

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.******SUBMIT IN TRIPPLICATE - Other instructions on page 2***

1. Type of Well

 Oil Well     Gas Well     Other

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

2. Name of Operator

8. Well Name and No.

3a. Address

3b. Phone No. (include area code)

9. API Well No.

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

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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

| TYPE OF SUBMISSION                                | TYPE OF ACTION                                |   |  |   |  |
|---|---|---|--|---|--|
| <input 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"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |  |
| <input type="checkbox"/> Subsequent Report        | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |  |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |   |  |
| <input type="checkbox"/> Final Abandonment Notice | <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 recomplete 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 recompletion 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.)

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

Title

Signature

Date

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

Approved by

Title

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

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: NWNE / 330 FNL / 1550 FEL / TWSP: 25S / RANGE: 27E / SECTION: 7 / LAT: 32.150942 / LONG: -104.225964 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWSE / 2640 FNL / 2310 FEL / TWSP: 25S / RANGE: 27E / SECTION: 7 / LAT: 32.14455 / LONG: -104.228405 ( TVD: 9745 feet, MD: 11800 feet )  
PPP: NWNE / 396 FNL / 2310 FEL / TWSP: 25S / RANGE: 27E / SECTION: 7 / LAT: 32.1507611 / LONG: -104.2284167 ( TVD: 8713 feet, MD: 8760 feet )  
BHL: SWSE / 330 FSL / 2310 FEL / TWSP: 25S / RANGE: 27E / SECTION: 18 / LAT: 23.123597 / LONG: -104.228367 ( TVD: 9828 feet, MD: 19424 feet )

CONFIDENTIAL

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 Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

**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<br>30-015-46303 | <sup>2</sup> Pool Code<br>98220                    | <sup>3</sup> Pool Name<br>Purple Sage Wolfcamp Gas |
| <sup>4</sup> Property Code<br>317791    | <sup>5</sup> Property Name<br>DAVINCI 7-18 FEDERAL | <sup>6</sup> Well Number<br>35H                    |
| <sup>7</sup> OGRID No.<br>215099        | <sup>8</sup> Operator Name<br>CIMAREX ENERGY CO.   | <sup>9</sup> Elevation<br>3306.2'                  |

**<sup>10</sup> Surface Location**

| UL or lot no.<br>B | Section<br>7 | Township<br>25S | Range<br>27E | Lot Idn | Feet from the<br>330 | North/South line<br>NORTH | Feet from the<br>1550 | East/West line<br>EAST | County<br>EDDY |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|----------------|
|                    |              |                 |              |         |                      |                           |                       |                        |                |

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

| UL or lot no.<br>N | Section<br>18 | Township<br>25S | Range<br>27E | Lot Idn | Feet from the<br>100 | North/South line<br>SOUTH | Feet from the<br>1535 | East/West line<br>WEST | County<br>EDDY |
|--------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|----------------|
|                    |               |                 |              |         |                      |                           |                       |                        |                |

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.

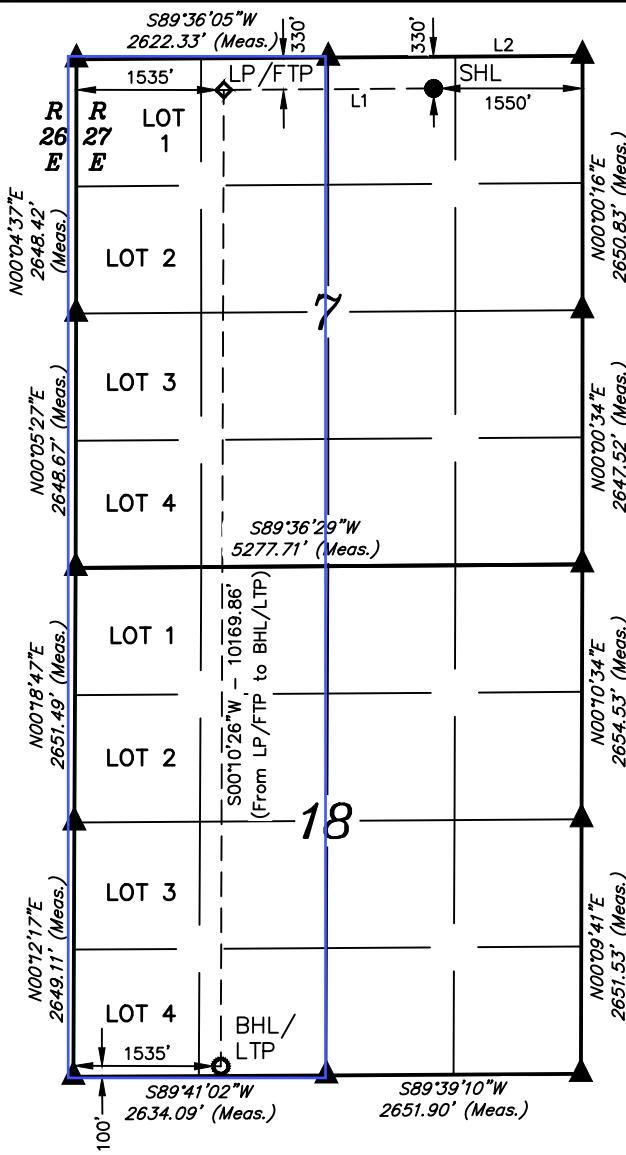
- <sup>16</sup> NOTE:  
  - Distances referenced on plat to section lines are perpendicular.
  - Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

**NAD 83 (SURFACE HOLE LOCATION)**  
LATITUDE = 32°09'03.39" (32.150942°)  
LONGITUDE = 104°13'33.47" (104.225964°)  
**NAD 27 (SURFACE HOLE LOCATION)**  
LATITUDE = 32°09'02.95" (32.150819°)  
LONGITUDE = 104°13'31.69" (104.225469°)  
**STATE PLANE NAD 83 (N.M. EAST)**  
N: 418664.02' E: 574565.73'  
**STATE PLANE NAD 27 (N.M. EAST)**  
N: 418606.50' E: 533382.76'

**NAD 83 (LP/FTP)**  
LATITUDE = 32°09'03.16" (32.150878°)  
LONGITUDE = 104°13'58.89" (104.233025°)  
**NAD 27 (LP/FTP)**  
LATITUDE = 32°09'02.73" (32.150758°)  
LONGITUDE = 104°13'57.10" (104.232528°)  
**STATE PLANE NAD 83 (N.M. EAST)**  
N: 418639.41' E: 572380.92'  
**STATE PLANE NAD 27 (N.M. EAST)**  
N: 418581.91' E: 531197.99'

**NAD 83 (BHL/LTP)**  
LATITUDE = 32°07'22.54" (32.122929°)  
LONGITUDE = 104°13'58.86" (104.233018°)  
**NAD 27 (BHL/LTP)**  
LATITUDE = 32°07'22.11" (32.122808°)  
LONGITUDE = 104°13'57.08" (104.232521°)  
**STATE PLANE NAD 83 (N.M. EAST)**  
N: 408471.95' E: 572392.52'  
**STATE PLANE NAD 27 (N.M. EAST)**  
N: 408414.64' E: 531209.43'

| LINE TABLE |             |          |
|------------|-------------|----------|
| LINE       | DIRECTION   | LENGTH   |
| L1         | S89°35'39"W | 2185.47' |
| L2         | S89°35'10"W | 2648.27' |



**<sup>17</sup> OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Amithy Crawford* 6/16/21  
Signature Date

Amithy Crawford  
Printed Name

acrawford@cimarex.com  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

May 11, 2017

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:



SCALE

DRAWN BY: S.F. 05-29-17  
REV: 1 05-18-21 R.J. (LP & BHL CHANGE)

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION / LAST TAKE POINT
- ▲ = SECTION CORNER LOCATED
- ◆ = LANDING POINT/FIRST TAKE POINT

**1. Geological Formations**

TVD of target 9,500  
MD at TD 19,797

Pilot Hole TD N/A  
Deepest expected fresh water

| Formation           | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone | Hazards |
|---------------------|---------------------|-----------------------------------|---------|
| Rustler             | 0                   | Useable Water                     |         |
| Salado              | 1252                | N/A                               |         |
| Castille            | 1870                | N/A                               |         |
| Bell Canyon         | 2088                | Hydrocarbons                      |         |
| Cherry Canyon       | 3075                | Hydrocarbons                      |         |
| Brushy Canyon       | 4127                | Hydrocarbons                      |         |
| Brushy Canyon Lower | 5296                | Hydrocarbons                      |         |
| Bone Spring         | 5621                | Hydrocarbons                      |         |
| Bone Spring A Shale | 5739                | Hydrocarbons                      |         |
| Bone Spring C Shale | 6085                | Hydrocarbons                      |         |
| 1st Bone Spring Ss  | 6576                | Hydrocarbons                      |         |
| 2nd Bone Spring Ss  | 7037                | Hydrocarbons                      |         |
| 2nd BS Ss Lower     | 7788                | Hydrocarbons                      |         |
| 3rd Bone Spring Ss  | 8389                | Hydrocarbons                      |         |
| Wolfcamp            | 8713                | Hydrocarbons                      |         |

**2. Casing Program**

| Hole Size                 | Casing Depth From | Casing Depth To | Setting Depth TVD | Casing Size | Weight (lb/ft) | Grade            | Conn. | SF Collapse | SF Burst           | SF Tension |
|---------------------------|-------------------|-----------------|-------------------|-------------|----------------|------------------|-------|-------------|--------------------|------------|
| 17 1/2                    | 0                 | 450             | 450               | 13-3/8"     | 48.00          | H-40/J-55 Hybrid | ST&C  | 3.59        | 8.40               | 14.91      |
| 12 1/4                    | 0                 | 2068            | 2068              | 9-5/8"      | 36.00          | J-55             | LT&C  | 1.84        | 3.21               | 6.08       |
| 8 3/4                     | 0                 | 8389            | 8389              | 7"          | 26.00          | L-80             | LT&C  | 1.38        | 1.85               | 2.08       |
| 8 3/4                     | 8389              | 9931            | 9451              | 7"          | 26.00          | N-80             | BT&C  | 1.22        | 1.64               | 21.87      |
| 6                         | 8289              | 19797           | 9500              | 4-1/2"      | 11.60          | P-110            | BT&C  | 1.18        | 1.67               | 26.13      |
| BLM Minimum Safety Factor |                   |                 |                   |             |                |                  | 1.125 | 1           | 1.6 Dry<br>1.8 Wet |            |

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

|  | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1   | Y      |
| Does casing meet API specifications? If no, attach casing specification sheet.   | Y      |
| Is premium or uncommon casing planned? If yes attach casing specification sheet.   | N      |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y      |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?                | Y      |
| Is well located within Capitan Reef?   | N      |
| If yes, does production casing tie back a minimum of 50' above the Reef?   | N      |
| Is well within the designated 4 string boundary.   | N      |
| Is well located in SOPA but not in R-111-P?  | N      |
| If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?                                   | N      |
| Is well located in R-111-P and SOPA?   | N      |
| If yes, are the first three strings cemented to surface?   | N      |
| Is 2nd string set 100' to 600' below the base of salt?   | N      |
| Is well located in high Cave/Karst?  | N      |
| If yes, are there two strings cemented to surface?   | N      |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?   | N      |
| Is well located in critical Cave/Karst?  | N      |
| If yes, are there three strings cemented to surface?   | N      |
| Is AC Report included?   | N      |

**3. Cementing Program**

| Casing                   | # Skns | Wt. lb/gal | Yld ft3/sack | H2O gal/sk | 500# Comp. Strength (hours) | Slurry Description   |
|--------------------------|--------|------------|--------------|------------|-----------------------------|--|
| <b>Surface</b>           | 91     | 13.50      | 1.72         | 9.15       | 15.5                        | Lead: Class C + Bentonite  |
|                          | 195    | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM  |
| <b>Intermediate</b>      | 392    | 12.90      | 1.88         | 9.65       | 12                          | Lead: 35:65 (Poz:C) + Salt + Bentonite                                 |
|                          | 121    | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM  |
| <b>Production</b>        | 457    | 10.30      | 3.64         | 22.18      |                             | Lead: Tuned Light + LCM  |
|                          | 112    | 14.20      | 1.30         | 5.86       | 14:30                       | Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS |
| <b>Completion System</b> | 734    | 14.20      | 1.30         | 5.86       | 14:30                       | Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS |

| Casing String     | TOC  | % Excess |
|-------------------|------|----------|
| Surface           | 0    | 33       |
| Intermediate      | 0    | 50       |
| Production        | 1868 | 25       |
| Completion System | 9731 | 10       |

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

#### 4. Pressure Control Equipment

|  | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. |                 |            |   |           |
|--|--|-----------------|------------|---|-----------|
| BOP installed and tested before drilling which hole? | Size   | Min Required WP | Type       |   | Tested To |
| 12 1/4   | 13 5/8   | 2M              | Annular    | X | 2M        |
|  |  |                 | Blind Ram  |   |           |
|  |  |                 | Pipe Ram   |   |           |
|  |  |                 | Double Ram | X |           |
|  |  |                 | Other      |   |           |
| 8 3/4  | 13 5/8   | 5M              | Annular    | X | 5M        |
|  |  |                 | Blind Ram  |   |           |
|  |  |                 | Pipe Ram   | X |           |
|  |  |                 | Double Ram | X |           |
|  |  |                 | Other      |   |           |
| 6  | 13 5/8   | 5M              | Annular    | X | 5M        |
|  |  |                 | Blind Ram  |   |           |
|  |  |                 | Pipe Ram   | X |           |
|  |  |                 | Double Ram | X |           |
|  |  |                 | Other      |   |           |

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

|   |  |
|---|--|
| X | Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. |
| X | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.  |
| N | Are anchors required by manufacturer?  |

## 5. Mud Program

| Depth           | Type          | Weight (ppg)  | Viscosity | Water Loss |
|-----------------|---------------|---------------|-----------|------------|
| 0' to 450'      | FW Spud Mud   | 8.30 - 8.80   | 30-32     | N/C        |
| 450' to 2068'   | Brine Water   | 9.70 - 10.20  | 30-32     | N/C        |
| 2068' to 9931'  | FW/Cut Brine  | 8.50 - 9.00   | 30-32     | N/C        |
| 9931' to 19797' | Oil Based Mud | 12.50 - 13.00 | 50-70     | N/C        |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

|   |                             |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

## 6. Logging and Testing Procedures

| Logging, Coring and Testing |   |
|-----------------------------|---|
| X                           | Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
|                             | No logs are planned based on well control or offset log information.  |
|                             | Drill stem test?  |
|                             | Coring?   |

| Additional Logs Planned | Interval |
|-------------------------|----------|
|-------------------------|----------|

## 7. Drilling Conditions

| Condition                  |          |
|----------------------------|----------|
| BH Pressure at deepest TVD | 6422 psi |
| Abnormal Temperature       | No       |

|  |
|--|
| Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. |
| X H2S is present   |
| X H2S plan is attached   |

## 8. Other Facets of Operation

### 9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 100% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.





**Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 Proposal  
Geodetic Report  
(Non-Def Plan)**



**Report Date:** May 24, 2021 - 05:27 PM  
**Client:** Cimarex Energy  
**Field:** NM Eddy County (NAD 83)  
**Structure / Slot:** Davinci 7-18 Federal Pad / New Slot  
**Well:** Davinci 7-18 Federal Com #35H  
**Borehole:** Davinci 7-18 Federal Com #35H  
**UVI / API#:** Unknown / Unknown  
**Survey Name:** Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21  
**Survey Date:** May 24, 2021  
**Tort / AHD / DDI / ERD Ratio:** 108.870 ° / 12378.340 ft / 6.448 / 1.303  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 9' 3.38513", W 104° 13' 33.47447"  
**Location Grid N/E Y/X:** N 418664.020 ftUS, E 574565.730 ftUS  
**CRS Grid Convergence Angle:** 0.0571 °  
**Grid Scale Factor:** 0.99991036  
**Version / Patch:** 2.10.825.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 179.853 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3329.200 ft above MSL  
**Seabed / Ground Elevation:** 3306.200 ft above MSL  
**Magnetic Declination:** 7.030 °  
**Total Gravity Field Strength:** 998.4349mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47629.679 nT  
**Magnetic Dip Angle:** 59.768 °  
**Declination Date:** May 24, 2021  
**Magnetic Declination Model:** HDGM 2021  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.0571 °  
**Total Corr Mag North->Grid**  
**North:** 6.9731 °  
**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>(°) | Longitude<br>(°) |
|-------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-----------------|------------------|
| SHL [330' FNL,<br>1550' FWL]  | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 100.00     | 0.00        | 270.75           | 100.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 200.00     | 0.00        | 270.75           | 200.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 300.00     | 0.00        | 270.75           | 300.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 400.00     | 0.00        | 270.75           | 400.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 500.00     | 0.00        | 270.75           | 500.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 600.00     | 0.00        | 270.75           | 600.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 700.00     | 0.00        | 270.75           | 700.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 800.00     | 0.00        | 270.75           | 800.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 900.00     | 0.00        | 270.75           | 900.00      | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1000.00    | 0.00        | 270.75           | 1000.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1100.00    | 0.00        | 270.75           | 1100.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1200.00    | 0.00        | 270.75           | 1200.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1300.00    | 0.00        | 270.75           | 1300.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
| Salado (Top<br>Salt)          | 1334.00    | 0.00        | 270.75           | 1334.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1400.00    | 0.00        | 270.75           | 1400.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
| Nudge 2'/100'<br>DLS          | 1500.00    | 0.00        | 270.75           | 1500.00     | 0.00         | 0.00       | 0.00       | 0.00             | 418664.02          | 574565.73         | 32.15           | -104.23          |
|                               | 1600.00    | 2.00        | 270.75           | 1599.98     | -0.03        | 0.02       | -1.75      | 2.00             | 418664.04          | 574563.99         | 32.15           | -104.23          |
|                               | 1700.00    | 4.00        | 270.75           | 1699.84     | -0.11        | 0.09       | -6.98      | 2.00             | 418664.11          | 574558.75         | 32.15           | -104.23          |
|                               | 1800.00    | 6.00        | 270.75           | 1799.45     | -0.25        | 0.21       | -15.69     | 2.00             | 418664.23          | 574550.04         | 32.15           | -104.23          |
| Castille (Base<br>Salt)       | 1859.95    | 7.20        | 270.75           | 1859.00     | -0.36        | 0.30       | -22.58     | 2.00             | 418664.32          | 574543.15         | 32.15           | -104.23          |
|                               | 1900.00    | 8.00        | 270.75           | 1898.70     | -0.44        | 0.37       | -27.88     | 2.00             | 418664.39          | 574537.86         | 32.15           | -104.23          |
|                               | 2000.00    | 10.00       | 270.75           | 1997.47     | -0.68        | 0.57       | -43.52     | 2.00             | 418664.59          | 574522.22         | 32.15           | -104.23          |
| Bell Canyon<br>(Top Delaware) | 2094.25    | 11.89       | 270.75           | 2090.00     | -0.97        | 0.81       | -61.41     | 2.00             | 418664.83          | 574504.33         | 32.15           | -104.23          |
|                               | 2100.00    | 12.00       | 270.75           | 2095.62     | -0.99        | 0.82       | -62.60     | 2.00             | 418664.84          | 574503.14         | 32.15           | -104.23          |
|                               | 2200.00    | 14.00       | 270.75           | 2193.06     | -1.34        | 1.12       | -85.09     | 2.00             | 418665.14          | 574480.65         | 32.15           | -104.23          |
|                               | 2300.00    | 16.00       | 270.75           | 2289.64     | -1.75        | 1.46       | -110.97    | 2.00             | 418665.48          | 574454.77         | 32.15           | -104.23          |
| Hold Nudge                    | 2340.00    | 16.80       | 270.75           | 2328.02     | -1.92        | 1.61       | -122.26    | 2.00             | 418665.63          | 574443.48         | 32.15           | -104.23          |
|                               | 2400.00    | 16.80       | 270.75           | 2385.45     | -2.20        | 1.84       | -139.60    | 0.00             | 418665.86          | 574426.14         | 32.15           | -104.23          |
|                               | 2500.00    | 16.80       | 270.75           | 2481.19     | -2.65        | 2.22       | -168.50    | 0.00             | 418666.24          | 574397.24         | 32.15           | -104.23          |
|                               | 2600.00    | 16.80       | 270.75           | 2576.92     | -3.11        | 2.60       | -197.40    | 0.00             | 418666.62          | 574368.35         | 32.15           | -104.23          |
|                               | 2700.00    | 16.80       | 270.75           | 2672.65     | -3.56        | 2.98       | -226.30    | 0.00             | 418667.00          | 574339.45         | 32.15           | -104.23          |
|                               | 2800.00    | 16.80       | 270.75           | 2768.38     | -4.02        | 3.36       | -255.20    | 0.00             | 418667.38          | 574310.55         | 32.15           | -104.23          |
|                               | 2900.00    | 16.80       | 270.75           | 2864.11     | -4.47        | 3.74       | -284.10    | 0.00             | 418667.76          | 574281.65         | 32.15           | -104.23          |
| Cherry Canyon                 | 2983.45    | 16.80       | 270.75           | 2944.00     | -4.85        | 4.06       | -308.22    | 0.00             | 418668.08          | 574257.54         | 32.15           | -104.23          |
|                               | 3000.00    | 16.80       | 270.75           | 2959.85     | -4.93        | 4.12       | -313.00    | 0.00             | 418668.14          | 574252.75         | 32.15           | -104.23          |
|                               | 3100.00    | 16.80       | 270.75           | 3055.58     | -5.38        | 4.50       | -341.91    | 0.00             | 418668.52          | 574223.86         | 32.15           | -104.23          |
|                               | 3200.00    | 16.80       | 270.75           | 3151.31     | -5.84        | 4.88       | -370.81    | 0.00             | 418668.90          | 574194.96         | 32.15           | -104.23          |
|                               | 3300.00    | 16.80       | 270.75           | 3247.04     | -6.29        | 5.26       | -399.71    | 0.00             | 418669.28          | 574166.06         | 32.15           | -104.23          |
|                               | 3400.00    | 16.80       | 270.75           | 3342.77     | -6.74        | 5.65       | -428.61    | 0.00             | 418669.66          | 574137.16         | 32.15           | -104.23          |
|                               | 3500.00    | 16.80       | 270.75           | 3438.51     | -7.20        | 6.03       | -457.51    | 0.00             | 418670.05          | 574108.26         | 32.15           | -104.23          |
|                               | 3600.00    | 16.80       | 270.75           | 3534.24     | -7.65        | 6.41       | -486.41    | 0.00             | 418670.43          | 574079.37         | 32.15           | -104.23          |
|                               | 3700.00    | 16.80       | 270.75           | 3629.97     | -8.11        | 6.79       | -515.31    | 0.00             | 418670.81          | 574050.47         | 32.15           | -104.23          |
|                               | 3800.00    | 16.80       | 270.75           | 3725.70     | -8.56        | 7.17       | -544.21    | 0.00             | 418671.19          | 574021.57         | 32.15           | -104.23          |
|                               | 3900.00    | 16.80       | 270.75           | 3821.43     | -9.02        | 7.55       | -573.11    | 0.00             | 418671.57          | 573992.67         | 32.15           | -104.23          |
|                               | 4000.00    | 16.80       | 270.75           | 3917.17     | -9.47        | 7.93       | -602.01    | 0.00             | 418671.95          | 573963.77         | 32.15           | -104.23          |
| Brushy Canyon                 | 4092.80    | 16.80       | 270.75           | 4006.00     | -9.90        | 8.28       | -628.83    | 0.00             | 418672.30          | 573936.96         | 32.15           | -104.23          |
|                               | 4100.00    | 16.80       | 270.75           | 4012.90     | -9.93        | 8.31       | -630.91    | 0.00             | 418672.33          | 573934.88         | 32.15           | -104.23          |
|                               | 4200.00    | 16.80       | 270.75           | 4108.63     | -10.38       | 8.69       | -659.81    | 0.00             | 418672.71          | 573905.98         | 32.15           | -104.23          |
|                               | 4300.00    | 16.80       | 270.75           | 4204.36     | -10.84       | 9.07       | -688.71    | 0.00             | 418673.09          | 573877.08         | 32.15           | -104.23          |
|                               | 4400.00    | 16.80       | 270.75           | 4300.09     | -11.29       | 9.45       | -717.61    | 0.00             | 418673.47          | 573848.18         | 32.15           | -104.23          |
|                               | 4500.00    | 16.80       | 270.75           | 4395.83     | -11.75       | 9.83       | -746.51    | 0.00             | 418673.85          | 573819.28         | 32.15           | -104.23          |
|                               | 4600.00    | 16.80       | 270.75           | 4491.56     | -12.20       | 10.21      | -775.42    | 0.00             | 418674.23          | 573790.39         | 32.15           | -104.23          |
|                               | 4700.00    | 16.80       | 270.75           | 4587.29     | -12.66       | 10.59      | -804.32    | 0.00             | 418674.61          | 573761.49         | 32.15           | -104.23          |
|                               | 4800.00    | 16.80       | 270.75           | 4683.02     | -13.11       | 10.97      | -833.22    | 0.00             | 418674.99          | 573732.59         | 32.15           | -104.23          |
|                               | 4900.00    | 16.80       | 270.75           | 4778.75     | -13.57       | 11.35      | -862.12    | 0.00             | 418675.37          | 573703.69         | 32.15           | -104.23          |
|                               | 5000.00    | 16.80       | 270.75           | 4874.48     | -14.02       | 11.74      | -891.02    | 0.00             | 418675.75          | 573674.79         | 32.15           | -104.23          |
|                               | 5100.00    | 16.80       | 270.75           | 4970.22     | -14.48       | 12.12      | -919.92    | 0.00             | 418676.14          | 573645.90         | 32.15           | -104.23          |
|                               | 5200.00    | 16.80       | 270.75           | 5065.95     | -14.93       | 12.50      | -948.82    | 0.00             | 418676.52          | 573617.00         | 32.15           | -104.23          |
|                               | 5300.00    | 16.80       | 270.75           | 5161.68     | -15.39       | 12.88      | -977.72    | 0.00             | 418676.90          | 573588.10         | 32.15           | -104.23          |
|                               | 5400.00    | 16.80       | 270.75           | 5257.41     | -15.84       | 13.26      | -1006.62   | 0.00             | 418677.28          | 573559.20         | 32.15           | -104.23          |
|                               | 5500.00    | 16.80       | 270.75           | 5353.14     | -16.30       | 13.64      | -1035.52   | 0.00             | 418677.66          | 573530.30         | 32.15           | -104.23          |
|                               | 5600.00    | 16.80       | 270.75           | 5448.88     | -16.75       | 14.02      | -1064.42   | 0.00             | 418678.04          | 573501.41         | 32.15           | -104.23          |
|                               | 5700.00    | 16.80       | 270.75           | 5544.61     | -17.21       | 14.40      | -1093.32   | 0.00             | 418678.42          | 573472.51         | 32.15           | -104.23          |
| Top Bone Spring               | 5782.93    | 16.80       | 270.75           | 5624.00     | -17.58       | 14.72      | -1117.29   | 0.00             | 418678.73          | 573448.54         | 32.15           | -104.23          |
|                               | 5800.00    | 16.80       | 270.75           | 5640.34     | -17.66       | 14.78      | -1122.22   | 0.00             | 418678.80          | 573443.61         | 32.15           | -104.23          |
|                               | 5900.00    | 16.80       | 270.75           | 5736.07     | -18.11       | 15.16      | -1151.12   | 0.00             | 418679.18          | 573441.71         | 32.15           | -104.23          |
|                               | 6000.00    | 16.80       | 270.75           | 5831.80     | -18.57       | 15.54      | -1180.02   | 0.00             | 418679.56          | 573385.81         | 32.15           | -104.23          |
|                               | 6100.00    | 16.80       | 270.75           | 5927.54     | -19.02       | 15.92      | -1208.93   | 0.00             | 418679.94          | 573356.92         | 32.15           | -104.23          |

| 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>(°) | Longitude<br>(°) |
|-------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-----------------|------------------|
| Top 1st BSPG SS                     | 6200.00    | 16.80       | 270.75           | 6023.27     | -19.48       | 16.30      | -1237.83   | 0.00             | 418680.32          | 573328.02         | 32.15           | -104.23          |
|                                     | 6300.00    | 16.80       | 270.75           | 6119.00     | -19.93       | 16.68      | -1266.73   | 0.00             | 418680.70          | 573299.12         | 32.15           | -104.23          |
|                                     | 6400.00    | 16.80       | 270.75           | 6214.73     | -20.39       | 17.06      | -1295.63   | 0.00             | 418681.08          | 573270.22         | 32.15           | -104.23          |
|                                     | 6500.00    | 16.80       | 270.75           | 6310.46     | -20.84       | 17.45      | -1324.53   | 0.00             | 418681.46          | 573241.32         | 32.15           | -104.23          |
|                                     | 6600.00    | 16.80       | 270.75           | 6406.20     | -21.30       | 17.83      | -1353.43   | 0.00             | 418681.84          | 573212.43         | 32.15           | -104.23          |
|                                     | 6700.00    | 16.80       | 270.75           | 6501.93     | -21.75       | 18.21      | -1382.33   | 0.00             | 418682.23          | 573183.53         | 32.15           | -104.23          |
|                                     | 6734.55    | 16.80       | 270.75           | 6535.00     | -21.91       | 18.34      | -1392.31   | 0.00             | 418682.36          | 573173.54         | 32.15           | -104.23          |
|                                     | 6800.00    | 16.80       | 270.75           | 6597.66     | -22.21       | 18.59      | -1411.23   | 0.00             | 418682.61          | 573154.63         | 32.15           | -104.23          |
|                                     | 6900.00    | 16.80       | 270.75           | 6693.39     | -22.66       | 18.97      | -1440.13   | 0.00             | 418682.99          | 573125.73         | 32.15           | -104.23          |
|                                     | 7000.00    | 16.80       | 270.75           | 6789.12     | -23.12       | 19.35      | -1469.03   | 0.00             | 418683.37          | 573096.83         | 32.15           | -104.23          |
| Top 2nd BSPG SS                     | 7100.00    | 16.80       | 270.75           | 6884.86     | -23.57       | 19.73      | -1497.93   | 0.00             | 418683.75          | 573067.94         | 32.15           | -104.23          |
|                                     | 7200.00    | 16.80       | 270.75           | 6980.59     | -24.03       | 20.11      | -1526.83   | 0.00             | 418684.13          | 573039.04         | 32.15           | -104.23          |
|                                     | 7300.00    | 16.80       | 270.75           | 7076.32     | -24.48       | 20.49      | -1555.73   | 0.00             | 418684.51          | 573010.14         | 32.15           | -104.23          |
|                                     | 7334.14    | 16.80       | 270.75           | 7109.00     | -24.64       | 20.62      | -1565.60   | 0.00             | 418684.64          | 573000.27         | 32.15           | -104.23          |
|                                     | 7400.00    | 16.80       | 270.75           | 7172.05     | -24.94       | 20.87      | -1584.63   | 0.00             | 418684.89          | 572981.24         | 32.15           | -104.23          |
|                                     | 7500.00    | 16.80       | 270.75           | 7267.78     | -25.39       | 21.25      | -1613.53   | 0.00             | 418685.27          | 572952.34         | 32.15           | -104.23          |
|                                     | 7600.00    | 16.80       | 270.75           | 7363.52     | -25.85       | 21.63      | -1642.44   | 0.00             | 418685.65          | 572923.45         | 32.15           | -104.23          |
|                                     | 7700.00    | 16.80       | 270.75           | 7459.25     | -26.30       | 22.01      | -1671.34   | 0.00             | 418686.03          | 572894.55         | 32.15           | -104.23          |
|                                     | 7800.00    | 16.80       | 270.75           | 7554.98     | -26.76       | 22.39      | -1700.24   | 0.00             | 418686.41          | 572865.65         | 32.15           | -104.23          |
|                                     | 7900.00    | 16.80       | 270.75           | 7650.71     | -27.21       | 22.77      | -1729.14   | 0.00             | 418686.79          | 572836.75         | 32.15           | -104.23          |
| Top 3rd BSPS SS                     | 8000.00    | 16.80       | 270.75           | 7746.44     | -27.67       | 23.16      | -1758.04   | 0.00             | 418687.17          | 572807.85         | 32.15           | -104.23          |
|                                     | 8100.00    | 16.80       | 270.75           | 7842.18     | -28.12       | 23.54      | -1786.94   | 0.00             | 418687.55          | 572778.95         | 32.15           | -104.23          |
|                                     | 8200.00    | 16.80       | 270.75           | 7937.91     | -28.58       | 23.92      | -1815.84   | 0.00             | 418687.93          | 572750.06         | 32.15           | -104.23          |
|                                     | 8300.00    | 16.80       | 270.75           | 8033.64     | -29.03       | 24.30      | -1844.74   | 0.00             | 418688.31          | 572721.16         | 32.15           | -104.23          |
|                                     | 8400.00    | 16.80       | 270.75           | 8129.37     | -29.48       | 24.68      | -1873.64   | 0.00             | 418688.70          | 572692.26         | 32.15           | -104.23          |
|                                     | 8500.00    | 16.80       | 270.75           | 8225.10     | -29.94       | 25.06      | -1902.54   | 0.00             | 418689.08          | 572663.36         | 32.15           | -104.23          |
|                                     | 8600.00    | 16.80       | 270.75           | 8320.84     | -30.39       | 25.44      | -1931.44   | 0.00             | 418689.46          | 572634.46         | 32.15           | -104.23          |
|                                     | 8659.71    | 16.80       | 270.75           | 8378.00     | -30.67       | 25.67      | -1948.70   | 0.00             | 418689.68          | 572617.21         | 32.15           | -104.23          |
|                                     | 8700.00    | 16.80       | 270.75           | 8416.57     | -30.85       | 25.82      | -1960.34   | 0.00             | 418689.84          | 572605.57         | 32.15           | -104.23          |
|                                     | 8800.00    | 16.80       | 270.75           | 8512.30     | -31.30       | 26.20      | -1989.24   | 0.00             | 418690.22          | 572576.67         | 32.15           | -104.23          |
| Top Wolfcamp                        | 8900.00    | 16.80       | 270.75           | 8608.03     | -31.76       | 26.58      | -2018.14   | 0.00             | 418690.60          | 572547.77         | 32.15           | -104.23          |
|                                     | 9000.00    | 16.80       | 270.75           | 8703.76     | -32.21       | 26.96      | -2047.04   | 0.00             | 418690.98          | 572518.87         | 32.15           | -104.23          |
|                                     | 9033.67    | 16.80       | 270.75           | 8736.00     | -32.37       | 27.09      | -2056.78   | 0.00             | 418691.11          | 572509.14         | 32.15           | -104.23          |
|                                     | 9100.00    | 16.80       | 270.75           | 8799.49     | -32.67       | 27.34      | -2075.95   | 0.00             | 418691.36          | 572489.97         | 32.15           | -104.23          |
|                                     | 9200.00    | 16.80       | 270.75           | 8895.23     | -33.12       | 27.72      | -2104.85   | 0.00             | 418691.74          | 572461.08         | 32.15           | -104.23          |
|                                     | 9253.04    | 16.80       | 270.75           | 8946.00     | -33.36       | 27.92      | -2120.17   | 0.00             | 418691.94          | 572445.75         | 32.15           | -104.23          |
|                                     | 9289.20    | 16.80       | 270.75           | 8980.62     | -33.53       | 28.06      | -2130.63   | 0.00             | 418692.08          | 572435.30         | 32.15           | -104.23          |
|                                     | 9300.00    | 16.46       | 266.38           | 8990.97     | -33.46       | 27.99      | -2133.71   | 12.00            | 418692.00          | 572432.21         | 32.15           | -104.23          |
|                                     | 9400.00    | 17.91       | 225.23           | 9086.85     | -21.76       | 16.22      | -2158.86   | 12.00            | 418680.24          | 572407.07         | 32.15           | -104.23          |
|                                     | 9500.00    | 25.52       | 199.58           | 9179.89     | 9.43         | -15.02     | -2177.06   | 12.00            | 418649.00          | 572388.87         | 32.15           | -104.23          |
| Wolfcamp A KOP - Build 12°/100' DLS | 9536.12    | 28.97       | 193.84           | 9212.00     | 25.25        | -30.85     | -2181.76   | 12.00            | 418633.17          | 572384.17         | 32.15           | -104.23          |
|                                     | 9595.09    | 35.00       | 186.82           | 9262.01     | 55.93        | -61.55     | -2187.19   | 12.00            | 418602.48          | 572378.74         | 32.15           | -104.23          |
|                                     | 9600.00    | 35.58       | 186.64           | 9266.02     | 58.75        | -64.37     | -2187.52   | 12.00            | 418599.66          | 572378.41         | 32.15           | -104.23          |
|                                     | 9700.00    | 47.43       | 183.75           | 9340.78     | 124.62       | -130.25    | -2193.32   | 12.00            | 418533.79          | 572372.61         | 32.15           | -104.23          |
|                                     | 9700.32    | 47.47       | 183.74           | 9341.00     | 124.85       | -130.48    | -2193.33   | 12.00            | 418533.55          | 572372.60         | 32.15           | -104.23          |
|                                     | 9800.00    | 59.33       | 181.80           | 9400.33     | 204.63       | -210.27    | -2197.09   | 12.00            | 418453.77          | 572368.84         | 32.15           | -104.23          |
|                                     | 9900.00    | 71.25       | 180.28           | 9442.07     | 295.29       | -300.93    | -2198.68   | 12.00            | 418363.12          | 572367.25         | 32.15           | -104.23          |
|                                     | 9931.45    | 75.00       | 179.85           | 9451.19     | 325.37       | -331.01    | -2198.71   | 12.00            | 418333.04          | 572367.22         | 32.15           | -104.23          |
|                                     | 10000.00   | 77.74       | 179.85           | 9467.34     | 391.99       | -397.63    | -2198.54   | 4.00             | 418266.43          | 572367.39         | 32.15           | -104.23          |
|                                     | 10100.00   | 81.74       | 179.85           | 9485.15     | 490.37       | -496.01    | -2198.29   | 4.00             | 418168.05          | 572367.64         | 32.15           | -104.23          |
| Wolfcamp C Landing Point            | 10200.00   | 85.74       | 179.85           | 9496.05     | 589.75       | -595.40    | -2198.03   | 4.00             | 418068.68          | 572367.90         | 32.15           | -104.23          |
|                                     | 10252.92   | 87.86       | 179.85           | 9499.00     | 642.59       | -648.23    | -2197.90   | 4.00             | 418015.85          | 572368.03         | 32.15           | -104.23          |
|                                     | 10300.00   | 89.74       | 179.85           | 9499.99     | 689.66       | -695.30    | -2197.78   | 4.00             | 417968.79          | 572368.15         | 32.15           | -104.23          |
|                                     | 10306.45   | 90.00       | 179.85           | 9500.00     | 696.10       | -701.74    | -2197.76   | 4.00             | 417962.34          | 572368.17         | 32.15           | -104.23          |
|                                     | 10400.00   | 90.00       | 179.85           | 9500.00     | 789.66       | -795.30    | -2197.52   | 0.00             | 417968.80          | 572368.41         | 32.15           | -104.23          |
|                                     | 10500.00   | 90.00       | 179.85           | 9500.00     | 889.66       | -895.30    | -2197.26   | 0.00             | 417768.81          | 572368.67         | 32.15           | -104.23          |
|                                     | 10600.00   | 90.00       | 179.85           | 9500.00     | 989.66       | -995.30    | -2197.01   | 0.00             | 417668.81          | 572368.92         | 32.15           | -104.23          |
|                                     | 10700.00   | 90.00       | 179.85           | 9500.00     | 1089.66      | -1095.30   | -2196.75   | 0.00             | 417568.82          | 572369.18         | 32.15           | -104.23          |
|                                     | 10800.00   | 90.00       | 179.85           | 9500.00     | 1189.66      | -1195.30   | -2196.49   | 0.00             | 417468.83          | 572369.44         | 32.15           | -104.23          |
|                                     | 10900.00   | 90.00       | 179.85           | 9500.00     | 1289.66      | -1295.30   | -2196.24   | 0.00             | 417368.84          | 572369.69         | 32.15           | -104.23          |
| Build 4°/100' DLS                   | 11000.00   | 90.00       | 179.85           | 9500.00     | 1389.66      | -1395.30   | -2195.98   | 0.00             | 417268.85          | 572369.95         | 32.15           | -104.23          |
|                                     | 11100.00   | 90.00       | 179.85           | 9500.00     | 1489.66      | -1495.29   | -2195.72   | 0.00             | 417168.86          | 572370.21         | 32.15           | -104.23          |
|                                     | 11200.00   | 90.00       | 179.85           | 9500.00     | 1589.66      | -1595.29   | -2195.47   | 0.00             | 417068.87          | 572370.46         | 32.15           | -104.23          |
|                                     | 11300.00   | 90.00       | 179.85           | 9500.00     | 1689.66      | -1695.29   | -2195.21   | 0.00             | 416968.88          | 572370.72         | 32.15           | -104.23          |
|                                     | 11400.00   | 90.00       | 179.85           | 9500.00     | 1789.66      | -1795.29   | -2194.95   | 0.00             | 416868.89          | 572370.98         | 32.15           | -104.23          |
|                                     | 11500.00   | 90.00       | 179.85           | 9500.00     | 1889.66      | -1895.29   | -2194.70   | 0.00             | 416768.90          | 572371.23         | 32.15           | -104.23          |
|                                     | 11600.00   | 90.00       | 179.85           | 9500.00     | 1989.66      | -1995.29   | -2194.44   | 0.00             | 416668.91          | 572371.49         | 32.15           | -104.23          |
|                                     | 11700.00   | 90.00       | 179.85           | 9500.00     | 2089.66      | -2095.29   | -2194.18   | 0.00             | 416568.92          | 572371.75         | 32.15           | -104.23          |
|                                     | 11800.00   | 90.00       | 179.85           | 9500.00     | 2189.66      | -2195.29   | -2193.93   | 0.00             | 416468.93          | 572372.00         | 32.14           | -104.23          |
|                                     | 11900.00   | 90.00       | 179.85           | 9500.00     | 2289.66      | -2295.29   | -2193.67   | 0.00             | 416368.94          | 572372.26         | 32.14           | -104.23          |
| Build 4°/100' DLS                   | 12000.00   | 90.00       | 179.85           | 9500.00     | 2389.66      | -2395.29   | -2191.88   | 0.00             | 415669.00          | 572374.06         | 32.14           | -104.23          |
|                                     | 12700.00   | 90.00       | 179.85           | 9500.00     | 3089.66      | -3095.29   | -2191.62   | 0.00             | 415669             |                   |                 |                  |

| 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>(°) | Longitude<br>(°) |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-----------------|------------------|
|          | 15000.00   | 90.00       | 179.85           | 9500.00     | 5389.66      | -5395.28   | -2185.72   | 0.00             | 413269.23          | 572380.21         | 32.14           | -104.23          |
|          | 15100.00   | 90.00       | 179.85           | 9500.00     | 5489.66      | -5495.28   | -2185.46   | 0.00             | 413169.24          | 572380.47         | 32.14           | -104.23          |
|          | 15200.00   | 90.00       | 179.85           | 9500.00     | 5589.66      | -5595.28   | -2185.21   | 0.00             | 413069.25          | 572380.73         | 32.14           | -104.23          |
|          | 15300.00   | 90.00       | 179.85           | 9500.00     | 5689.66      | -5695.28   | -2184.95   | 0.00             | 412969.26          | 572380.98         | 32.14           | -104.23          |
|          | 15400.00   | 90.00       | 179.85           | 9500.00     | 5789.66      | -5795.28   | -2184.69   | 0.00             | 412869.27          | 572381.24         | 32.14           | -104.23          |
|          | 15500.00   | 90.00       | 179.85           | 9500.00     | 5889.66      | -5895.28   | -2184.44   | 0.00             | 412769.28          | 572381.49         | 32.13           | -104.23          |
|          | 15600.00   | 90.00       | 179.85           | 9500.00     | 5989.66      | -5995.28   | -2184.18   | 0.00             | 412669.29          | 572381.75         | 32.13           | -104.23          |
|          | 15700.00   | 90.00       | 179.85           | 9500.00     | 6089.66      | -6095.28   | -2183.92   | 0.00             | 412569.30          | 572382.01         | 32.13           | -104.23          |
|          | 15800.00   | 90.00       | 179.85           | 9500.00     | 6189.66      | -6195.28   | -2183.67   | 0.00             | 412469.31          | 572382.26         | 32.13           | -104.23          |
|          | 15900.00   | 90.00       | 179.85           | 9500.00     | 6289.66      | -6295.28   | -2183.41   | 0.00             | 412369.32          | 572382.52         | 32.13           | -104.23          |
|          | 16000.00   | 90.00       | 179.85           | 9500.00     | 6389.66      | -6395.28   | -2183.15   | 0.00             | 412269.33          | 572382.78         | 32.13           | -104.23          |
|          | 16100.00   | 90.00       | 179.85           | 9500.00     | 6489.66      | -6495.28   | -2182.90   | 0.00             | 412169.34          | 572383.03         | 32.13           | -104.23          |
|          | 16200.00   | 90.00       | 179.85           | 9500.00     | 6589.66      | -6595.28   | -2182.64   | 0.00             | 412069.35          | 572383.29         | 32.13           | -104.23          |
|          | 16300.00   | 90.00       | 179.85           | 9500.00     | 6689.66      | -6695.28   | -2182.38   | 0.00             | 411969.36          | 572383.55         | 32.13           | -104.23          |
|          | 16400.00   | 90.00       | 179.85           | 9500.00     | 6789.66      | -6795.28   | -2182.13   | 0.00             | 411869.37          | 572383.80         | 32.13           | -104.23          |
|          | 16500.00   | 90.00       | 179.85           | 9500.00     | 6889.66      | -6895.28   | -2181.87   | 0.00             | 411769.38          | 572384.06         | 32.13           | -104.23          |
|          | 16600.00   | 90.00       | 179.85           | 9500.00     | 6989.66      | -6995.28   | -2181.61   | 0.00             | 411669.38          | 572384.32         | 32.13           | -104.23          |
|          | 16700.00   | 90.00       | 179.85           | 9500.00     | 7089.66      | -7095.28   | -2181.36   | 0.00             | 411569.39          | 572384.57         | 32.13           | -104.23          |
|          | 16800.00   | 90.00       | 179.85           | 9500.00     | 7189.66      | -7195.28   | -2181.10   | 0.00             | 411469.40          | 572384.83         | 32.13           | -104.23          |
|          | 16900.00   | 90.00       | 179.85           | 9500.00     | 7289.66      | -7295.28   | -2180.84   | 0.00             | 411369.41          | 572385.09         | 32.13           | -104.23          |
|          | 17000.00   | 90.00       | 179.85           | 9500.00     | 7389.66      | -7395.28   | -2180.59   | 0.00             | 411269.42          | 572385.34         | 32.13           | -104.23          |
|          | 17100.00   | 90.00       | 179.85           | 9500.00     | 7489.66      | -7495.27   | -2180.33   | 0.00             | 411169.43          | 572385.60         | 32.13           | -104.23          |
|          | 17200.00   | 90.00       | 179.85           | 9500.00     | 7589.66      | -7595.27   | -2180.07   | 0.00             | 411069.44          | 572385.86         | 32.13           | -104.23          |
|          | 17300.00   | 90.00       | 179.85           | 9500.00     | 7689.66      | -7695.27   | -2179.82   | 0.00             | 410969.45          | 572386.11         | 32.13           | -104.23          |
|          | 17400.00   | 90.00       | 179.85           | 9500.00     | 7789.66      | -7795.27   | -2179.56   | 0.00             | 410869.46          | 572386.37         | 32.13           | -104.23          |
|          | 17500.00   | 90.00       | 179.85           | 9500.00     | 7889.66      | -7895.27   | -2179.30   | 0.00             | 410769.47          | 572386.63         | 32.13           | -104.23          |
|          | 17600.00   | 90.00       | 179.85           | 9500.00     | 7989.66      | -7995.27   | -2179.05   | 0.00             | 410669.48          | 572386.88         | 32.13           | -104.23          |
|          | 17700.00   | 90.00       | 179.85           | 9500.00     | 8089.66      | -8095.27   | -2178.79   | 0.00             | 410569.49          | 572387.14         | 32.13           | -104.23          |
|          | 17800.00   | 90.00       | 179.85           | 9500.00     | 8189.66      | -8195.27   | -2178.53   | 0.00             | 410469.50          | 572387.40         | 32.13           | -104.23          |
|          | 17900.00   | 90.00       | 179.85           | 9500.00     | 8289.66      | -8295.27   | -2178.28   | 0.00             | 410369.51          | 572387.65         | 32.13           | -104.23          |
|          | 18000.00   | 90.00       | 179.85           | 9500.00     | 8389.66      | -8395.27   | -2178.02   | 0.00             | 410269.52          | 572387.91         | 32.13           | -104.23          |
|          | 18100.00   | 90.00       | 179.85           | 9500.00     | 8489.66      | -8495.27   | -2177.76   | 0.00             | 410169.53          | 572388.16         | 32.13           | -104.23          |
|          | 18200.00   | 90.00       | 179.85           | 9500.00     | 8589.66      | -8595.27   | -2177.51   | 0.00             | 410069.54          | 572388.42         | 32.13           | -104.23          |
|          | 18300.00   | 90.00       | 179.85           | 9500.00     | 8689.66      | -8695.27   | -2177.25   | 0.00             | 409969.55          | 572388.68         | 32.13           | -104.23          |
|          | 18400.00   | 90.00       | 179.85           | 9500.00     | 8789.66      | -8795.27   | -2177.00   | 0.00             | 409869.56          | 572388.93         | 32.13           | -104.23          |
|          | 18500.00   | 90.00       | 179.85           | 9500.00     | 8889.66      | -8895.27   | -2176.74   | 0.00             | 409769.56          | 572389.19         | 32.13           | -104.23          |
|          | 18600.00   | 90.00       | 179.85           | 9500.00     | 8989.66      | -8995.27   | -2176.48   | 0.00             | 409669.57          | 572389.45         | 32.13           | -104.23          |
|          | 18700.00   | 90.00       | 179.85           | 9500.00     | 9089.66      | -9095.27   | -2176.23   | 0.00             | 409569.58          | 572389.70         | 32.13           | -104.23          |
|          | 18800.00   | 90.00       | 179.85           | 9500.00     | 9189.66      | -9195.27   | -2175.97   | 0.00             | 409469.59          | 572389.96         | 32.13           | -104.23          |
|          | 18900.00   | 90.00       | 179.85           | 9500.00     | 9289.66      | -9295.27   | -2175.71   | 0.00             | 409369.60          | 572390.22         | 32.13           | -104.23          |
|          | 19000.00   | 90.00       | 179.85           | 9500.00     | 9389.66      | -9395.27   | -2175.46   | 0.00             | 409269.61          | 572390.47         | 32.13           | -104.23          |
|          | 19100.00   | 90.00       | 179.85           | 9500.00     | 9489.66      | -9495.27   | -2175.20   | 0.00             | 409169.62          | 572390.73         | 32.12           | -104.23          |
|          | 19200.00   | 90.00       | 179.85           | 9500.00     | 9589.66      | -9595.27   | -2174.94   | 0.00             | 409069.63          | 572390.99         | 32.12           | -104.23          |
|          | 19300.00   | 90.00       | 179.85           | 9500.00     | 9689.66      | -9695.27   | -2174.69   | 0.00             | 408969.64          | 572391.24         | 32.12           | -104.23          |
|          | 19400.00   | 90.00       | 179.85           | 9500.00     | 9789.66      | -9795.27   | -2174.43   | 0.00             | 408869.65          | 572391.50         | 32.12           | -104.23          |
|          | 19500.00   | 90.00       | 179.85           | 9500.00     | 9889.66      | -9895.27   | -2174.17   | 0.00             | 408769.66          | 572391.76         | 32.12           | -104.23          |
|          | 19600.00   | 90.00       | 179.85           | 9500.00     | 9989.66      | -9995.27   | -2173.92   | 0.00             | 408669.67          | 572392.01         | 32.12           | -104.23          |
|          | 19700.00   | 90.00       | 179.85           | 9500.00     | 10089.66     | -10095.27  | -2173.66   | 0.00             | 408569.68          | 572392.27         | 32.12           | -104.23          |

Cimarex Davinci  
7-18 Federal  
Com #35H -  
PBHL [100'  
FSL,1535'FWL]

Survey Type: Non-Def Plan

Survey Error Model: ISCWWSA 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           | 23.000        | 1/100.000        | 17.500            | 13.375                  |                                      | NAL_MWD_IFR1+MS-Depth Only | Davinci 7-18 Federal Com #35H / Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 |
|             | 1    | 23.000          | 19797.738     | 1/100.000        | 17.500            | 13.375                  |                                      | NAL_MWD_IFR1+MS            | Davinci 7-18 Federal Com #35H / Cimarex Davinci 7-18 Federal                          |



**Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 Proposal**  
**Geodetic Report**  
(Non-Def Plan)



**Report Date:** May 24, 2021 - 05:27 PM  
**Client:** Cimarex Energy  
**Field:** NM Eddy County (NAD 83)  
**Structure / Slot:** Davinci 7-18 Federal Pad / New Slot  
**Well:** Davinci 7-18 Federal Com #35H  
**Borehole:** Davinci 7-18 Federal Com #35H  
**UVI / API#:** Unknown / Unknown  
**Survey Name:** Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21  
**Survey Date:** May 24, 2021  
**Tort / AHD / DDI / ERD Ratio:** 108.870 ° / 12378.340 ft / 6.448 / 1.303  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 9' 3.38513", W 104° 13' 33.47447"  
**Location Grid N/E Y/X:** N 418664.020 ftUS, E 574565.730 ftUS  
**CRS Grid Convergence Angle:** 0.0571 °  
**Grid Scale Factor:** 0.99991036  
**Version / Patch:** 2.10.825.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 179.853 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3329.200 ft above MSL  
**Seabed / Ground Elevation:** 3306.200 ft above MSL  
**Magnetic Declination:** 7.030 °  
**Total Gravity Field Strength:** 998.4349mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47629.679 nT  
**Magnetic Dip Angle:** 59.768 °  
**Declination Date:** May 24, 2021  
**Magnetic Declination Model:** HDGM 2021  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.0571 °  
**Total Corr Mag North->Grid**  
**North:** 6.9731 °  
**Local Coord Referenced To:** Well Head

| Comments  | MD (ft)  | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft)   | EW (ft)  | DLS (°/100ft) | Northing (ftUS) | Easting (ftUS) | Latitude (°) | Longitude (°) |
|---|----------|----------|---------------|----------|-----------|-----------|----------|---------------|-----------------|----------------|--------------|---------------|
| SHL [330' FNL, 1550' FWL]   | 0.00     | 0.00     | 0.00          | 0.00     | 0.00      | 0.00      | 0.00     | N/A           | 418664.02       | 574565.73      | 32.15        | -104.23       |
| Nudge 2°/100' DLS   | 1500.00  | 0.00     | 270.75        | 1500.00  | 0.00      | 0.00      | 0.00     | 418664.02     | 574565.73       | 32.15          | -104.23      |               |
| Hold Nudge KOP - Build 12°/100' DLS   | 2340.00  | 16.80    | 270.75        | 2328.02  | -1.92     | 1.61      | -122.26  | 2.00          | 418665.63       | 574443.48      | 32.15        | -104.23       |
| Build & Turn 12°/100' DLS   | 9289.20  | 16.80    | 270.75        | 8980.62  | -33.53    | 28.06     | -2130.63 | 0.00          | 418692.08       | 572435.30      | 32.15        | -104.23       |
| Build 4°/100' DLS   | 9595.09  | 35.00    | 186.82        | 9262.01  | 55.93     | -61.55    | -2187.19 | 12.00         | 418602.48       | 572378.74      | 32.15        | -104.23       |
| Landing Point Cimarex Davinci 7-18 Federal Com #35H - PBHL [100' FSL, 1535'FWL] | 9931.45  | 75.00    | 179.85        | 9451.19  | 325.37    | -331.01   | -2198.71 | 12.00         | 418333.04       | 572367.22      | 32.15        | -104.23       |
|   | 10306.45 | 90.00    | 179.85        | 9500.00  | 696.10    | -701.74   | -2197.76 | 4.00          | 417962.34       | 572368.17      | 32.15        | -104.23       |
|   | 19797.74 | 90.00    | 179.85        | 9500.00  | 10187.39  | -10193.00 | -2173.41 | 0.00          | 408471.95       | 572392.52      | 32.12        | -104.23       |

**Survey Type:** Non-Def Plan

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

| Description | Part | MD From (ft) | MD To (ft) | EOU Freq (ft) | Hole Size (in) | Casing Diameter (in) | Expected Max Inclination (deg) | Survey Tool Type           | Borehole / Survey   |
|-------------|------|--------------|------------|---------------|----------------|----------------------|--------------------------------|----------------------------|---|
|             | 1    | 0.000        | 23.000     | 1/100.000     | 17.500         | 13.375               |                                | NAL_MWD_IFR1+MS-Depth Only | Davinci 7-18 Federal Com #35H / Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 |
|             | 1    | 23.000       | 19797.738  | 1/100.000     | 17.500         | 13.375               |                                | NAL_MWD_IFR1+MS            | Davinci 7-18 Federal Com #35H / Cimarex Davinci 7-18 Federal                          |



## Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 Anti-Collision Summary Report

|                          |                               |                       |  |
|--------------------------|-------------------------------|-----------------------|--|
| Analysis Date-24hr Time: | May 24, 2021 - 17:28          | Analysis Method:      | 3D Least Distance  |
| Client:                  | Cimarex Energy                | Reference Trajectory: | Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 (Non-Def Plan) |
| Field:                   | NM Eddy County (NAD 83)       | Depth Interval:       | Every 10.00 Measured Depth (ft)                                      |
| Structure:               | Davinci 7-18 Federal Pad      | Rule Set:             | NAL Procedure: D&M AntiCollision Standard S002                       |
| Slot:                    | New Slot                      | Min Pts:              | All local minima indicated.  |
| Well:                    | Davinci 7-18 Federal Com #35H | Version / Patch:      | 2.10.825.0   |
| Borehole:                | Davinci 7-18 Federal Com #35H | Database \ Project:   | us1455vsm3115drilling-NM Eddy County 2.10                            |
| Scan MD Range:           | 0.00ft ~ 19797.74ft           |                       |  |

ISCWASO 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

### Trajectory Error Model:

### Offset Trajectories Summary

#### Offset Selection Criteria

Wellhead distance scan: Not performed!

Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans

Selection filters: - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

| Offset Trajectory | Separation |          |          | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert | Status |
|-------------------|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------|--------|
|                   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |            |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |       |        |

Results highlighted: Sep-Factor separation <= 1.50 ft

|   |             |
|---|-------------|
| API 30-015-33496 Cimarex Gadwell 18 Federal Com #1 (Offset) P Gas Inc Only 0ft-12250ft (Def Survey) | Fail Major  |
| 6256.20 32.81 6254.92 6223.39 N/A MAS = 10.00 (m) 0.00 0.00   | Surface     |
| 6255.79 32.81 6254.43 6222.98 85165.58 MAS = 10.00 (m) 23.00 23.00                                  | MinPt-O-SF  |
| 6253.10 32.81 6241.26 6220.25 592.69 MAS = 10.00 (m) 430.00 430.00                                  | MinPts      |
| 6256.86 32.81 6236.88 6224.05 334.68 MAS = 10.00 (m) 750.00 750.00                                  | MINPT-O-EOU |
| 6254.13 69.97 6207.06 6184.16 136.55 OSF1.50 1490.00 1490.00  | MinPt-CtCt  |
| 1623.78 492.45 1293.13 1131.32 5.00 OSF1.50 13830.00 9500.00  | OSF<5.00    |
| 493.90 494.40 161.46 -0.50 1.50 OSF1.50 14960.00 9500.00  | OSF<1.50    |
| 323.95 494.62 -8.72 -170.68 0.97 OSF1.50 15130.00 9500.00   | OSF<1.00    |
| 3.42 502.44 -326.02 -493.02 0.01 OSF1.50 15450.00 9500.00   | Enter Major |
| 10.57 505.14 -326.62 -494.57 0.03 OSF1.50 15460.00 9500.00  | MinPts      |
| 316.24 488.31 -9.72 -172.06 0.97 OSF1.50 15770.00 9500.00   | MinPt-O-ADP |
| 486.19 488.27 160.24 -2.08 1.49 OSF1.50 15940.00 9500.00  | OSF>1.00    |
| 1626.05 488.86 1299.72 1137.20 5.00 OSF1.50 17080.00 9500.00  | OSF>5.00    |
| 4343.55 490.97 4015.80 3852.58 13.30 OSF1.50 19797.74 9500.00                                       | TD          |

|  |             |
|--|-------------|
| API 30-015-23094 Chevron Mona Lisa #2 (Offset) P Gas Inc Only 0ft-11970ft (Def Survey) | Fail Major  |
| 3924.19 32.81 3922.90 3891.38 N/A MAS = 10.00 (m) 0.00 0.00                            | Surface     |
| 3923.76 32.81 3922.40 3890.95 59447.45 MAS = 10.00 (m) 23.00 23.00                     | MinPt-O-SF  |
| 3923.11 32.81 3918.93 3890.30 1352.40 MAS = 10.00 (m) 230.00 230.00                    | MinPts      |
| 3922.24 36.68 3897.35 3885.55 166.16 OSF1.50 820.00 820.00                             | MinPt-CtCt  |
| 3924.86 44.61 3894.71 3880.26 135.86 OSF1.50 1060.00 1060.00                           | MINPT-O-EOU |
| 3920.93 69.92 3873.95 3851.07 85.67 OSF1.50 1460.00 1460.00                            | MinPt-CIC   |
| 3921.63 71.20 3873.73 3850.42 84.11 OSF1.50 1560.00 1560.00                            | MINPT-O-EOU |
| 3370.93 427.15 3085.74 2943.81 11.87 OSF1.50 8500.00 8301.69                           | MinPt-CtCt  |
| 1623.80 491.90 1294.68 1131.89 4.98 OSF1.50 11330.00 9500.00                           | OSF<5.00    |
| 488.38 495.09 156.92 -6.72 1.48 OSF1.50 12480.00 9500.00                               | OSF<1.50    |
| 329.14 496.05 -2.80 -166.90 0.99 OSF1.50 12650.00 9500.00                              | OSF<1.00    |
| 140.09 495.51 -190.68 -355.43 0.42 OSF1.50 12940.00 9500.00                            | Enter Major |
| 139.87 495.03 -190.58 -355.16 0.42 OSF1.50 12950.00 9500.00                            | MinPts      |
| 323.71 488.65 -2.49 -164.94 0.99 OSF1.50 13240.00 9500.00                              | MinPts      |
| 482.61 489.15 156.08 -6.54 1.48 OSF1.50 13410.00 9500.00                               | OSF>1.00    |
| 1627.57 491.73 1299.32 1135.84 4.97 OSF1.50 14570.00 9500.00                           | OSF>5.00    |
| 6849.91 494.65 6519.72 6355.26 20.82 OSF1.50 19797.74 9500.00                          | TD          |

|  |             |
|--|-------------|
| Cimarex Da Vinci 7 Federal Com #4H MWD 0ft to 12076ft (Def Survey)   | Fail Minor  |
| 5191.85 32.81 5190.56 5159.04 N/A MAS = 10.00 (m) 0.00 0.00          | Surface     |
| 5191.40 32.81 5190.03 5158.59 65799.72 MAS = 10.00 (m) 23.00 23.00   | MinPt-O-SF  |
| 5184.73 32.81 5180.98 5151.98 2061.83 MAS = 10.00 (m) 580.00 580.00  | MinPts      |
| 5172.59 32.81 5164.20 5139.78 728.38 MAS = 10.00 (m) 1780.00 1779.55 | MinPt-O-SF  |
| 353.83 107.05 282.03 246.77 5.00 OSF1.50 7190.00 6971.01             | OSF<5.00    |
| 153.56 153.60 50.65 -0.04 1.50 OSF1.50 7440.00 7210.34               | OSF<1.50    |
| 132.16 189.33 5.50 -57.17 1.04 OSF1.50 7520.00 7286.93               | OSF<1.00    |
| 132.67 191.71 4.43 -59.05 1.03 OSF1.50 7530.00 7296.50               | Enter Major |
| 133.93 193.36 4.59 -59.43 1.04 OSF1.50 7540.00 7306.08               | MinPts      |
| 179.70 180.77 58.75 -1.07 1.49 OSF1.50 7640.00 7401.81               | Exit Minor  |
| 451.54 139.27 358.26 312.27 4.89 OSF1.50 7950.00 7698.58             | OSF>1.50    |
| 2271.07 95.48 2206.93 2175.56 36.15 OSF1.50 10710.00 9500.00         | OSF>5.00    |
| 2264.19 90.64 2203.34 2173.53 37.99 OSF1.50 10980.00 9500.00         | MinPt-O-ADP |
| 2263.98 90.34 2203.32 2173.64 38.11 OSF1.50 10990.00 9500.00         | MINPT-O-EOU |
| 2258.04 87.50 2199.23 2170.54 39.27 OSF1.50 11230.00 9500.00         | MinPt-O-ADP |
| 2257.89 87.33 2199.23 2170.56 39.34 OSF1.50 11250.00 9500.00         | MINPT-O-EOU |
| 2234.24 81.65 2179.38 2152.60 41.68 OSF1.50 11810.00 9500.00         | MinPt-CIC   |
| 2234.27 81.68 2179.38 2152.58 41.66 OSF1.50 11820.00 9500.00         | MinPts      |
| 2239.46 82.39 2184.10 2157.07 41.43 OSF1.50 12000.00 9500.00         | MinPt-O-SF  |
| 2240.14 79.67 2186.60 2160.47 42.85 OSF1.50 12320.00 9500.00         | MinPt-CIC   |
| 2240.16 79.73 2186.53 2160.43 42.81 OSF1.50 12330.00 9500.00         | MINPT-O-EOU |
| 2240.21 79.79 2186.53 2160.42 42.78 OSF1.50 12340.00 9500.00         | MinPt-O-ADP |
| 2246.09 80.97 2191.68 2165.12 42.26 OSF1.50 12550.00 9500.00         | MinPt-O-SF  |
| 2245.13 80.37 2191.14 2164.78 42.56 OSF1.50 12680.00 9500.00         | MinPt-CIC   |
| 2245.24 80.64 2191.05 2164.60 42.42 OSF1.50 12710.00 9500.00         | MINPT-O-EOU |
| 2245.31 80.73 2191.05 2164.58 42.37 OSF1.50 12720.00 9500.00         | MinPt-O-ADP |
| 2245.27 81.28 2191.66 2164.99 42.10 OSF1.50 12780.00 9500.00         | MinPt-O-SF  |
| 2245.91 81.57 2191.11 2164.35 41.94 OSF1.50 12890.00 9500.00         | MinPt-CIC   |

| Offset Trajectory | Separation |          |          | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status |
|-------------------|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
|                   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |            |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |        |
| 2246.04           | 81.93      | 2191.00  | 2164.12  | 41.76           | OSF1.50    | 12930.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2246.11           | 82.01      | 2191.01  | 2164.10  | 41.71           | OSF1.50    | 12940.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 2246.56           | 82.76      | 2190.96  | 2163.80  | 41.34           | OSF1.50    | 13040.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2246.73           | 82.97      | 2190.95  | 2163.76  | 41.24           | OSF1.50    | 13060.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 2257.02           | 85.85      | 2199.36  | 2171.17  | 40.01           | OSF1.50    | 13330.00         | 9500.00              |          |            |       |       | MinPt-O-SF  |        |
| 2269.27           | 95.06      | 2205.47  | 2174.21  | 36.28           | OSF1.50    | 14060.00         | 9500.00              |          |            |       |       | MinPt-CIC   |        |
| 2269.43           | 95.47      | 2205.36  | 2173.96  | 36.12           | OSF1.50    | 14090.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2269.54           | 95.60      | 2205.38  | 2173.94  | 36.07           | OSF1.50    | 14100.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 2339.63           | 102.42     | 2270.92  | 2237.21  | 34.63           | OSF1.50    | 14710.00         | 9500.00              |          |            |       |       | MinPt-O-SF  |        |
| 5813.99           | 103.65     | 5744.46  | 5710.34  | 85.18           | OSF1.50    | 19797.74         | 9500.00              |          |            |       |       | TD          |        |

|  |        |         |         |          |                |          |         |                 |  |  |  |  |               |
|--|--------|---------|---------|----------|----------------|----------|---------|-----------------|--|--|--|--|---------------|
| Cimarex Davinci 7-18 Federal Com #34H Rev1 RM 24May21 (Non-Def Plan) |        |         |         |          |                |          |         |                 |  |  |  |  | Warning Alert |
| 19.95  | 16.22  | 18.67   | 3.73    | N/A      | MAS = 4.94 (m) | 0.00     | 0.00    | CtCt<=15m<15.00 |  |  |  |  | Enter Alert   |
| 19.95  | 16.22  | 18.67   | 3.73    | 16803.44 | MAS = 4.94 (m) | 23.00    | 23.00   |                 |  |  |  |  | WRP           |
| 19.95  | 16.22  | 9.63    | 3.73    | 2.06     | MAS = 4.94 (m) | 1500.00  | 1500.00 |                 |  |  |  |  | MinPts        |
| 19.97  | 16.22  | 9.60    | 3.75    | 2.06     | MAS = 4.94 (m) | 1510.00  | 1510.00 |                 |  |  |  |  | MINPT-O-EOU   |
| 20.11  | 16.22  | 9.64    | 3.85    | 2.05     | MAS = 4.94 (m) | 1530.00  | 1530.00 |                 |  |  |  |  | MinPt-O-SF    |
| 55.22  | 17.60  | 43.06   | 37.62   | 4.96     | OSF1.50        | 1950.00  | 1948.15 | OSF>5.00        |  |  |  |  | Exit Alert    |
| 531.71   | 66.02  | 487.27  | 465.70  | 12.29    | OSF1.50        | 7090.00  | 6875.28 |                 |  |  |  |  | MinPt-O-SF    |
| 1164.53  | 82.32  | 1109.26 | 1082.25 | 21.53    | OSF1.50        | 10880.00 | 9500.00 |                 |  |  |  |  | MinPt-CIC     |
| 1164.90  | 330.23 | 944.32  | 834.61  | 5.31     | OSF1.50        | 19790.00 | 9500.00 |                 |  |  |  |  | MinPts        |
| 1164.93  | 329.98 | 944.52  | 834.96  | 5.31     | OSF1.50        | 19797.74 | 9500.00 |                 |  |  |  |  | TD            |

|  |        |         |         |          |                |          |         |                 |  |  |  |  |               |
|--|--------|---------|---------|----------|----------------|----------|---------|-----------------|--|--|--|--|---------------|
| Cimarex Davinci 7-18 Federal Com #33H Rev2 RM 24May21 (Non-Def Plan) |        |         |         |          |                |          |         |                 |  |  |  |  | Warning Alert |
| 40.02  | 32.27  | 38.73   | 7.75    | N/A      | MAS = 9.84 (m) | 0.00     | 0.00    | CtCt<=15m<15.00 |  |  |  |  | Enter Alert   |
| 40.02  | 32.27  | 38.73   | 7.75    | 15846.87 | MAS = 9.84 (m) | 23.00    | 23.00   |                 |  |  |  |  | WRP           |
| 40.02  | 32.27  | 29.69   | 7.75    | 4.28     | MAS = 9.84 (m) | 1500.00  | 1500.00 |                 |  |  |  |  | MinPts        |
| 40.03  | 32.27  | 29.66   | 7.76    | 4.26     | MAS = 9.84 (m) | 1510.00  | 1510.00 |                 |  |  |  |  | MINPT-O-EOU   |
| 40.64  | 32.27  | 30.03   | 8.31    | 4.22     | MAS = 9.84 (m) | 1560.00  | 1560.00 |                 |  |  |  |  | MinPt-O-SF    |
| 50.92  | 32.27  | 39.57   | 18.64   | 4.93     | MAS = 9.84 (m) | 1750.00  | 1749.68 | OSF>5.00        |  |  |  |  | Exit Alert    |
| 2276.79  | 89.01  | 2217.02 | 2187.78 | 38.91    | OSF1.50        | 9990.00  | 9465.19 |                 |  |  |  |  | MinPt-O-SF    |
| 2277.58  | 330.22 | 2057.03 | 1947.35 | 10.38    | OSF1.50        | 19790.00 | 9500.00 |                 |  |  |  |  | MinPts        |
| 2277.62  | 330.22 | 2057.05 | 1947.40 | 10.38    | OSF1.50        | 19797.74 | 9500.00 |                 |  |  |  |  | TD            |

|  |        |        |        |          |                 |          |         |          |  |  |  |  |               |
|--|--------|--------|--------|----------|-----------------|----------|---------|----------|--|--|--|--|---------------|
| Cimarex Davinci 7-18 Federal Com #38H Rev0 RM 24May21 (Non-Def Plan) |        |        |        |          |                 |          |         |          |  |  |  |  | Warning Alert |
| 116.69   | 32.81  | 115.40 | 83.88  | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |          |  |  |  |  | Surface       |
| 116.69   | 32.81  | 115.39 | 83.88  | 17313.17 | MAS = 10.00 (m) | 23.00    | 23.00   |          |  |  |  |  | WRP           |
| 111.21   | 32.81  | 99.36  | 78.40  | 10.41    | MAS = 10.00 (m) | 2310.00  | 2299.25 |          |  |  |  |  | MinPts        |
| 111.26   | 32.81  | 99.33  | 78.45  | 10.33    | MAS = 10.00 (m) | 2330.00  | 2318.44 |          |  |  |  |  | MINPT-O-EOU   |
| 134.54   | 41.30  | 106.57 | 93.23  | 4.99     | OSF1.50         | 4700.00  | 4587.29 | OSF<5.00 |  |  |  |  | Enter Alert   |
| 153.57   | 60.88  | 112.55 | 92.65  | 3.83     | OSF1.50         | 6320.00  | 6138.15 |          |  |  |  |  | MinPt-O-ADP   |
| 179.63   | 87.77  | 120.66 | 91.83  | 3.09     | OSF1.50         | 8490.00  | 8215.53 |          |  |  |  |  | MinPt-CIC     |
| 179.77   | 88.26  | 120.50 | 91.50  | 3.08     | OSF1.50         | 8520.00  | 8244.25 |          |  |  |  |  | MINPT-O-EOU   |
| 179.93   | 88.43  | 120.55 | 91.50  | 3.08     | OSF1.50         | 8530.00  | 8253.82 |          |  |  |  |  | MinPt-O-ADP   |
| 180.49   | 88.76  | 120.89 | 91.73  | 3.07     | OSF1.50         | 8550.00  | 8272.97 |          |  |  |  |  | MinPt-O-SF    |
| 258.78   | 80.52  | 204.67 | 178.26 | 4.87     | OSF1.50         | 8840.00  | 8550.59 | OSF>5.00 |  |  |  |  | Exit Alert    |
| 973.59   | 293.03 | 777.81 | 680.56 | 5.00     | OSF1.50         | 19290.00 | 9500.00 |          |  |  |  |  | Enter Alert   |
| 973.59   | 308.51 | 767.49 | 665.08 | 4.75     | OSF1.50         | 19790.00 | 9500.00 |          |  |  |  |  | MinPt-CIC     |
| 973.59   | 308.63 | 767.41 | 664.96 | 4.75     | OSF1.50         | 19797.74 | 9500.00 |          |  |  |  |  | MinPts        |

|   |        |         |         |           |                 |            |         |  |  |  |  |  |               |
|---|--------|---------|---------|-----------|-----------------|------------|---------|--|--|--|--|--|---------------|
| Cimarex Davinci 7-18 Federal Com #6H Off-18854ft (Def Survey) |        |         |         |           |                 |            |         |  |  |  |  |  | Warning Alert |
| 2614.37   | 32.81  | 2612.39 | 2581.56 | N/A       | MAS = 10.00 (m) | 0.00       | 0.00    |  |  |  |  |  | Surface       |
| 2614.30   | 32.81  | 2612.32 | 2581.50 | 290759.76 | MAS = 10.00 (m) | 10.00      | 10.00   |  |  |  |  |  | MinPt-O-ADP   |
| 2614.28   | 32.81  | 2612.30 | 2581.47 | 910518.80 | MAS = 10.00 (m) | 20.00      | 20.00   |  |  |  |  |  | MINPT-O-EOU   |
| 2614.28   | 32.81  | 2612.30 | 2581.47 | N/A       | MAS = 10.00 (m) | 23.00      | 23.00   |  |  |  |  |  | WRP           |
| 2614.28   | 32.81  | 2612.26 | 2581.47 | 69161.27  | MAS = 10.00 (m) | 40.00      | 40.00   |  |  |  |  |  | MinPts        |
| 2614.32   | 32.81  | 2612.20 | 2581.51 | 18673.75  | MAS = 10.00 (m) | 80.00      | 80.00   |  |  |  |  |  | MINPT-O-EOU   |
| 2614.44   | 32.81  | 2612.21 | 2581.63 | 10707.30  | MAS = 10.00 (m) | 110.00     | 110.00  |  |  |  |  |  | MINPT-O-EOU   |
| 2620.97   | 32.81  | 2615.77 | 2588.16 | 813.25    | MAS = 10.00 (m) | 780.00     | 780.00  |  |  |  |  |  | MinPts        |
| 2621.09   | 32.81  | 2615.67 | 2588.28 | 761.21    | MAS = 10.00 (m) | 830.00     | 830.00  |  |  |  |  |  | MINPT-O-EOU   |
| 1228.29   | 78.29  | 1174.84 | 1150.00 | 24.65     | OSF1.50         | 9140.00    | 8837.79 |  |  |  |  |  | MinPt-CIC     |
| 1228.35   | 78.52  | 1174.74 | 1149.82 | 24.58     | OSF1.50         | 9160.00    | 8856.93 |  |  |  |  |  | MINPT-O-EOU   |
| 1228.52   | 78.74  | 1174.77 | 1149.78 | 24.50     | OSF1.50         | 9180.00    | 8876.08 |  |  |  |  |  | MinPt-O-ADP   |
| 1232.77   | 79.79  | 1178.36 | 1152.98 | 24.22     | OSF1.50         | 9300.00    | 8990.97 |  |  |  |  |  | MinPt-O-SF    |
| 1361.03   | 111.14 | 1286.06 | 1249.92 | 18.79     | OSF1.50         | 11220.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1360.23   | 136.93 | 1268.03 | 1223.30 | 15.17     | OSF1.50         | 12160.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1356.33   | 174.46 | 1239.11 | 1181.88 | 11.82     | OSF1.50         | 12050.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1357.98   | 179.31 | 1237.52 | 1176.87 | 11.51     | OSF1.50         | 12160.00   | 9500.00 |  |  |  |  |  | MINPT-O-EOU   |
| 1358.91   | 180.69 | 1237.52 | 1176.21 | 11.43     | OSF1.50         | 12190.00   | 9500.00 |  |  |  |  |  | MINPT-O-EOU   |
| 1362.13   | 192.99 | 1232.59 | 1169.17 | 10.72     | OSF1.50         | 12450.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1364.03   | 212.80 | 1221.31 | 1151.29 | 9.72      | OSF1.50         | 12880.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1369.61   | 264.96 | 1192.06 | 1104.64 | 7.82      | OSF1.50         | 13990.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1369.57   | 270.79 | 1188.14 | 1098.78 | 7.65      | OSF1.50         | 14110.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1371.13   | 275.33 | 1186.67 | 1095.79 | 7.53      | OSF1.50         | 14210.00   | 9500.00 |  |  |  |  |  | MINPT-O-EOU   |
| 1377.81   | 296.20 | 1179.44 | 1081.61 | 7.03      | OSF1.50         | 14640.00   | 9500.00 |  |  |  |  |  | MINPT-O-EOU   |
| 1380.09   | 298.95 | 1179.83 | 1081.14 | 6.97      | OSF1.50         | 14700.00   | 9500.00 |  |  |  |  |  | MinPt-O-ADP   |
| 1379.73   | 329.60 | 1159.15 | 1050.19 | 6.32      | OSF1.50         | 15300.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1375.82   | 354.76 | 1138.40 | 1021.07 | 5.85      | OSF1.50         | 15800.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1375.42   | 371.30 | 1126.96 | 1004.12 | 5.59      | OSF1.50         | 16130.00   | 9500.00 |  |  |  |  |  | MinPt-CIC     |
| 1363.93   | 403.44 | 1094.11 | 960.55  | 5.10      | OSF1.50         | 16810.00</ |         |  |  |  |  |  |               |

| Offset Trajectory   | Separation |          |          | Allow Dev. (ft) | Sep. Fact.      | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status |
|---|------------|----------|----------|-----------------|-----------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
|   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |                 |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |        |
| <b>Cimarex DaVinci 7-18 Federal Com #32H Rev1 RM 24May21<br/>(Non-Def Plan)</b>   |            |          |          |                 |                 |                  |                      |          |            |       |       |             |        |
| 60.00   | 32.81      | 58.71    | 27.19    | N/A             | MAS = 10.00 (m) | 0.00             | 0.00                 |          |            |       |       | Surface     |        |
| 60.00   | 32.81      | 58.71    | 27.19    | 15544.68        | MAS = 10.00 (m) | 23.00            | 23.00                |          |            |       |       | WRP         |        |
| 60.00   | 32.81      | 49.67    | 27.19    | 6.49            | MAS = 10.00 (m) | 1500.00          | 1500.00              |          |            |       |       | MinPts      |        |
| 60.02   | 32.81      | 49.64    | 27.21    | 6.46            | MAS = 10.00 (m) | 1510.00          | 1510.00              |          |            |       |       | MINPT-O-EOU |        |
| 61.41   | 32.81      | 50.65    | 28.61    | 6.35            | MAS = 10.00 (m) | 1590.00          | 1589.99              |          |            |       |       | MinPt-O-SF  |        |
| 2039.92   | 48.84      | 2006.93  | 1991.06  | 64.30           | OSF1.50         | 6030.00          | 5860.52              |          |            |       |       | MinPt-O-SF  |        |
| 2435.05   | 60.87      | 2394.04  | 2374.18  | 61.27           | OSF1.50         | 7390.00          | 7162.48              |          |            |       |       | MinPt-O-SF  |        |
| 3622.71   | 58.81      | 3583.07  | 3563.90  | 94.44           | OSF1.50         | 10350.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 3623.12   | 321.16     | 3408.53  | 3301.96  | 16.98           | OSF1.50         | 19797.74         | 9500.00              |          |            |       |       | MinPts      |        |
| <b>Final Surveys - Cimarex DaVinci<br/>7-18 Federal Com #30H 0ft to<br/>17841ft (Surcon Corrected)<br/>(Def Survey)</b> |            |          |          |                 |                 |                  |                      |          |            |       |       |             |        |
| 134.24  | 32.81      | 132.95   | 101.43   | 280100.98       | MAS = 10.00 (m) | 0.00             | 0.00                 |          |            |       |       | Surface     |        |
| 134.20  | 32.81      | 132.90   | 101.39   | 7501.42         | MAS = 10.00 (m) | 23.00            | 23.00                |          |            |       |       | WRP         |        |
| 133.43  | 32.81      | 131.73   | 100.62   | 375.77          | MAS = 10.00 (m) | 130.00           | 130.00               |          |            |       |       | MinPts      |        |
| 133.45  | 32.81      | 131.73   | 100.64   | 342.24          | MAS = 10.00 (m) | 140.00           | 140.00               |          |            |       |       | MINPT-O-EOU |        |
| 104.50  | 32.81      | 96.71    | 71.69    | 15.53           | MAS = 10.00 (m) | 1510.00          | 1510.00              |          |            |       |       | MinPts      |        |
| 104.50  | 32.81      | 96.69    | 71.69    | 15.48           | MAS = 10.00 (m) | 1520.00          | 1520.00              |          |            |       |       | MINPT-O-EOU |        |
| 105.77  | 32.81      | 97.81    | 72.96    | 15.33           | MAS = 10.00 (m) | 1600.00          | 1599.98              |          |            |       |       | MinPt-O-SF  |        |
| 329.60  | 32.81      | 317.65   | 296.75   | 30.05           | MAS = 10.00 (m) | 3010.00          | 2969.42              |          |            |       |       | MinPt-O-SF  |        |
| 694.28  | 37.83      | 668.72   | 656.45   | 28.25           | OSF1.50         | 5500.00          | 5353.14              |          |            |       |       | MinPt-O-SF  |        |
| 1323.62   | 57.08      | 1285.23  | 1266.54  | 35.39           | OSF1.50         | 7940.00          | 7689.00              |          |            |       |       | MinPt-O-SF  |        |
| 2379.25   | 37.31      | 2354.04  | 2341.94  | 98.29           | OSF1.50         | 10360.00         | 9500.00              |          |            |       |       | MinPt-O-SF  |        |
| 2349.53   | 51.49      | 2314.91  | 2298.08  | 69.80           | OSF1.50         | 11500.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2345.37   | 67.34      | 2300.14  | 2278.04  | 53.02           | OSF1.50         | 12170.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2345.47   | 67.66      | 2300.03  | 2277.82  | 52.77           | OSF1.50         | 12200.00         | 9500.00              |          |            |       |       | MINPT-O-ADP |        |
| 2345.64   | 67.88      | 2300.05  | 2277.77  | 52.60           | OSF1.50         | 12220.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 2357.24   | 73.81      | 2307.68  | 2283.42  | 48.55           | OSF1.50         | 12530.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2359.77   | 82.92      | 2304.15  | 2276.85  | 43.20           | OSF1.50         | 12760.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2358.12   | 91.47      | 2296.81  | 2266.66  | 39.09           | OSF1.50         | 13080.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2361.12   | 108.28     | 2288.59  | 2252.84  | 33.01           | OSF1.50         | 13680.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2359.53   | 141.90     | 2264.59  | 2217.63  | 25.11           | OSF1.50         | 14840.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2366.28   | 161.49     | 2258.23  | 2204.79  | 22.11           | OSF1.50         | 15540.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2366.96   | 162.40     | 2258.35  | 2204.56  | 21.99           | OSF1.50         | 15580.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 2375.83   | 191.86     | 2247.62  | 2184.01  | 18.67           | OSF1.50         | 16530.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2376.22   | 195.96     | 2245.24  | 2180.26  | 18.28           | OSF1.50         | 16670.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2373.42   | 211.85     | 2231.85  | 2161.57  | 16.88           | OSF1.50         | 17200.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2376.60   | 221.69     | 2228.47  | 2154.91  | 16.15           | OSF1.50         | 17570.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2380.39   | 226.84     | 2226.82  | 2153.55  | 15.81           | OSF1.50         | 17750.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2389.01   | 242.13     | 2227.25  | 2146.88  | 14.86           | OSF1.50         | 18250.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 2370.93   | 289.27     | 2177.71  | 2081.63  | 12.33           | OSF1.50         | 19780.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 2370.93   | 289.28     | 2177.74  | 2081.66  | 12.33           | OSF1.50         | 19790.00         | 9500.00              |          |            |       |       | MinPts      |        |
| 2370.93   |            |          |          |                 |                 |                  |                      |          |            |       |       | TD          |        |
| <b>Cimarex DaVinci 7-18 Federal Com #37H Rev0 RM 24May21<br/>(Non-Def Plan)</b>   |            |          |          |                 |                 |                  |                      |          |            |       |       |             |        |
| 134.23  | 32.81      | 132.94   | 101.42   | N/A             | MAS = 10.00 (m) | 0.00             | 0.00                 |          |            |       |       | Surface     |        |
| 134.23  | 32.81      | 132.93   | 101.42   | 16171.13        | MAS = 10.00 (m) | 23.00            | 23.00                |          |            |       |       | WRP         |        |
| 134.23  | 32.81      | 123.89   | 101.42   | 14.69           | MAS = 10.00 (m) | 1500.00          | 1500.00              |          |            |       |       | MinPts      |        |
| 134.29  | 32.81      | 123.85   | 101.48   | 14.54           | MAS = 10.00 (m) | 1520.00          | 1520.00              |          |            |       |       | MINPT-O-EOU |        |
| 138.19  | 32.81      | 127.16   | 105.38   | 14.06           | MAS = 10.00 (m) | 1660.00          | 1659.92              |          |            |       |       | MinPt-O-SF  |        |
| 473.68  | 35.58      | 449.53   | 438.16   | 20.66           | OSF1.50         | 4430.00          | 4328.81              |          |            |       |       | MinPt-O-SF  |        |
| 2098.97   | 311.91     | 1890.63  | 1787.06  | 10.13           | OSF1.50         | 19790.00         | 9500.00              |          |            |       |       | MinPts      |        |
| 2099.01   | 311.87     | 1890.66  | 1787.14  | 10.13           | OSF1.50         | 19797.74         | 9500.00              |          |            |       |       | TD          |        |
| <b>Final Surveys - Cimarex DaVinci<br/>7-18 Federal Com #29H 0ft to<br/>19312ft (Surcon Corrected)<br/>(Def Survey)</b> |            |          |          |                 |                 |                  |                      |          |            |       |       |             |        |
| 152.33  | 32.81      | 151.05   | 119.53   | 659692.75       | MAS = 10.00 (m) | 0.00             | 0.00                 |          |            |       |       | Surface     |        |
| 152.32  | 32.81      | 151.02   | 119.51   | 14226.62        | MAS = 10.00 (m) | 23.00            | 23.00                |          |            |       |       | WRP         |        |
| 147.97  | 32.81      | 145.33   | 115.16   | 108.75          | MAS = 10.00 (m) | 360.00           | 360.00               |          |            |       |       | MinPts      |        |
| 147.99  | 32.81      | 145.31   | 115.18   | 105.45          | MAS = 10.00 (m) | 370.00           | 370.00               |          |            |       |       | MINPT-O-EOU |        |
| 151.14  | 32.81      | 143.90   | 118.33   | 24.56           | MAS = 10.00 (m) | 1380.00          | 1380.00              |          |            |       |       | MinPts      |        |
| 151.18  | 32.81      | 143.85   | 118.37   | 24.22           | MAS = 10.00 (m) | 1400.00          | 1400.00              |          |            |       |       | MINPT-O-EOU |        |
| 155.59  | 32.81      | 147.74   | 122.75   | 22.98           | MAS = 10.00 (m) | 1570.00          | 1569.99              |          |            |       |       | MinPt-O-SF  |        |
| 1245.83   | 32.81      | 1227.28  | 1213.03  | 71.01           | MAS = 10.00 (m) | 4490.00          | 4386.25              |          |            |       |       | MinPt-O-SF  |        |
| 2069.92   | 43.45      | 2031.62  | 2017.47  | 72.82           | OSF1.50         | 6410.00          | 6224.31              |          |            |       |       | MinPt-O-SF  |        |
| 2237.16   | 46.96      | 2205.52  | 2190.21  | 73.02           | OSF1.50         | 6840.00          | 6635.95              |          |            |       |       | MinPt-O-SF  |        |
| 2466.03   | 52.10      | 2430.96  | 2413.93  | 72.35           | OSF1.50         | 7400.00          | 7172.05              |          |            |       |       | MinPt-O-SF  |        |
| 2812.75   | 58.46      | 2773.44  | 2754.29  | 73.43           | OSF1.50         | 8220.00          | 7957.05              |          |            |       |       | MinPt-O-SF  |        |
| 2891.04   | 60.08      | 2850.64  | 2830.96  | 73.40           | OSF1.50         | 8410.00          | 8138.94              |          |            |       |       | MinPt-O-SF  |        |
| 3082.03   | 63.77      | 3039.18  | 3018.26  | 73.65           | OSF1.50         | 8850.00          | 8560.17              |          |            |       |       | MinPt-O-SF  |        |
| 3165.28   | 65.47      | 3121.29  | 3099.81  | 73.64           | OSF1.50         | 9050.00          | 8751.63              |          |            |       |       | MinPt-O-SF  |        |
| 3262.70   | 70.53      | 3215.34  | 3192.17  | 70.39           | OSF1.50         | 9269.20          | 8980.62              |          |            |       |       | MinPt-O-SF  |        |
| 3304.12   | 70.37      | 3256.86  | 3233.75  | 71.44           | OSF1.50         | 9460.00          | 9143.28              |          |            |       |       | MinPt-O-SF  |        |
| 3402.62   | 78.62      | 3349.88  | 3324.00  | 65.72           | OSF1.50         | 10770.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 3402.76   | 78.95      | 3349.81  | 3323.81  | 65.45           | OSF1.50         | 10810.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 3402.83   | 79.03      | 3349.81  | 3323.75  | 65.38           | OSF1.50         | 10820.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 3409.33   | 87.42      | 3350.74  | 3321.93  | 59.15           | OSF1.50         | 11340.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 3409.52   | 87.97      | 3350.55  | 3321.55  | 58.78           | OSF1.50         | 11390.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 3409.70   | 88.19      | 3350.58  | 3321.51  | 58.63           | OSF1.50         | 11410.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 3426.23   | 95.78      | 3362.05  | 3330.45  | 54.20           | OSF1.50         | 11800.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 3426.89   | 96.58      | 3362.18  | 3330.32  | 53.76           | OSF1.50         | 11850.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 3423.03   | 117.23     | 3344.55  | 3305.80  | 44.16           | OSF1.50         | 12720.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 3425.52   | 123.02     | 3343.18  | 3302.50  | 42.09           | OSF1.50         | 12990.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 3424.03   | 140.17     | 3330.25  | 3283.86  | 36.89           | OSF1.50         | 13630.00         | 9500.00              |          |            |       |       | MinPt-CiCt  |        |
| 3424.71   | 142.03     | 3329.63  | 3282.68  | 36.41           | OSF1.50         | 13730.00         | 9500.00              |          |            |       |       | MINPT-O-ADP |        |
| 3425.48   | 142.97     | 3329.84  | 3282.52  | 36.18           | OSF1.50         | 13780.00         | 9500.00              |          |            |       |       | MINPT-O-EOU |        |
| 3427.18   | 147.80     | 3328.32  | 3279.38  | 35.01           | OSF1.50         | 13950.00         | 9500.00              |          |            |       |       | MinPt-O-ADP |        |
| 3428.16   | 148.99     | 3328.51  | 3279.18  | 34.73           | OSF1.50         | 14010.00         | 9500.00              |          |            |       | </    |             |        |

| Offset Trajectory | Separation |          | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status |
|-------------------|------------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
|                   | Ct-Ct (ft) | MAS (ft) |                 |            |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |        |
| 3421.82           | 176.49     | 3303.86  | 3245.36         | 29.24      | OSF1.50          | 14980.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3420.11           | 185.08     | 3296.42  | 3235.06         | 27.86      | OSF1.50          | 15290.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3421.36           | 192.85     | 3292.47  | 3228.51         | 26.74      | OSF1.50          | 15600.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3422.17           | 193.81     | 3292.64  | 3228.36         | 26.61      | OSF1.50          | 15650.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3420.93           | 200.24     | 3287.14  | 3220.72         | 25.75      | OSF1.50          | 15830.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3421.22           | 200.95     | 3286.93  | 3220.27         | 25.66      | OSF1.50          | 15880.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3421.47           | 201.23     | 3286.99  | 3220.24         | 25.62      | OSF1.50          | 15900.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3412.21           | 220.77     | 3264.77  | 3191.51         | 23.28      | OSF1.50          | 16550.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3412.57           | 221.75     | 3264.41  | 3190.82         | 23.18      | OSF1.50          | 16610.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3412.96           | 222.23     | 3264.48  | 3190.73         | 23.13      | OSF1.50          | 16640.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3417.29           | 230.04     | 3263.60  | 3187.25         | 22.37      | OSF1.50          | 16900.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3418.06           | 230.97     | 3263.75  | 3187.05         | 22.29      | OSF1.50          | 16950.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3403.07           | 247.85     | 3237.51  | 3155.22         | 20.67      | OSF1.50          | 17480.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3403.21           | 248.38     | 3237.23  | 3154.82         | 20.63      | OSF1.50          | 17520.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3403.41           | 248.64     | 3237.32  | 3154.77         | 20.61      | OSF1.50          | 17540.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3403.71           | 251.91     | 3235.43  | 3151.78         | 20.34      | OSF1.50          | 17620.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3404.38           | 254.14     | 3234.62  | 3150.24         | 20.17      | OSF1.50          | 17730.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3405.37           | 255.36     | 3234.80  | 3150.07         | 20.07      | OSF1.50          | 17790.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3415.39           | 269.00     | 3235.73  | 3146.39         | 19.11      | OSF1.50          | 18240.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3416.02           | 269.74     | 3235.67  | 3146.23         | 19.06      | OSF1.50          | 18280.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3424.08           | 276.91     | 3239.14  | 3147.16         | 18.61      | OSF1.50          | 18550.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3430.84           | 283.69     | 3241.39  | 3147.15         | 18.20      | OSF1.50          | 18780.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3427.61           | 308.35     | 3221.72  | 3119.27         | 16.72      | OSF1.50          | 19540.00             | 9500.00  |            |       |       | MinPt-CiCt  |        |
| 3427.66           | 308.51     | 3221.68  | 3119.15         | 16.71      | OSF1.50          | 19560.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 3427.73           | 308.59     | 3221.68  | 3119.14         | 16.71      | OSF1.50          | 19570.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 3431.76           | 309.44     | 3225.13  | 3122.31         | 16.68      | OSF1.50          | 19710.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 3437.18           | 309.73     | 3230.37  | 3127.46         | 16.69      | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |

|  |        |         |         |          |                 |          |         |  |  |  |             |      |
|--|--------|---------|---------|----------|-----------------|----------|---------|--|--|--|-------------|------|
| Cimarex DaVinci 7-18 Federal<br>Com #36H Rev0 RM 24May21<br>(Non-Def Plan) |        |         |         |          |                 |          |         |  |  |  |             | Pass |
| 152.37   | 32.81  | 151.08  | 119.56  | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  | Surface     |      |
| 152.37   | 32.81  | 151.07  | 119.56  | 15813.85 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  | WRP         |      |
| 152.37   | 32.81  | 142.03  | 119.56  | 16.69    | MAS = 10.00 (m) | 1500.00  | 1500.00 |  |  |  | MinPts      |      |
| 152.43   | 32.81  | 142.00  | 119.62  | 16.52    | MAS = 10.00 (m) | 1520.00  | 1520.00 |  |  |  | MINPT-O-EOU |      |
| 157.53   | 32.81  | 146.43  | 124.72  | 15.92    | MAS = 10.00 (m) | 1680.00  | 1679.88 |  |  |  | MinPt-O-SF  |      |
| 2982.03  | 68.04  | 2936.23 | 2913.96 | 66.98    | OSF1.50         | 8010.00  | 7756.02 |  |  |  | MinPt-O-SF  |      |
| 3537.41  | 76.50  | 3485.98 | 3460.91 | 70.52    | OSF1.50         | 10770.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 3537.83  | 329.97 | 3317.42 | 3207.86 | 16.14    | OSF1.50         | 19790.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 3537.88  | 330.04 | 3317.42 | 3207.84 | 16.14    | OSF1.50         | 19797.74 | 9500.00 |  |  |  | MinPts      |      |

|  |        |         |         |          |                 |          |         |  |  |  |             |      |
|--|--------|---------|---------|----------|-----------------|----------|---------|--|--|--|-------------|------|
| Cimarex Da Vinci 7 Federal<br>Com #5H MWD 0ft to 11750ft<br>(Def Survey) |        |         |         |          |                 |          |         |  |  |  |             | Pass |
| 5791.66  | 32.81  | 5789.68 | 5758.85 | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  | Surface     |      |
| 5791.30  | 32.81  | 5789.26 | 5758.49 | 93249.97 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  | MinPt-O-SF  |      |
| 5790.73  | 32.81  | 5788.61 | 5757.95 | 33834.79 | MAS = 10.00 (m) | 100.00   | 100.00  |  |  |  | MinPts      |      |
| 5791.18  | 32.81  | 5788.18 | 5758.37 | 5703.30  | MAS = 10.00 (m) | 280.00   | 280.00  |  |  |  | MINPT-O-EOU |      |
| 5810.72  | 32.81  | 5801.89 | 5777.91 | 848.21   | MAS = 10.00 (m) | 1600.00  | 1599.98 |  |  |  | MinPt-O-SF  |      |
| 1123.45  | 293.75 | 925.96  | 829.70  | 5.81     | OSF1.50         | 7710.00  | 7468.82 |  |  |  | MinPt-O-SF  |      |
| 1114.66  | 289.85 | 919.80  | 824.81  | 5.84     | OSF1.50         | 7800.00  | 7554.98 |  |  |  | MinPt-O-ADP |      |
| 1113.69  | 288.75 | 919.57  | 824.94  | 5.86     | OSF1.50         | 7820.00  | 7574.13 |  |  |  | MINPT-O-EOU |      |
| 1112.82  | 286.31 | 920.35  | 826.51  | 5.90     | OSF1.50         | 7860.00  | 7612.42 |  |  |  | MinPt-CiCt  |      |
| 2327.93  | 107.83 | 2255.41 | 2220.12 | 32.96    | OSF1.50         | 12010.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 2328.15  | 108.29 | 2255.23 | 2219.85 | 32.82    | OSF1.50         | 12070.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 2328.37  | 108.60 | 2255.31 | 2219.77 | 32.73    | OSF1.50         | 12100.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 2328.60  | 108.87 | 2255.36 | 2219.73 | 32.65    | OSF1.50         | 12120.00 | 9500.00 |  |  |  | MinPt-O-ADP |      |
| 2352.79  | 115.55 | 2275.10 | 2237.24 | 31.03    | OSF1.50         | 12620.00 | 9500.00 |  |  |  | MinPt-O-SF  |      |
| 2354.63  | 115.01 | 2277.36 | 2239.68 | 31.22    | OSF1.50         | 12860.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 2355.14  | 116.22 | 2277.01 | 2238.93 | 30.90    | OSF1.50         | 12930.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 2355.58  | 116.74 | 2277.05 | 2238.84 | 30.76    | OSF1.50         | 12960.00 | 9500.00 |  |  |  | MinPt-O-ADP |      |
| 2366.71  | 123.40 | 2283.73 | 2243.31 | 29.21    | OSF1.50         | 13450.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 2368.27  | 125.26 | 2284.11 | 2243.01 | 28.79    | OSF1.50         | 13550.00 | 9500.00 |  |  |  | MinPt-O-ADP |      |
| 2497.03  | 147.31 | 2398.17 | 2349.73 | 25.75    | OSF1.50         | 14620.00 | 9500.00 |  |  |  | MinPt-O-SF  |      |
| 6136.75  | 147.21 | 6037.95 | 5989.54 | 63.36    | OSF1.50         | 19797.74 | 9500.00 |  |  |  | TD          |      |

|   |        |         |         |           |                 |          |         |  |  |  |             |      |
|---|--------|---------|---------|-----------|-----------------|----------|---------|--|--|--|-------------|------|
| Cimarex DaVinci 7-18 Federal<br>Com #9H Surcon Corrected Off-<br>19984ft (Def Survey) |        |         |         |           |                 |          |         |  |  |  |             | Pass |
| 2764.75   | 32.81  | 2762.77 | 2731.94 | N/A       | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  | Surface     |      |
| 2764.68   | 32.81  | 2762.69 | 2731.87 | 27444.25  | MAS = 10.00 (m) | 10.00    | 10.00   |  |  |  | MinPt-O-SF  |      |
| 2764.65   | 32.81  | 2762.03 | 2731.84 | 471902.43 | MAS = 10.00 (m) | 20.00    | 20.00   |  |  |  | MINPT-O-EOU |      |
| 2764.64   | 32.81  | 2762.66 | 2731.84 | N/A       | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  | WRP         |      |
| 2745.51   | 32.81  | 2739.37 | 2712.69 | 661.46    | MAS = 10.00 (m) | 980.00   | 980.00  |  |  |  | MinPts      |      |
| 2745.55   | 32.81  | 2739.23 | 2712.74 | 642.23    | MAS = 10.00 (m) | 1010.00  | 1010.00 |  |  |  | MINPT-O-EOU |      |
| 2747.23   | 32.81  | 2738.93 | 2714.45 | 436.22    | MAS = 10.00 (m) | 1470.00  | 1470.00 |  |  |  | MinPts      |      |
| 2747.30   | 32.81  | 2738.94 | 2714.49 | 403.33    | MAS = 10.00 (m) | 1490.00  | 1490.00 |  |  |  | MINPT-O-EOU |      |
| 1215.15   | 74.71  | 1163.97 | 1140.49 | 25.77     | OSF1.50         | 9450.00  | 9133.98 |  |  |  | MinPts      |      |
| 1215.54   | 74.75  | 1164.30 | 1140.75 | 25.77     | OSF1.50         | 9470.00  | 9152.52 |  |  |  | MinPt-O-SF  |      |
| 1149.44   | 74.07  | 1098.67 | 1075.37 | 24.57     | OSF1.50         | 10470.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1151.38   | 79.57  | 1096.95 | 1071.81 | 22.82     | OSF1.50         | 10880.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 1153.73   | 85.92  | 1095.03 | 1067.81 | 21.09     | OSF1.50         | 11260.00 | 9500.00 |  |  |  | MINPT-O-EOU |      |
| 1155.17   | 89.55  | 1094.09 | 1065.61 | 20.21     | OSF1.50         | 11470.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1157.23   | 102.01 | 1087.91 | 1055.28 | 17.67     | OSF1.50         | 12070.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1157.84   | 117.27 | 1078.28 | 1040.57 | 15.29     | OSF1.50         | 12720.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1157.93   | 121.23 | 1075.76 | 1036.73 | 14.78     | OSF1.50         | 12880.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1162.38   | 141.36 | 1066.75 | 1021.00 | 12.66     | OSF1.50         | 13660.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1162.62   | 147.59 | 1062.85 | 1015.02 | 12.11     | OSF1.50         | 13890.00 | 9500.00 |  |  |  | MinPt-CiCt  |      |
| 1162.98   | 157.66 | 1056.50 | 10      |           |                 |          |         |  |  |  |             |      |

| Offset Trajectory   | Separation |          |          | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status |
|---|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
|   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |            |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |        |
| 1172.73   | 273.89     | 988.75   | 898.82   | 6.50            |            | OSF1.50          | 18270.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1169.73   | 280.37     | 981.47   | 889.39   | 6.33            |            | OSF1.50          | 18500.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1170.65   | 283.09     | 980.53   | 887.56   | 6.27            |            | OSF1.50          | 18570.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1171.54   | 284.20     | 980.63   | 887.34   | 6.25            |            | OSF1.50          | 18600.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1177.53   | 289.72     | 983.01   | 887.81   | 6.16            |            | OSF1.50          | 18810.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1181.73   | 295.70     | 983.23   | 886.03   | 6.06            |            | OSF1.50          | 19020.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1187.23   | 302.18     | 984.41   | 885.05   | 5.95            |            | OSF1.50          | 19240.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1189.14   | 311.30     | 980.23   | 877.81   | 5.79            |            | OSF1.50          | 19580.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1189.93   | 313.41     | 979.63   | 876.53   | 5.75            |            | OSF1.50          | 19620.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1190.34   | 313.88     | 979.72   | 876.47   | 5.74            |            | OSF1.50          | 19630.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1196.66   | 316.89     | 984.01   | 879.77   | 5.72            |            | OSF1.50          | 19710.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 1209.64   | 318.62     | 995.83   | 891.02   | 5.75            |            | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |
| Cimarex Da Vinci 7 Federal Com #3H MWD 0ft-11916ft (Def Survey)                     |            |          |          |                 |            |                  |                      |          |            |       |       |             |        |
|   |            |          |          |                 |            |                  |                      |          |            |       |       |             | Pass   |
| 4959.93   | 32.81      | 4957.95  | 4927.12  | N/A             |            | MAS = 10.00 (m)  | 0.00                 | 0.00     |            |       |       | Surface     |        |
| 4959.56   | 32.81      | 4957.52  | 4926.75  | 81200.28        |            | MAS = 10.00 (m)  | 23.00                | 23.00    |            |       |       | MinPt-O-SF  |        |
| 1416.31   | 251.52     | 1247.97  | 1164.79  | 8.50            |            | OSF1.50          | 7200.00              | 6980.59  |            |       |       | MinPt-CICl  |        |
| 1416.70   | 252.80     | 1247.51  | 1163.90  | 8.46            |            | OSF1.50          | 7230.00              | 7009.31  |            |       |       | MINPT-O-EOU |        |
| 1417.32   | 253.60     | 1247.59  | 1163.72  | 8.44            |            | OSF1.50          | 7250.00              | 7028.45  |            |       |       | MinPt-O-ADP |        |
| 1429.47   | 257.99     | 1256.81  | 1171.47  | 8.36            |            | OSF1.50          | 7390.00              | 7162.48  |            |       |       | MinPt-O-SF  |        |
| 3248.26   | 92.84      | 3185.70  | 3155.42  | 53.95           |            | OSF1.50          | 14710.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 6387.85   | 96.89      | 6322.60  | 6290.96  | 100.93          |            | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |
| Cimarex Gadwall 18 Federal 3H Gyro + MWD 0ft to 12138ft (Def Survey)                |            |          |          |                 |            |                  |                      |          |            |       |       |             |        |
|   |            |          |          |                 |            |                  |                      |          |            |       |       |             | Pass   |
| 6066.87   | 32.81      | 6064.90  | 6034.07  | N/A             |            | MAS = 10.00 (m)  | 0.00                 | 0.00     |            |       |       | Surface     |        |
| 6066.50   | 32.81      | 6064.45  | 6033.69  | 91883.08        |            | MAS = 10.00 (m)  | 23.00                | 23.00    |            |       |       | MinPt-O-SF  |        |
| 6066.83   | 32.81      | 6063.66  | 6033.08  | 28136.10        |            | MAS = 10.00 (m)  | 110.00               | 110.00   |            |       |       | MinPts      |        |
| 6066.37   | 32.81      | 6063.03  | 6033.56  | 4563.38         |            | MAS = 10.00 (m)  | 340.00               | 340.00   |            |       |       | MINPT-O-EOU |        |
| 6075.88   | 32.81      | 6067.70  | 6043.07  | 979.73          |            | MAS = 10.00 (m)  | 1230.00              | 1230.00  |            |       |       | MinPt-O-SF  |        |
| 6074.12   | 32.81      | 6065.69  | 6041.31  | 941.50          |            | MAS = 10.00 (m)  | 1360.00              | 1360.00  |            |       |       | MinPt-CICl  |        |
| 5564.03   | 59.58      | 5505.66  | 5486.47  | 144.51          |            | OSF1.50          | 7530.00              | 7296.50  |            |       |       | MinPt-CICl  |        |
| 5539.73   | 65.34      | 5495.46  | 5474.42  | 131.58          |            | OSF1.50          | 8110.00              | 7851.75  |            |       |       | MINPT-O-EOU |        |
| 5539.85   | 65.58      | 5495.40  | 5474.27  | 131.06          |            | OSF1.50          | 8140.00              | 7880.47  |            |       |       | MinPt-O-ADP |        |
| 5540.00   | 65.74      | 5495.44  | 5474.26  | 130.72          |            | OSF1.50          | 8160.00              | 7899.61  |            |       |       | MinPt-O-SF  |        |
| 5655.79   | 73.84      | 5605.90  | 5581.95  | 118.02          |            | OSF1.50          | 9289.20              | 8980.62  |            |       |       | MinPt-CICl  |        |
| 1784.51   | 166.34     | 1672.98  | 1618.20  | 16.27           |            | OSF1.50          | 15460.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1784.78   | 172.71     | 1668.98  | 1612.07  | 15.66           |            | OSF1.50          | 15720.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1786.45   | 178.07     | 1667.03  | 1608.38  | 15.20           |            | OSF1.50          | 15930.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1789.30   | 182.45     | 1657.01  | 1606.85  | 14.83           |            | OSF1.50          | 16110.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 1733.12   | 220.37     | 1585.55  | 1512.75  | 11.89           |            | OSF1.50          | 17540.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1726.94   | 241.28     | 1565.42  | 1485.63  | 10.81           |            | OSF1.50          | 18240.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1727.54   | 243.10     | 1564.82  | 1484.45  | 10.73           |            | OSF1.50          | 18300.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1728.26   | 243.98     | 1564.95  | 1484.28  | 10.70           |            | OSF1.50          | 18330.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1735.52   | 253.88     | 1568.61  | 1484.65  | 10.34           |            | OSF1.50          | 18630.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1736.92   | 255.25     | 1568.03  | 1483.67  | 10.29           |            | OSF1.50          | 18680.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1739.34   | 255.78     | 1568.16  | 1483.56  | 10.27           |            | OSF1.50          | 18700.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1743.63   | 277.41     | 1558.02  | 1466.21  | 9.48            |            | OSF1.50          | 19510.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1743.89   | 278.15     | 1557.80  | 1465.74  | 9.46            |            | OSF1.50          | 19540.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 1744.10   | 278.38     | 1557.85  | 1465.72  | 9.45            |            | OSF1.50          | 19550.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 1750.11   | 280.34     | 1562.56  | 1469.78  | 9.42            |            | OSF1.50          | 19660.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 1767.30   | 281.37     | 1579.06  | 1485.93  | 9.48            |            | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |
| Cimarex Gadwall 18 Federal Com #2H Gyro+MWD 0ft to 12379ft MD (Offset) (Def Survey) |            |          |          |                 |            |                  |                      |          |            |       |       |             |        |
|   |            |          |          |                 |            |                  |                      |          |            |       |       |             | Pass   |
| 5321.56   | 32.81      | 5319.58  | 5288.75  | N/A             |            | MAS = 10.00 (m)  | 0.00                 | 0.00     |            |       |       | Surface     |        |
| 5321.12   | 32.81      | 5319.06  | 5288.31  | 68362.73        |            | MAS = 10.00 (m)  | 23.00                | 23.00    |            |       |       | MinPt-O-SF  |        |
| 5320.34   | 32.81      | 5318.10  | 5287.53  | 20458.74        |            | MAS = 10.00 (m)  | 120.00               | 120.00   |            |       |       | MinPts      |        |
| 5320.76   | 32.81      | 5317.74  | 5287.95  | 5123.59         |            | MAS = 10.00 (m)  | 280.00               | 280.00   |            |       |       | MINPT-O-EOU |        |
| 5323.63   | 32.81      | 5317.05  | 5290.85  | 1150.47         |            | MAS = 10.00 (m)  | 1080.00              | 1080.00  |            |       |       | MinPts      |        |
| 5163.74   | 42.54      | 5134.72  | 5121.20  | 190.88          |            | OSF1.50          | 5670.00              | 5515.89  |            |       |       | MinPt-CICl  |        |
| 5154.93   | 48.36      | 5122.05  | 5106.59  | 166.66          |            | OSF1.50          | 6330.00              | 6147.72  |            |       |       | MinPt-CICl  |        |
| 5155.09   | 48.79      | 5121.93  | 5106.30  | 165.11          |            | OSF1.50          | 6380.00              | 6195.59  |            |       |       | MINPT-O-EOU |        |
| 5155.32   | 49.06      | 5121.55  | 5106.26  | 164.17          |            | OSF1.50          | 6410.00              | 6224.31  |            |       |       | MinPt-O-ADP |        |
| 5453.07   | 73.59      | 5403.35  | 5379.48  | 114.18          |            | OSF1.50          | 9269.20              | 8980.62  |            |       |       | MinPt-O-SF  |        |
| 1806.47   | 133.41     | 1716.88  | 1673.07  | 20.60           |            | OSF1.50          | 15850.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1754.03   | 210.40     | 1613.10  | 1543.63  | 12.61           |            | OSF1.50          | 18310.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1734.40   | 247.70     | 1568.60  | 1486.70  | 10.58           |            | OSF1.50          | 19450.00             | 9500.00  |            |       |       | MinPt-CICl  |        |
| 1734.65   | 250.68     | 1566.87  | 1483.97  | 10.45           |            | OSF1.50          | 19550.00             | 9500.00  |            |       |       | MinPt-S     |        |
| 1734.89   | 250.73     | 1567.08  | 1484.16  | 10.45           |            | OSF1.50          | 19570.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 1753.85   | 249.25     | 1587.02  | 1504.60  | 10.63           |            | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |
| Gadwall 18 Federal 5H MWD 0ft to 12016ft (Def Survey)                               |            |          |          |                 |            |                  |                      |          |            |       |       |             |        |
|   |            |          |          |                 |            |                  |                      |          |            |       |       |             | Pass   |
| 5335.52   | 32.81      | 5333.54  | 5302.71  | N/A             |            | MAS = 10.00 (m)  | 0.00                 | 0.00     |            |       |       | Surface     |        |
| 5335.14   | 32.81      | 5333.09  | 5302.33  | 8076.78         |            | MAS = 10.00 (m)  | 23.00                | 23.00    |            |       |       | MinPt-O-SF  |        |
| 5334.51   | 32.81      | 5332.42  | 5301.76  | 31169.85        |            | MAS = 10.00 (m)  | 100.00               | 100.00   |            |       |       | MinPts      |        |
| 5318.16   | 32.81      | 5308.87  | 5285.38  | 728.10          |            | MAS = 10.00 (m)  | 1790.00              | 1789.50  |            |       |       | MinPt-O-SF  |        |
| 5238.53   | 33.39      | 5215.67  | 5205.20  | 250.17          |            | OSF1.50          | 4820.00              | 4702.17  |            |       |       | MinPt-CICl  |        |
| 5239.01   | 35.69      | 5214.53  | 5203.32  | 233.05          |            | OSF1.50          | 5070.00              | 4941.50  |            |       |       | MINPT-O-EOU |        |
| 5239.46   | 36.23      | 5214.65  | 5203.23  | 229.37          |            | OSF1.50          | 5130.00              | 4998.94  |            |       |       | MinPt-O-ADP |        |
| 5254.23   | 44.24      | 5224.08  | 5209.99  | 186.44          |            | OSF1.50          | 6000.00              | 5831.80  |            |       |       | MinPt-O-ADP |        |
| 5255.79   | 45.89      | 5224.54  | 5209.90  | 179.48          |            | OSF1.50          | 6190.00              | 6013.70  |            |       |       | MINPT-O-EOU |        |
| 5256.23   | 46.42      | 5224.62  | 5209.80  | 177.33          |            | OSF1.50          | 6250.00              | 6071.13  |            |       |       | MinPt-O-ADP |        |
| 5277.62   | 53.64      | 5241.20  | 5223.98  | 153.19          |            | OSF1.50          | 6990.00              | 6779.55  |            |       |       | MINPT-O-EOU |        |
| 5277.88   | 53.94      | 5241.26  | 5223.94  | 152.30          |            | OSF1.50          | 7020.00              | 6808.27  |            |       |       | MinPt-O-ADP |        |
| 5278.77   | 57.18      | 5239.99  | 5221.59  | 143.39          |            | OSF1.50          | 7160.00              | 6942.30  |            |       |       | MinPt-CICl  |        |
| 5278.91   | 57.59      | 5239.83  | 5221.32  | 142.33          |            | OSF1.50          | 7200.00              | 6980.59  |            |       |       | MINPT-O-EOU |        |
| 5279.08   | 57.80      | 5239.85  | 5221     |                 |            |                  |                      |          |            |       |       |             |        |

| Offset Trajectory | Separation |          |          | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status |
|-------------------|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
|                   | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |            |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |        |
| 2158.10           | 252.09     | 1989.38  | 1906.01  | 12.93           |            | OSF1.50          | 19580.00             | 9500.00  |            |       |       | MINPT-O-EOU |        |
| 2158.20           | 252.19     | 1989.41  | 1906.01  | 12.93           |            | OSF1.50          | 19590.00             | 9500.00  |            |       |       | MinPt-O-ADP |        |
| 2160.61           | 252.79     | 1991.43  | 1907.82  | 12.91           |            | OSF1.50          | 19670.00             | 9500.00  |            |       |       | MinPt-O-SF  |        |
| 2170.59           | 253.14     | 2001.17  | 1917.45  | 12.95           |            | OSF1.50          | 19797.74             | 9500.00  |            |       |       | TD          |        |

|  |      |
|--|------|
| Cimarex Gadwall 18 Federal 4H<br>MWD 0ft to 11719ft (Def Survey) | Pass |
|--|------|

|         |        |         |         |           |                 |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|-----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 5993.59 | 32.81  | 5991.61 | 5960.79 | N/A       | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 5993.25 | 32.81  | 5991.21 | 5960.44 | 102190.55 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  |  | MinPt-O-SF  |  |
| 5992.75 | 32.81  | 5990.63 | 5959.94 | 35017.13  | MAS = 10.00 (m) | 100.00   | 100.00  |  |  |  |  | MinPts      |  |
| 5993.10 | 32.81  | 5990.26 | 5960.30 | 6924.77   | MAS = 10.00 (m) | 250.00   | 250.00  |  |  |  |  | MINPT-O-EOU |  |
| 5994.05 | 32.81  | 5990.26 | 5961.24 | 3303.04   | MAS = 10.00 (m) | 450.00   | 450.00  |  |  |  |  | MINPT-O-EOU |  |
| 6010.91 | 32.81  | 6002.02 | 5978.10 | 869.20    | MAS = 10.00 (m) | 1670.00  | 1669.90 |  |  |  |  | MinPt-O-SF  |  |
| 5458.31 | 57.34  | 5419.31 | 5400.97 | 148.77    | OSF1.50         | 7460.00  | 7229.49 |  |  |  |  | MinPt-CICt  |  |
| 5458.44 | 57.69  | 5419.21 | 5400.76 | 147.81    | OSF1.50         | 7500.00  | 7267.78 |  |  |  |  | MINPT-O-EOU |  |
| 5458.51 | 57.77  | 5419.23 | 5400.74 | 147.58    | OSF1.50         | 7510.00  | 7277.36 |  |  |  |  | MinPt-O-ADP |  |
| 5735.10 | 70.14  | 5687.67 | 5664.98 | 126.18    | OSF1.50         | 9289.20  | 8980.62 |  |  |  |  | MinPt-O-SF  |  |
| 2375.15 | 163.92 | 2265.10 | 2211.20 | 21.98     | OSF1.50         | 15410.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 2376.24 | 167.27 | 2264.08 | 2208.96 | 21.55     | OSF1.50         | 15540.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 2379.09 | 186.96 | 2245.67 | 2184.01 | 19.21     | OSF1.50         | 16330.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 2372.42 | 191.18 | 2244.33 | 2181.27 | 18.80     | OSF1.50         | 16490.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 2376.65 | 196.27 | 2245.14 | 2180.38 | 18.33     | OSF1.50         | 16680.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 2319.63 | 252.30 | 2150.82 | 2067.38 | 13.89     | OSF1.50         | 18570.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 2323.85 | 266.91 | 2145.25 | 2056.95 | 13.15     | OSF1.50         | 19030.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 2315.97 | 291.96 | 2120.67 | 2024.01 | 11.97     | OSF1.50         | 19570.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 2316.25 | 292.89 | 2120.33 | 2023.36 | 11.93     | OSF1.50         | 19610.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 2316.43 | 293.11 | 2120.36 | 2023.31 | 11.92     | OSF1.50         | 19620.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 2326.76 | 296.21 | 2128.63 | 2030.55 | 11.85     | OSF1.50         | 19797.74 | 9500.00 |  |  |  |  | MinPt-O-SF  |  |

|  |      |
|--|------|
| Cimarex Da Vinci 7 Federal<br>Com #2H Gyro+MWD 0ft to<br>11690ft MD (Def Survey) | Pass |
|--|------|

|         |        |         |         |          |                 |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 4731.37 | 32.81  | 4730.09 | 4698.56 | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 4731.04 | 32.81  | 4729.70 | 4698.23 | 86172.50 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  |  | MinPt-O-SF  |  |
| 4730.63 | 32.81  | 4729.23 | 4697.88 | 37343.95 | MAS = 10.00 (m) | 80.00    | 80.00   |  |  |  |  | MinPts      |  |
| 4731.60 | 32.81  | 4728.53 | 4698.80 | 2607.76  | MAS = 10.00 (m) | 400.00   | 400.00  |  |  |  |  | MINPT-O-EOU |  |
| 4733.42 | 32.81  | 4725.17 | 4700.61 | 664.68   | MAS = 10.00 (m) | 1580.00  | 1579.99 |  |  |  |  | MinPt-O-ADP |  |
| 4733.44 | 32.81  | 4725.13 | 4700.63 | 659.20   | MAS = 10.00 (m) | 1600.00  | 1599.98 |  |  |  |  | MINPT-O-EOU |  |
| 2668.57 | 177.08 | 2550.19 | 2491.49 | 22.72    | OSF1.50         | 6790.00  | 6588.09 |  |  |  |  | MinPt-CICt  |  |
| 2668.73 | 177.56 | 2550.02 | 2491.16 | 22.66    | OSF1.50         | 6820.00  | 6616.81 |  |  |  |  | MINPT-O-EOU |  |
| 2668.85 | 177.72 | 2550.05 | 2491.14 | 22.64    | OSF1.50         | 6830.00  | 6626.38 |  |  |  |  | MinPt-O-ADP |  |
| 2695.35 | 181.98 | 2573.70 | 2513.37 | 22.33    | OSF1.50         | 7170.00  | 6951.87 |  |  |  |  | MinPt-O-SF  |  |
| 3912.92 | 106.46 | 3841.62 | 3806.46 | 55.63    | OSF1.50         | 11320.00 | 9500.00 |  |  |  |  | MinPts      |  |
| 3894.52 | 98.76  | 3828.35 | 3795.76 | 59.73    | OSF1.50         | 11630.00 | 9500.00 |  |  |  |  | MINPT-O-ADP |  |
| 3879.70 | 92.71  | 3817.56 | 3798.98 | 63.43    | OSF1.50         | 12050.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 3839.34 | 84.93  | 3782.35 | 3754.37 | 68.59    | OSF1.50         | 13710.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 3839.38 | 85.16  | 3782.28 | 3754.23 | 68.40    | OSF1.50         | 13740.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 3839.45 | 85.23  | 3782.30 | 3754.22 | 68.34    | OSF1.50         | 13750.00 | 9500.00 |  |  |  |  | MinPt-O-SF  |  |
| 3995.76 | 93.50  | 3933.10 | 3902.27 | 64.77    | OSF1.50         | 14950.00 | 9500.00 |  |  |  |  | TD          |  |
| 6883.26 | 98.76  | 6817.10 | 6784.50 | 105.58   | OSF1.50         | 19797.74 | 9500.00 |  |  |  |  |             |  |

|  |      |
|--|------|
| Chevron Hayhurst 18 Fed 1H<br>(Offset) MWD 0ft-7500ft (Def Survey) | Pass |
|--|------|

|         |        |         |         |          |                 |          |         |  |  |  |  |             |  |
|---------|--------|---------|---------|----------|-----------------|----------|---------|--|--|--|--|-------------|--|
| 5329.43 | 32.81  | 5328.14 | 5296.62 | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 5329.07 | 32.81  | 5327.72 | 5296.26 | 86622.47 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  |  | MinPt-O-SF  |  |
| 5328.53 | 32.81  | 5327.12 | 5295.77 | 31138.39 | MAS = 10.00 (m) | 100.00   | 100.00  |  |  |  |  | MinPts      |  |
| 5328.79 | 32.81  | 5326.92 | 5295.98 | 9171.67  | MAS = 10.00 (m) | 190.00   | 190.00  |  |  |  |  | MINPT-O-EOU |  |
| 5308.53 | 32.81  | 5299.93 | 5275.75 | 729.63   | MAS = 10.00 (m) | 1740.00  | 1739.72 |  |  |  |  | MinPt-O-ADP |  |
| 5308.56 | 32.81  | 5299.95 | 5275.75 | 729.01   | MAS = 10.00 (m) | 1750.00  | 1749.68 |  |  |  |  | MINPT-O-EOU |  |
| 6164.99 | 69.93  | 6117.94 | 6095.06 | 134.63   | OSF1.50         | 9269.20  | 8980.62 |  |  |  |  | MinPt-O-SF  |  |
| 6182.18 | 68.58  | 6136.03 | 6113.60 | 137.77   | OSF1.50         | 9600.00  | 9266.02 |  |  |  |  | MinPt-CICt  |  |
| 3393.60 | 107.49 | 3321.51 | 3286.11 | 47.91    | OSF1.50         | 14920.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 3393.64 | 107.61 | 3321.47 | 3286.03 | 47.86    | OSF1.50         | 14940.00 | 9500.00 |  |  |  |  | MinPt-O-SF  |  |
| 3417.87 | 109.58 | 3344.39 | 3308.29 | 47.32    | OSF1.50         | 15330.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 5939.33 | 95.61  | 5875.16 | 5843.72 | 94.43    | OSF1.50         | 19797.74 | 9500.00 |  |  |  |  | TD          |  |
| 5329.43 | 32.81  | 5328.14 | 5296.62 | N/A      | MAS = 10.00 (m) | 0.00     | 0.00    |  |  |  |  | Surface     |  |
| 5329.07 | 32.81  | 5327.72 | 5296.26 | 86622.47 | MAS = 10.00 (m) | 23.00    | 23.00   |  |  |  |  | MinPt-O-SF  |  |
| 5328.53 | 32.81  | 5327.12 | 5295.77 | 31138.39 | MAS = 10.00 (m) | 100.00   | 100.00  |  |  |  |  | MinPts      |  |
| 5328.79 | 32.81  | 5326.92 | 5295.98 | 9171.67  | MAS = 10.00 (m) | 190.00   | 190.00  |  |  |  |  | MINPT-O-EOU |  |
| 5308.53 | 32.81  | 5299.95 | 5275.75 | 729.63   | MAS = 10.00 (m) | 1740.00  | 1739.72 |  |  |  |  | MinPt-O-ADP |  |
| 5308.56 | 32.81  | 5299.95 | 5275.75 | 729.01   | MAS = 10.00 (m) | 1750.00  | 1749.68 |  |  |  |  | MINPT-O-EOU |  |
| 6321.61 | 67.69  | 6276.06 | 6253.92 | 142.77   | OSF1.50         | 9289.20  | 8980.62 |  |  |  |  | MinPt-O-SF  |  |
| 3504.36 | 119.03 | 3424.58 | 3388.33 | 44.63    | OSF1.50         | 15420.00 | 9500.00 |  |  |  |  | MinPt-CICt  |  |
| 3504.53 | 119.53 | 3424.42 | 3385.01 | 44.44    | OSF1.50         | 15460.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 3505.01 | 120.31 | 3424.37 | 3384.70 | 44.16    | OSF1.50         | 15500.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 3506.55 | 122.71 | 3424.32 | 3383.84 | 43.30    | OSF1.50         | 15590.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 3508.22 | 124.80 | 3424.53 | 3383.42 | 42.59    | OSF1.50         | 15670.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 3514.47 | 132.95 | 3425.41 | 3381.53 | 40.03    | OSF1.50         | 15910.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 3515.58 | 134.21 | 3425.63 | 3381.38 | 39.66    | OSF1.50         | 15960.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |
| 3620.41 | 139.84 | 3426.73 | 3380.56 | 38.10    | OSF1.50         | 16120.00 | 9500.00 |  |  |  |  | MINPT-O-EOU |  |
| 3523.12 | 142.81 | 3427.48 | 3380.30 | 37.33    | OSF1.50         | 16220.00 | 9500.00 |  |  |  |  | MinPt-O-ADP |  |

| Offset Trajectory  | Separation |          |          | Allow Dev. (ft) | Sep. Fact.      | Controlling Rule | Reference Trajectory |          | Risk Level |       |       | Alert | Status      |
|--|------------|----------|----------|-----------------|-----------------|------------------|----------------------|----------|------------|-------|-------|-------|-------------|
|  | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                 |                 |                  | MD (ft)              | TVD (ft) | Alert      | Minor | Major |       |             |
| Oxy Peaches 19 Federal #2<br>(Offset) MWD 0ft-12641ft (Def Survey) |            |          |          |                 |                 |                  |                      |          |            |       |       |       |             |
| 10215.90   | 32.81      | 10214.62 | 10183.09 | N/A             | MAS = 10.00 (m) |                  | 0.00                 | 0.00     |            |       |       |       | Surface     |
| 10215.56   | 32.81      | 10214.22 | 10182.76 | 166315.21       | MAS = 10.00 (m) |                  | 23.00                | 23.00    |            |       |       |       | MinPt-O-SF  |
| 10213.23   | 32.81      | 10208.74 | 10180.39 | 3213.53         | MAS = 10.00 (m) |                  | 760.00               | 760.00   |            |       |       |       | MinPts      |
| 10213.40   | 32.81      | 10208.52 | 10180.59 | 2845.67         | MAS = 10.00 (m) |                  | 860.00               | 860.00   |            |       |       |       | MINPT-O-EOU |
| 10212.61   | 32.81      | 10205.56 | 10179.83 | 1763.66         | MAS = 10.00 (m) |                  | 1360.00              | 1360.00  |            |       |       |       | MinPts      |
| 10212.93   | 32.81      | 10205.23 | 10180.12 | 1591.70         | MAS = 10.00 (m) |                  | 1500.00              | 1500.00  |            |       |       |       | MINPT-O-EOU |
| 10215.42   | 32.81      | 10207.35 | 10182.61 | 1506.57         | MAS = 10.00 (m) |                  | 1740.00              | 1739.72  |            |       |       |       | MinPt-O-SF  |
| 10890.11   | 72.19      | 10841.55 | 10817.92 | 230.36          | OSF1.50         |                  | 9300.00              | 8990.97  |            |       |       |       | MinPt-O-SF  |
| 3544.93  | 224.33     | 3394.95  | 3320.60  | 23.83           | OSF1.50         |                  | 19797.74             | 9500.00  |            |       |       |       | MinPts      |

**Borehole:** Davinci 7-18 Federal Com #35H    **Well:** Davinci 7-18 Federal Com #35H    **Field:** NM Eddy County (NAD 83)    **Structure:** Davinci 7-18 Federal Pad

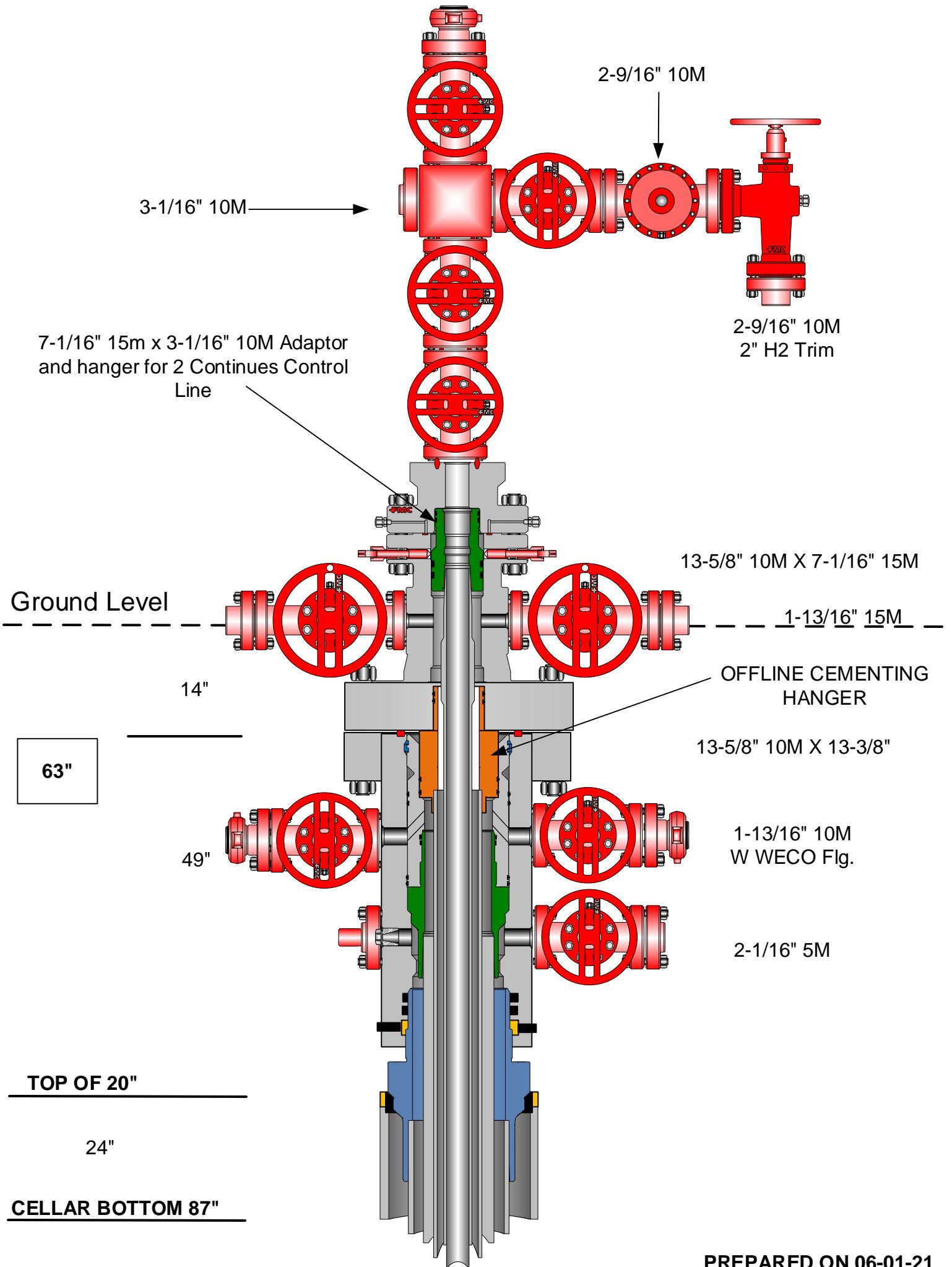
|                               |                  |  |                     |  |                        |   |                    |                              |                                  |
|-------------------------------|------------------|--|---------------------|--|------------------------|---|--------------------|------------------------------|----------------------------------|
| Gravity & Magnetic Parameters | Model: HDGM 2021 | Dip: 59.768°                           | Date: 24-May-2021   | Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet | Lat: N 32 9 3.39       | Northing: 418664.02ftUS                                     | Grid Conv: 0.0571° | Miscellaneous Slot: New Slot | TVD Ref: RKB(3329.2ft above MSL) |
| MagDec: 7.03°                 | FS: 47629.679nT  | Gravity FS: 998.435mgn (9.80665 Based) | Lon: W 104 13 33.47 | Easting: 574565.73ftUS   | Scale Fact: 0.99991036 | Plan: Cimarex Davinci 7-18 Federal Com #35H Rev2 RM 24May21 |                    |                              |                                  |

| Critical Points   |          |       |        |         |          |           |           |       |
|---|----------|-------|--------|---------|----------|-----------|-----------|-------|
| Critical Point  | MD       | INCL  | AZIM   | TVD     | VSEC     | N(+)/S(-) | E(+)/W(-) | DLS   |
| SHL [330' FNL, 1550' FWL]   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00      | 0.00      |       |
| Salado (Top Salt)   | 1334.00  | 0.00  | 270.75 | 1334.00 | 0.00     | 0.00      | 0.00      | 0.00  |
| Nudge 2'/100' DLS   | 1500.00  | 0.00  | 270.75 | 1500.00 | 0.00     | 0.00      | 0.00      | 0.00  |
| Castile (Base Salt)   | 1859.95  | 7.20  | 270.75 | 1859.00 | -0.36    | 0.30      | -22.58    | 2.00  |
| Bell Canyon (Top Delaware)  | 2094.25  | 11.89 | 270.75 | 2090.00 | -0.97    | 0.81      | -61.41    | 2.00  |
| Hold Nudge  | 2340.00  | 16.80 | 270.75 | 2328.02 | -1.92    | 1.61      | -122.26   | 2.00  |
| Cherry Canyon   | 2983.45  | 16.80 | 270.75 | 2944.00 | -4.85    | 4.06      | -308.22   | 0.00  |
| Brushy Canyon   | 4092.80  | 16.80 | 270.75 | 4006.00 | -9.90    | 8.28      | -628.83   | 0.00  |
| Top Bone Spring   | 5782.93  | 16.80 | 270.75 | 5624.00 | -17.58   | 14.72     | -1117.29  | 0.00  |
| Top 1st BSPG SS   | 6734.55  | 16.80 | 270.75 | 6535.00 | -21.91   | 18.34     | -1392.31  | 0.00  |
| Top 2nd BSPG SS   | 7334.14  | 16.80 | 270.75 | 7109.00 | -24.64   | 20.62     | -1565.60  | 0.00  |
| Top 3rd BSPS SS   | 8659.71  | 16.80 | 270.75 | 8378.00 | -30.67   | 25.67     | -1948.70  | 0.00  |
| Top Wolfcamp  | 9033.67  | 16.80 | 270.75 | 8736.00 | -32.37   | 27.09     | -2056.78  | 0.00  |
| Wolfcamp A  | 9253.04  | 16.80 | 270.75 | 8946.00 | -33.36   | 27.92     | -2120.17  | 0.00  |
| KOP - Build 12'/100' DLS  | 9289.20  | 16.80 | 270.75 | 8980.62 | -33.53   | 28.06     | -2130.63  | 0.00  |
| Wolfcamp A2   | 9536.12  | 28.97 | 193.84 | 9212.00 | 25.25    | -30.85    | -2181.76  | 12.00 |
| Build & Turn 12'/100' DLS   | 9595.09  | 35.00 | 186.82 | 9262.01 | 55.93    | -61.55    | -2187.19  | 12.00 |
| Wolfcamp B  | 9700.32  | 47.47 | 183.74 | 9341.00 | 124.85   | -130.48   | -2193.33  | 12.00 |
| Build 4'/100' DLS   | 9931.45  | 75.00 | 179.85 | 9451.19 | 325.37   | -331.01   | -2198.71  | 12.00 |
| Wolfcamp C  | 10252.92 | 87.86 | 179.85 | 9499.00 | 642.59   | -648.23   | -2197.90  | 4.00  |
| Landing Point   | 10306.45 | 90.00 | 179.85 | 9500.00 | 696.10   | -701.74   | -2197.76  | 4.00  |
| Cimarex Davinci 7-18 Federal Com #35H - PBHL [100' FSL, 1535'FWL] | 19797.74 | 90.00 | 179.85 | 9500.00 | 10187.39 | -10193.00 | -2173.41  | 0.00  |
| Wolfcamp C2   | NaN      |       |        | 9580.00 |          |           |           |       |

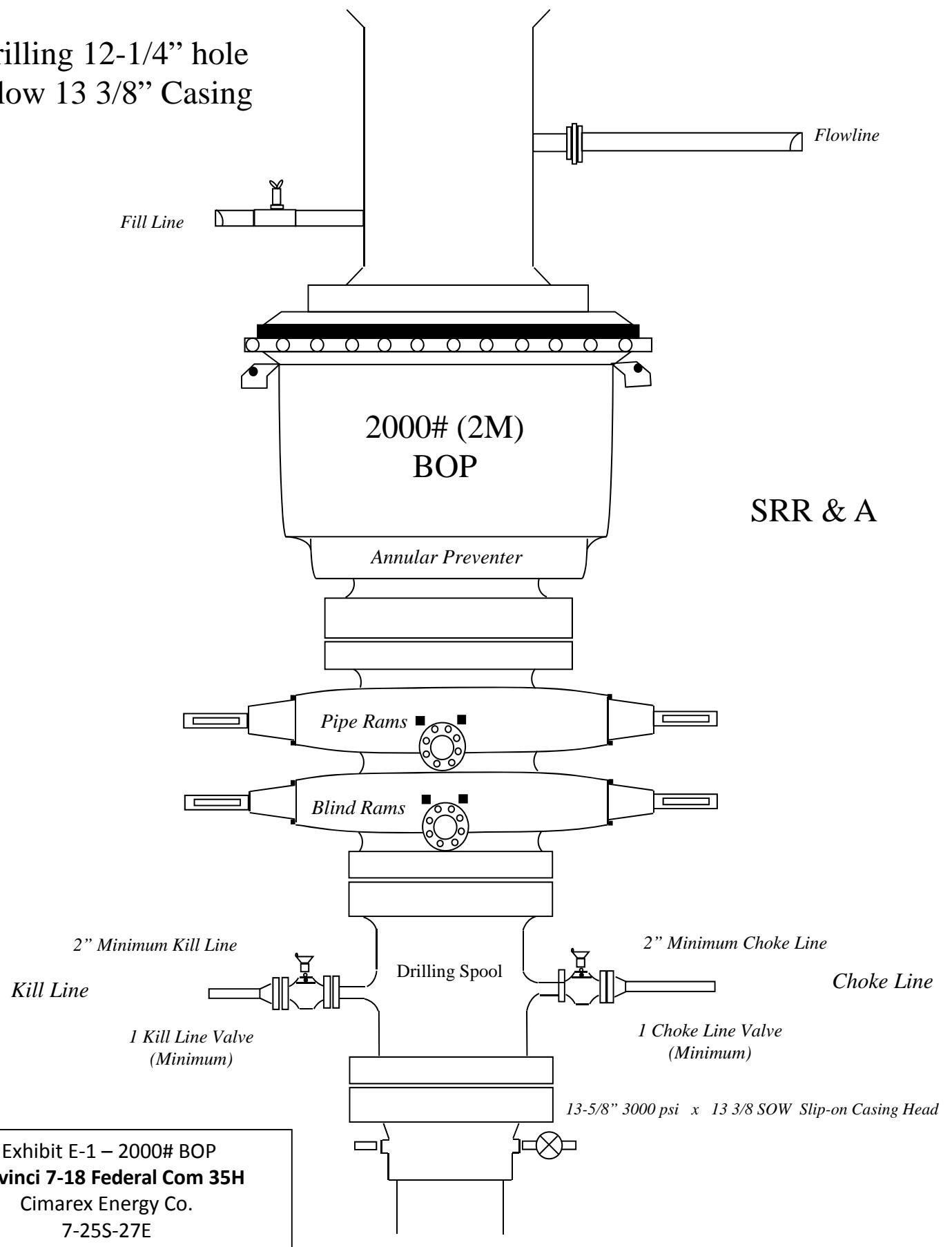


**CACTUS FOR SERVICE**  
**WEARBUSHING**  
**IN CASING HEAD &**  
**CASING SPOOL**

| Hole Size                 | Casing Depth From | Casing Depth To | Setting Depth TVD | Casing Size | Weight (lb/ft) | Grade            | Conn. | SF Collapse | SF Burst           | SF Tension |
|---------------------------|-------------------|-----------------|-------------------|-------------|----------------|------------------|-------|-------------|--------------------|------------|
| 17 1/2                    | 0                 | 450             | 450               | 13-3/8"     | 48.00          | H-40/J-55 Hybrid | ST&C  | 3.59        | 8.40               | 14.91      |
| 12 1/4                    | 0                 | 2068            | 2068              | 9-5/8"      | 36.00          | J-55             | LT&C  | 1.84        | 3.21               | 6.08       |
| 8 3/4                     | 0                 | 8389            | 8389              | 7"          | 26.00          | L-80             | LT&C  | 1.38        | 1.85               | 2.08       |
| 8 3/4                     | 8389              | 9931            | 9451              | 7"          | 26.00          | N-80             | BT&C  | 1.22        | 1.64               | 21.87      |
| 6                         | 8289              | 19797           | 9500              | 4-1/2"      | 11.60          | P-110            | BT&C  | 1.18        | 1.67               | 26.13      |
| BLM Minimum Safety Factor |                   |                 |                   |             |                |                  | 1.125 | 1           | 1.6 Dry<br>1.8 Wet |            |



Drilling 12-1/4" hole  
below 13 3/8" Casing



Drilling 8 3/4" hole  
below 9 5/8" Casing

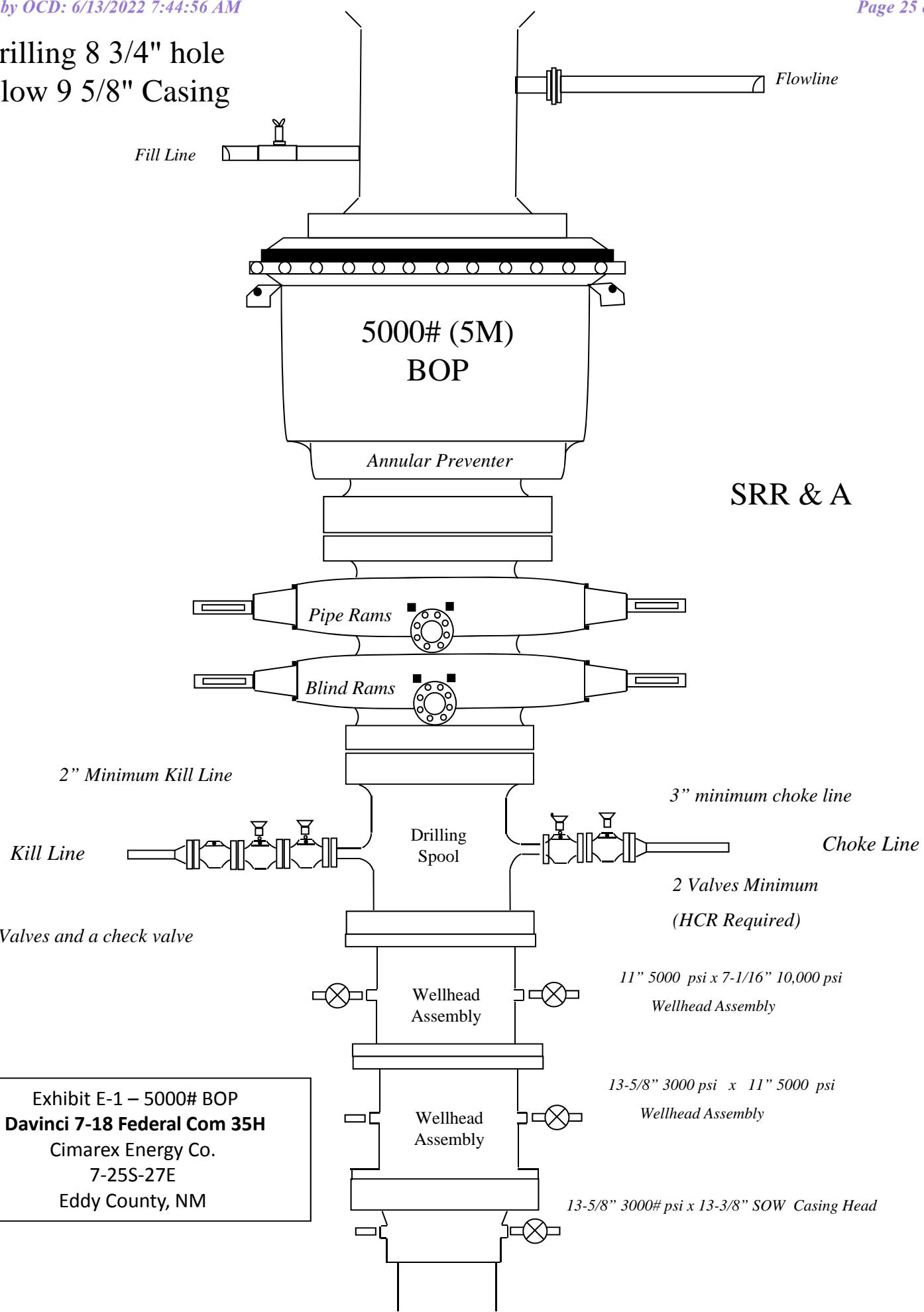
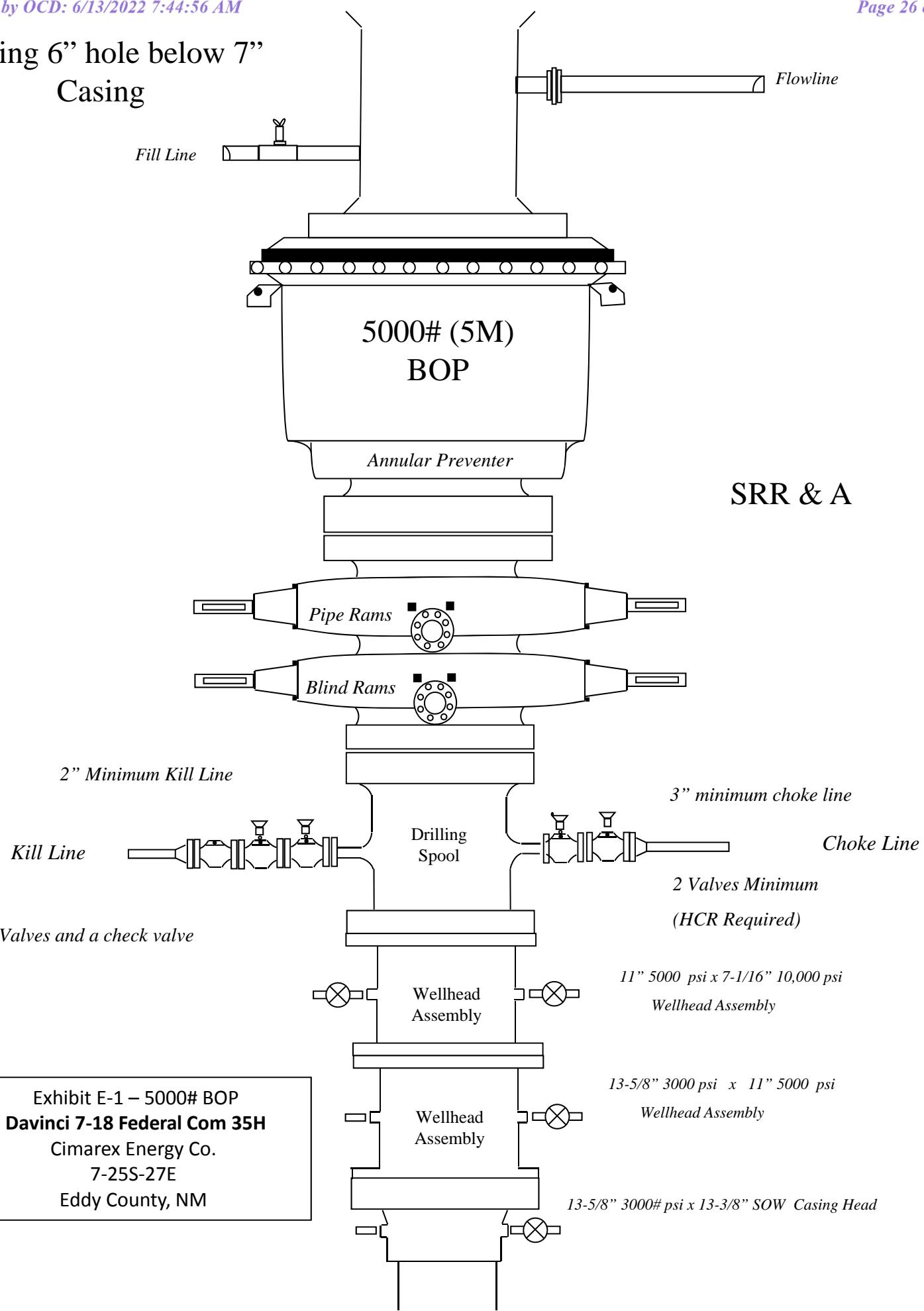
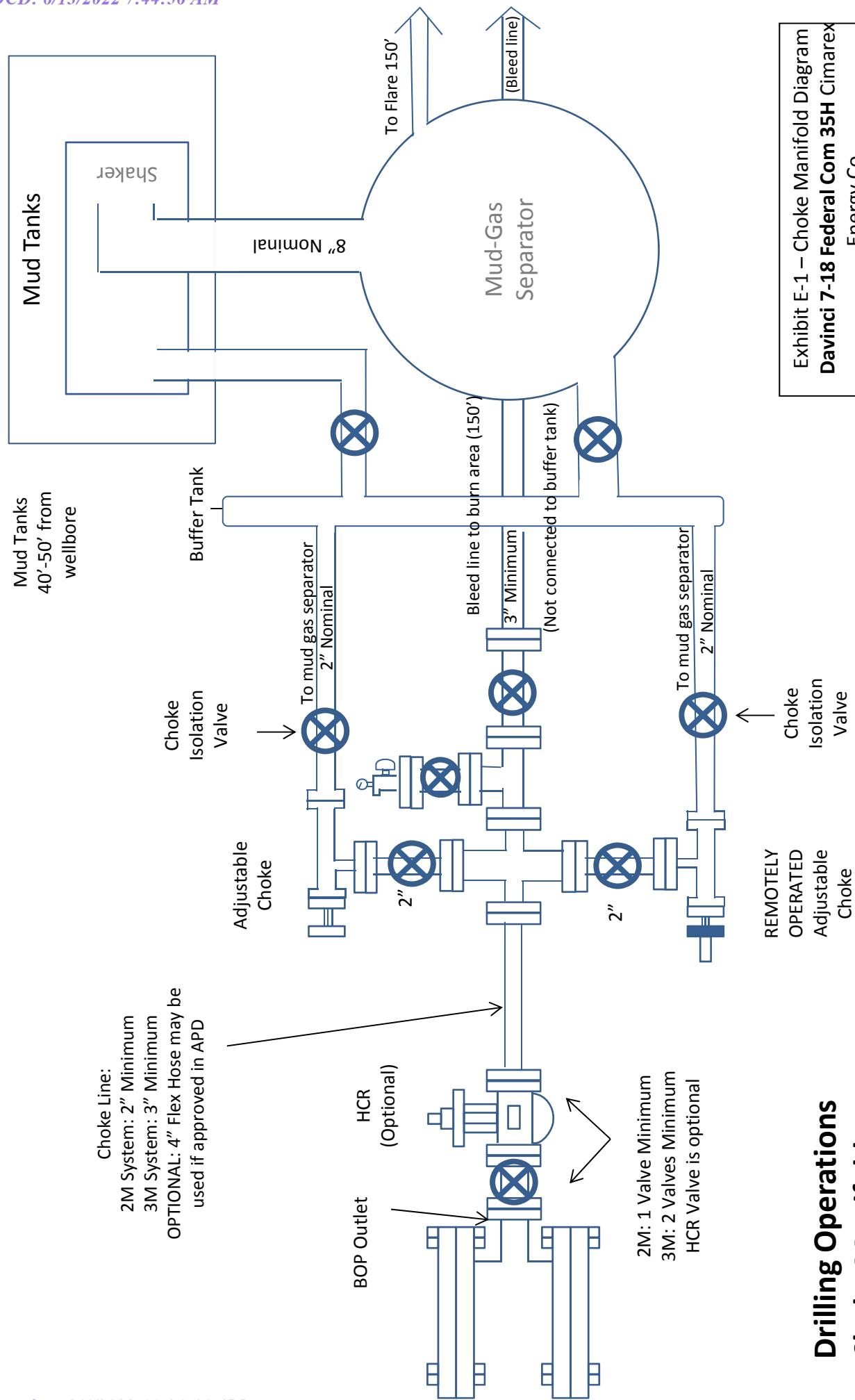
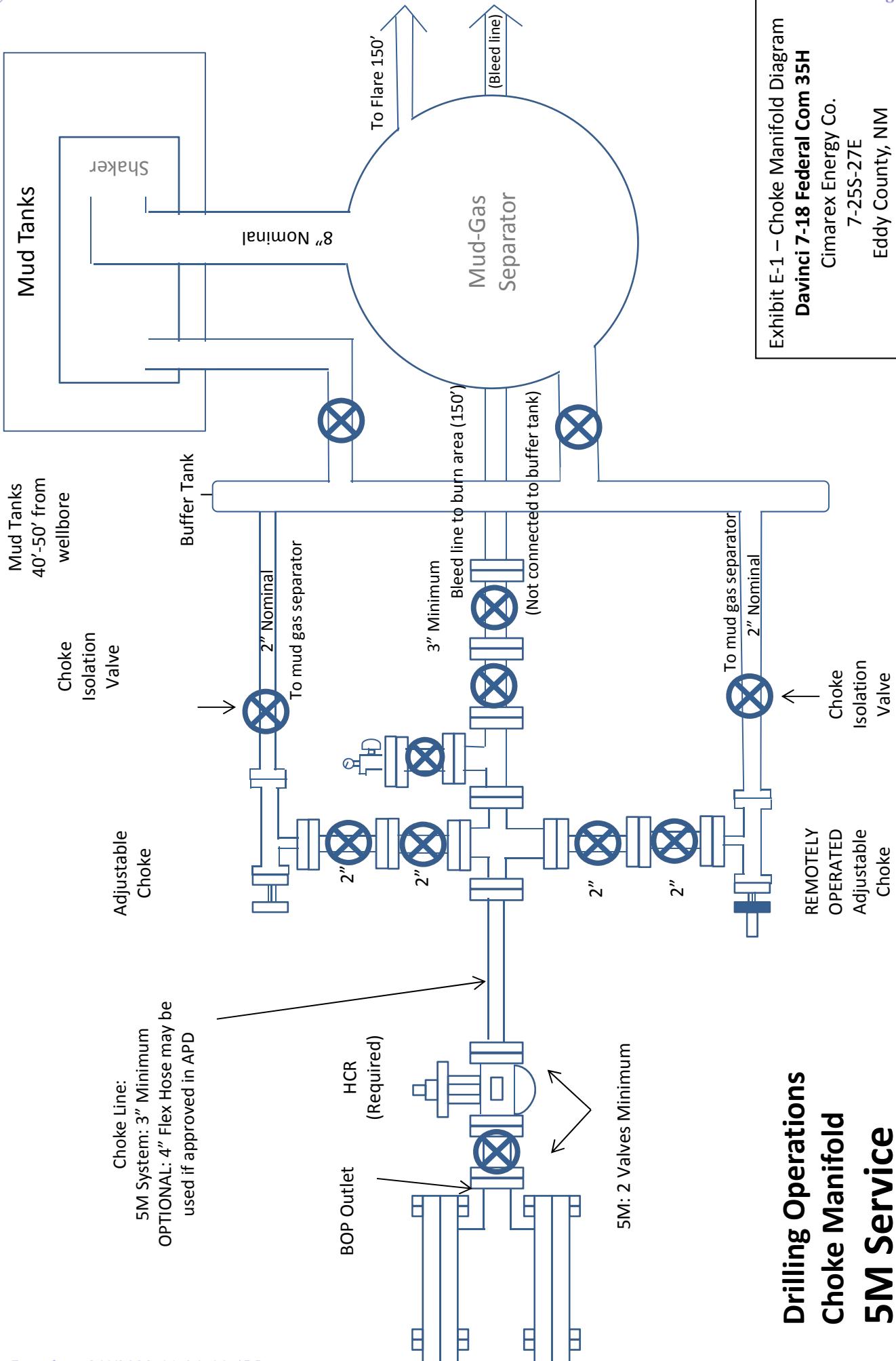


Exhibit E-1 – 5000# BOP  
**Davinci 7-18 Federal Com 35H**  
Cimarex Energy Co.  
7-25S-27E  
Eddy County, NM

**Drilling 6" hole below 7"  
Casing**







**District I**  
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**District II**  
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**District III**  
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**District IV**  
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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**

COMMENTS

Action 116098

#### COMMENTS

|  |  |
|--|--|
| Operator:<br><br>CIMAREX ENERGY CO.<br>600 N. Marienfeld Street<br>Midland, TX 79701 | OGRID:<br><br>215099                                 |
|  | Action Number:<br><br>116098                         |
|  | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

#### COMMENTS

| Created By | Comment                                   | Comment Date |
|------------|---|--------------|
| jagarcia   | Approved, John Garcia, Petroleum Engineer | 9/6/2022     |

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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 116098

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br><br>CIMAREX ENERGY CO.<br>600 N. Marienfeld Street<br>Midland, TX 79701 | OGRID:<br><br>215099                                 |
|  | Action Number:<br><br>116098                         |
|  | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jagarcia   | None      | 9/6/2022       |