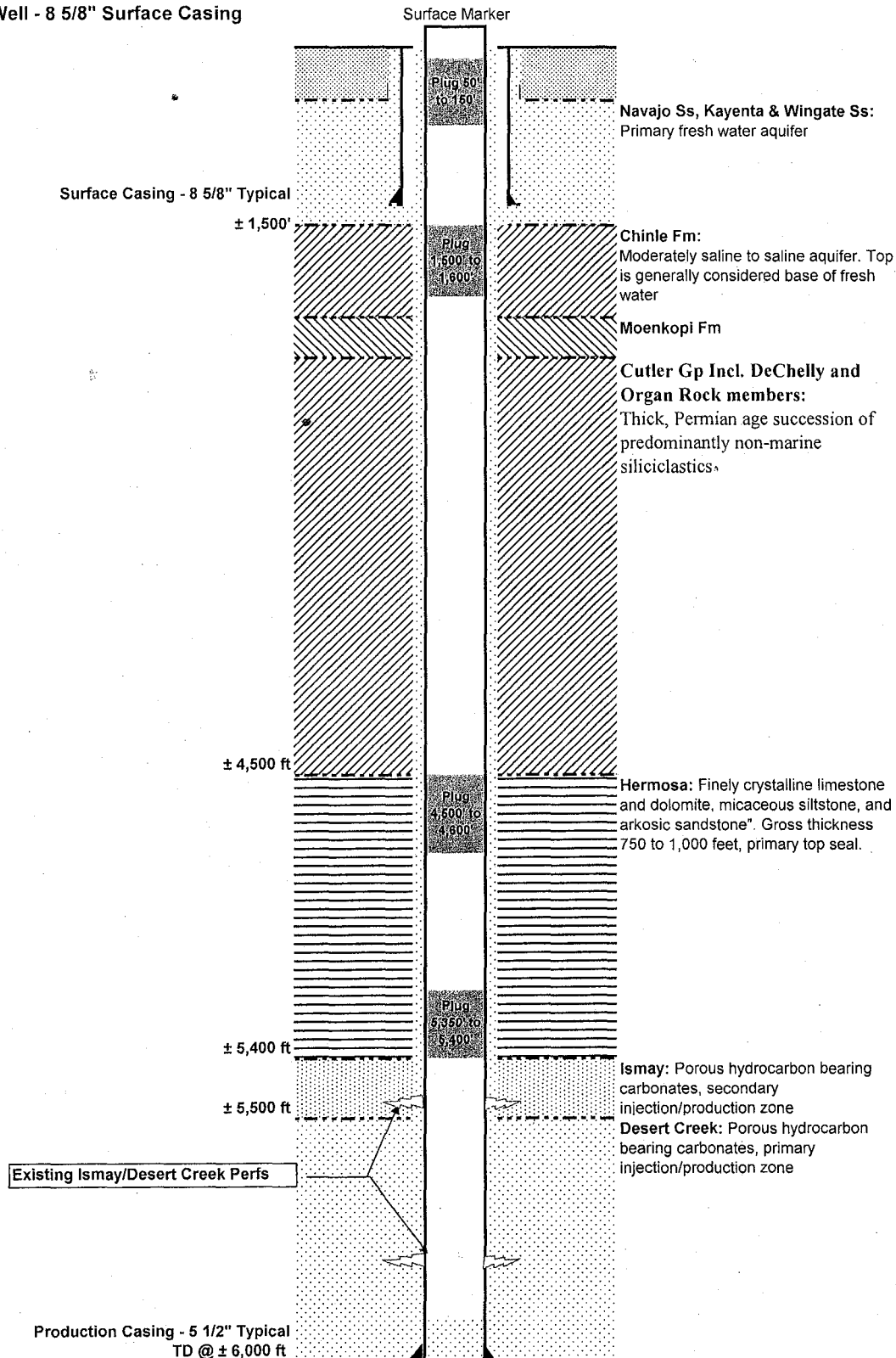
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - 8 5/8" Surface Casing



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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PLUGGING AND ABANDONMENT PLAN

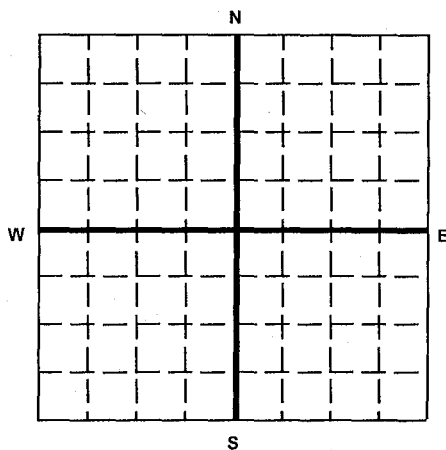
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Locate Well and Outline Unit on
Section Plat - 640 Acres



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 68

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.) | 5380 | 4600 | 1600 | 150 | | | |
| 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.) | 5280 | 4500 | 1500 | 50 | | | |
| 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 |
|----------------------|------------|------|----|
| 4.5" Open Hole 5380' | 10000' TMD | | |
| | | | |
| | | | |

Estimated Cost to Plug Wells

Casing, cement and pipe values are for typical Aneth Unit wells with laterals drilled from windows in the upper Ismay and lower Honaker Trail. Estimated average P&A cost for these wells \$52,000 per well.

Certification

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Name and Official Title (Please type or print)

Dwight E Mallory, EH&S Coordinator

Signature

Date Signed

12/20/2007

RESOLUTE

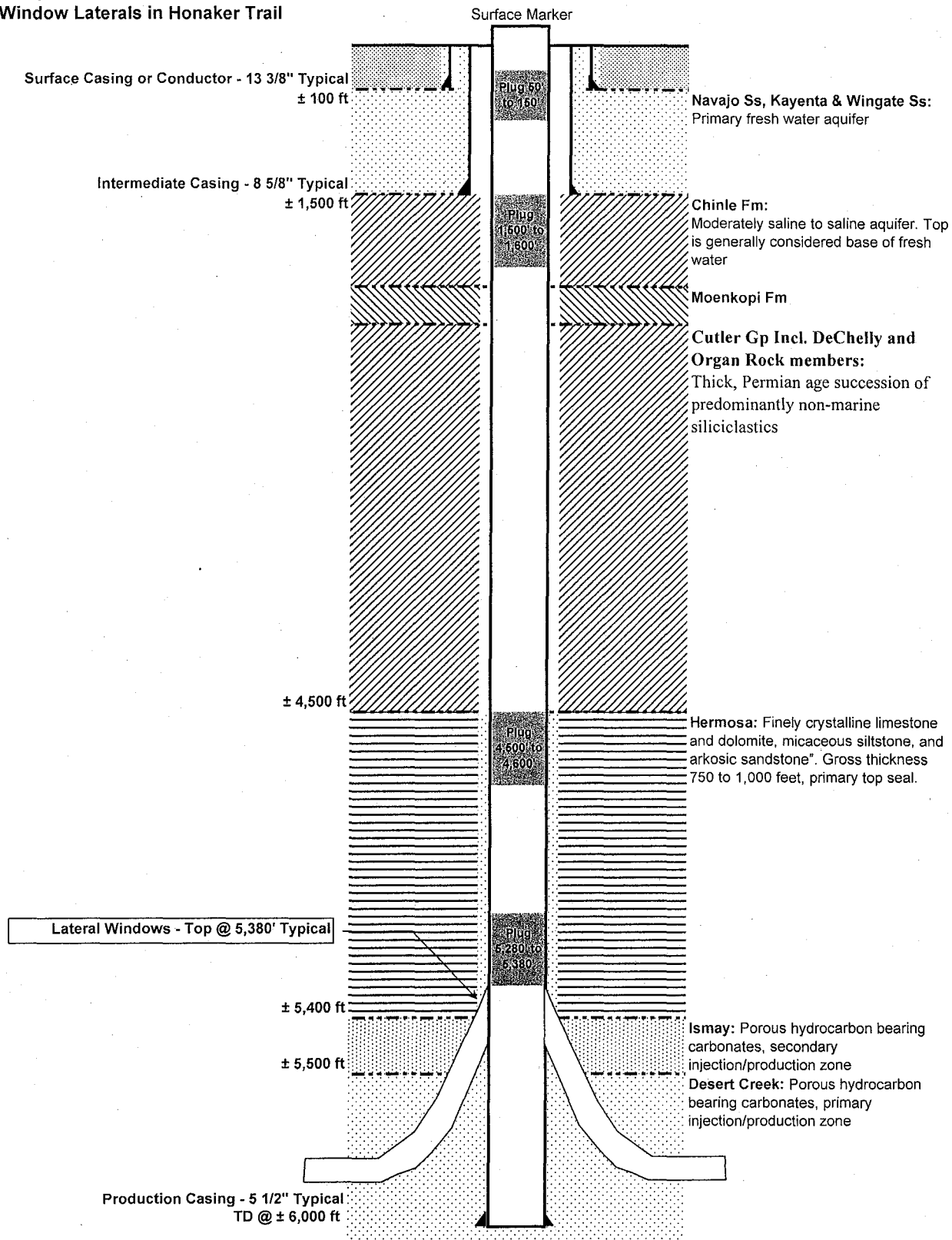
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Window Laterals in Honaker Trail



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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PLUGGING AND ABANDONMENT PLAN

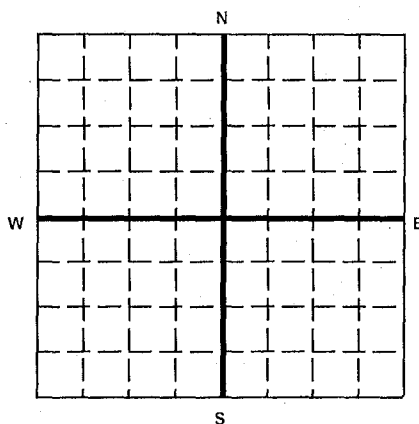
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Name and Address of Owner/Operator

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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. frm (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 68

Lease Name* Aneth Unit

WELL ACTIVITY

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

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' | |
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| 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.) | 5400 | 4600 | 1600 | 150 | | | |
| Sacks of Cement To Be Used (each plug) | 5.75 | 11.5 | 11.5 | 11.5 | | | |
| Slurry Volume To Be Pumped (cu. ft.) | 6.85 | 13.7 | 13.7 | 13.7 | | | |
| Calculated Top of Plug (ft.) | 5350 | 4500 | 1500 | 50 | | | |
| 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

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Name and Official Title (Please type or print)

Dwight E Mallory, EH&S Coordinator

Signature

Date Signed

1/4/07

RESOLUTE

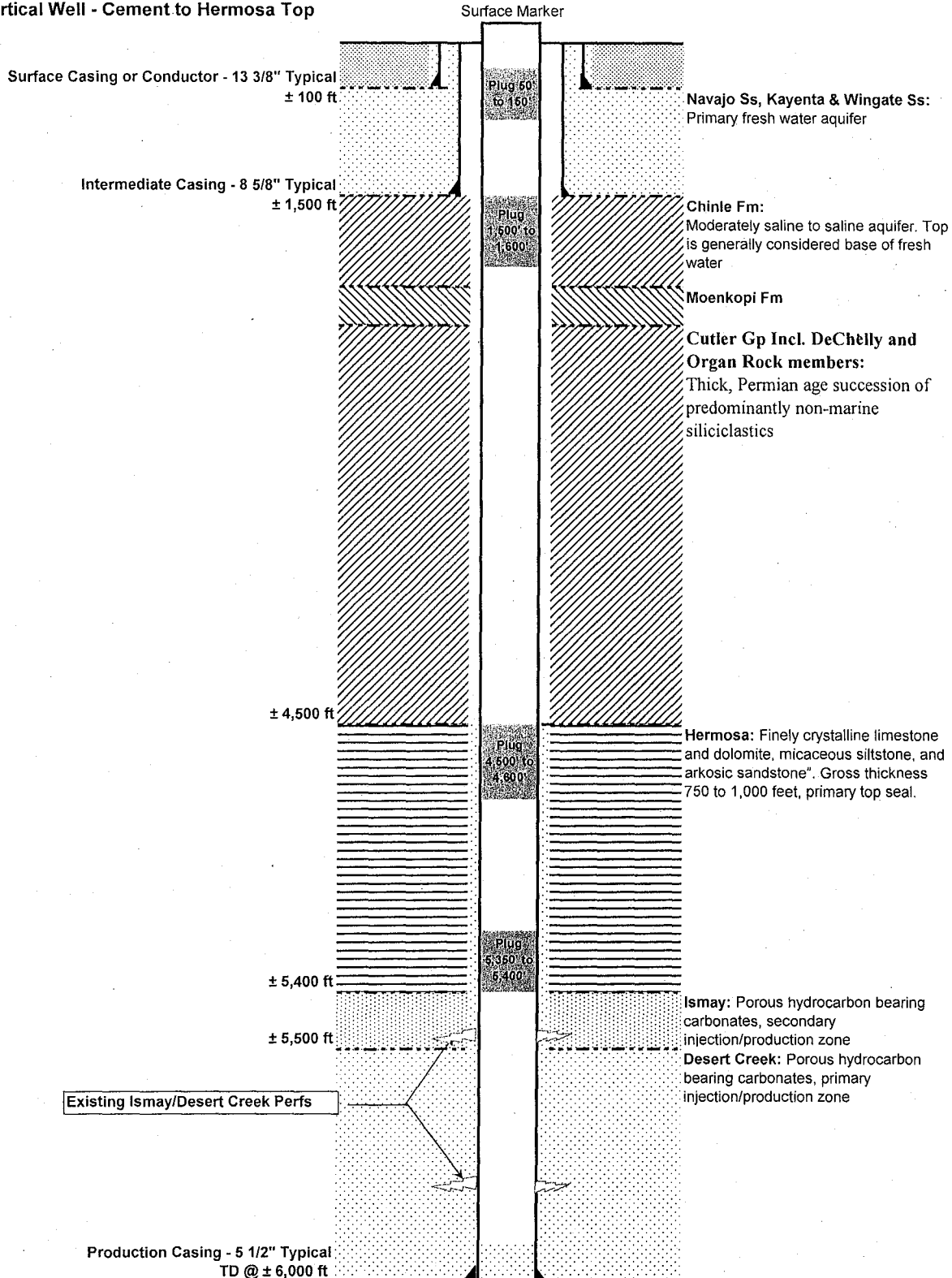
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - Cement to Hermosa Top



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.

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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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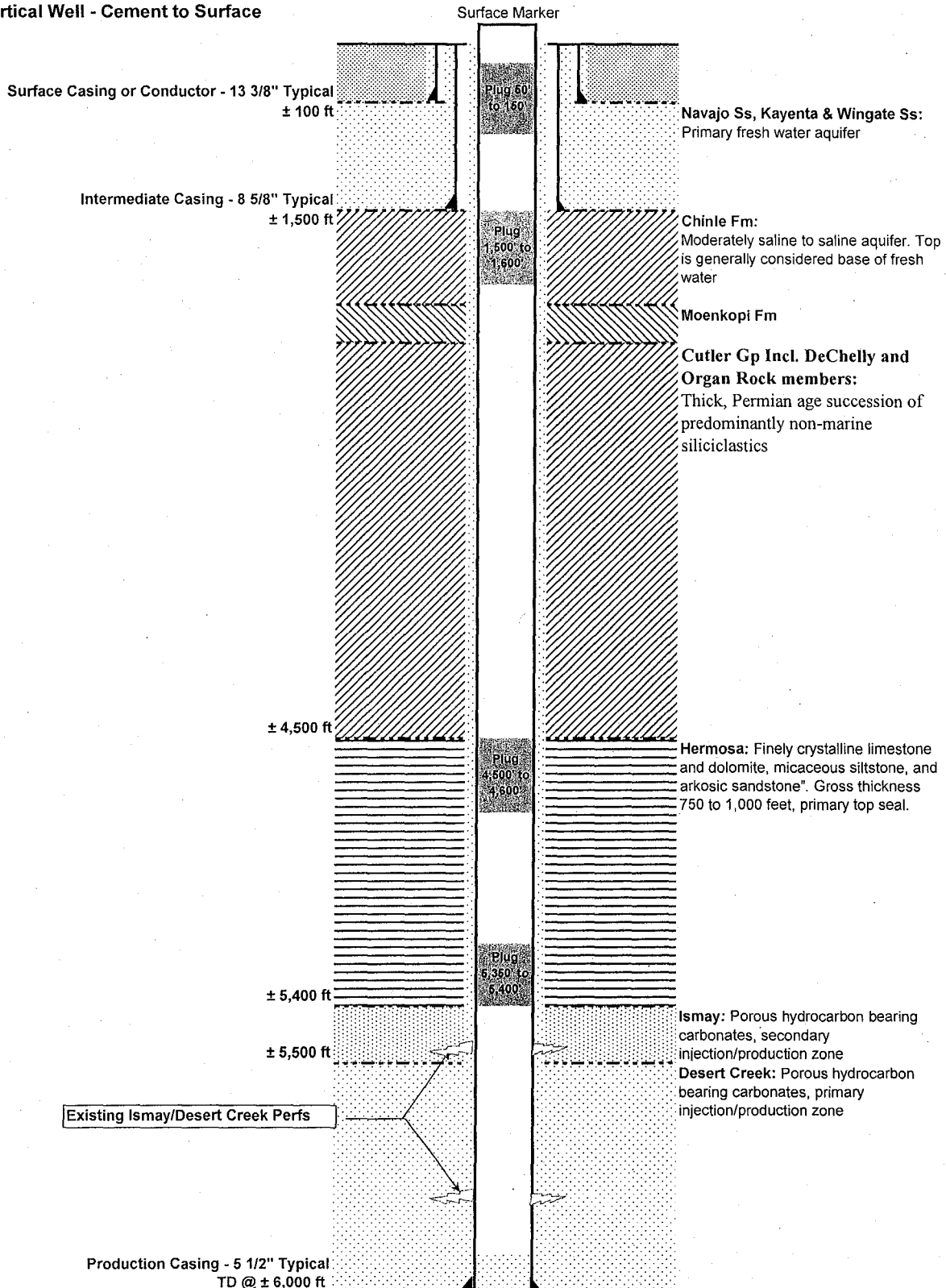
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - Cement to Surface



NOTES:

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

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

RESOLUTE

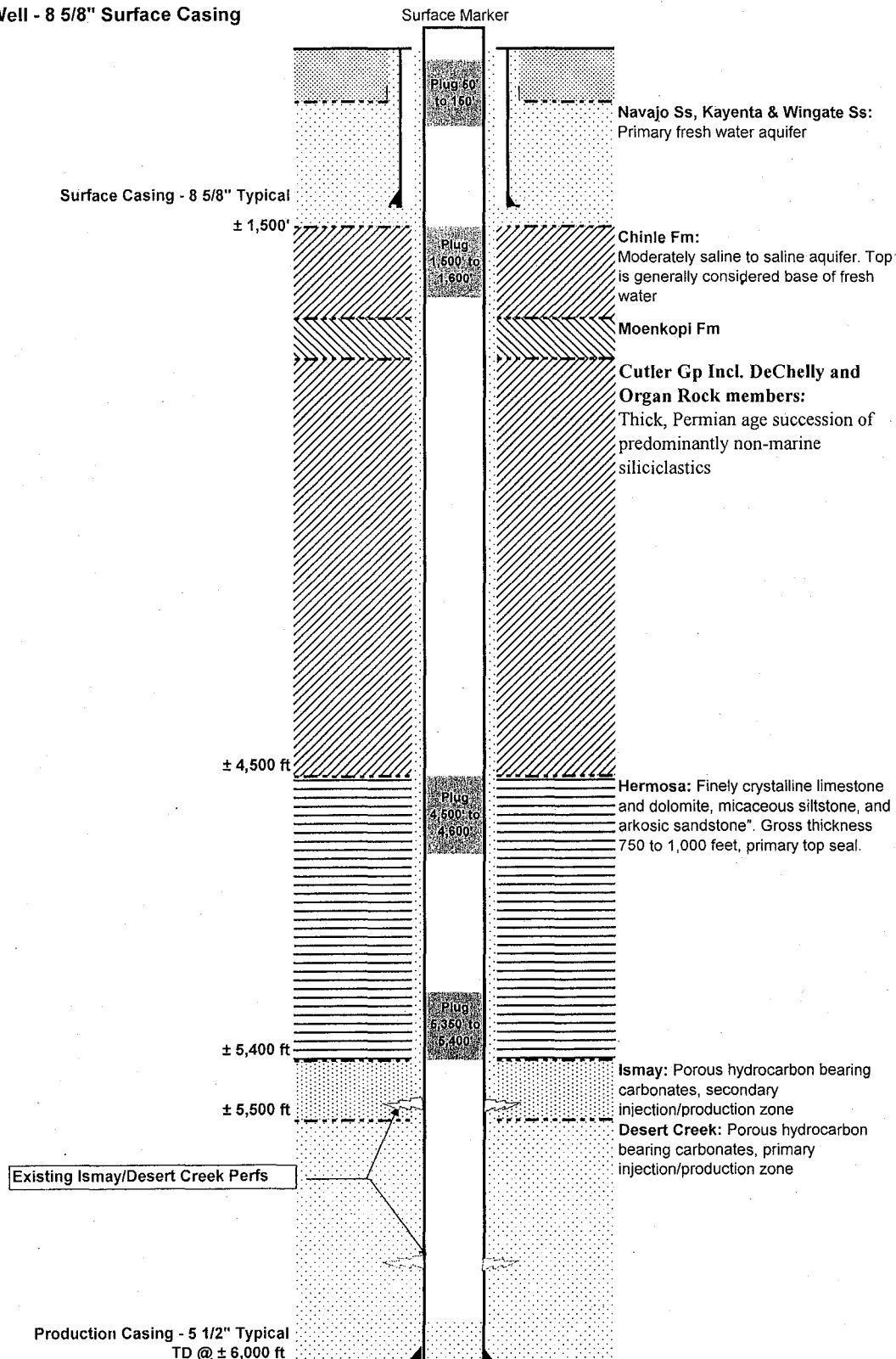
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Vertical Well - 8 5/8" Surface Casing



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.


 United States Environmental Protection Agency
 Washington, DC 20460

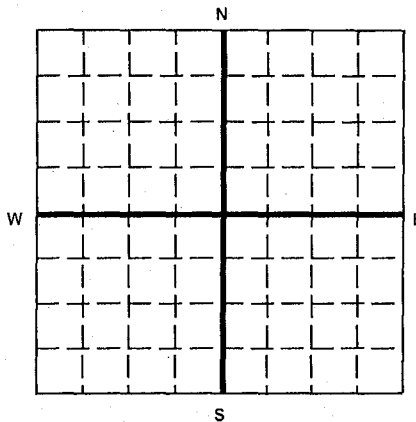
PLUGGING AND ABANDONMENT PLAN

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Name and Address of Owner/Operator

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 23429 County Road G, Cortez, CO 81321

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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 68

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' 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 | 1600 | 150 | | | |
| 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 | 1500 | 50 | | | |
| 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 |
|----------------------|-----------|------|----|
| 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

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Name and Official Title (Please type or print)

Dwight E Mallory, EH&S Coordinator

Signature

Date Signed

1/4/08

RESOLUTE

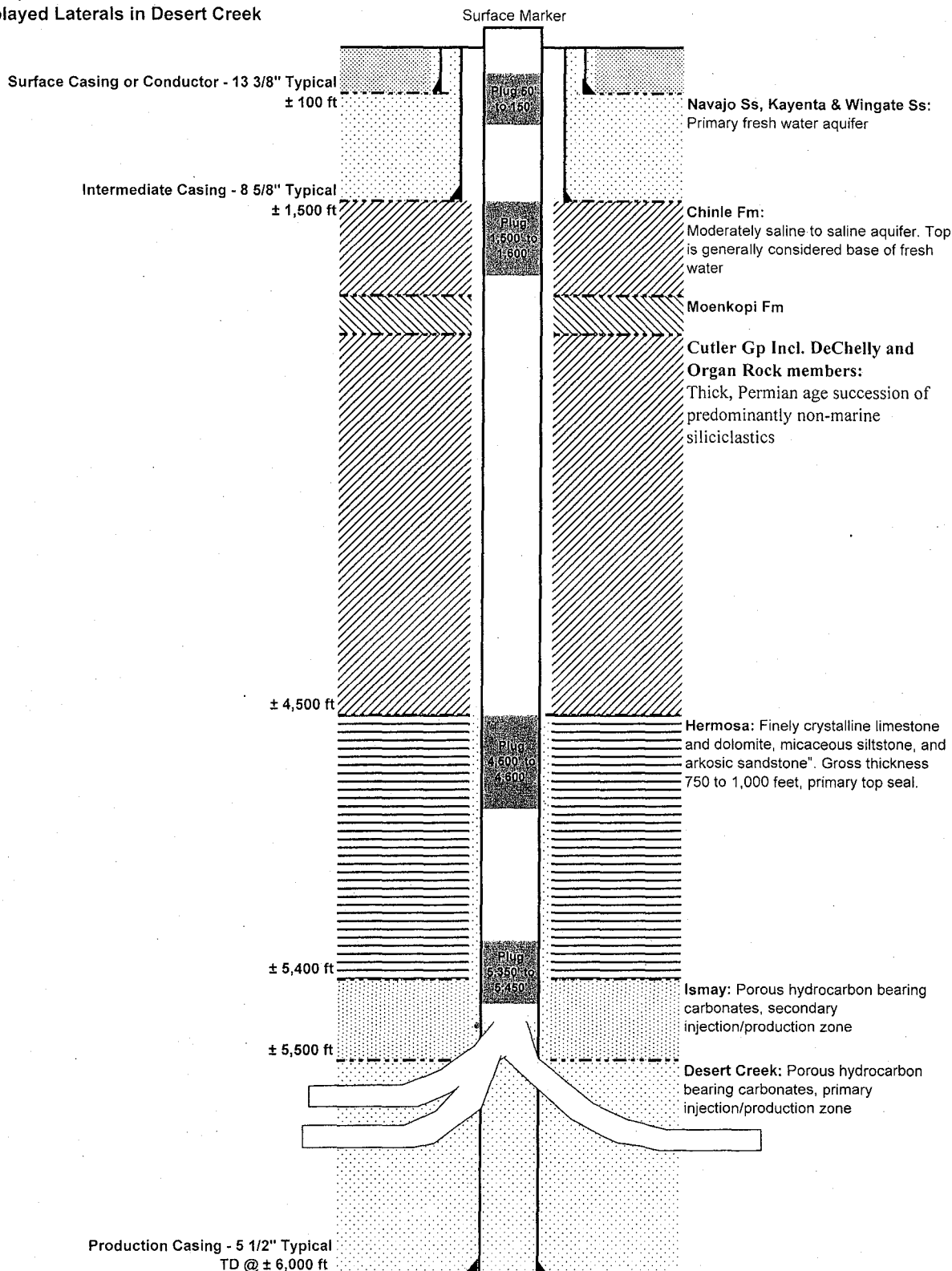
NATURAL RESOURCES

Aneth Unit

San Juan County, UT

Sample Horizontal UIC Well - P&A Schematic

Splayed Laterals in Desert Creek



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.