

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011  
Permit 272135

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                                     |  |                               |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------|
| 1. Operator Name and Address<br>TAP ROCK OPERATING, LLC<br>602 Park Point Drive<br>Golden, CO 80401 |  | 2. OGRID Number<br>372043     |
| 4. Property Code<br>326121                                                                          |  | 3. API Number<br>30-015-46288 |
| 5. Property Name<br>DELIRIUM STATE COM                                                              |  | 6. Well No.<br>234H           |

**7. Surface Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| P        | 13      | 25S      | 27E   |         | 409       | S        | 941       | E        | Eddy   |

**8. Proposed Bottom Hole Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| A        | 13      | 25S      | 27E   | A       | 200       | N        | 332       | E        | Eddy   |

**9. Pool Information**

|                            |       |
|----------------------------|-------|
| PURPLE SAGE;WOLFCAMP (GAS) | 98220 |
|----------------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>GAS        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3088 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>14900 | 18. Formation<br>Wolfcamp              | 19. Contractor          | 20. Spud Date<br>8/5/2020          |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☐ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 750           | 775             | 0             |
| Int1 | 12.25     | 9.625       | 40               | 2425          | 650             | 0             |
| Int2 | 8.75      | 7.625       | 29.7             | 9400          | 400             | 2125          |
| Prod | 6.75      | 5.5         | 20               | 9400          | 0               | 8900          |
| Prod | 6.75      | 5           | 18               | 14900         | 500             | 8900          |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular    | 5000             | 1500          |              |
| Double Ram | 10000            | 5000          |              |
| Blind      | 10000            | 5000          |              |

|                                                                                                                                                                                                                                                                                                                      |                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.<br><br>Signature: | <b>OIL CONSERVATION DIVISION</b>                                                                                                             |
| Printed Name: Electronically filed by Christian Combs<br>Title: Regulatory Manager<br>Email Address: ccombs@taprk.com<br>Date: 9/20/2019                                                                                                                                                                             | Approved By: Raymond Podany<br>Title: Geologist<br>Approved Date: 9/20/2019<br>Expiration Date: 9/20/2021<br>Conditions of Approval Attached |

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State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                            |                                                        |                                  |
|----------------------------|--------------------------------------------------------|----------------------------------|
| <sup>1</sup> API Number    | <sup>2</sup> Pool Code                                 | <sup>3</sup> Pool Name           |
| <sup>4</sup> Property Code | <sup>5</sup> Property Name<br>DELIRIUM STATE COM       | <sup>6</sup> Well Number<br>234H |
| <sup>7</sup> OGRID No.     | <sup>8</sup> Operator Name<br>TAP ROCK OPERATING, LLC. | <sup>9</sup> Elevation<br>3088'  |

<sup>10</sup>Surface Location

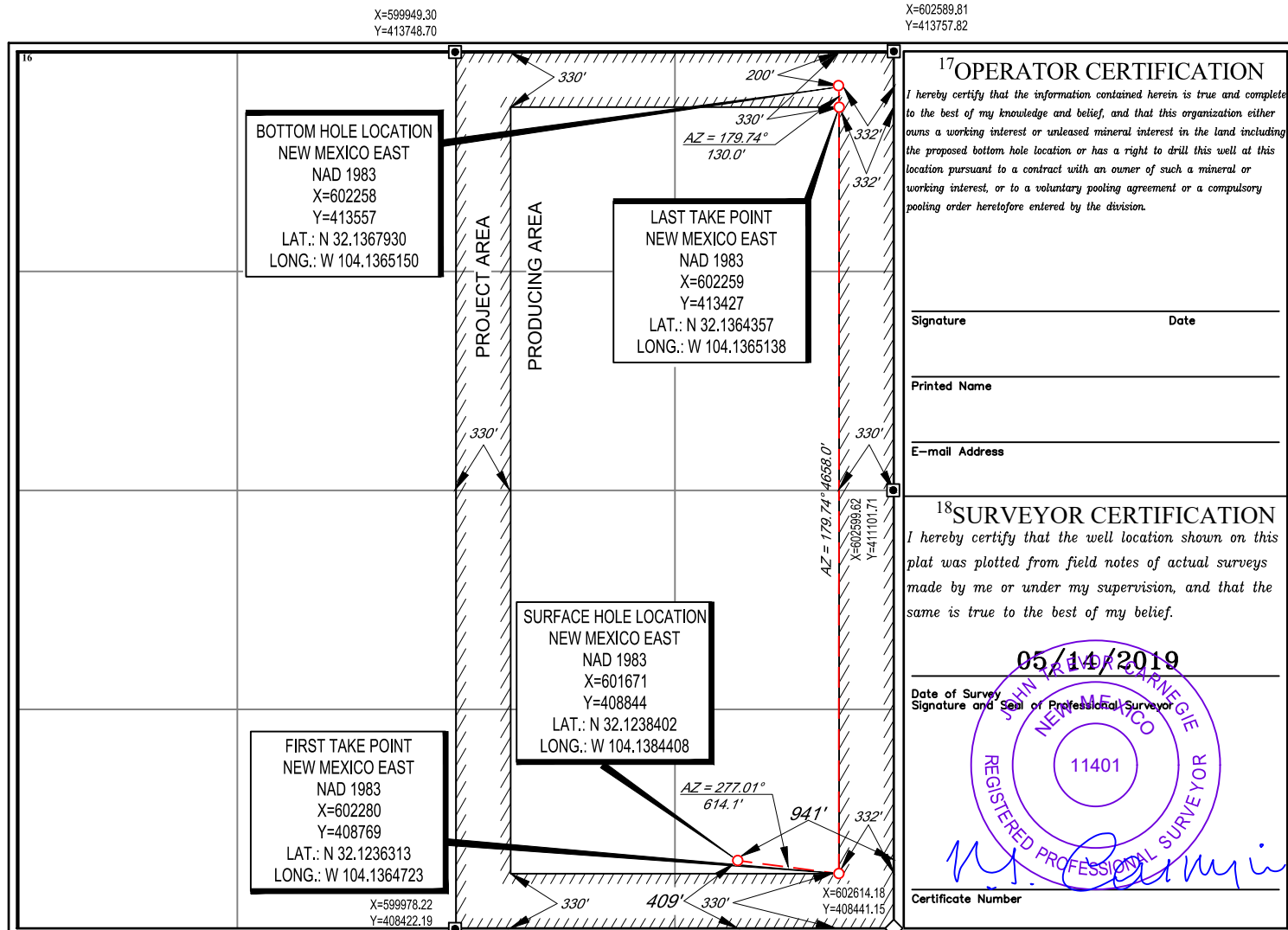
|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| P             | 13      | 25-S     | 27-E  | -       | 409'          | SOUTH            | 941'          | EAST           | EDDY   |

<sup>11</sup>Bottom Hole Location If Different From Surface

|               |         |          |       |         |               |                  |               |                |        |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| A             | 13      | 25-S     | 27-E  | -       | 200'          | NORTH            | 332'          | EAST           | EDDY   |

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





SECTION 13 TWP 25-S RGE 27-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM ELEVATION 3088'  
DESCRIPTION 409' FSL & 941' FEL

SCALE: 1" = 1000'

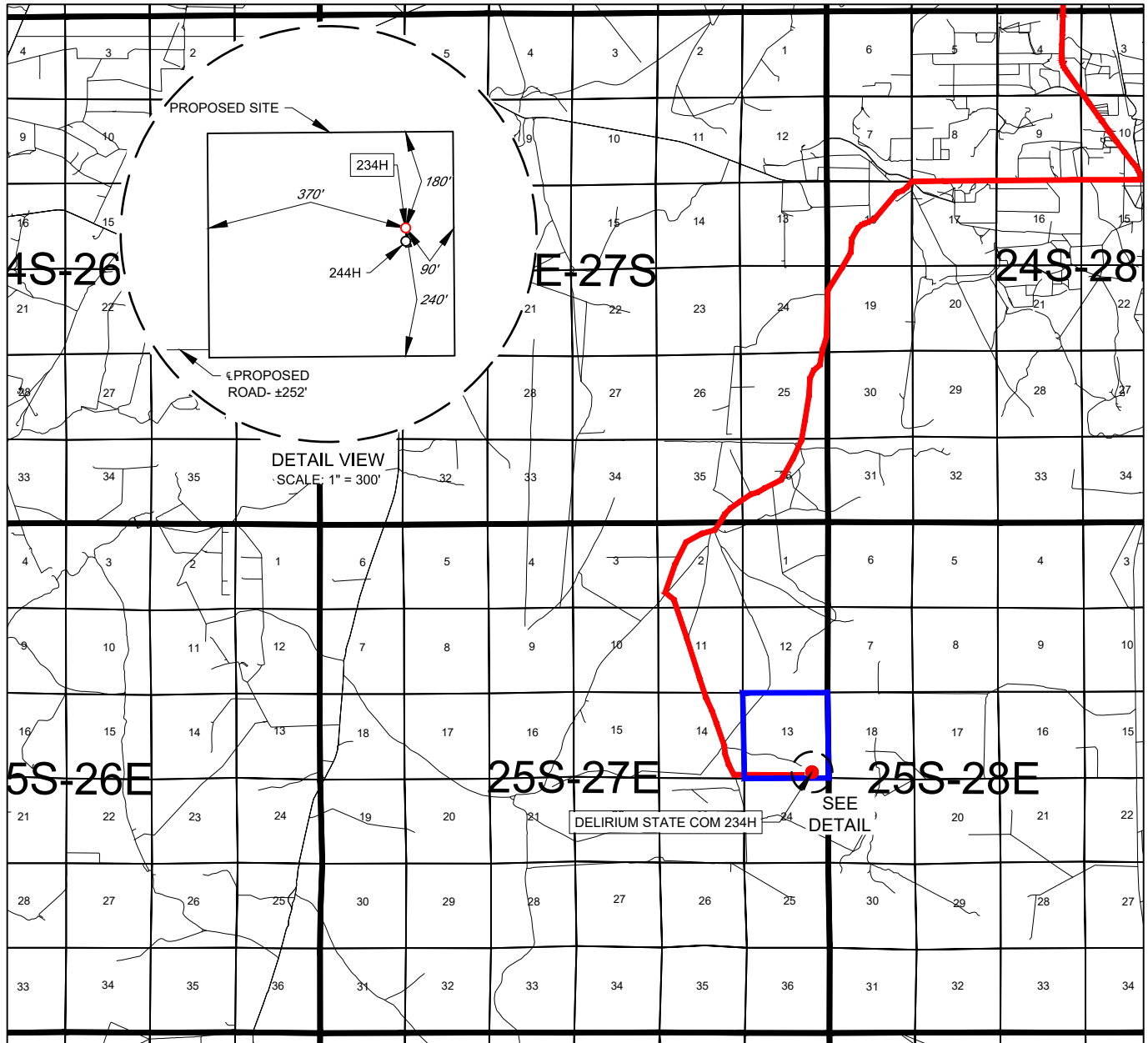


0' 500' 1000'



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM

# EXHIBIT 2 VICINITY MAP



LEASE NAME & WELL NO.: DELIRIUM STATE COM 234H

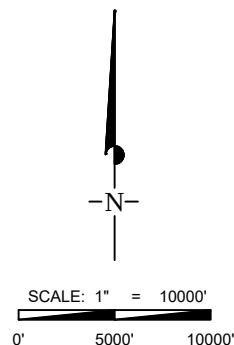
SECTION 13 TWP 25-S RGE 27-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM  
 DESCRIPTION 409' FSL & 941' FEL

## DISTANCE & DIRECTION

FROM INT. OF US-285 & BLACK RIVER VILLAGE RD., HEAD WEST ON BLACK RIVER VILLAGE RD.  $\pm 2.7$  MILES, THENCE LEFT ONTO ROADRUNNER RD.  $\pm 6.1$  MILES, THENCE LEFT ON LEASE RD.  $\pm 2.4$  MILES, THENCE LEFT ON A LEASE RD.  $\pm 0.8$  MILE, THENCE LEFT ON A PROPOSED RD.  $\pm 252$  FEET TO A POINT  $\pm 433$  FEET SOUTHWEST OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAN AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

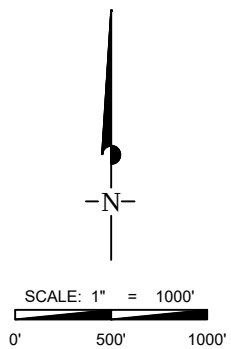
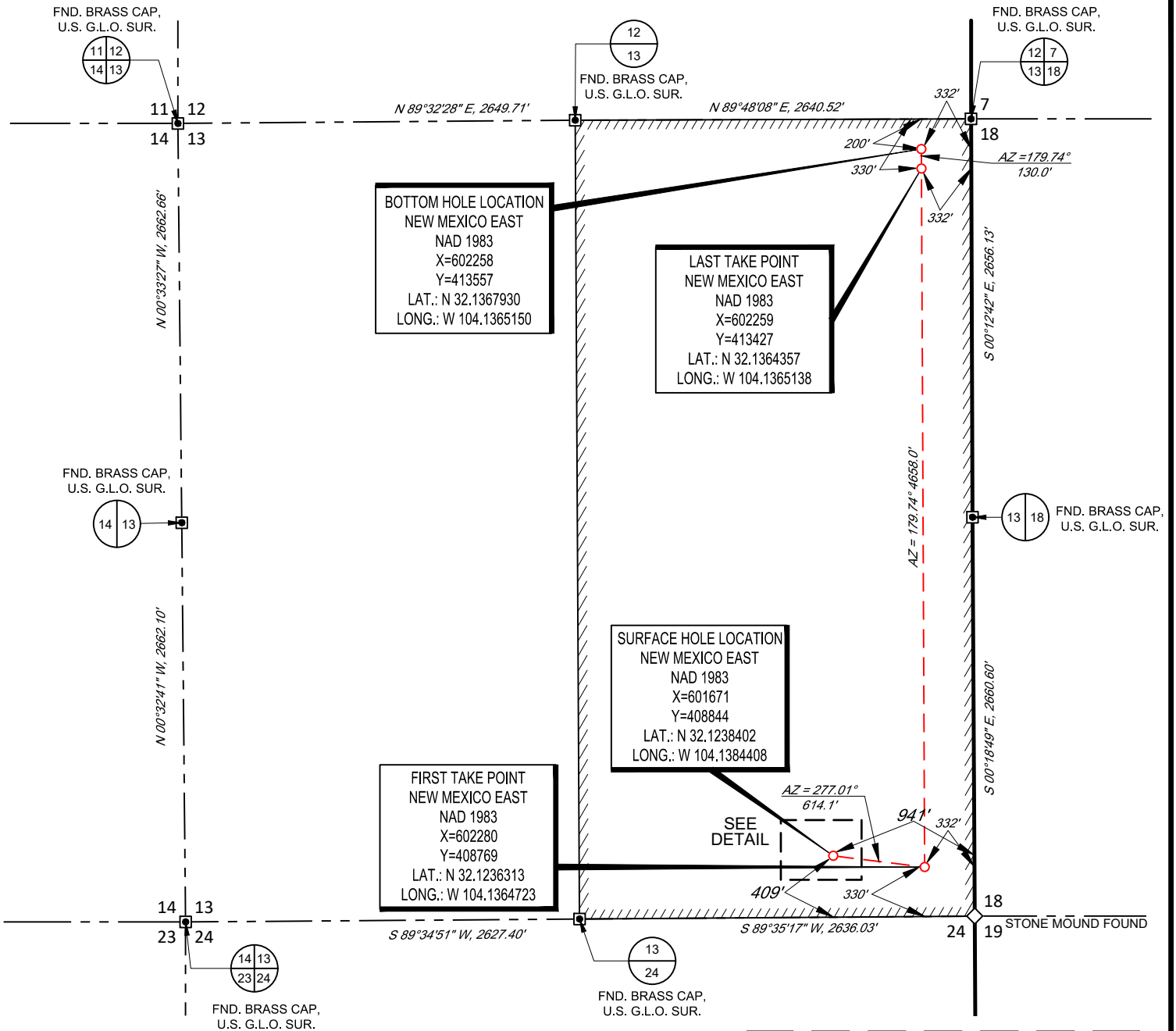


**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
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 WWW.TOPOGRAPHIC.COM



SECTION 13, TOWNSHIP 25-S, RANGE 27-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO



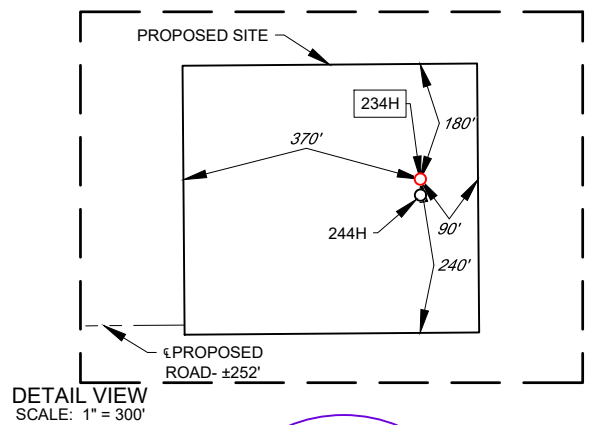
LEASE NAME & WELL NO.: DELIRIUM STATE COM 234H

SECTION 13 TWP 25-S RGE 27-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM  
DESCRIPTION 409' FSL & 941' FEL

DISTANCE & DIRECTION  
FROM INT. OF US-285 & BLACK RIVER VILLAGE RD., HEAD WEST ON BLACK  
RIVER VILLAGE RD. ±2.7 MILES, THENCE LEFT ONTO ROADRUNNER RD. ±6.1  
MILES, THENCE LEFT ON LEASE RD. ±2.4 MILES, THENCE LEFT ON A LEASE  
RD. ±0.8 MILE, THENCE LEFT ON A PROPOSED RD. ±252 FEET TO A POINT  
±433 FEET SOUTHWEST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID  
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY  
FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



John Trevor Carnegie, P.S. No. 11401  
MAY 14, 2019



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

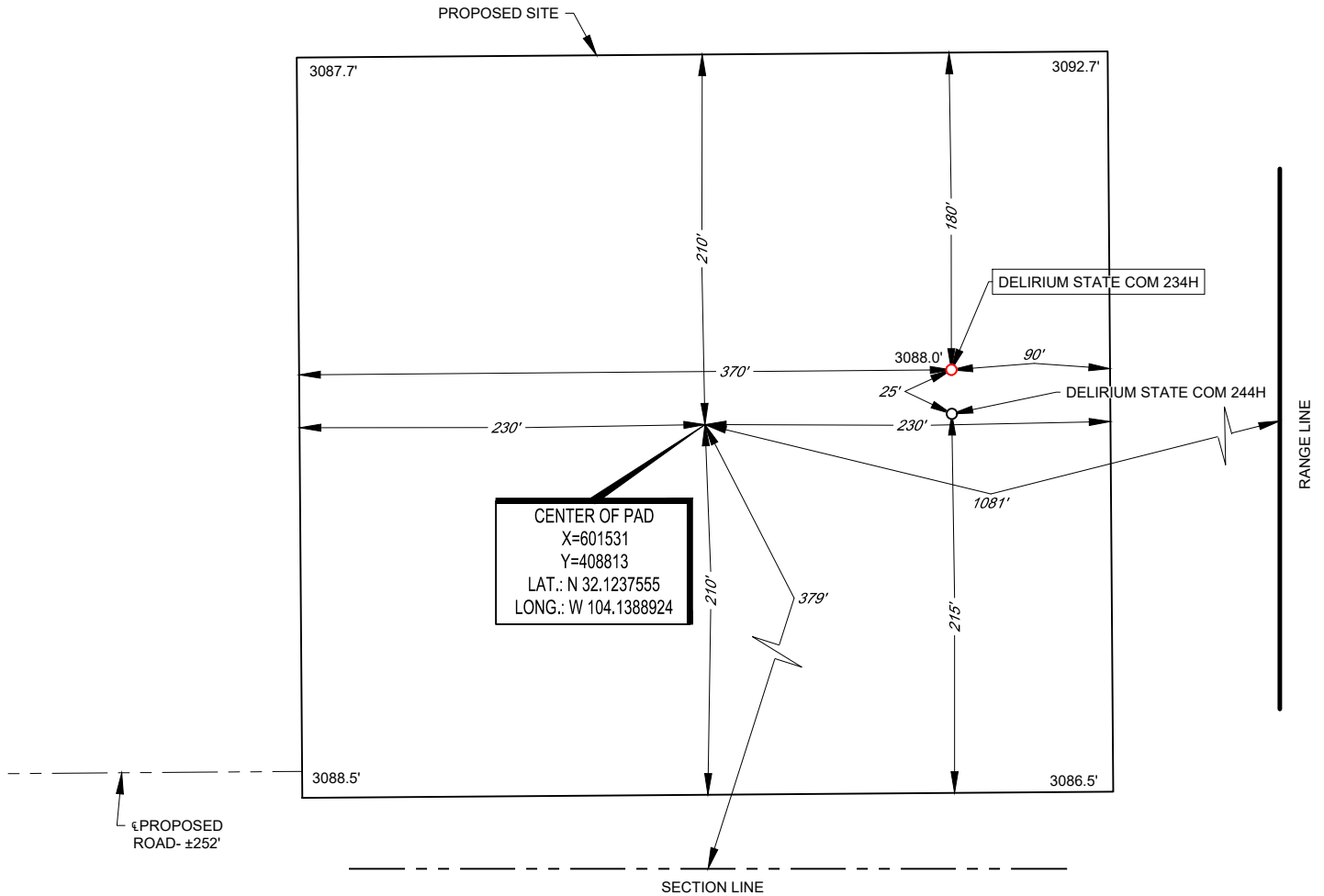
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
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# EXHIBIT 2B



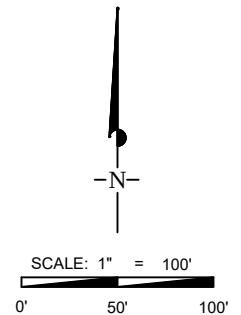
SECTION 13, TOWNSHIP 25-S, RANGE 27-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: DELIRIUM STATE COM 234H  
234H LATITUDE N 32.1238402 234H LONGITUDE W 104.1384408

CENTER OF PAD IS 379' FSL & 1081' FEL



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID  
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY  
FEET.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER  
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,  
AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO  
THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS  
SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

## GAS CAPTURE PLAN

Date: 9/20/2019

☒ Original

Operator & OGRID No.: [372043] TAP ROCK OPERATING, LLC

☐ Amended - Reason for  
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                | API          | Well Location (ULSTR) | Footages    | Expected MCF/D | Flared or Vented | Comments |
|--------------------------|--------------|-----------------------|-------------|----------------|------------------|----------|
| DELIRIUM STATE COM #234H | 30-015-46288 | P-13-25S-27E          | 0409S 0941E | 200            | None             |          |

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ARM Midstream Management, LLC and will be connected to ARM Midstream Management, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 100' of pipeline to connect the facility to High Pressure gathering system. TAP ROCK OPERATING, LLC provides (periodically) to ARM Midstream Management, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, TAP ROCK OPERATING, LLC and ARM Midstream Management, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ARM Midstream Management, LLC Processing Plant located in Sec. 13, Twn. 25S, Rng. 27E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ARM Midstream Management, LLC system at that time. Based on current information, it is TAP ROCK OPERATING, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Comments

Permit 272135

PERMIT COMMENTS

|                                                                                                            |  |                                   |
|------------------------------------------------------------------------------------------------------------|--|-----------------------------------|
| Operator Name and Address:<br>TAP ROCK OPERATING, LLC [372043]<br>602 Park Point Drive<br>Golden, CO 80401 |  | API Number:<br>30-015-46288       |
|                                                                                                            |  | Well:<br>DELIRIUM STATE COM #234H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

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Form APD Conditions

Permit 272135

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                            |                                                                                     |                                   |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|
| Operator Name and Address:<br>TAP ROCK OPERATING, LLC [372043]<br>602 Park Point Drive<br>Golden, CO 80401 |                                                                                     | API Number:<br>30-015-46288       |
|                                                                                                            |                                                                                     | Well:<br>DELIRIUM STATE COM #234H |
| OCD Reviewer                                                                                               | Condition                                                                           |                                   |
| rpodany                                                                                                    | Will require a directional survey with the C-104                                    |                                   |
| rpodany                                                                                                    | Cement is required to circulate on both surface and intermediate1 strings of casing |                                   |

# **Tap Rock Operating, LLC.**

**Eddy County, NM (NAD83)**

**Delirium State Com**

**234H**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**09 June, 2019**

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD83)   |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                              |                    |                          |                  |
|------------------------------|--------------------|--------------------------|------------------|
| <b>Site</b>                  | Delirium State Com |                          |                  |
| <b>Site Position:</b>        |                    | <b>Northing:</b>         | 408,843.65 usft  |
| <b>From:</b>                 | Lat/Long           | <b>Easting:</b>          | 601,670.57 usft  |
| <b>Position Uncertainty:</b> | 2.0 usft           | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |                    | <b>Latitude:</b>         | 32° 7' 25.825 N  |
|                              |                    | <b>Longitude:</b>        | 104° 8' 18.387 W |
|                              |                    | <b>Grid Convergence:</b> | 0.10 °           |

|                             |              |                            |                                  |
|-----------------------------|--------------|----------------------------|----------------------------------|
| <b>Well</b>                 | 234H         |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.0 usft                   | <b>Northing:</b> 408,843.65 usft |
|                             | <b>+E/-W</b> | 0.0 usft                   | <b>Easting:</b> 601,670.57 usft  |
| <b>Position Uncertainty</b> | 2.0 usft     | <b>Wellhead Elevation:</b> | 0.0 usft                         |
|                             |              | <b>Latitude:</b>           | 32° 7' 25.825 N                  |
|                             |              | <b>Longitude:</b>          | 104° 8' 18.387 W                 |
|                             |              | <b>Ground Level:</b>       | 3,088.0 usft                     |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 6/9/2019           | 6.99                   | 59.86                | 47,618                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 359.74               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |               |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target        |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 1,033.3               | 8.00            | 120.00      | 1,031.6               | -18.6        | 32.2         | 1.50                    | 1.50                   | 0.00                  | 120.00  |               |
| 5,563.3               | 8.00            | 120.00      | 5,517.5               | -333.8       | 578.2        | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 6,096.7               | 0.00            | 0.00        | 6,049.1               | -352.4       | 610.4        | 1.50                    | -1.50                  | 0.00                  | 180.00  |               |
| 9,511.5               | 0.00            | 0.00        | 9,464.0               | -352.4       | 610.4        | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 10,408.5              | 89.69           | 359.74      | 10,037.0              | 217.5        | 607.8        | 10.00                   | 10.00                  | 0.00                  | 359.74  |               |
| 14,774.2              | 89.69           | 359.74      | 10,060.6              | 4,583.0      | 588.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP (D.234H)  |
| 14,904.1              | 89.69           | 359.74      | 10,061.3              | 4,713.0      | 587.4        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (D.234H) |

| Planned Survey                 |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                            | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                          | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                          | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                          | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                          | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                          | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Build tang to 8° Inc, 120° Azm |                 |             |                       |              |              |                         |                         |                        |                       |
| 600.0                          | 1.50            | 120.00      | 600.0                 | -0.7         | 1.1          | -0.7                    | 1.50                    | 1.50                   | 0.00                  |
| 694.1                          | 2.91            | 120.00      | 694.0                 | -2.5         | 4.3          | -2.5                    | 1.50                    | 1.50                   | 0.00                  |
| Rustler                        |                 |             |                       |              |              |                         |                         |                        |                       |
| 700.0                          | 3.00            | 120.00      | 699.9                 | -2.6         | 4.5          | -2.6                    | 1.50                    | 1.50                   | 0.00                  |
| 800.0                          | 4.50            | 120.00      | 799.7                 | -5.9         | 10.2         | -5.9                    | 1.50                    | 1.50                   | 0.00                  |
| 900.0                          | 6.00            | 120.00      | 899.3                 | -10.5        | 18.1         | -10.5                   | 1.50                    | 1.50                   | 0.00                  |
| 1,000.0                        | 7.50            | 120.00      | 998.6                 | -16.3        | 28.3         | -16.5                   | 1.50                    | 1.50                   | 0.00                  |
| 1,033.3                        | 8.00            | 120.00      | 1,031.6               | -18.6        | 32.2         | -18.7                   | 1.50                    | 1.50                   | 0.00                  |
| 1,100.0                        | 8.00            | 120.00      | 1,097.6               | -23.2        | 40.2         | -23.4                   | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                        | 8.00            | 120.00      | 1,196.6               | -30.2        | 52.3         | -30.4                   | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                        | 8.00            | 120.00      | 1,295.7               | -37.1        | 64.3         | -37.4                   | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0                        | 8.00            | 120.00      | 1,394.7               | -44.1        | 76.4         | -44.4                   | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                        | 8.00            | 120.00      | 1,493.7               | -51.1        | 88.4         | -51.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0                        | 8.00            | 120.00      | 1,592.8               | -58.0        | 100.5        | -58.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                        | 8.00            | 120.00      | 1,691.8               | -65.0        | 112.5        | -65.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                        | 8.00            | 120.00      | 1,790.8               | -71.9        | 124.6        | -72.5                   | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                        | 8.00            | 120.00      | 1,889.8               | -78.9        | 136.7        | -79.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                        | 8.00            | 120.00      | 1,988.9               | -85.9        | 148.7        | -86.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                        | 8.00            | 120.00      | 2,087.9               | -92.8        | 160.8        | -93.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,149.6                        | 8.00            | 120.00      | 2,137.0               | -96.3        | 166.7        | -97.0                   | 0.00                    | 0.00                   | 0.00                  |
| Base of Salt                   |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,200.0                        | 8.00            | 120.00      | 2,186.9               | -99.8        | 172.8        | -100.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                        | 8.00            | 120.00      | 2,285.9               | -106.7       | 184.9        | -107.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,351.6                        | 8.00            | 120.00      | 2,337.0               | -110.3       | 191.1        | -111.2                  | 0.00                    | 0.00                   | 0.00                  |
| Lamar                          |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,374.8                        | 8.00            | 120.00      | 2,360.0               | -111.9       | 193.9        | -112.8                  | 0.00                    | 0.00                   | 0.00                  |
| Bell Canyon                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,400.0                        | 8.00            | 120.00      | 2,385.0               | -113.7       | 196.9        | -114.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                        | 8.00            | 120.00      | 2,484.0               | -120.6       | 209.0        | -121.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                        | 8.00            | 120.00      | 2,583.0               | -127.6       | 221.0        | -128.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                        | 8.00            | 120.00      | 2,682.0               | -134.6       | 233.1        | -135.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                        | 8.00            | 120.00      | 2,781.1               | -141.5       | 245.1        | -142.6                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                        | 8.00            | 120.00      | 2,880.1               | -148.5       | 257.2        | -149.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                        | 8.00            | 120.00      | 2,979.1               | -155.4       | 269.2        | -156.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                        | 8.00            | 120.00      | 3,078.2               | -162.4       | 281.3        | -163.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                        | 8.00            | 120.00      | 3,177.2               | -169.4       | 293.3        | -170.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                        | 8.00            | 120.00      | 3,276.2               | -176.3       | 305.4        | -177.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                        | 8.00            | 120.00      | 3,375.2               | -183.3       | 317.4        | -184.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,473.5                        | 8.00            | 120.00      | 3,448.0               | -188.4       | 326.3        | -189.9                  | 0.00                    | 0.00                   | 0.00                  |
| Cherry Canyon                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,500.0                        | 8.00            | 120.00      | 3,474.3               | -190.2       | 329.5        | -191.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                        | 8.00            | 120.00      | 3,573.3               | -197.2       | 341.5        | -198.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0                        | 8.00            | 120.00      | 3,672.3               | -204.2       | 353.6        | -205.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                        | 8.00            | 120.00      | 3,771.3               | -211.1       | 365.7        | -212.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                        | 8.00            | 120.00      | 3,870.4               | -218.1       | 377.7        | -219.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                        | 8.00            | 120.00      | 3,969.4               | -225.0       | 389.8        | -226.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                        | 8.00            | 120.00      | 4,068.4               | -232.0       | 401.8        | -233.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                        | 8.00            | 120.00      | 4,167.5               | -238.9       | 413.9        | -240.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                        | 8.00            | 120.00      | 4,266.5               | -245.9       | 425.9        | -247.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                        | 8.00            | 120.00      | 4,365.5               | -252.9       | 438.0        | -254.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,441.9                        | 8.00            | 120.00      | 4,407.0               | -255.8       | 443.0        | -257.8                  | 0.00                    | 0.00                   | 0.00                  |
| Brushy Canyon                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,500.0                        | 8.00            | 120.00      | 4,464.5               | -259.8       | 450.0        | -261.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                        | 8.00            | 120.00      | 4,563.6               | -266.8       | 462.1        | -268.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                        | 8.00            | 120.00      | 4,662.6               | -273.7       | 474.1        | -275.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                        | 8.00            | 120.00      | 4,761.6               | -280.7       | 486.2        | -282.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0                        | 8.00            | 120.00      | 4,860.6               | -287.7       | 498.2        | -289.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                        | 8.00            | 120.00      | 4,959.7               | -294.6       | 510.3        | -296.9                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                        | 8.00            | 120.00      | 5,058.7               | -301.6       | 522.3        | -303.9                  | 0.00                    | 0.00                   | 0.00                  |

| Planned Survey                       |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,200.0                              | 8.00            | 120.00      | 5,157.7               | -308.5       | 534.4        | -311.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0                              | 8.00            | 120.00      | 5,256.7               | -315.5       | 546.4        | -318.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0                              | 8.00            | 120.00      | 5,355.8               | -322.4       | 558.5        | -325.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0                              | 8.00            | 120.00      | 5,454.8               | -329.4       | 570.5        | -332.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,563.3                              | 8.00            | 120.00      | 5,517.5               | -333.8       | 578.2        | -336.4                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop to Vertical @ 5563.3' MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,600.0                              | 7.45            | 120.00      | 5,553.9               | -336.3       | 582.5        | -338.9                  | 1.50                    | -1.50                  | 0.00                  |
| 5,700.0                              | 5.95            | 120.00      | 5,653.2               | -342.1       | 592.6        | -344.8                  | 1.50                    | -1.50                  | 0.00                  |
| 5,800.0                              | 4.45            | 120.00      | 5,752.7               | -346.6       | 600.4        | -349.4                  | 1.50                    | -1.50                  | 0.00                  |
| 5,900.0                              | 2.95            | 120.00      | 5,852.5               | -349.9       | 606.0        | -352.6                  | 1.50                    | -1.50                  | 0.00                  |
| 6,000.0                              | 1.45            | 120.00      | 5,952.5               | -351.8       | 609.3        | -354.6                  | 1.50                    | -1.50                  | 0.00                  |
| 6,096.7                              | 0.00            | 0.00        | 6,049.1               | -352.4       | 610.4        | -355.2                  | 1.50                    | -1.50                  | 0.00                  |
| 6,100.0                              | 0.00            | 0.00        | 6,052.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,123.5                              | 0.00            | 0.00        | 6,076.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>B.S. Lime</b>                     |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,200.0                              | 0.00            | 0.00        | 6,152.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,207.5                              | 0.00            | 0.00        | 6,160.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Avalon</b>                        |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,300.0                              | 0.00            | 0.00        | 6,252.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0                              | 0.00            | 0.00        | 6,352.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0                              | 0.00            | 0.00        | 6,452.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0                              | 0.00            | 0.00        | 6,552.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0                              | 0.00            | 0.00        | 6,652.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0                              | 0.00            | 0.00        | 6,752.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0                              | 0.00            | 0.00        | 6,852.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 6,964.5                              | 0.00            | 0.00        | 6,917.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>1st B.S. Sand</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,000.0                              | 0.00            | 0.00        | 6,952.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0                              | 0.00            | 0.00        | 7,052.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0                              | 0.00            | 0.00        | 7,152.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0                              | 0.00            | 0.00        | 7,252.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0                              | 0.00            | 0.00        | 7,352.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0                              | 0.00            | 0.00        | 7,452.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,581.5                              | 0.00            | 0.00        | 7,534.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd B.S. Sand</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,600.0                              | 0.00            | 0.00        | 7,552.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.0                              | 0.00            | 0.00        | 7,652.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0                              | 0.00            | 0.00        | 7,752.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0                              | 0.00            | 0.00        | 7,852.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0                              | 0.00            | 0.00        | 7,952.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.0                              | 0.00            | 0.00        | 8,052.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0                              | 0.00            | 0.00        | 8,152.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0                              | 0.00            | 0.00        | 8,252.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0                              | 0.00            | 0.00        | 8,352.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.0                              | 0.00            | 0.00        | 8,452.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0                              | 0.00            | 0.00        | 8,552.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0                              | 0.00            | 0.00        | 8,652.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0                              | 0.00            | 0.00        | 8,752.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 8,817.5                              | 0.00            | 0.00        | 8,770.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>3rd B.S. Sand</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,900.0                              | 0.00            | 0.00        | 8,852.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0                              | 0.00            | 0.00        | 8,952.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0                              | 0.00            | 0.00        | 9,052.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,152.5                              | 0.00            | 0.00        | 9,105.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>WCA X Sand</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,200.0                              | 0.00            | 0.00        | 9,152.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,214.5                              | 0.00            | 0.00        | 9,167.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>WCA Y Sand</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,300.0                              | 0.00            | 0.00        | 9,252.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                              | 0.00            | 0.00        | 9,352.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                              | 0.00            | 0.00        | 9,452.5               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| 9,511.5                              | 0.00            | 0.00        | 9,464.0               | -352.4       | 610.4        | -355.2                  | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP @ 9511.5' MD / 9464' TVD</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,522.5                              | 1.10            | 359.74      | 9,475.0               | -352.3       | 610.4        | -355.1                  | 9.96                    | 9.96                   | 0.00                  |
| <b>WCB</b>                           |                 |             |                       |              |              |                         |                         |                        |                       |

| Planned Survey                            |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                     | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,550.0                                   | 3.84            | 359.74      | 9,502.4               | -351.1       | 610.4        | -353.9                  | 10.00                   | 10.00                  | 0.00                  |
| 9,600.0                                   | 8.84            | 359.74      | 9,552.1               | -345.6       | 610.3        | -348.4                  | 10.00                   | 10.00                  | 0.00                  |
| 9,650.0                                   | 13.84           | 359.74      | 9,601.1               | -335.8       | 610.3        | -338.5                  | 10.00                   | 10.00                  | 0.00                  |
| 9,700.0                                   | 18.84           | 359.74      | 9,649.1               | -321.7       | 610.2        | -324.5                  | 10.00                   | 10.00                  | 0.00                  |
| 9,750.0                                   | 23.84           | 359.74      | 9,695.6               | -303.5       | 610.2        | -306.3                  | 10.00                   | 10.00                  | 0.00                  |
| 9,800.0                                   | 28.84           | 359.74      | 9,740.4               | -281.3       | 610.1        | -284.1                  | 10.00                   | 10.00                  | 0.00                  |
| 9,850.0                                   | 33.84           | 359.74      | 9,783.1               | -255.3       | 609.9        | -258.1                  | 10.00                   | 10.00                  | 0.00                  |
| 9,900.0                                   | 38.84           | 359.74      | 9,823.4               | -225.7       | 609.8        | -228.5                  | 10.00                   | 10.00                  | 0.00                  |
| 9,950.0                                   | 43.84           | 359.74      | 9,860.9               | -192.7       | 609.7        | -195.4                  | 10.00                   | 10.00                  | 0.00                  |
| 10,000.0                                  | 48.84           | 359.74      | 9,895.4               | -156.5       | 609.5        | -159.3                  | 10.00                   | 10.00                  | 0.00                  |
| 10,050.0                                  | 53.84           | 359.74      | 9,926.6               | -117.5       | 609.3        | -120.3                  | 10.00                   | 10.00                  | 0.00                  |
| 10,100.0                                  | 58.84           | 359.74      | 9,954.3               | -75.9        | 609.1        | -78.6                   | 10.00                   | 10.00                  | 0.00                  |
| 10,147.0                                  | 63.54           | 359.74      | 9,977.0               | -34.7        | 608.9        | -37.4                   | 10.00                   | 10.00                  | 0.00                  |
| WCC                                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,150.0                                  | 63.84           | 359.74      | 9,978.3               | -32.0        | 608.9        | -34.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,200.0                                  | 68.84           | 359.74      | 9,998.4               | 13.8         | 608.7        | 11.0                    | 10.00                   | 10.00                  | 0.00                  |
| 10,250.0                                  | 73.84           | 359.74      | 10,014.4              | 61.1         | 608.5        | 58.3                    | 10.00                   | 10.00                  | 0.00                  |
| 10,300.0                                  | 78.84           | 359.74      | 10,026.2              | 109.7        | 608.3        | 106.9                   | 10.00                   | 10.00                  | 0.00                  |
| 10,350.0                                  | 83.84           | 359.74      | 10,033.7              | 159.1        | 608.1        | 156.3                   | 10.00                   | 10.00                  | 0.00                  |
| 10,400.0                                  | 88.84           | 359.74      | 10,036.9              | 209.0        | 607.8        | 206.2                   | 10.00                   | 10.00                  | 0.00                  |
| 10,408.5                                  | 89.69           | 359.74      | 10,037.0              | 217.5        | 607.8        | 214.7                   | 10.00                   | 10.00                  | 0.00                  |
| EOC - 10037' TVD, 89.69° Inc, 359.74° Azm |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,500.0                                  | 89.69           | 359.74      | 10,037.5              | 309.0        | 607.4        | 306.2                   | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                                  | 89.69           | 359.74      | 10,038.0              | 409.0        | 606.9        | 406.2                   | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                                  | 89.69           | 359.74      | 10,038.6              | 509.0        | 606.5        | 506.2                   | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                                  | 89.69           | 359.74      | 10,039.1              | 609.0        | 606.0        | 606.2                   | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                                  | 89.69           | 359.74      | 10,039.7              | 709.0        | 605.6        | 706.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                                  | 89.69           | 359.74      | 10,040.2              | 809.0        | 605.1        | 806.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                                  | 89.69           | 359.74      | 10,040.7              | 909.0        | 604.7        | 906.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                                  | 89.69           | 359.74      | 10,041.3              | 1,009.0      | 604.2        | 1,006.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                                  | 89.69           | 359.74      | 10,041.8              | 1,109.0      | 603.7        | 1,106.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                                  | 89.69           | 359.74      | 10,042.4              | 1,208.9      | 603.3        | 1,206.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                                  | 89.69           | 359.74      | 10,042.9              | 1,308.9      | 602.8        | 1,306.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                                  | 89.69           | 359.74      | 10,043.4              | 1,408.9      | 602.4        | 1,406.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                                  | 89.69           | 359.74      | 10,044.0              | 1,508.9      | 601.9        | 1,506.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                                  | 89.69           | 359.74      | 10,044.5              | 1,608.9      | 601.5        | 1,606.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                                  | 89.69           | 359.74      | 10,045.1              | 1,708.9      | 601.0        | 1,706.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                                  | 89.69           | 359.74      | 10,045.6              | 1,808.9      | 600.6        | 1,806.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                                  | 89.69           | 359.74      | 10,046.2              | 1,908.9      | 600.1        | 1,906.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                                  | 89.69           | 359.74      | 10,046.7              | 2,008.9      | 599.7        | 2,006.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                                  | 89.69           | 359.74      | 10,047.2              | 2,108.9      | 599.2        | 2,106.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                                  | 89.69           | 359.74      | 10,047.8              | 2,208.9      | 598.8        | 2,206.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                                  | 89.69           | 359.74      | 10,048.3              | 2,308.9      | 598.3        | 2,306.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                                  | 89.69           | 359.74      | 10,048.9              | 2,408.9      | 597.8        | 2,406.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                                  | 89.69           | 359.74      | 10,049.4              | 2,508.9      | 597.4        | 2,506.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                                  | 89.69           | 359.74      | 10,049.9              | 2,608.9      | 596.9        | 2,606.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                                  | 89.69           | 359.74      | 10,050.5              | 2,708.9      | 596.5        | 2,706.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                                  | 89.69           | 359.74      | 10,051.0              | 2,808.9      | 596.0        | 2,806.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                                  | 89.69           | 359.74      | 10,051.6              | 2,908.9      | 595.6        | 2,906.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                                  | 89.69           | 359.74      | 10,052.1              | 3,008.9      | 595.1        | 3,006.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                                  | 89.69           | 359.74      | 10,052.6              | 3,108.9      | 594.7        | 3,106.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                                  | 89.69           | 359.74      | 10,053.2              | 3,208.9      | 594.2        | 3,206.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                                  | 89.69           | 359.74      | 10,053.7              | 3,308.9      | 593.8        | 3,306.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                                  | 89.69           | 359.74      | 10,054.3              | 3,408.9      | 593.3        | 3,406.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                                  | 89.69           | 359.74      | 10,054.8              | 3,508.9      | 592.9        | 3,506.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                                  | 89.69           | 359.74      | 10,055.3              | 3,608.9      | 592.4        | 3,606.2                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                                  | 89.69           | 359.74      | 10,055.9              | 3,708.9      | 591.9        | 3,706.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                                  | 89.69           | 359.74      | 10,056.4              | 3,808.9      | 591.5        | 3,806.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                                  | 89.69           | 359.74      | 10,057.0              | 3,908.9      | 591.0        | 3,906.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                                  | 89.69           | 359.74      | 10,057.5              | 4,008.9      | 590.6        | 4,006.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                                  | 89.69           | 359.74      | 10,058.1              | 4,108.9      | 590.1        | 4,106.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                                  | 89.69           | 359.74      | 10,058.6              | 4,208.9      | 589.7        | 4,206.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                                  | 89.69           | 359.74      | 10,059.1              | 4,308.9      | 589.2        | 4,306.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                                  | 89.69           | 359.74      | 10,059.7              | 4,408.9      | 588.8        | 4,406.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                                  | 89.69           | 359.74      | 10,060.2              | 4,508.9      | 588.3        | 4,506.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,774.2                                  | 89.69           | 359.74      | 10,060.6              | 4,583.0      | 588.0        | 4,580.3                 | 0.00                    | 0.00                   | 0.00                  |

| Planned Survey                               |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                        | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 14,800.0                                     | 89.69           | 359.74      | 10,060.8              | 4,608.9      | 587.9        | 4,606.1                 | 0.00                    | 0.00                   | 0.00                  |
| 14,904.1                                     | 89.69           | 359.74      | 10,061.3              | 4,713.0      | 587.4        | 4,710.2                 | 0.00                    | 0.00                   | 0.00                  |
| PBHL @ 14904.1' MD, 10061.3' TVD, 4710.3' VS |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                                                                                                        |               |              |            |              |              |                 |                |                 |                  |
|-----------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| Target Name                                                                                                           | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude        |
| FTP (D.234H)<br>- hit/miss target<br>- Shape<br>- Point                                                               | 0.00          | 0.00         | 10,037.0   | -74.9        | 609.5        | 408,768.76      | 602,280.10     | 32° 7' 25.073 N | 104° 8' 11.300 W |
| - plan misses target center by 71.7usft at 10140.7usft MD (9974.2 TVD, -40.3 N, 609.0 E)                              |               |              |            |              |              |                 |                |                 |                  |
| LTP (D.234H)<br>- plan misses target center by 0.4usft at 14774.2usft MD (10060.6 TVD, 4583.0 N, 588.0 E)<br>- Point  | 0.00          | 0.01         | 10,061.0   | 4,583.0      | 588.2        | 413,426.68      | 602,258.74     | 32° 8' 11.169 N | 104° 8' 11.450 W |
| PBHL (D.234H)<br>- plan misses target center by 0.4usft at 14904.1usft MD (10061.3 TVD, 4713.0 N, 587.4 E)<br>- Point | 0.00          | 0.00         | 10,061.7   | 4,713.0      | 587.6        | 413,556.65      | 602,258.13     | 32° 8' 12.455 N | 104° 8' 11.454 W |

| Formations            |                       |               |           |         |                   |  |
|-----------------------|-----------------------|---------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name          | Lithology | Dip (°) | Dip Direction (°) |  |
| 694.1                 | 694.0                 | Rustler       |           | 0.00    |                   |  |
| 2,149.6               | 2,137.0               | Base of Salt  |           | 0.00    |                   |  |
| 2,351.6               | 2,337.0               | Lamar         |           | 0.00    |                   |  |
| 2,374.8               | 2,360.0               | Bell Canyon   |           | 0.00    |                   |  |
| 3,473.5               | 3,448.0               | Cherry Canyon |           | 0.00    |                   |  |
| 4,441.9               | 4,407.0               | Brushy Canyon |           | 0.00    |                   |  |
| 6,123.5               | 6,076.0               | B.S. Lime     |           | 0.00    |                   |  |
| 6,207.5               | 6,160.0               | Avalon        |           | 0.00    |                   |  |
| 6,964.5               | 6,917.0               | 1st B.S. Sand |           | 0.00    |                   |  |
| 7,581.5               | 7,534.0               | 2nd B.S. Sand |           | 0.00    |                   |  |
| 8,817.5               | 8,770.0               | 3rd B.S. Sand |           | 0.00    |                   |  |
| 9,152.5               | 9,105.0               | WCA X Sand    |           | 0.00    |                   |  |
| 9,214.5               | 9,167.0               | WCA Y Sand    |           | 0.00    |                   |  |
| 9,522.5               | 9,475.0               | WCB           |           | 0.00    |                   |  |
| 10,147.0              | 9,977.0               | WCC           |           | 0.00    |                   |  |

| Plan Annotations      |                       |                   |              |                                              |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                              |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                                      |  |
| 500.0                 | 500.0                 | 0.0               | 0.0          | Build tang to 8° Inc, 120° Azm               |  |
| 5,563.3               | 5,517.5               | -333.8            | 578.2        | Drop to Vertical @ 5563.3' MD                |  |
| 9,511.5               | 9,464.0               | -352.4            | 610.4        | KOP @ 9511.5' MD / 9464' TVD                 |  |
| 10,408.5              | 10,037.0              | 217.5             | 607.8        | EOC - 10037' TVD, 89.69° Inc, 359.74° Azm    |  |
| 14,904.1              | 10,061.3              | 4,713.0           | 587.4        | PBHL @ 14904.1' MD, 10061.3' TVD, 4710.3' VS |  |