

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. NMNM62924

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHISHOLM ENERGY OPERATING LLC

3a. Address 801 Cherry St., Suite 1200 Unit 20, Fort Worth, TX

3b. Phone No. (include area code)  
(817) 469-1104

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. MINIS 1 FED COM 2BS/9H

9. API Well No. 3002544850

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 1/T21S/R32E/NMP

10. Field and Pool or Exploratory Area  
WC-025 G-08 S213304D/BONE SPRING (OIL)

11. Country or Parish, State

LEA/NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                           |  |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |  |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |  |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |  |
|                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |                                           |  |
|                                                      | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |                                           |  |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

CHANGE TO ORIGINAL APD

KOP-

FROM: 520 FNL &amp; 1780 FWL

TO: 100 FNL &amp; 1750 FWL

LTP/BHL-

FROM: 330 FSL &amp; 1780 FWL

TO: 100 FSL &amp; 1750 FWL

CHANGE 3 STRING CASING DESIGN TO 4 STRING CASING DESIGN (SEE WBD &amp; CASING CALCULATOR ATTACHED)

SURF-20", 94.0 #, J-55 BTC CSG SET @ 1500' MD W/ TOC @ SURFACE

INT 1-13.375", 54.5#, J-55 BTC CSG SET @ 3585' MD W/TOC @ SURFACE

INT 2-9.625", 40#, J-55 LTC CSG SET @ 5400' MD W/ TOC @ SURFACE

PROD-5.5", 20#, P-110 BTC CSG SET @ 18496' MD W/ EST TOC @ 4900'

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

JENNIFER ELROD / Ph: (817) 953-3728

Senior Regulatory Technician

Title

Signature

Date

09/13/2021

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

03/29/2022

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: LOT 3 / 150 FNL / 1480 FWL / TWSP: 21S / RANGE: 32E / SECTION: 1 / LAT: 32.521944 / LONG: -103.632111 ( TVD: 0 feet, MD: 0 feet )

PPP: LOT 3 / 520 FNL / 1780 FWL / TWSP: 21S / RANGE: 32E / SECTION: 1 / LAT: 32.520926 / LONG: -103.631138 ( TVD: 10615 feet, MD: 10962 feet )

BHL: LOT N / 330 FSL / 1780 FWL / TWSP: 21S / RANGE: 32E / SECTION: 1 / LAT: 32.501583 / LONG: -103.631139 ( TVD: 10615 feet, MD: 17892 feet )

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  
1226 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3480 Fax: (505) 476-3482

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
1226 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

☒ AMENDED REPORT

|                            |                                                 |                                               |
|----------------------------|-------------------------------------------------|-----------------------------------------------|
| API Number<br>30-025-44850 | Pool Code<br>97895                              | Pool Name<br>WC-025 -08 S212204D; BONE SPRING |
| Property Code<br>321440    | Property Name<br>MINIS 1 FED HKY COM            | Well Number<br>9H                             |
| OGRID No.<br>372137        | Operator Name<br>CHISHOLM ENERGY OPERATING, LLC | Elevation<br>3703'                            |

**Surface Location**

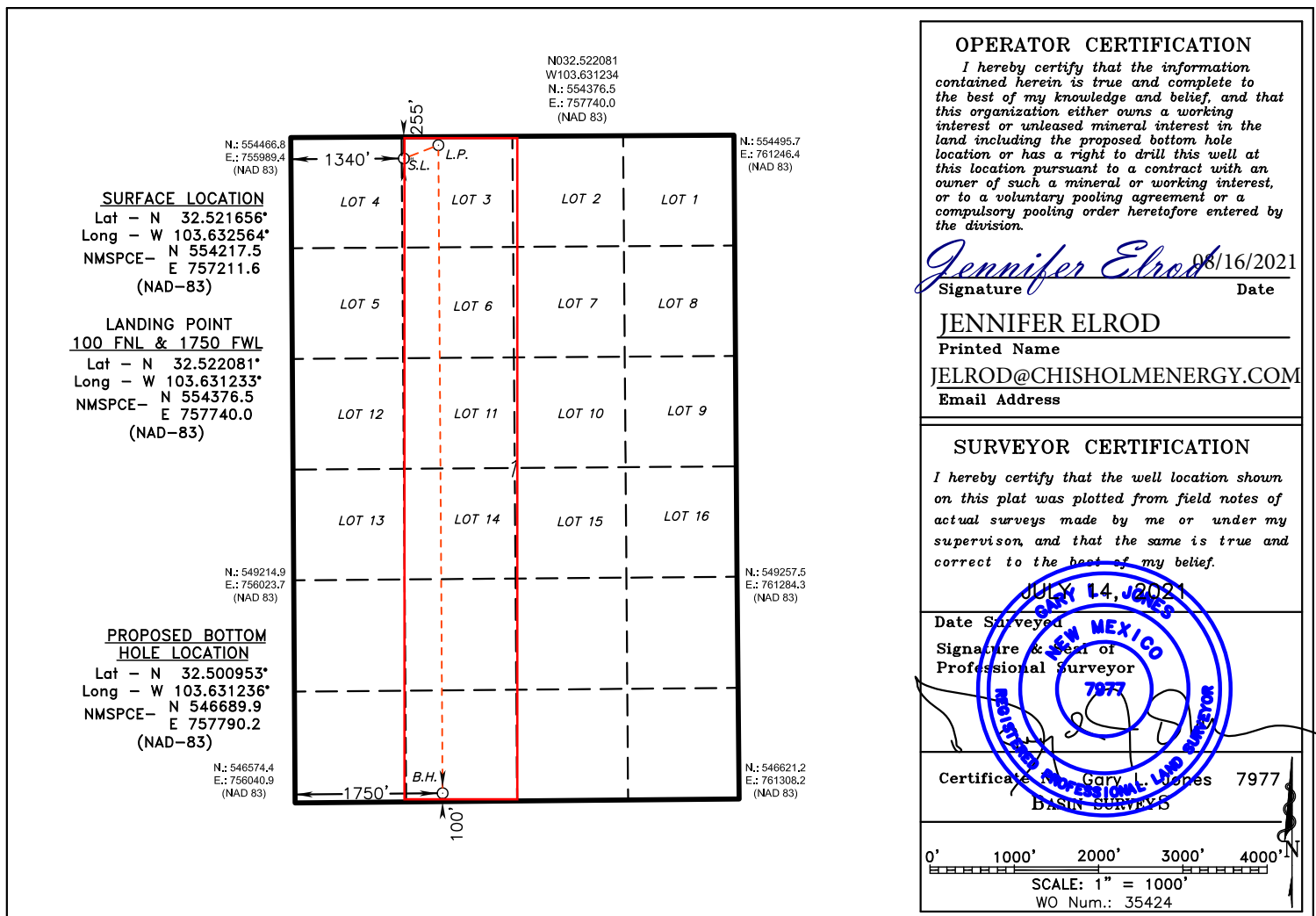
| UL or lot No. | Section | Township | Range | Lot Idn | FEET from the | North/South line | FEET from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| LOT 3         | 1       | 21 S     | 32 E  |         | 255           | NORTH            | 1340          | WEST           | LEA    |

**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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 1       | 21 S     | 32 E  |         | 100           | SOUTH            | 1750          | WEST           | LEA    |

| Dedicated Acres                 | Joint or Infill | Consolidation Code | Order No. |
|---------------------------------|-----------------|--------------------|-----------|
| <del>318.52</del> <b>238.81</b> |                 |                    |           |

**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**



Intent ☒ As Drilled ☐

|                                                     |                                       |                   |
|-----------------------------------------------------|---------------------------------------|-------------------|
| API #<br>30-025-44850                               |                                       |                   |
| Operator Name:<br>CHISHOLM ENERGY OPERATING,<br>LLC | Property Name:<br>MINIS 1 FED HKY COM | Well Number<br>9H |

## Kick Off Point (KOP)

| UL                    | Section | Township | Range | Lot | Feet                     | From N/S | Feet | From E/W | County    |
|-----------------------|---------|----------|-------|-----|--------------------------|----------|------|----------|-----------|
|                       | 1       | 21S      | 32E   | 3   | 255                      | NORTH    | 1340 | WEST     | LEA       |
| Latitude<br>32.521656 |         |          |       |     | Longitude<br>-103.632564 |          |      |          | NAD<br>83 |

## First Take Point (FTP)

| UL                    | Section | Township | Range | Lot | Feet                     | From N/S | Feet | From E/W | County    |
|-----------------------|---------|----------|-------|-----|--------------------------|----------|------|----------|-----------|
|                       | 1       | 21S      | 32E   | 3   | 100                      | NORTH    | 1750 | WEST     | LEA       |
| Latitude<br>32.522081 |         |          |       |     | Longitude<br>-103.631233 |          |      |          | NAD<br>83 |

## Last Take Point (LTP)

| UL                    | Section | Township | Range | Lot | Feet                     | From N/S | Feet | From E/W | County    |
|-----------------------|---------|----------|-------|-----|--------------------------|----------|------|----------|-----------|
| N                     | 1       | 21S      | 32E   |     | 100                      | SOUTH    | 1750 | WEST     | LEA       |
| Latitude<br>32.500953 |         |          |       |     | Longitude<br>-103.631236 |          |      |          | NAD<br>83 |

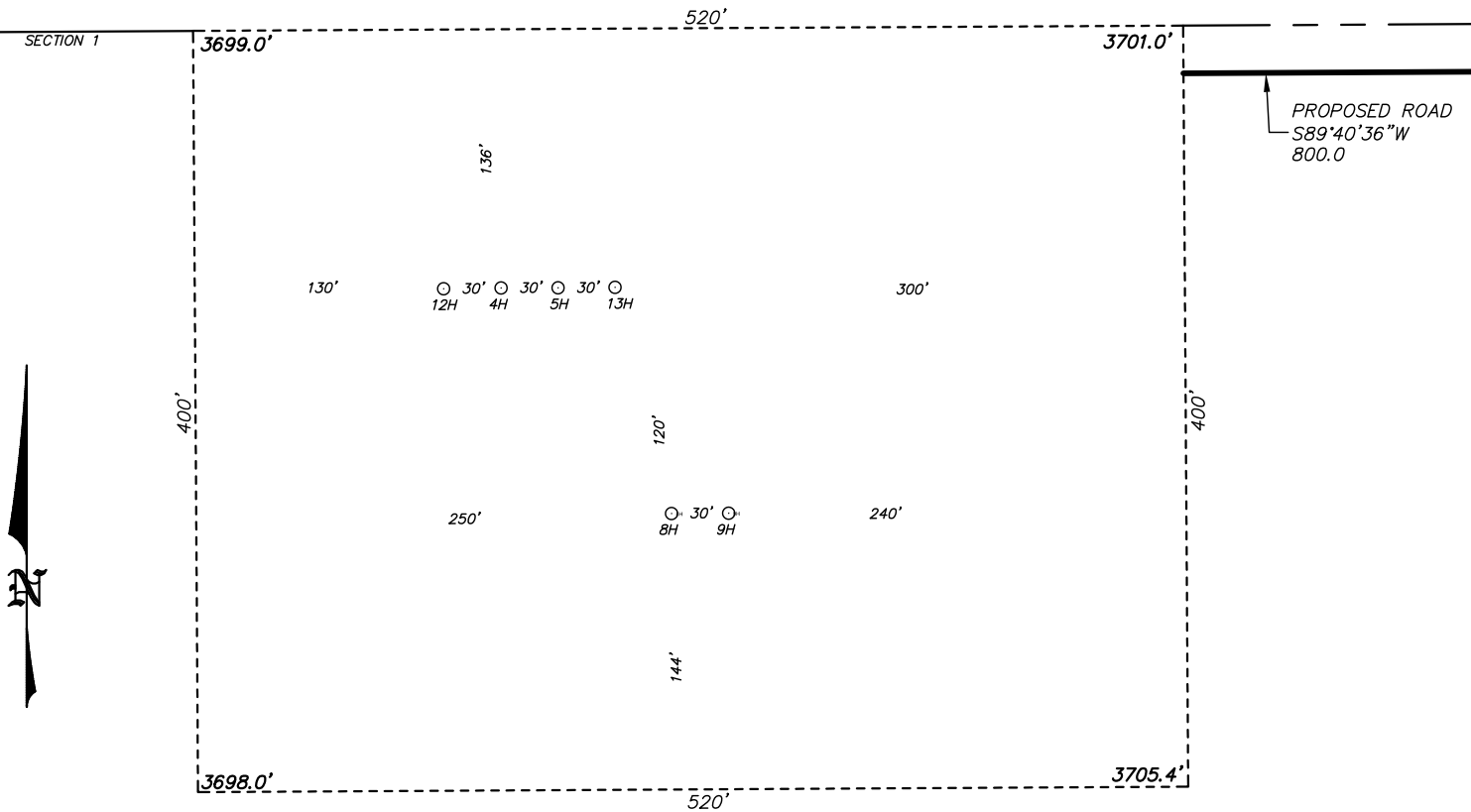
Is this well the defining well for the Horizontal Spacing Unit? ☐ NOIs this well an infill well? ☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                                                     |                                       |                   |
|-----------------------------------------------------|---------------------------------------|-------------------|
| API #<br>30-025-44848                               |                                       |                   |
| Operator Name:<br>CHISHOLM ENERGY OPERATING,<br>LLC | Property Name:<br>MINIS 1 FED 3BS COM | Well Number<br>5H |

KZ 06/29/2018

SECTION 1, TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.



I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES, N.M.P.S. No. 7977  
LEA COUNTY, TEXAS No. 5074

**basin**  
**surveys**  
focused on excellence  
in the oilfield

P.O. Box 1786 (575) 393-7316 - Office  
1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com

100 0 100 200 FEET  
SCALE: 1" = 100'

**CHISHOLM ENERGY OPERATING, LLC**

REF: MINIS 1 FED HKY COM 9H / WELL PAD TOPO

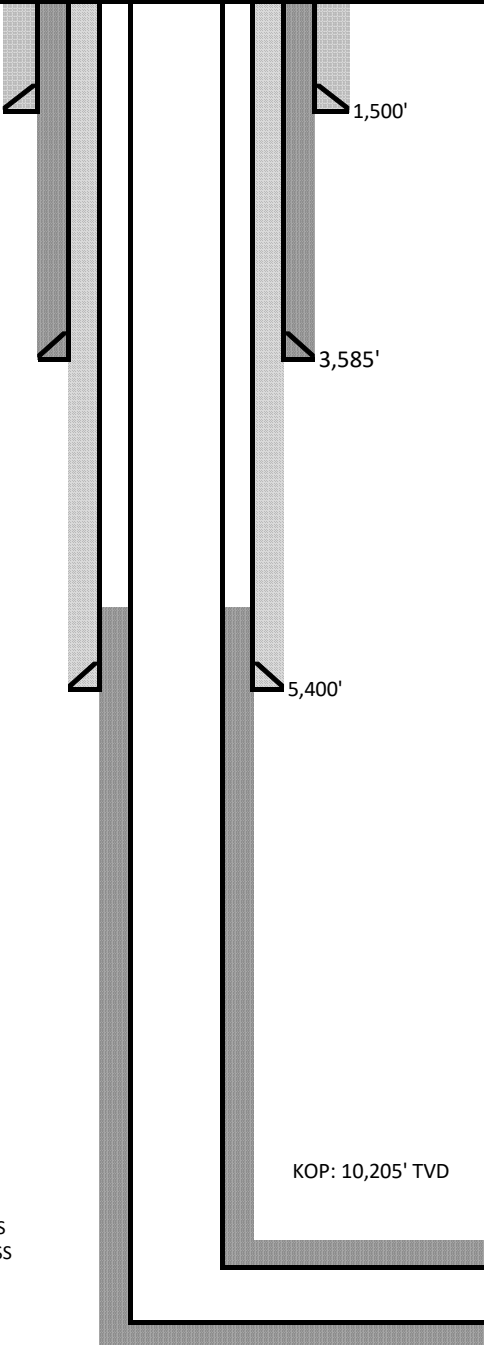
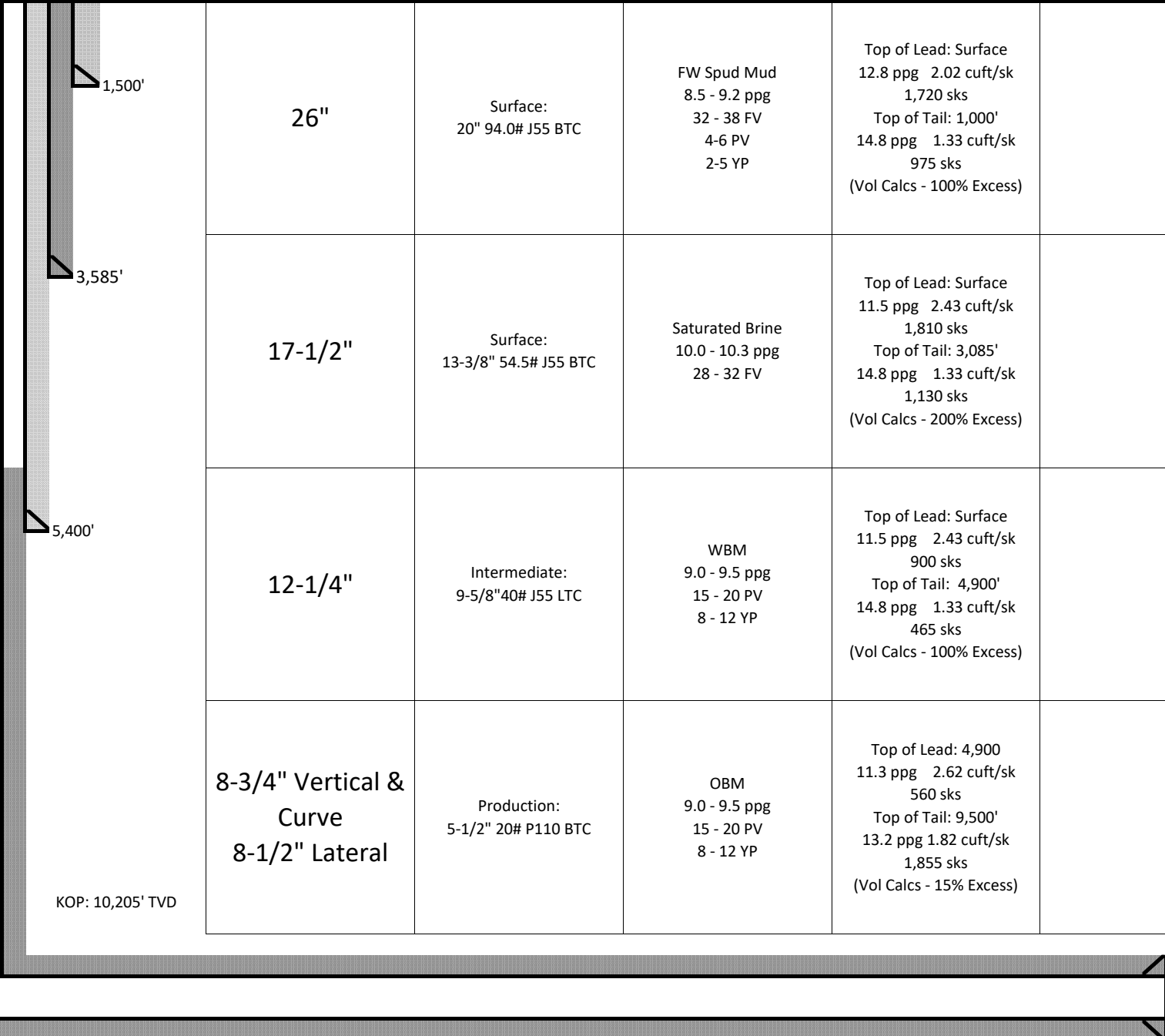
THE MINIS 1 FED HKY COM 9H LOCATED 255' FROM  
THE NORTH LINE AND 1340' FROM THE WEST LINE OF  
SECTION 1, TOWNSHIP 21 SOUTH, RANGE 32 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 35424 Drawn By: K GOAD Date: 07-27-2021 Survey Date: 07-14-2021 Sheet 1 of 1 Sheets

Minis 1 Fed HKY Com 9H

API # 30-025-44850

Revised: 8/12/2021

| TVD<br><i>ft-RKB</i> | Geological<br>Tops                                    | Wellbore Sketch                                                                     |                                                                                     | Hole Size                                    | Casing                              | Drilling Fluids                                                | Cement                                                                                                                                               | OH Logs/Evaluation        |  |
|----------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
| 2,000'               | 1,485 Rustler<br>1,865 Salado                         |  |  | 26"                                          | Surface:<br>20" 94.0# J55 BTC       | FW Spud Mud<br>8.5 - 9.2 ppg<br>32 - 38 FV<br>4-6 PV<br>2-5 YP | Top of Lead: Surface<br>12.8 ppg 2.02 cuft/sk<br>1,720 sks<br>Top of Tail: 1,000'<br>14.8 ppg 1.33 cuft/sk<br>975 sks<br>(Vol Calcs - 100% Excess)   |                           |  |
| 3,000'               | 3,125 Yates<br>3,535 Capitan Reef                     |                                                                                     |                                                                                     | 17-1/2"                                      | Surface:<br>13-3/8" 54.5# J55 BTC   | Saturated Brine<br>10.0 - 10.3 ppg<br>28 - 32 FV               | Top of Lead: Surface<br>11.5 ppg 2.43 cuft/sk<br>1,810 sks<br>Top of Tail: 3,085'<br>14.8 ppg 1.33 cuft/sk<br>1,130 sks<br>(Vol Calcs - 200% Excess) |                           |  |
| 5,000'               | 5,375 Delaware                                        |                                                                                     |                                                                                     | 12-1/4"                                      | Intermediate:<br>9-5/8" 40# J55 LTC | WBM<br>9.0 - 9.5 ppg<br>15 - 20 PV<br>8 - 12 YP                | Top of Lead: Surface<br>11.5 ppg 2.43 cuft/sk<br>900 sks<br>Top of Tail: 4,900'<br>14.8 ppg 1.33 cuft/sk<br>465 sks<br>(Vol Calcs - 100% Excess)     |                           |  |
| 6,000'               |                                                       |                                                                                     |                                                                                     | 8-3/4" Vertical &<br>Curve<br>8-1/2" Lateral | Production:<br>5-1/2" 20# P110 BTC  | OBM<br>9.0 - 9.5 ppg<br>15 - 20 PV<br>8 - 12 YP                | Top of Lead: 4,900<br>11.3 ppg 2.62 cuft/sk<br>560 sks<br>Top of Tail: 9,500'<br>13.2 ppg 1.82 cuft/sk<br>1,855 sks<br>(Vol Calcs - 15% Excess)      |                           |  |
| 7,000'               |                                                       |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      |                           |  |
| 8,000'               |                                                       |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      |                           |  |
| 9,000'               | 8,705 Bone Spring                                     |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      |                           |  |
| 10,000'              | 9,675 1st Bone Spring SS<br>10,185 2nd Bone Spring SS |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      |                           |  |
| 11,000'              | 11,163 3rd Bone Spring SS                             |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      |                           |  |
|                      |                                                       |                                                                                     |                                                                                     |                                              |                                     |                                                                |                                                                                                                                                      | 18,496' MD<br>11,003' TVD |  |



## Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21 Proposal Geodetic Report (Def Plan)

**Report Date:** August 12, 2021 - 05:23 PM  
**Client:** Chisholm Energy Operating, LLC  
**Field:** NM Lea County (NAD 83)  
**Structure / Slot:** Chisholm Minis 1 Fed HKY Com 8H & 9H / Chisholm Minis 1 Fed HKY Com 9H  
**Well:** Chisholm Minis 1 Fed HKY Com 9H  
**Borehole:** Original Borehole  
**UWI / API#:** Unknown / Unknown  
**Survey Name:** Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21  
**Survey Date:** August 12, 2021  
**Tort / AHD / DDI / ERD Ratio:** 103.791 ° / 8195.808 ft / 6.155 / 0.745  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 31' 17.96160", W 103° 37' 57.23040"  
**Location Grid N/E Y/X:** N 554219.312 ftUS, E 757331.023 ftUS  
**CRS Grid Convergence Angle:** 0.3768 °  
**Grid Scale Factor:** 0.99996252  
**Version / Patch:** 2.10.824.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 179.630 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3729.000 ft above MSL  
**Seabed / Ground Elevation:** 3703.000 ft above MSL  
**Magnetic Declination:** 6.492 °  
**Total Gravity Field Strength:** 998.483mgm (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47913.706 nT  
**Magnetic Dip Angle:** 60.309 °  
**Declination Date:** August 12, 2021  
**Magnetic Declination Model:** HDGM 2021  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.3768 °  
**Total Corr Mag North->Grid North:** 6.1155 °  
**Local Coord Referenced To:** Well Head

| Comments                               | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|----------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| SHL                                    | 0.00       | 0.00        | 63.13            | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Rustler                                | 1484.00    | 0.00        | 63.13            | 1484.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Salado                                 | 1864.00    | 0.00        | 63.13            | 1864.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Yates                                  | 3124.00    | 0.00        | 63.13            | 3124.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Capitan Reef                           | 3489.00    | 0.00        | 63.13            | 3489.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Delaware Mtn Gr                        | 5724.00    | 0.00        | 63.13            | 5724.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| Build 1.5"/100'                        | 6000.00    | 0.00        | 63.13            | 6000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| DLS                                    | 6466.48    | 7.00        | 63.13            | 6465.32     | -12.69       | 12.86      | 25.38      | 1.50             | 554232.17          | 757356.40         | N 32 31 18.09           | W 103 37 56.93           |
| Hold                                   | 8721.96    | 7.00        | 63.13            | 8704.00     | -135.28      | 137.03     | 270.48     | 0.00             | 554356.33          | 757601.49         | N 32 31 19.30           | W 103 37 54.06           |
| Bone Spring                            | 9714.35    | 7.00        | 63.13            | 9689.00     | -189.22      | 191.66     | 378.33     | 0.00             | 554410.97          | 757709.33         | N 32 31 19.83           | W 103 37 52.80           |
| 1st Bone Spring SS                     | 9765.41    | 7.00        | 63.13            | 9739.68     | -191.99      | 194.47     | 383.87     | 0.00             | 554413.78          | 757714.88         | N 32 31 19.86           | W 103 37 52.73           |
| Drop 1.5"/100'                         | 10230.89   | 0.02        | 63.13            | 10204.00    | -204.68      | 207.33     | 409.25     | 1.50             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
| DLS                                    | 10231.89   | 0.00        | 63.13            | 10205.00    | -204.68      | 207.33     | 409.25     | 1.50             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
| Hold                                   | 10431.89   | 0.00        | 63.13            | 10405.00    | -204.68      | 207.33     | 409.25     | 0.00             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
| Build 10"/100'                         | 11105.99   | 67.41       | 179.63           | 10934.00    | 148.18       | -145.53    | 411.52     | 10.00            | 554073.79          | 757742.53         | N 32 31 16.49           | W 103 37 52.44           |
| DLS                                    | 11329.86   | 89.80       | 179.63           | 10977.95    | 366.25       | -363.59    | 412.92     | 10.00            | 553855.74          | 757743.93         | N 32 31 14.34           | W 103 37 52.44           |
| Harkey SS                              |            |             |                  |             |              |            |            |                  |                    |                   |                         |                          |
| Landing Point                          |            |             |                  |             |              |            |            |                  |                    |                   |                         |                          |
| Chisholm Minis 1 Fed HKY Com 9H - PBHL | 18496.01   | 89.80       | 179.63           | 11003.33    | 7532.35      | -7529.54   | 458.96     | 0.00             | 546690.06          | 757789.96         | N 32 30 3.43            | W 103 37 52.45           |

**Survey Type:** Def Plan

**Survey Error Model:** ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
**Survey Program:**

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size<br>(in) | Casing Diameter<br>(in) | Expected Max<br>Inclination<br>(deg) | Survey Tool Type           | Borehole / Survey                                                       |
|-------------|------|-----------------|---------------|------------------|-------------------|-------------------------|--------------------------------------|----------------------------|-------------------------------------------------------------------------|
|             | 1    | 0.000           | 26.000        | 1/100.000        | 30.000            | 30.000                  |                                      | NAL_MWD_1.0_DEG-Depth Only | Original Borehole / Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21 |
|             | 1    | 26.000          | 18496.009     | 1/100.000        | 30.000            | 30.000                  |                                      | NAL_MWD_1.0_DEG            | Original Borehole / Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs         |

...Original Borehole\Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21

Drilling Office 2.10.824.0

Schlumberger-Private

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## Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21 Proposal Geodetic Report (Def Plan)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Report Date:</b> August 12, 2021 - 05:24 PM<br><b>Client:</b> Chisholm Energy Operating, LLC<br><b>Field:</b> NM Lea County (NAD 83)<br><b>Structure / Slot:</b> Chisholm Minis 1 Fed HKY Com 8H & 9H / Chisholm Minis 1 Fed HKY Com 9H<br><b>Well:</b> Chisholm Minis 1 Fed HKY Com 9H<br><b>Borehole:</b> Original Borehole<br><b>UWI / API#:</b> Unknown / Unknown<br><b>Survey Name:</b> Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21<br><b>Survey Date:</b> August 12, 2021<br><b>Tort / AHD / DDI / ERD Ratio:</b> 103.791 ° / 8195.808 ft / 6.155 / 0.745<br><b>Coordinate Reference System:</b> NAD83 New Mexico State Plane, Eastern Zone, US Feet<br><b>Location Lat / Long:</b> N 32° 31' 17.96160", W 103° 37' 57.23040"<br><b>Location Grid N/E Y/X:</b> N 554219.312 ftUS, E 757331.023 ftUS<br><b>CRS Grid Convergence Angle:</b> 0.3768 °<br><b>Grid Scale Factor:</b> 0.99996252<br><b>Version / Patch:</b> 2.10.824.0 | <b>Survey / DLS Computation:</b> Minimum Curvature / Lubinski<br><b>Vertical Section Azimuth:</b> 179.630 ° (Grid North)<br><b>Vertical Section Origin:</b> 0.000 ft, 0.000 ft<br><b>TVD Reference Datum:</b> RKB<br><b>TVD Reference Elevation:</b> 3729.000 ft above MSL<br><b>Seabed / Ground Elevation:</b> 3703.000 ft above MSL<br><b>Magnetic Declination:</b> 6.492 °<br><b>Total Gravity Field Strength:</b> 998.4833mgn (9.80665 Based)<br><b>Gravity Model:</b> GARM<br><b>Total Magnetic Field Strength:</b> 47913.706 nT<br><b>Magnetic Dip Angle:</b> 60.309 °<br><b>Declination Date:</b> August 12, 2021<br><b>Magnetic Declination Model:</b> HDGM 2021<br><b>North Reference:</b> Grid North<br><b>Grid Convergence Used:</b> 0.3768 °<br><b>Total Corr Mag North-&gt;Grid North:</b> 6.1155 °<br><b>Local Coord Referenced To:</b> Well Head |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| Comments        | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-----------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| SHL             | 0.00       | 0.00        | 63.13            | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 100.00     | 0.00        | 63.13            | 100.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 200.00     | 0.00        | 63.13            | 200.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 300.00     | 0.00        | 63.13            | 300.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 400.00     | 0.00        | 63.13            | 400.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 500.00     | 0.00        | 63.13            | 500.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 600.00     | 0.00        | 63.13            | 600.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 700.00     | 0.00        | 63.13            | 700.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 800.00     | 0.00        | 63.13            | 800.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 900.00     | 0.00        | 63.13            | 900.00      | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1000.00    | 0.00        | 63.13            | 1000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1100.00    | 0.00        | 63.13            | 1100.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1200.00    | 0.00        | 63.13            | 1200.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1300.00    | 0.00        | 63.13            | 1300.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1400.00    | 0.00        | 63.13            | 1400.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1500.00    | 0.00        | 63.13            | 1500.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1600.00    | 0.00        | 63.13            | 1600.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1700.00    | 0.00        | 63.13            | 1700.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1800.00    | 0.00        | 63.13            | 1800.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 1900.00    | 0.00        | 63.13            | 1900.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2000.00    | 0.00        | 63.13            | 2000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2100.00    | 0.00        | 63.13            | 2100.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2200.00    | 0.00        | 63.13            | 2200.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2300.00    | 0.00        | 63.13            | 2300.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2400.00    | 0.00        | 63.13            | 2400.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2500.00    | 0.00        | 63.13            | 2500.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2600.00    | 0.00        | 63.13            | 2600.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2700.00    | 0.00        | 63.13            | 2700.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2800.00    | 0.00        | 63.13            | 2800.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 2900.00    | 0.00        | 63.13            | 2900.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3000.00    | 0.00        | 63.13            | 3000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3100.00    | 0.00        | 63.13            | 3100.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3200.00    | 0.00        | 63.13            | 3200.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3300.00    | 0.00        | 63.13            | 3300.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3400.00    | 0.00        | 63.13            | 3400.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3500.00    | 0.00        | 63.13            | 3500.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3600.00    | 0.00        | 63.13            | 3600.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3700.00    | 0.00        | 63.13            | 3700.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3800.00    | 0.00        | 63.13            | 3800.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 3900.00    | 0.00        | 63.13            | 3900.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4000.00    | 0.00        | 63.13            | 4000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4100.00    | 0.00        | 63.13            | 4100.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4200.00    | 0.00        | 63.13            | 4200.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4300.00    | 0.00        | 63.13            | 4300.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4400.00    | 0.00        | 63.13            | 4400.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4500.00    | 0.00        | 63.13            | 4500.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4600.00    | 0.00        | 63.13            | 4600.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4700.00    | 0.00        | 63.13            | 4700.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4800.00    | 0.00        | 63.13            | 4800.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
|                 | 4900.00    | 0.00        | 63.13            | 4900.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| 5000.00         | 0.00       | 63.13       | 5000.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5100.00         | 0.00       | 63.13       | 5100.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5200.00         | 0.00       | 63.13       | 5200.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5300.00         | 0.00       | 63.13       | 5300.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5400.00         | 0.00       | 63.13       | 5400.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5500.00         | 0.00       | 63.13       | 5500.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5600.00         | 0.00       | 63.13       | 5600.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5700.00         | 0.00       | 63.13       | 5700.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5800.00         | 0.00       | 63.13       | 5800.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| 5900.00         | 0.00       | 63.13       | 5900.00          | 0.00        | 0.00         | 0.00       | 0.00       | 554219.31        | 757331.02          | N 32 31 17.96     | W 103 37 57.23          |                          |
| Build 1.5"/100' | 6000.00    | 0.00        | 63.13            | 6000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 554219.31          | 757331.02         | N 32 31 17.96           | W 103 37 57.23           |
| DLS             | 6100.00    | 1.50        | 63.13            | 6099.99     | -0.58        | 0.59       | 1.17       | 1.50             | 554219.90          | 757332.19         | N 32 31 17.97           | W 103 37 57.22           |
|                 | 6200.00    | 3.00        | 63.13            | 6199.91     | -2.34        | 2.37       | 4.67       | 1.50             | 554221.68          | 757335.69         | N 32 31 17.98           | W 103 37 57.18           |
|                 | 6300.00    | 4.50        | 63.13            | 6299.69     | -5.25        | 5.32       | 10.50      | 1.50             | 554224.63          | 757341.53         | N 32 31 18.01           | W 103 37 57.11           |
|                 | 6400.00    | 6.00        | 63.13            | 6399.27     | -9.34        | 9.46       | 18.67      | 1.50             | 554228.77          | 757349.69         | N 32 31 18.05           | W 103 37 57.01           |
| Hold            | 6466.48    | 7.00        | 63.13            | 6465.32     | -12.69       | 12.86      | 25.38      | 1.50             | 554232.17          | 757356.40         | N 32 31 18.09           | W 103 37 56.93           |
|                 | 6500.00    | 7.00        | 63.13            | 6498.59     | -14.51       | 14.70      | 29.02      | 0.00             | 554234.01          | 757360.04         | N 32 31 18.11           | W 103 37 56.89           |
|                 | 6600.00    | 7.00        | 63.13            | 6597.85     | -19.95       | 20.21      | 39.89      | 0.00             | 554239.52          | 757370.91         | N 32 31 18.16           | W 103 37 56.76           |
|                 | 6700.00    | 7.00        | 63.13            | 6697.10     | -25.38       | 25.71      | 50.75      | 0.00             | 554245.02          | 757381.78         | N 32 31 18.21           | W 103 37 56.64           |
|                 | 6800.00    | 7.00        | 63.13            | 6796.36     | -30.82       | 31.22      | 61.62      | 0.00             | 554250.53          | 757392.64         | N 32 31 18.27           | W 103 37 56.51           |
|                 | 6900.00    | 7.00        | 63.13            | 6895.61     | -36.25       | 36.72      | 72.49      | 0.00             | 554256.03          | 757403.51         | N 32 31 18.32           | W 103 37 56.38           |
|                 | 7000.00    | 7.00        | 63.13            | 6994.87     | -41.69       | 42.23      | 83.36      | 0.00             | 554261.54          | 757414.38         | N 32 31 18.37           | W 103 37 56.25           |
|                 | 7100.00    | 7.00        | 63.13            | 7094.12     | -47.12       | 47.73      | 94.22      | 0.00             | 554267.04          | 757425.24         | N 32 31 18.43           | W 103 37 56.13           |
|                 | 7200.00    | 7.00        | 63.13            | 7193.38     | -52.56       | 53.24      | 105.09     | 0.00             | 554272.55          | 757436.11         | N 32 31 18.48           | W 103 37 56.00           |
|                 | 7300.00    | 7.00        | 63.13            | 7292.63     | -57.99       | 58.74      | 115.96     | 0.00             | 554278.05          | 757446.98         | N 32 31 18.54           | W 103 37 55.87           |
|                 | 7400.00    | 7.00        | 63.13            | 7391.89     | -63.43       | 64.25      | 126.82     | 0.00             | 554283.56          | 757457.84         | N 32 31 18.59           | W 103 37 55.74           |

| Comments       | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|----------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                | 7500.00    | 7.00        | 63.13            | 7491.14     | -68.86       | 69.76      | 137.69     | 0.00             | 554269.06          | 757468.71         | N 32 31 18.64           | W 103 37 55.62           |
|                | 7600.00    | 7.00        | 63.13            | 7590.40     | -74.30       | 75.26      | 148.56     | 0.00             | 554294.57          | 757479.58         | N 32 31 18.70           | W 103 37 55.49           |
|                | 7700.00    | 7.00        | 63.13            | 7689.65     | -79.73       | 80.77      | 159.43     | 0.00             | 554300.07          | 757490.44         | N 32 31 18.75           | W 103 37 55.36           |
|                | 7800.00    | 7.00        | 63.13            | 7788.91     | -85.17       | 86.27      | 170.29     | 0.00             | 554305.58          | 757501.31         | N 32 31 18.80           | W 103 37 55.23           |
|                | 7900.00    | 7.00        | 63.13            | 7888.16     | -90.60       | 91.78      | 181.16     | 0.00             | 554311.08          | 757512.18         | N 32 31 18.86           | W 103 37 55.11           |
|                | 8000.00    | 7.00        | 63.13            | 7987.42     | -96.04       | 97.28      | 192.03     | 0.00             | 554316.59          | 757523.04         | N 32 31 18.91           | W 103 37 54.98           |
|                | 8100.00    | 7.00        | 63.13            | 8086.68     | -101.47      | 102.79     | 202.89     | 0.00             | 554322.10          | 757533.91         | N 32 31 18.97           | W 103 37 54.85           |
|                | 8200.00    | 7.00        | 63.13            | 8185.93     | -106.91      | 108.29     | 213.76     | 0.00             | 554327.60          | 757544.77         | N 32 31 19.02           | W 103 37 54.73           |
|                | 8300.00    | 7.00        | 63.13            | 8285.19     | -112.34      | 113.80     | 224.63     | 0.00             | 554333.11          | 757555.64         | N 32 31 19.07           | W 103 37 54.60           |
|                | 8400.00    | 7.00        | 63.13            | 8384.44     | -117.78      | 119.30     | 235.49     | 0.00             | 554338.61          | 757566.51         | N 32 31 19.13           | W 103 37 54.47           |
|                | 8500.00    | 7.00        | 63.13            | 8483.70     | -123.22      | 124.81     | 246.36     | 0.00             | 554344.12          | 757577.37         | N 32 31 19.18           | W 103 37 54.34           |
|                | 8600.00    | 7.00        | 63.13            | 8582.95     | -128.65      | 130.31     | 257.23     | 0.00             | 554349.62          | 757588.24         | N 32 31 19.23           | W 103 37 54.22           |
|                | 8700.00    | 7.00        | 63.13            | 8682.21     | -134.09      | 135.82     | 268.10     | 0.00             | 554355.13          | 757599.11         | N 32 31 19.29           | W 103 37 54.09           |
|                | 8800.00    | 7.00        | 63.13            | 8781.46     | -139.52      | 141.32     | 278.96     | 0.00             | 554360.63          | 757609.97         | N 32 31 19.34           | W 103 37 53.96           |
|                | 8900.00    | 7.00        | 63.13            | 8880.72     | -144.96      | 146.83     | 289.83     | 0.00             | 554366.14          | 757620.84         | N 32 31 19.40           | W 103 37 53.83           |
|                | 9000.00    | 7.00        | 63.13            | 8979.97     | -150.39      | 152.34     | 300.70     | 0.00             | 554371.64          | 757631.71         | N 32 31 19.45           | W 103 37 53.71           |
|                | 9100.00    | 7.00        | 63.13            | 9079.23     | -155.83      | 157.84     | 311.56     | 0.00             | 554377.15          | 757642.57         | N 32 31 19.50           | W 103 37 53.58           |
|                | 9200.00    | 7.00        | 63.13            | 9178.48     | -161.26      | 163.35     | 322.43     | 0.00             | 554382.65          | 757653.44         | N 32 31 19.56           | W 103 37 53.45           |
|                | 9300.00    | 7.00        | 63.13            | 9277.74     | -166.70      | 168.85     | 333.30     | 0.00             | 554388.16          | 757664.31         | N 32 31 19.61           | W 103 37 53.32           |
|                | 9400.00    | 7.00        | 63.13            | 9376.99     | -172.13      | 174.36     | 344.16     | 0.00             | 554393.66          | 757675.17         | N 32 31 19.66           | W 103 37 53.20           |
|                | 9500.00    | 7.00        | 63.13            | 9476.25     | -177.57      | 179.86     | 355.03     | 0.00             | 554399.17          | 757686.04         | N 32 31 19.72           | W 103 37 53.07           |
|                | 9600.00    | 7.00        | 63.13            | 9575.50     | -183.00      | 185.37     | 365.90     | 0.00             | 554404.67          | 757696.91         | N 32 31 19.77           | W 103 37 52.94           |
|                | 9700.00    | 7.00        | 63.13            | 9674.76     | -188.44      | 190.87     | 376.77     | 0.00             | 554410.18          | 757707.77         | N 32 31 19.83           | W 103 37 52.82           |
| Drop 1.5°/100' | 9765.41    | 7.00        | 63.13            | 9739.68     | -191.99      | 194.47     | 383.87     | 0.00             | 554413.78          | 757714.88         | N 32 31 19.86           | W 103 37 52.73           |
| DLS            | 9800.00    | 6.48        | 63.13            | 9774.03     | -193.80      | 196.31     | 387.49     | 1.50             | 554415.61          | 757718.50         | N 32 31 19.88           | W 103 37 52.69           |
|                | 9900.00    | 4.98        | 63.13            | 9873.53     | -198.25      | 200.82     | 396.40     | 1.50             | 554420.12          | 757727.41         | N 32 31 19.92           | W 103 37 52.59           |
|                | 10000.00   | 3.48        | 63.13            | 9973.26     | -201.54      | 204.15     | 402.97     | 1.50             | 554423.45          | 757733.98         | N 32 31 19.96           | W 103 37 52.51           |
|                | 10100.00   | 1.98        | 63.13            | 10073.14    | -203.67      | 206.30     | 407.22     | 1.50             | 554425.60          | 757738.23         | N 32 31 19.98           | W 103 37 52.46           |
|                | 10200.00   | 0.48        | 63.13            | 10173.11    | -204.62      | 207.27     | 409.13     | 1.50             | 554426.57          | 757740.14         | N 32 31 19.99           | W 103 37 52.44           |
| Hold           | 10231.89   | 0.00        | 63.13            | 10205.00    | -204.68      | 207.33     | 409.25     | 1.50             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
|                | 10300.00   | 0.00        | 63.13            | 10273.11    | -204.68      | 207.33     | 409.25     | 0.00             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
|                | 10400.00   | 0.00        | 63.13            | 10373.11    | -204.68      | 207.33     | 409.25     | 0.00             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
| Build 10°/100' | 10431.89   | 0.00        | 63.13            | 10405.00    | -204.68      | 207.33     | 409.25     | 0.00             | 554426.63          | 757740.26         | N 32 31 19.99           | W 103 37 52.43           |
| DLS            | 10500.00   | 6.81        | 179.63           | 10472.95    | -200.64      | 203.29     | 409.28     | 10.00            | 554422.59          | 757740.28         | N 32 31 19.95           | W 103 37 52.43           |
|                | 10600.00   | 16.81       | 179.63           | 10570.71    | -180.20      | 182.84     | 409.41     | 10.00            | 554402.15          | 757740.42         | N 32 31 19.74           | W 103 37 52.43           |
|                | 10700.00   | 26.81       | 179.63           | 10663.43    | -143.09      | 145.74     | 409.65     | 10.00            | 554365.04          | 757740.65         | N 32 31 19.38           | W 103 37 52.44           |
|                | 10800.00   | 36.81       | 179.63           | 10748.31    | -90.44       | 93.09      | 409.99     | 10.00            | 554312.40          | 757740.99         | N 32 31 18.86           | W 103 37 52.44           |
|                | 10900.00   | 46.81       | 179.63           | 10822.75    | -23.86       | 26.51      | 410.41     | 10.00            | 554245.82          | 757741.42         | N 32 31 18.20           | W 103 37 52.44           |
|                | 11000.00   | 56.81       | 179.63           | 10884.49    | 54.64        | -51.99     | 410.92     | 10.00            | 554167.33          | 757741.92         | N 32 31 17.42           | W 103 37 52.44           |
|                | 11100.00   | 66.81       | 179.63           | 10931.67    | 142.67       | -140.01    | 411.48     | 10.00            | 554079.31          | 757742.49         | N 32 31 16.55           | W 103 37 52.44           |
|                | 11200.00   | 76.81       | 179.63           | 10962.85    | 237.55       | -234.89    | 412.09     | 10.00            | 553984.43          | 757743.10         | N 32 31 15.61           | W 103 37 52.44           |
|                | 11300.00   | 86.81       | 179.63           | 10977.07    | 336.40       | -333.75    | 412.73     | 10.00            | 553885.58          | 757743.73         | N 32 31 14.63           | W 103 37 52.44           |
| Landing Point  | 11329.86   | 89.80       | 179.63           | 10977.95    | 366.25       | -363.59    | 412.92     | 10.00            | 553855.74          | 757743.93         | N 32 31 14.34           | W 103 37 52.44           |
|                | 11400.00   | 89.80       | 179.63           | 10978.20    | 436.39       | -433.73    | 413.37     | 0.00             | 553785.60          | 757744.38         | N 32 31 13.64           | W 103 37 52.44           |
|                | 11500.00   | 89.80       | 179.63           | 10978.56    | 536.39       | -533.72    | 414.01     | 0.00             | 553685.61          | 757745.02         | N 32 31 12.65           | W 103 37 52.44           |
|                | 11600.00   | 89.80       | 179.63           | 10978.91    | 636.39       | -633.72    | 414.66     | 0.00             | 553585.62          | 757745.66         | N 32 31 11.66           | W 103 37 52.44           |
|                | 11700.00   | 89.80       | 179.63           | 10979.27    | 736.39       | -733.72    | 415.30     | 0.00             | 553485.62          | 757746.30         | N 32 31 10.67           | W 103 37 52.44           |
|                | 11800.00   | 89.80       | 179.63           | 10979.62    | 836.38       | -833.72    | 415.94     | 0.00             | 553385.63          | 757746.95         | N 32 31 9.69            | W 103 37 52.44           |
|                | 11900.00   | 89.80       | 179.63           | 10979.97    | 936.38       | -933.71    | 416.58     | 0.00             | 553285.64          | 757747.59         | N 32 31 8.70            | W 103 37 52.44           |
|                | 12000.00   | 89.80       | 179.63           | 10980.33    | 1036.38      | -1033.71   | 417.22     | 0.00             | 553185.64          | 757748.23         | N 32 31 7.71            | W 103 37 52.44           |
|                | 12100.00   | 89.80       | 179.63           | 10980.68    | 1136.38      | -1133.71   | 417.87     | 0.00             | 553085.65          | 757748.87         | N 32 31 6.72            | W 103 37 52.44           |
|                | 12200.00   | 89.80       | 179.63           | 10981.04    | 1236.38      | -1233.71   | 418.51     | 0.00             | 552985.66          | 757749.52         | N 32 31 5.73            | W 103 37 52.44           |
|                | 12300.00   | 89.80       | 179.63           | 10981.39    | 1336.38      | -1333.70   | 419.15     | 0.00             | 552885.66          | 757750.16         | N 32 31 4.74            | W 103 37 52.44           |
|                | 12400.00   | 89.80       | 179.63           | 10981.74    | 1436.38      | -1433.70   | 419.79     | 0.00             | 552785.67          | 757750.80         | N 32 31 3.75            | W 103 37 52.44           |
|                | 12500.00   | 89.80       | 179.63           | 10982.10    | 1536.38      | -1533.70   | 420.44     | 0.00             | 552685.68          | 757751.44         | N 32 31 2.76            | W 103 37 52.44           |
|                | 12600.00   | 89.80       | 179.63           | 10982.45    | 1636.38      | -1633.69   | 421.08     | 0.00             | 552585.68          | 757752.09         | N 32 31 1.77            | W 103 37 52.44           |
|                | 12700.00   | 89.80       | 179.63           | 10982.81    | 1736.38      | -1733.69   | 421.72     | 0.00             | 552485.69          | 757752.73         | N 32 31 0.78            | W 103 37 52.44           |
|                | 12800.00   | 89.80       | 179.63           | 10983.16    | 1836.38      | -1833.69   | 422.36     | 0.00             | 552385.70          | 757753.37         | N 32 30 59.79           | W 103 37 52.44           |
|                | 12900.00   | 89.80       | 179.63           | 10983.51    | 1936.38      | -1933.69   | 423.01     | 0.00             | 552285.70          | 757754.01         | N 32 30 58.80           | W 103 37 52.44           |
|                | 13000.00   | 89.80       | 179.63           | 10983.87    | 2036.38      | -2033.68   | 423.65     | 0.00             | 552185.71          | 757754.66         | N 32 30 57.81           | W 103 37 52.44           |
|                | 13100.00   | 89.80       | 179.63           | 10984.22    | 2136.38      | -2133.68   | 424.29     | 0.00             | 552085.71          | 757755.30         | N 32 30 56.82           | W 103 37 52.44           |
|                | 13200.00   | 89.80       | 179.63           | 10984.58    | 2236.38      | -2233.68   | 424.93     | 0.00             | 551985.72          | 757755.94         | N 32 30 55.83           | W 103 37 52.44           |
|                | 13300.00   | 89.80       | 179.63           | 10984.93    | 2336.38      | -2333.68   | 425.58     | 0.00             | 551885.73          | 757756.58         | N 32 30 54.84           | W 103 37 52.44           |
|                | 13400.00   | 89.80       | 179.63           | 10985.29    | 2436.37      | -2433.67   | 426.22     | 0.00             | 551785.73          | 757757.22         | N 32 30 53.85           | W 103 37 52.44           |
|                | 13500.00   | 89.80       | 179.63           | 10985.64    | 2536.37      | -2533.67   | 426.86     | 0.00             | 551685.74          | 757757.87         | N 32 30 52.86           | W 103 37 52.44           |
|                | 13600.00   | 89.80       | 179.63           | 10985.99    | 2636.37      | -2633.67   | 427.50     | 0.00             | 551585.75          | 757758.51         | N 32 30 51.88           | W 103 37 52.44           |
|                | 13700.00   | 89.80       | 179.63           | 10986.35    | 2736.37      | -2733.67   | 428.15     | 0.00             | 551485.75          | 757759.15         | N 32 30 50.89           | W 103 37 52.44           |
|                | 13800.00   | 89.80       | 179.63           | 10986.70    | 2836.37      | -2833.66   | 428.79     | 0.00             | 551385.76          | 757759.79         | N 32 30 49.90           | W 103 37 52.44           |
|                | 13900.00   | 89.80       | 179.63           | 10987.06    | 2936.37      | -2933.66   | 429.43     | 0.00             | 551285.77          | 757760.44         | N 32 30 48.91           | W 103 37 52.44           |
|                | 14000.00   | 89.80       | 179.63           | 10987.41    | 3036.37      | -3033.66   | 430.07     | 0.00             | 551185.77          | 757761.08         | N 32 30 47.92           | W 103 37 52.44           |
|                | 14100.00   | 89.80       | 179.63           | 10987.76    | 3136.37      | -3133.65   | 430.72     | 0.00             | 551085.78          | 757761.72         | N 32 30 46.93           | W 103 37 52.44           |
|                | 14200.00   | 89.80       | 179.63           | 10988.12    | 3236.37      | -3233.65   | 431.36     | 0.00             | 550985.79          | 757762.36         | N 32 30 45.94           | W 103 37 52.44           |
|                | 14300.00   | 89.80       | 179.63           | 10988.47    | 3336.37      | -3333.65   | 432.00     | 0.00             | 550885.79          | 757763.01         | N 32 30 44.95           | W 103 37 52.44           |
|                | 14400.00   | 89.80       | 179.63           | 10988.83    | 3436.37      | -3433.65   | 432.64     | 0.00             | 550785.80          | 757763.65         | N 32 30 43.96           | W 103 37 52.44           |
|                | 14500.00   | 89.80       | 179.63           | 10989.18    | 3536.37      | -3533.64   | 433.29     | 0.00             | 550685.81          | 757764.29         | N 32 30 42.97           | W 103 37 52.44           |
|                | 14600.00   | 89          |                  |             |              |            |            |                  |                    |                   |                         |                          |

| Comments                                     | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|----------------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                                              | 17800.00   | 89.80       | 179.63           | 11000.87    | 6836.35      | -6833.55   | 454.48     | 0.00             | 547386.03          | 757785.49         | N 32 30 10.32           | W 103 37 52.45           |
|                                              | 17900.00   | 89.80       | 179.63           | 11001.22    | 6936.35      | -6933.55   | 455.13     | 0.00             | 547286.03          | 757786.13         | N 32 30 9.33            | W 103 37 52.45           |
|                                              | 18000.00   | 89.80       | 179.63           | 11001.58    | 7036.35      | -7033.55   | 455.77     | 0.00             | 547186.04          | 757786.77         | N 32 30 8.34            | W 103 37 52.45           |
|                                              | 18100.00   | 89.80       | 179.63           | 11001.93    | 7136.35      | -7133.55   | 456.41     | 0.00             | 547086.05          | 757787.42         | N 32 30 7.35            | W 103 37 52.45           |
|                                              | 18200.00   | 89.80       | 179.63           | 11002.28    | 7236.34      | -7233.54   | 457.05     | 0.00             | 546986.05          | 757788.06         | N 32 30 6.36            | W 103 37 52.45           |
|                                              | 18300.00   | 89.80       | 179.63           | 11002.64    | 7336.34      | -7333.54   | 457.70     | 0.00             | 546886.06          | 757788.70         | N 32 30 5.37            | W 103 37 52.45           |
|                                              | 18400.00   | 89.80       | 179.63           | 11002.99    | 7436.34      | -7433.54   | 458.34     | 0.00             | 546786.07          | 757789.34         | N 32 30 4.38            | W 103 37 52.45           |
| Chisholm Minis<br>1 Fed HKY Com<br>9H - PBHL | 18496.01   | 89.80       | 179.63           | 11003.33    | 7532.35      | -7529.54   | 458.96     | 0.00             | 546690.06          | 757789.96         | N 32 30 3.43            | W 103 37 52.45           |

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
Survey Program:

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size<br>(in) | Casing Diameter<br>(in) | Expected Max<br>Inclination<br>(deg) | Survey Tool Type           | Borehole / Survey                                                             |
|-------------|------|-----------------|---------------|------------------|-------------------|-------------------------|--------------------------------------|----------------------------|-------------------------------------------------------------------------------|
|             | 1    | 0.000           | 26.000        | 1/100.000        | 30.000            | 30.000                  |                                      | NAL_MWD_1.0_DEG-Depth Only | Original Borehole / Chisholm Minis<br>1 Fed HKY Com 9H Prelim0 mcs<br>12Aug21 |
|             | 1    | 26.000          | 18496.009     | 1/100.000        | 30.000            | 30.000                  |                                      | NAL_MWD_1.0_DEG            | Original Borehole / Chisholm Minis<br>1 Fed HKY Com 9H Prelim0 mcs            |

...Original Borehole\Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21



# Chisholm Energy Operating, LLC

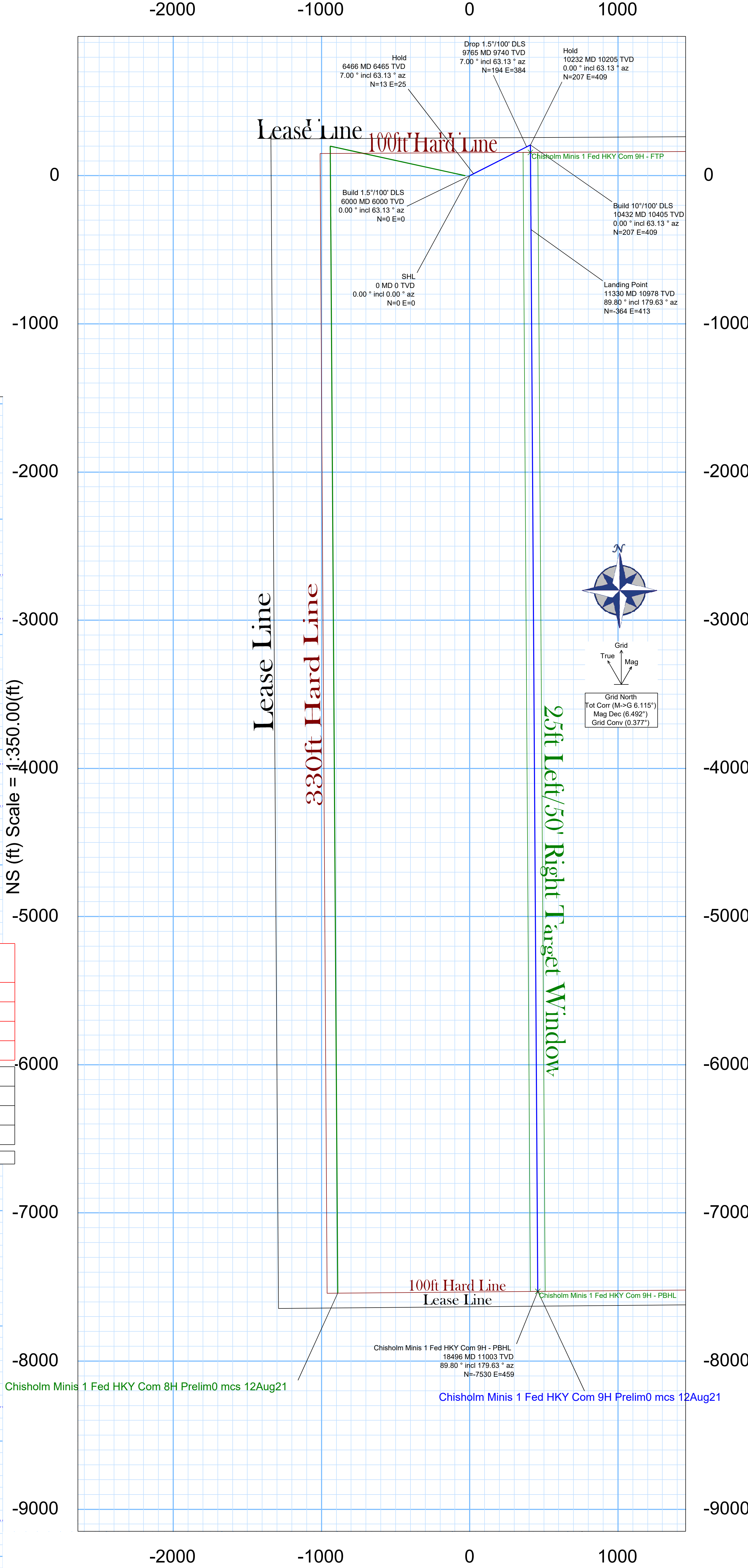
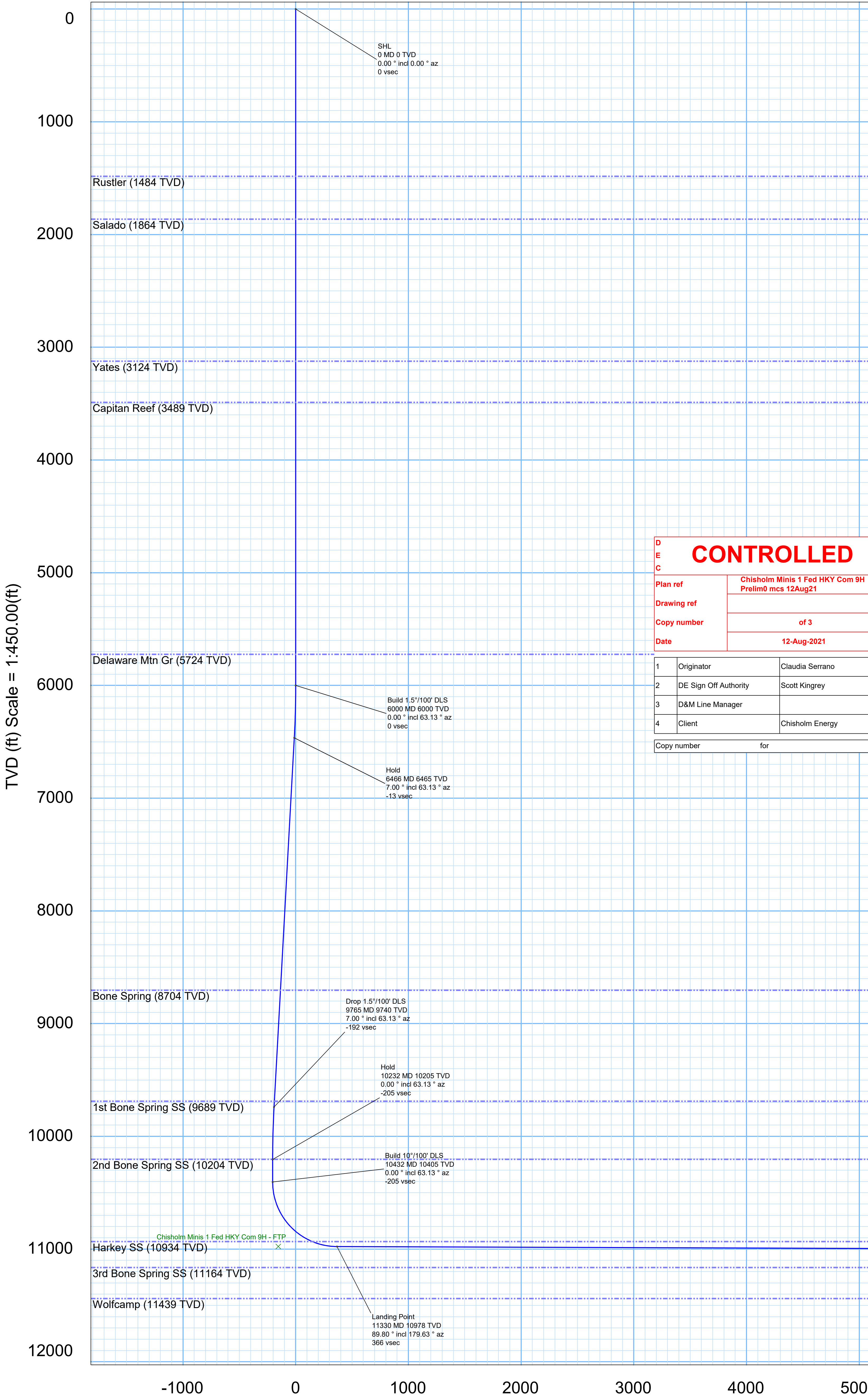
Prelim0



|                   |                                 |                        |                                      |
|-------------------|---------------------------------|------------------------|--------------------------------------|
| Borehole:         | Well:                           | Field:                 | Structure:                           |
| Original Borehole | Chisholm Minis 1 Fed HKY Com 9H | NM Lea County (NAD 83) | Chisholm Minis 1 Fed HKY Com 8H & 9H |

|                               |           |      |             |                  |                            |      |                |                                                     |               |             |            |
|-------------------------------|-----------|------|-------------|------------------|----------------------------|------|----------------|-----------------------------------------------------|---------------|-------------|------------|
| Gravity & Magnetic Parameters |           |      |             | Surface Location |                            |      |                | Miscellaneous                                       |               |             |            |
| Model:                        | HDGM 2021 | Dip: | 60.309°     | Date:            | 12-Aug-2021                | Lat: | N 32 31 17.96  | Northing:                                           | 554219.31ftUS | Grid Conv:  | 0.3768°    |
| MagDec:                       | 6.492°    | FS:  | 47913.706nT | Gravity FS:      | 998.483mgm (9.80665 Based) | Lon: | W 103 37 57.23 | Easting:                                            | 757331.02ftUS | Scale Fact: | 0.99996252 |
|                               |           |      |             |                  |                            |      |                | Chisholm Minis 1 Fed HKY Com 9H Prelim0 mcs 12Aug21 |               |             |            |

| Critical Points                        |          |       |        |          |         |           |           |       |
|----------------------------------------|----------|-------|--------|----------|---------|-----------|-----------|-------|
| Critical Point                         | MD       | INCL  | AZIM   | TVD      | VSEC    | N(+)/S(-) | E(+)/W(-) | DLS   |
| SHL                                    | 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00      | 0.00      | 0.00  |
| Rustler                                | 1484.00  | 0.00  | 63.13  | 1484.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Salado                                 | 1864.00  | 0.00  | 63.13  | 1864.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Yates                                  | 3124.00  | 0.00  | 63.13  | 3124.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Capitan Reef                           | 3489.00  | 0.00  | 63.13  | 3489.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Delaware Mtn Gr                        | 5724.00  | 0.00  | 63.13  | 5724.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Build 1.5"/100' DLS                    | 6000.00  | 0.00  | 63.13  | 6000.00  | 0.00    | 0.00      | 0.00      | 0.00  |
| Hold                                   | 6466.48  | 7.00  | 63.13  | 6465.32  | -12.69  | 12.86     | 25.38     | 1.50  |
| Bone Spring                            | 8721.96  | 7.00  | 63.13  | 8704.00  | -135.28 | 137.03    | 270.48    | 0.00  |
| 1st Bone Spring SS                     | 9714.35  | 7.00  | 63.13  | 9689.00  | -189.22 | 191.66    | 378.33    | 0.00  |
| Drop 1.5"/100' DLS                     | 9765.41  | 7.00  | 63.13  | 9739.68  | -191.99 | 194.47    | 383.87    | 0.00  |
| 2nd Bone Spring SS                     | 10230.89 | 0.02  | 63.13  | 10204.00 | -204.68 | 207.33    | 409.25    | 1.50  |
| Hold                                   | 10231.89 | 0.00  | 63.13  | 10205.00 | -204.68 | 207.33    | 409.25    | 1.50  |
| Build 10"/100' DLS                     | 10431.89 | 0.00  | 63.13  | 10405.00 | -204.68 | 207.33    | 409.25    | 0.00  |
| Harkey SS                              | 11105.99 | 67.41 | 179.63 | 10934.00 | 148.18  | -145.53   | 411.52    | 10.00 |
| Landing Point                          | 11329.86 | 89.80 | 179.63 | 10977.95 | 366.25  | -363.59   | 412.92    | 10.00 |
| Chisholm Minis 1 Fed HKY Com 9H - PBHL | 18496.01 | 89.80 | 179.63 | 11003.33 | 7532.35 | -7529.54  | 458.96    | 0.00  |
| 3rd Bone Spring SS                     | NaN      |       |        | 11164.00 |         |           |           |       |
| Wolfcamp                               | NaN      |       |        | 11439.00 |         |           |           |       |
| Strawn                                 | NaN      |       |        | 12794.00 |         |           |           |       |



Vertical Section (ft) Azim = 179.63° Scale = 1:450.00(ft) Origin = 0N/-S, 0E/-W

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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
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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**

CONDITIONS

Action 244213

CONDITIONS

|                                                                                                    |                                                      |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                     |
|                                                                                                    | Action Number:<br>244213                             |
|                                                                                                    | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| pkautz     | None      | 9/25/2023      |