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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
HOBBBS OCD
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: DRILL REENTER
1b. Type of Well: Oil Well Gas Well Other
1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone

RECEIVED
MAY 15 2019
JPM.

5. Lease Serial No.
NMNM028881

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
DILLON 31 FED COM
701H (39126)

2. Name of Operator
EOG RESOURCES INCORPORATED (7377)

9. API Well No.
30-025-45976

3a. Address
1111 Bagby Sky Lobby2 Houston TX 77002

3b. Phone No. (include area code)
(713)651-7000

10. Field and Pool, or Exploratory
RED HILLS NORTH / WC-025 G-09 S243 9809L

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface SESE / 284 FSL / 1206 FEL / LAT 32.1675735 / LONG -103.5043404
At proposed prod. zone NWSE / 2543 FSL / 2430 FEL / LAT 32.1882817 / LONG -103.5083157

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 31 / T24S / R34E / NMP

14. Distance in miles and direction from nearest town or post office*
25 miles

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
100 feet

16. No of acres in lease
999.84

17. Spacing Unit dedicated to this well
480

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
33 feet

19. Proposed Depth
12431 feet / 20081 feet

20. BLM/BIA Bond No. in file
FED: NM2308

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3436 feet

22. Approximate date work will start*
06/01/2019

23. Estimated duration
25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature (Electronic Submission) Name (Printed/Typed) Date
Star Harrell / Ph: (432)848-9161 12/14/2018

Title
Regulatory Specialist

Approved by (Signature) (Electronic Submission) Name (Printed/Typed) Date
Cody Layton / Ph: (575)234-5959 05/09/2019

Title
Assistant Field Manager Lands & Minerals Office
CARLSBAD

Application approval 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.

Conditions of approval, if any, are attached.

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.

CP Dec 05/15/19

Ke 05/20/19

APPROVED WITH CONDITIONS
Approval Date: 05/09/2019

REQUIRES NSL
*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: SESE / 284 FSL / 1206 FEL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.1675735 / LONG: -103.5043404 (TVD: 0 feet, MD: 0 feet)
PPP: SWSE / 100 FSL / 2430 FEL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.1670696 / LONG: -103.5082956 (TVD: 12166 feet, MD: 12263 feet)
BHL: NWSE / 2543 FSL / 2430 FEL / TWSP: 24S / RANGE: 34E / SECTION: 30 / LAT: 32.1882817 / LONG: -103.5083157 (TVD: 12431 feet, MD: 20081 feet)

BLM Point of Contact

Name: Tanja Baca

Title: Admin Support Assistant

Phone: 5752345940

Email: tabaca@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Approval Date: 05/09/2019

(Form 3160-3, page 4)

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	EOG RESOURCES INCORPORATED
LEASE NO.:	NMNM028881
WELL NAME & NO.:	DILLON 31 FED COM 701H
SURFACE HOLE FOOTAGE:	264' FSL & 1206' FEL
BOTTOM HOLE FOOTAGE:	2543' FSL & 2430' FEL
LOCATION:	Section 31, T. 24 S., R 34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Delaware formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 9-5/8 inch surface casing shall be set at approximately 1285 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification. **Excess cement calculates to 23%, additional cement may be required.**

Alternate Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **1285 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. The minimum required fill of cement behind the 9-5/8 inch first intermediate casing is:
 - Cement to surface: If cement does not circulate see B.1.a, c-d above.

6. The minimum required fill of cement behind the 7-5/8 inch second intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
7. The minimum required fill of cement behind the 5-1/2 inch production liner is:
 - Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification. **Excess cement calculates to 23%, additional cement may be required.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees

of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

JJP04242019

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the

plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,155'
Tamarisk Anhydrite	1,231'
Top of Salt	1,282'
Base of Salt	4,946'
Lamar	5,198'
Bell Canyon	5,228'
Cherry Canyon	6,217'
Brushy Canyon	7,791'
Bone Spring Lime	9,204'
Leonard A Shale	9,273'
1 st Bone Spring Sand	10,186'
2 nd Bone Spring Shale	10,454'
2 nd Bone Spring Sand	10,798'
3 rd Bone Spring Carb	11,293'
3 rd Bone Spring Sand	11,838'
Wolfcamp	12,273'
TD	12,431'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,217'	Oil
Brushy Canyon	7,791'	Oil
1 st Bone Spring Sand	10,186'	Oil
2 nd Bone Spring Shale	10,454'	Oil
2 nd Bone Spring Sand	10,798'	Oil
3 rd Bone Spring Carb	11,293'	Oil
3 rd Bone Spring Sand	11,838'	Oil
Wolfcamp	12,273'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9.625" casing at 1,285' and circulating cement back to surface.

**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0' - 1,285'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' - 11,420'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 10,920'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,920'-11,420'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,420' - 20,081'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

EOG Resources also requests approval to implement Casing Design B (pg. 8-9). BLM will be notified of elected design at spud.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,285' 9-5/8"	1,140	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
11,420' 7-5/8"	430	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,800')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,081' 5-1/2"	730	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,920')

**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,791') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top.

EOG requests permission to allow BOP Break Testing under the following conditions:

**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

- After a full BOP test to 100% RWP is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,285'	Fresh - Gel	8.6-8.8	28-34	N/c
1,285' – 11,420'	Brine	10.0-10.2	28-34	N/c
11,420' – 12,043'	Oil Base	8.7-9.4	58-68	N/c - 6
12,043' – 20,081' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

EOG RESOURCES, INC.
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8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9,040 psig and a maximum anticipated surface pressure of 6,305 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

(A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 9-5/8" surface casing, a 9-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

**EOG RESOURCES, INC.
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The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's 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.

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

**284' FSL
1,206' FEL
Section 31
T-24-S, R-34-E**

**Proposed Wellbore
Design A**

**KB: 3,461'
GL: 3,436'**

API: 30-025-*****

Bit Size: 12-1/4"

9-5/8", 40#, J-55, LTC 0' - 1,285'

Bit Size: 8-3/4"

**7-5/8", 29.7#, HCP-110, FXL @ 0' -
11,420'**

TOC: 10,920'

Bit Size: 6-3/4"

**5-1/2", 20#, P-110 EC, DWC/C-IS MS @ 0' - 10,920'
5-1/2", 20#, P-110 EC, VAM SFC @ 10,920' - 11,420'
5-1/2", 20#, P-110 EC, DWC/C-IS MS @ 11,420' -
20,081'**

KOP: 12,043'

**Lateral: 20,081' MD, 12,431' TVD
Upper Most Perf:
100' FSL & 2,430' FEL Sec. 31.
Lower Most Perf:
2,543' FSL & 2,430' FEL Sec. 30
BH Location: 2,543' FSL & 2,430' FEL
Section 30
T-24-S, R-34-E**

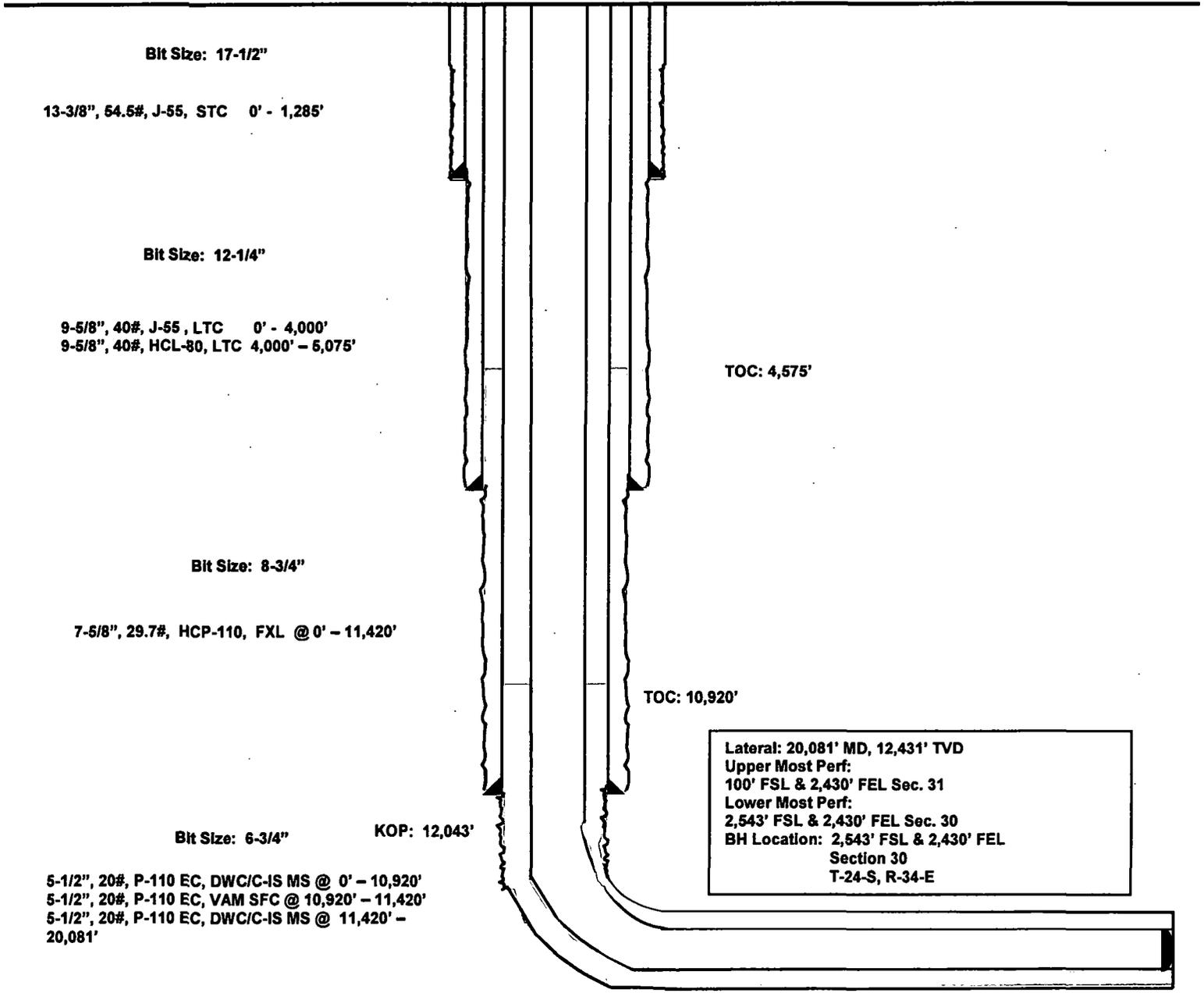
EOG RESOURCES, INC.
DILLON 31 FED COM #701H

284' FSL
1,206' FEL
Section 31
T-24-S, R-34-E

Proposed Wellbore
Design B

KB: 3,461'
GL: 3,436'

API: 30-025-*****



**EOG RESOURCES, INC.
DILLON 31 FED COM #701H**

Design B

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,285'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0 – 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 5,075'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 – 11,420'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,920'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,920'–11,420'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,420' – 20,081'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Slurry Description
1,285' 13-3/8"	780	13.5	1.74	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.35	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
5,075' 9-5/8"	800	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,060')
11,420' 7-5/8"	200	10.8	3.67	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,575')
	100	14.8	2.38	Tail: Class H + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 9,920')
20,081' 5-1/2"	730	14.8	1.31	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,920')

As a contingency, EOG requests to pump a two stage cement job on the 7-5/8'' intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,791') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,285'	Fresh - Gel	8.6-8.8	28-34	N/c
1,285' – 5,075'	Brine	10.0-10.2	28-34	N/c
5,075' – 11,420'	Oil Base	8.7-9.4	58-68	N/c - 6
11,420' – 20,081' Lateral	Oil Base	10.0-11.5	58-68	3 - 6



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dillon 31 Fed Com

#701H

OH

Plan: Plan #0.1

Standard Planning Report

14 November, 2018



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dillon 31 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Dillon 31 Fed Com		
Site Position:	From: Map	Northing: 425,686.00 usft	Latitude: 32° 10' 3.262 N
		Easting: 797,851.00 usft	Longitude: 103° 30' 15.624 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.44 "

Well	#701H		
Well Position	+N/-S 0.0 usft	Northing: 425,686.00 usft	Latitude: 32° 10' 3.262 N
	+E/-W 0.0 usft	Easting: 797,851.00 usft	Longitude: 103° 30' 15.624 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,436.0 usft

Wellbore	OH				
Magnetics	Model-Name	Sample Date	Declination (")	Dip Angle (")	Field Strength (nT)
	IGRF2015	11/14/2018	6.76	60.00	47,766.50813419

Design	Plan #0.1			
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (")
	0.0	0.0	0.0	350.29

Plan Survey Tool Program	Date 11/14/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	20,081.4	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (")	Azimuth (")	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)	TFO (")	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,415.4	8.31	258.81	3,414.0	-5.8	-29.5	2.00	2.00	0.00	258.81	
11,627.2	8.31	258.81	11,539.5	-236.2	-1,193.5	0.00	0.00	0.00	0.00	
12,042.6	0.00	0.00	11,953.5	-242.0	-1,223.0	2.00	-2.00	0.00	180.00	KOP(Dillon 31 Fed Cc
12,792.6	90.00	359.52	12,431.0	235.4	-1,227.0	12.00	12.00	-0.06	359.52	
20,081.4	90.00	359.52	12,431.0	7,524.0	-1,288.0	0.00	0.00	0.00	0.00	PBHL(Dillon 31 Fed C



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
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 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	2.00	258.81	3,100.0	-0.3	-1.7	0.0	2.00	2.00	0.00	
3,200.0	4.00	258.81	3,199.8	-1.4	-6.8	-0.2	2.00	2.00	0.00	
3,300.0	6.00	258.81	3,299.5	-3.0	-15.4	-0.4	2.00	2.00	0.00	
3,400.0	8.00	258.81	3,398.7	-5.4	-27.3	-0.7	2.00	2.00	0.00	
3,415.4	8.31	258.81	3,414.0	-5.8	-29.5	-0.8	2.00	2.00	0.00	
3,500.0	8.31	258.81	3,497.7	-8.2	-41.5	-1.1	0.00	0.00	0.00	
3,600.0	8.31	258.81	3,596.6	-11.0	-55.7	-1.5	0.00	0.00	0.00	
3,700.0	8.31	258.81	3,695.6	-13.8	-69.8	-1.8	0.00	0.00	0.00	
3,800.0	8.31	258.81	3,794.5	-16.6	-84.0	-2.2	0.00	0.00	0.00	
3,900.0	8.31	258.81	3,893.5	-19.4	-98.2	-2.6	0.00	0.00	0.00	
4,000.0	8.31	258.81	3,992.4	-22.2	-112.4	-3.0	0.00	0.00	0.00	
4,100.0	8.31	258.81	4,091.4	-25.0	-126.5	-3.3	0.00	0.00	0.00	
4,200.0	8.31	258.81	4,190.3	-27.8	-140.7	-3.7	0.00	0.00	0.00	
4,300.0	8.31	258.81	4,289.3	-30.6	-154.9	-4.1	0.00	0.00	0.00	
4,400.0	8.31	258.81	4,388.2	-33.5	-169.1	-4.4	0.00	0.00	0.00	
4,500.0	8.31	258.81	4,487.2	-36.3	-183.2	-4.8	0.00	0.00	0.00	
4,600.0	8.31	258.81	4,586.1	-39.1	-197.4	-5.2	0.00	0.00	0.00	
4,700.0	8.31	258.81	4,685.1	-41.9	-211.6	-5.6	0.00	0.00	0.00	
4,800.0	8.31	258.81	4,784.0	-44.7	-225.8	-5.9	0.00	0.00	0.00	
4,900.0	8.31	258.81	4,883.0	-47.5	-239.9	-6.3	0.00	0.00	0.00	
5,000.0	8.31	258.81	4,981.9	-50.3	-254.1	-6.7	0.00	0.00	0.00	
5,100.0	8.31	258.81	5,080.9	-53.1	-268.3	-7.1	0.00	0.00	0.00	
5,200.0	8.31	258.81	5,179.8	-55.9	-282.5	-7.4	0.00	0.00	0.00	



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dillon 31 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	8.31	258.81	5,278.8	-58.7	-296.6	-7.8	0.00	0.00	0.00
5,400.0	8.31	258.81	5,377.7	-61.5	-310.8	-8.2	0.00	0.00	0.00
5,500.0	8.31	258.81	5,476.7	-64.3	-325.0	-8.5	0.00	0.00	0.00
5,600.0	8.31	258.81	5,575.6	-67.1	-339.2	-8.9	0.00	0.00	0.00
5,700.0	8.31	258.81	5,674.6	-69.9	-353.3	-9.3	0.00	0.00	0.00
5,800.0	8.31	258.81	5,773.5	-72.7	-367.5	-9.7	0.00	0.00	0.00
5,900.0	8.31	258.81	5,872.5	-75.5	-381.7	-10.0	0.00	0.00	0.00
6,000.0	8.31	258.81	5,971.4	-78.3	-395.9	-10.4	0.00	0.00	0.00
6,100.0	8.31	258.81	6,070.4	-81.1	-410.0	-10.8	0.00	0.00	0.00
6,200.0	8.31	258.81	6,169.3	-83.9	-424.2	-11.2	0.00	0.00	0.00
6,300.0	8.31	258.81	6,268.3	-86.7	-438.4	-11.5	0.00	0.00	0.00
6,400.0	8.31	258.81	6,367.2	-89.5	-452.6	-11.9	0.00	0.00	0.00
6,500.0	8.31	258.81	6,466.2	-92.4	-466.7	-12.3	0.00	0.00	0.00
6,600.0	8.31	258.81	6,565.1	-95.2	-480.9	-12.7	0.00	0.00	0.00
6,700.0	8.31	258.81	6,664.1	-98.0	-495.1	-13.0	0.00	0.00	0.00
6,800.0	8.31	258.81	6,763.0	-100.8	-509.3	-13.4	0.00	0.00	0.00
6,900.0	8.31	258.81	6,862.0	-103.6	-523.4	-13.8	0.00	0.00	0.00
7,000.0	8.31	258.81	6,960.9	-106.4	-537.6	-14.1	0.00	0.00	0.00
7,100.0	8.31	258.81	7,059.9	-109.2	-551.8	-14.5	0.00	0.00	0.00
7,200.0	8.31	258.81	7,158.8	-112.0	-566.0	-14.9	0.00	0.00	0.00
7,300.0	8.31	258.81	7,257.8	-114.8	-580.1	-15.3	0.00	0.00	0.00
7,400.0	8.31	258.81	7,356.7	-117.6	-594.3	-15.6	0.00	0.00	0.00
7,500.0	8.31	258.81	7,455.7	-120.4	-608.5	-16.0	0.00	0.00	0.00
7,600.0	8.31	258.81	7,554.6	-123.2	-622.7	-16.4	0.00	0.00	0.00
7,700.0	8.31	258.81	7,653.6	-126.0	-636.8	-16.8	0.00	0.00	0.00
7,800.0	8.31	258.81	7,752.5	-128.8	-651.0	-17.1	0.00	0.00	0.00
7,900.0	8.31	258.81	7,851.5	-131.6	-665.2	-17.5	0.00	0.00	0.00
8,000.0	8.31	258.81	7,950.4	-134.4	-679.4	-17.9	0.00	0.00	0.00
8,100.0	8.31	258.81	8,049.4	-137.2	-693.5	-18.2	0.00	0.00	0.00
8,200.0	8.31	258.81	8,148.3	-140.0	-707.7	-18.6	0.00	0.00	0.00
8,300.0	8.31	258.81	8,247.3	-142.8	-721.9	-19.0	0.00	0.00	0.00
8,400.0	8.31	258.81	8,346.2	-145.6	-736.1	-19.4	0.00	0.00	0.00
8,500.0	8.31	258.81	8,445.2	-148.5	-750.2	-19.7	0.00	0.00	0.00
8,600.0	8.31	258.81	8,544.1	-151.3	-764.4	-20.1	0.00	0.00	0.00
8,700.0	8.31	258.81	8,643.1	-154.1	-778.6	-20.5	0.00	0.00	0.00
8,800.0	8.31	258.81	8,742.0	-156.9	-792.8	-20.9	0.00	0.00	0.00
8,900.0	8.31	258.81	8,841.0	-159.7	-806.9	-21.2	0.00	0.00	0.00
9,000.0	8.31	258.81	8,939.9	-162.5	-821.1	-21.6	0.00	0.00	0.00
9,100.0	8.31	258.81	9,038.9	-165.3	-835.3	-22.0	0.00	0.00	0.00
9,200.0	8.31	258.81	9,137.8	-168.1	-849.5	-22.3	0.00	0.00	0.00
9,300.0	8.31	258.81	9,236.8	-170.9	-863.6	-22.7	0.00	0.00	0.00
9,400.0	8.31	258.81	9,335.7	-173.7	-877.8	-23.1	0.00	0.00	0.00
9,500.0	8.31	258.81	9,434.7	-176.5	-892.0	-23.5	0.00	0.00	0.00
9,600.0	8.31	258.81	9,533.6	-179.3	-906.2	-23.8	0.00	0.00	0.00
9,700.0	8.31	258.81	9,632.6	-182.1	-920.3	-24.2	0.00	0.00	0.00
9,800.0	8.31	258.81	9,731.5	-184.9	-934.5	-24.6	0.00	0.00	0.00
9,900.0	8.31	258.81	9,830.5	-187.7	-948.7	-25.0	0.00	0.00	0.00
10,000.0	8.31	258.81	9,929.4	-190.5	-962.9	-25.3	0.00	0.00	0.00
10,100.0	8.31	258.81	10,028.4	-193.3	-977.0	-25.7	0.00	0.00	0.00
10,200.0	8.31	258.81	10,127.3	-196.1	-991.2	-26.1	0.00	0.00	0.00
10,300.0	8.31	258.81	10,226.3	-198.9	-1,005.4	-26.4	0.00	0.00	0.00
10,400.0	8.31	258.81	10,325.2	-201.7	-1,019.6	-26.8	0.00	0.00	0.00
10,500.0	8.31	258.81	10,424.2	-204.5	-1,033.7	-27.2	0.00	0.00	0.00
10,600.0	8.31	258.81	10,523.1	-207.4	-1,047.9	-27.6	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
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 Site: Dillon 31 Fed Com
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 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	8.31	258.81	10,622.1	-210.2	-1,062.1	-27.9	0.00	0.00	0.00
10,800.0	8.31	258.81	10,721.0	-213.0	-1,076.3	-28.3	0.00	0.00	0.00
10,900.0	8.31	258.81	10,820.0	-215.8	-1,090.4	-28.7	0.00	0.00	0.00
11,000.0	8.31	258.81	10,918.9	-218.6	-1,104.6	-29.1	0.00	0.00	0.00
11,100.0	8.31	258.81	11,017.9	-221.4	-1,118.8	-29.4	0.00	0.00	0.00
11,200.0	8.31	258.81	11,116.8	-224.2	-1,133.0	-29.8	0.00	0.00	0.00
11,300.0	8.31	258.81	11,215.8	-227.0	-1,147.1	-30.2	0.00	0.00	0.00
11,400.0	8.31	258.81	11,314.7	-229.8	-1,161.3	-30.5	0.00	0.00	0.00
11,500.0	8.31	258.81	11,413.7	-232.6	-1,175.5	-30.9	0.00	0.00	0.00
11,600.0	8.31	258.81	11,512.6	-235.4	-1,189.7	-31.3	0.00	0.00	0.00
11,627.2	8.31	258.81	11,539.5	-236.2	-1,193.5	-31.4	0.00	0.00	0.00
11,700.0	6.85	258.81	11,611.7	-238.0	-1,202.9	-31.6	2.00	-2.00	0.00
11,800.0	4.85	258.81	11,711.2	-240.0	-1,212.9	-31.9	2.00	-2.00	0.00
11,900.0	2.85	258.81	11,811.0	-241.3	-1,219.5	-32.1	2.00	-2.00	0.00
12,000.0	0.85	258.81	11,910.9	-241.9	-1,222.7	-32.2	2.00	-2.00	0.00
12,042.6	0.00	0.00	11,953.5	-242.0	-1,223.0	-32.2	2.00	-2.00	0.00
12,050.0	0.89	359.52	11,960.9	-241.9	-1,223.0	-32.1	12.00	12.00	0.00
12,075.0	3.89	359.52	11,985.9	-240.9	-1,223.0	-31.1	12.00	12.00	0.00
12,100.0	6.89	359.52	12,010.8	-238.6	-1,223.0	-28.8	12.00	12.00	0.00
12,125.0	9.89	359.52	12,035.5	-234.9	-1,223.1	-25.2	12.00	12.00	0.00
12,150.0	12.89	359.52	12,060.0	-230.0	-1,223.1	-20.3	12.00	12.00	0.00
12,175.0	15.89	359.52	12,084.2	-223.8	-1,223.2	-14.2	12.00	12.00	0.00
12,200.0	18.89	359.52	12,108.1	-216.3	-1,223.2	-6.8	12.00	12.00	0.00
12,225.0	21.89	359.52	12,131.5	-207.6	-1,223.3	1.8	12.00	12.00	0.00
12,250.0	24.89	359.52	12,154.4	-197.7	-1,223.4	11.6	12.00	12.00	0.00
12,275.0	27.89	359.52	12,176.8	-186.5	-1,223.5	22.6	12.00	12.00	0.00
12,300.0	30.89	359.52	12,198.6	-174.3	-1,223.6	34.7	12.00	12.00	0.00
12,325.0	33.89	359.52	12,219.7	-160.9	-1,223.7	47.9	12.00	12.00	0.00
12,350.0	36.89	359.52	12,240.1	-146.4	-1,223.8	62.2	12.00	12.00	0.00
12,375.0	39.89	359.52	12,259.7	-130.9	-1,223.9	77.5	12.00	12.00	0.00
12,400.0	42.89	359.52	12,278.5	-114.4	-1,224.1	93.8	12.00	12.00	0.00
12,425.0	45.89	359.52	12,296.3	-96.9	-1,224.2	111.1	12.00	12.00	0.00
12,450.0	48.89	359.52	12,313.2	-78.5	-1,224.4	129.2	12.00	12.00	0.00
12,475.0	51.89	359.52	12,329.2	-59.2	-1,224.5	148.2	12.00	12.00	0.00
12,500.0	54.89	359.52	12,344.1	-39.2	-1,224.7	168.0	12.00	12.00	0.00
12,525.0	57.89	359.52	12,357.9	-18.3	-1,224.9	188.6	12.00	12.00	0.00
12,550.0	60.89	359.52	12,370.7	3.2	-1,225.1	209.8	12.00	12.00	0.00
12,575.0	63.89	359.52	12,382.2	25.3	-1,225.2	231.7	12.00	12.00	0.00
12,600.0	66.89	359.52	12,392.6	48.0	-1,225.4	254.1	12.00	12.00	0.00
12,625.0	69.89	359.52	12,401.9	71.3	-1,225.6	277.1	12.00	12.00	0.00
12,650.0	72.89	359.52	12,409.8	95.0	-1,225.8	300.4	12.00	12.00	0.00
12,675.0	75.89	359.52	12,416.6	119.0	-1,226.0	324.2	12.00	12.00	0.00
12,700.0	78.89	359.52	12,422.0	143.4	-1,226.2	348.3	12.00	12.00	0.00
12,725.0	81.89	359.52	12,426.2	168.1	-1,226.4	372.6	12.00	12.00	0.00
12,750.0	84.89	359.52	12,429.1	192.9	-1,226.6	397.1	12.00	12.00	0.00
12,775.0	87.89	359.52	12,430.6	217.9	-1,226.8	421.7	12.00	12.00	0.00
12,792.6	90.00	359.52	12,431.0	235.4	-1,227.0	439.1	12.00	12.00	0.00
12,800.0	90.00	359.52	12,431.0	242.9	-1,227.1	446.4	0.00	0.00	0.00
12,900.0	90.00	359.52	12,431.0	342.9	-1,227.9	545.1	0.00	0.00	0.00
13,000.0	90.00	359.52	12,431.0	442.9	-1,228.7	643.8	0.00	0.00	0.00
13,100.0	90.00	359.52	12,431.0	542.8	-1,229.6	742.5	0.00	0.00	0.00
13,200.0	90.00	359.52	12,431.0	642.8	-1,230.4	841.2	0.00	0.00	0.00
13,300.0	90.00	359.52	12,431.0	742.8	-1,231.2	939.9	0.00	0.00	0.00
13,400.0	90.00	359.52	12,431.0	842.8	-1,232.1	1,038.6	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
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 Project: Lea County, NM (NAD 83 NME)
 Site: Dillon 31 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	359.52	12,431.0	942.8	-1,232.9	1,137.3	0.00	0.00	0.00
13,600.0	90.00	359.52	12,431.0	1,042.8	-1,233.8	1,236.1	0.00	0.00	0.00
13,700.0	90.00	359.52	12,431.0	1,142.8	-1,234.6	1,334.8	0.00	0.00	0.00
13,800.0	90.00	359.52	12,431.0	1,242.8	-1,235.4	1,433.5	0.00	0.00	0.00
13,900.0	90.00	359.52	12,431.0	1,342.8	-1,236.3	1,532.2	0.00	0.00	0.00
14,000.0	90.00	359.52	12,431.0	1,442.8	-1,237.1	1,630.9	0.00	0.00	0.00
14,100.0	90.00	359.52	12,431.0	1,542.8	-1,237.9	1,729.6	0.00	0.00	0.00
14,200.0	90.00	359.52	12,431.0	1,642.8	-1,238.8	1,828.3	0.00	0.00	0.00
14,300.0	90.00	359.52	12,431.0	1,742.8	-1,239.6	1,927.0	0.00	0.00	0.00
14,400.0	90.00	359.52	12,431.0	1,842.8	-1,240.4	2,025.7	0.00	0.00	0.00
14,500.0	90.00	359.52	12,431.0	1,942.8	-1,241.3	2,124.4	0.00	0.00	0.00
14,600.0	90.00	359.52	12,431.0	2,042.8	-1,242.1	2,223.1	0.00	0.00	0.00
14,700.0	90.00	359.52	12,431.0	2,142.8	-1,243.0	2,321.8	0.00	0.00	0.00
14,800.0	90.00	359.52	12,431.0	2,242.8	-1,243.8	2,420.5	0.00	0.00	0.00
14,900.0	90.00	359.52	12,431.0	2,342.8	-1,244.6	2,519.2	0.00	0.00	0.00
15,000.0	90.00	359.52	12,431.0	2,442.8	-1,245.5	2,617.9	0.00	0.00	0.00
15,100.0	90.00	359.52	12,431.0	2,542.8	-1,246.3	2,716.6	0.00	0.00	0.00
15,200.0	90.00	359.52	12,431.0	2,642.8	-1,247.1	2,815.3	0.00	0.00	0.00
15,300.0	90.00	359.52	12,431.0	2,742.8	-1,248.0	2,914.0	0.00	0.00	0.00
15,400.0	90.00	359.52	12,431.0	2,842.8	-1,248.8	3,012.7	0.00	0.00	0.00
15,500.0	90.00	359.52	12,431.0	2,942.8	-1,249.7	3,111.4	0.00	0.00	0.00
15,600.0	90.00	359.52	12,431.0	3,042.8	-1,250.5	3,210.1	0.00	0.00	0.00
15,700.0	90.00	359.52	12,431.0	3,142.8	-1,251.3	3,308.8	0.00	0.00	0.00
15,800.0	90.00	359.52	12,431.0	3,242.8	-1,252.2	3,407.5	0.00	0.00	0.00
15,900.0	90.00	359.52	12,431.0	3,342.7	-1,253.0	3,506.2	0.00	0.00	0.00
16,000.0	90.00	359.52	12,431.0	3,442.7	-1,253.8	3,604.9	0.00	0.00	0.00
16,100.0	90.00	359.52	12,431.0	3,542.7	-1,254.7	3,703.6	0.00	0.00	0.00
16,200.0	90.00	359.52	12,431.0	3,642.7	-1,255.5	3,802.4	0.00	0.00	0.00
16,300.0	90.00	359.52	12,431.0	3,742.7	-1,256.4	3,901.1	0.00	0.00	0.00
16,400.0	90.00	359.52	12,431.0	3,842.7	-1,257.2	3,999.8	0.00	0.00	0.00
16,500.0	90.00	359.52	12,431.0	3,942.7	-1,258.0	4,098.5	0.00	0.00	0.00
16,600.0	90.00	359.52	12,431.0	4,042.7	-1,258.9	4,197.2	0.00	0.00	0.00
16,700.0	90.00	359.52	12,431.0	4,142.7	-1,259.7	4,295.9	0.00	0.00	0.00
16,800.0	90.00	359.52	12,431.0	4,242.7	-1,260.5	4,394.6	0.00	0.00	0.00
16,900.0	90.00	359.52	12,431.0	4,342.7	-1,261.4	4,493.3	0.00	0.00	0.00
17,000.0	90.00	359.52	12,431.0	4,442.7	-1,262.2	4,592.0	0.00	0.00	0.00
17,100.0	90.00	359.52	12,431.0	4,542.7	-1,263.0	4,690.7	0.00	0.00	0.00
17,200.0	90.00	359.52	12,431.0	4,642.7	-1,263.9	4,789.4	0.00	0.00	0.00
17,300.0	90.00	359.52	12,431.0	4,742.7	-1,264.7	4,888.1	0.00	0.00	0.00
17,400.0	90.00	359.52	12,431.0	4,842.7	-1,265.6	4,986.8	0.00	0.00	0.00
17,500.0	90.00	359.52	12,431.0	4,942.7	-1,266.4	5,085.5	0.00	0.00	0.00
17,600.0	90.00	359.52	12,431.0	5,042.7	-1,267.2	5,184.2	0.00	0.00	0.00
17,700.0	90.00	359.52	12,431.0	5,142.7	-1,268.1	5,282.9	0.00	0.00	0.00
17,800.0	90.00	359.52	12,431.0	5,242.7	-1,268.9	5,381.6	0.00	0.00	0.00
17,900.0	90.00	359.52	12,431.0	5,342.7	-1,269.7	5,480.3	0.00	0.00	0.00
18,000.0	90.00	359.52	12,431.0	5,442.7	-1,270.6	5,579.0	0.00	0.00	0.00
18,100.0	90.00	359.52	12,431.0	5,542.7	-1,271.4	5,677.7	0.00	0.00	0.00
18,200.0	90.00	359.52	12,431.0	5,642.7	-1,272.3	5,776.4	0.00	0.00	0.00
18,300.0	90.00	359.52	12,431.0	5,742.7	-1,273.1	5,875.1	0.00	0.00	0.00
18,400.0	90.00	359.52	12,431.0	5,842.7	-1,273.9	5,973.8	0.00	0.00	0.00
18,500.0	90.00	359.52	12,431.0	5,942.7	-1,274.8	6,072.5	0.00	0.00	0.00
18,600.0	90.00	359.52	12,431.0	6,042.7	-1,275.6	6,171.2	0.00	0.00	0.00
18,700.0	90.00	359.52	12,431.0	6,142.7	-1,276.4	6,270.0	0.00	0.00	0.00
18,800.0	90.00	359.52	12,431.0	6,242.6	-1,277.3	6,368.7	0.00	0.00	0.00



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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,900.0	90.00	359.52	12,431.0	6,342.6	-1,278.1	6,467.4	0.00	0.00	0.00
19,000.0	90.00	359.52	12,431.0	6,442.6	-1,278.9	6,566.1	0.00	0.00	0.00
19,100.0	90.00	359.52	12,431.0	6,542.6	-1,279.8	6,664.8	0.00	0.00	0.00
19,200.0	90.00	359.52	12,431.0	6,642.6	-1,280.6	6,763.5	0.00	0.00	0.00
19,300.0	90.00	359.52	12,431.0	6,742.6	-1,281.5	6,862.2	0.00	0.00	0.00
19,400.0	90.00	359.52	12,431.0	6,842.6	-1,282.3	6,960.9	0.00	0.00	0.00
19,500.0	90.00	359.52	12,431.0	6,942.6	-1,283.1	7,059.6	0.00	0.00	0.00
19,600.0	90.00	359.52	12,431.0	7,042.6	-1,284.0	7,158.3	0.00	0.00	0.00
19,700.0	90.00	359.52	12,431.0	7,142.6	-1,284.8	7,257.0	0.00	0.00	0.00
19,800.0	90.00	359.52	12,431.0	7,242.6	-1,285.6	7,355.7	0.00	0.00	0.00
19,900.0	90.00	359.52	12,431.0	7,342.6	-1,286.5	7,454.4	0.00	0.00	0.00
20,000.0	90.00	359.52	12,431.0	7,442.6	-1,287.3	7,553.1	0.00	0.00	0.00
20,081.4	90.00	359.52	12,431.0	7,524.0	-1,288.0	7,633.4	0.00	0.00	0.00

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Dillon 31 Fed Com - hit/miss target - Shape - Point	0.00	0.00	11,953.5	-242.0	-1,223.0	425,444.00	796,628.00	32° 10' 0.961 N	103° 30' 29.873 W
FTP(Dillon 31 Fed Com - plan misses target center by 163.4usft at 12446.2usft MD (12310.7 TVD, -81.4 N, -1224.3 E) - Point	0.00	0.00	12,431.0	-192.0	-1,223.0	425,494.00	796,628.00	32° 10' 1.455 N	103° 30' 29.868 W
PBHL(Dillon 31 Fed Com - plan hits target center - Point	0.00	0.00	12,431.0	7,524.0	-1,288.0	433,210.00	796,563.00	32° 11' 17.811 N	103° 30' 29.936 W