| Form 3160-3 (June 2015) UNITED STATES | FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 | | | | | |
|---|---|--|--------------------------------|---------------------------------|----------|-------------------|
| DEPARTMENT OF THE I BUREAU OF LAND MANA | 5. Lease Serial No. | | | | | |
| APPLICATION FOR PERMIT TO D | 6. If Indian, Allotee or | Tribe N | Jame | | | |
| 1a. Type of work: DRILL | EENTER | | | 7. If Unit or CA Agreen | ment, N | lame and No. |
| | her ngle Zone | Multiple Zone | | 8. Lease Name and We | ell No. | |
| 2. Name of Operator | | | | 9. API Well No. 30-0 | 25-5 | 3516 |
| 3a. Address | 3b. Phone N | o. (include area cod | le) | 10. Field and Pool, or I | | |
| 4. Location of Well <i>(Report location clearly and in accordance v</i> At surface At proposed prod. zone | vith any State | requirements.*) | | 11. Sec., T. R. M. or Bl | lk. and | Survey or Area |
| 14. Distance in miles and direction from nearest town or post offi | ce* | | | 12. County or Parish | | 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of ac | res in lease | 17. Spaci | ing Unit dedicated to this well | | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed | d Depth | a 20. BLM/BIA Bond No. in file | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approxi | mate date work will | start* | 23. Estimated duration | l | |
| | 24. Attac | hments | | | | |
| The following, completed in accordance with the requirements of (as applicable) | Onshore Oil | and Gas Order No. | l, and the I | Hydraulic Fracturing rule | e per 43 | CFR 3162.3-3 |
| Well plat certified by a registered surveyor. A Drilling Plan. | | 4. Bond to cover th Item 20 above). | e operatior | ns unless covered by an ex | xisting | oond on file (see |
| 3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office | | Operator certific Such other site sp BLM. | | rmation and/or plans as ma | ay be re | quested by the |
| 25. Signature | Name | (Printed/Typed) | | Date | | |
| Title | | | | | | |
| Approved by (Signature) Name (Printed/Typed) | | | | D | ate | |
| Title | Office | | | | | |
| Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached. | t holds legal of | or equitable title to the | nose rights | in the subject lease whic | ch woul | d entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of | | | | | / depart | ment or agency |
| | | | -0.10 | | | |



(Continued on page 2)

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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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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.

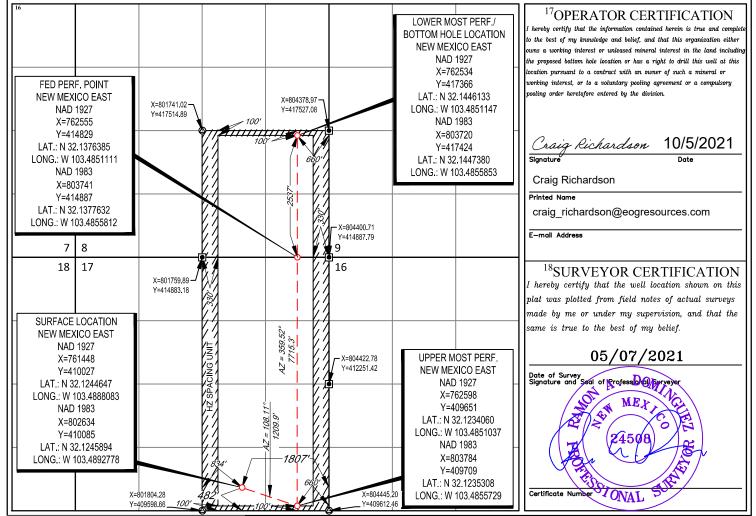
BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form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

FORM C-102 District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 **Revised August 1, 2011** Energy, Minerals & Natural Resources District II 811 S. First St., Artesia, NM 88210 Submit one copy to appropriate Department Phone: (575) 748-1283 Fax: (575) 748-9720 **District Office** District III OIL CONSERVATION DIVISION 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 South St. Francis Dr. District IV AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

| 3 | API Numbe | aber 30-025-535162Pool Code 969943Pool Name5-96994PITCHFORK RANCH; WOLFCA | | | | | | SOUTH | | |
|---|---|--|---|--------------------------------------|----------------|--------------------------|---------------------|------------------------|--------------------------------|--|
| ^{⁴Property C} 33375 | | | ⁵ Property Name SILVER TRAIN 17 FED COM | | | | | | ⁰Well Number 727H | |
| ⁷ OGRID M 7377 | | | ⁸ Operator Name EOG RESOURCES, INC. | | | | | | ⁹ Elevation 3354 | |
| | ¹⁰ Surface Location | | | | | | | | | |
| UL or lot no. O | Section 17 | Township 25–S | Range 34–E | Lot Idn — | Feet from the | North/South line | Feet from the 1807' | East/West line EAST | County LEA | |
| | | | ¹¹ E | Bottom Ho | le Location If | Different From Su | rface | | | |
| UL or lot no. I ¹² Dedicated Acres | Section 8 ¹³ Joint or | | Range 34–E solidation Cod | Lot Idn — le ¹⁵ Ord | 2537' | e North/South line SOUTH | Feet from the 660' | East/West line EAST | County LEA | |
| 480.00 | Joint or | iuiui ⁻ Con | sonuation Cod | le "Ora | er 190. | | | | | |

WELL LOCATION AND ACREAGE DEDICATION PLAT

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.



Released to Imaging: 9/9/2024 11:24:25 AM SISURVEYEOG_MIDLANDISILVER_TRAIN_17_FED_COMIFINAL_PRODUCTSILO_SILVER_TRAIN_17_FC_727H.DWG 7/1/2021 11:03:54 AM bgregory

Page 3 of 61

| Re | ceived by | OCD: | 8/28/2024 | 8:39:38 AM |
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|---|---------------|-------------------------------|---|----------------------------|-----------|-------------------|-------------|--|
| | E | State Energy, Minerals ar | e of New Mez nd Natural Res | | ent | | Subi Via | mit Electronically E-permitting |
| | | 1220 S | nservation Di outh St. Fran a Fe, NM 87 | cis Dr. | | | | |
| | N | ATURAL GA | AS MANA | GEMENT P | LAN | | | |
| This Natural Gas Manag | ement Plan n | nust be submitted wi | th each Applica | tion for Permit to | Drill (A | PD) for a | new of | r recompleted well. |
| | | | <u>1 – Plan D</u> fective May 25. | | | | | |
| I. Operator:EOG F | Resources, In | c OGRID |): 7377 | | D | ate: 08/2 | 27/2024 | 4 |
| II. Type: ⊠ Original Other. | | the nent due to \Box 19.15. | 27.9.D(6)(a) NI | MAC 🗆 19.15.27. | 9.D(6)(| b) NMAC | | |
| If Other, please describe: | | | | | | | | |
| III. Well(s): Provide the be recompleted from a si | | | | | wells p | roposed to | be dri | illed or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | | icipated MCF/D | Р | Anticipated Produced Water BBL/D |
| SILVER TRAIN 17 FED COM 727H | | O-17-258-34E | 482' FSL & 1807' FEL | +/- 1000 | +/- 3 | | | |
| IV. Central Delivery Po V. Anticipated Schedu | | | | | | | | |
| or proposed to be recomp | | | | | | set of we | iis pio | posed to be drifted |
| Well Name | API | Spud Date | TD Reached Date | Completion Commencement | | Initial Back I | | First Production Date |
| SILVER TRAIN 17 FED COM 727H | | 09/01/24 | 09/26/24 | 12/1/24 | | 01/1/25 | | 01/15/25 |
| VI. Separation Equipm | ent: 🛛 Attac | ch a complete descrip | otion of how Op | erator will size sep | paration | equipme | nt to op | ptimize gas capture. |
| VII. Operational Pract Subsection A through F | | - | iption of the ac | tions Operator wi | ll take 1 | to comply | with t | the requirements of |
| VIII. Best Managemen during active and planne | | - | e description of | f Operator's best 1 | nanage | ment prac | tices to | o minimize venting |

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

I Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|---|---|
| | | | |
| | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in | | |
|----------|--------|-----------------|-------------------------------------|--|--|--|
| | | | | | | |
| | | | | | | |

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (**h**) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Kayla McConnell Printed Name: KAYLA MCCONNELL Title: Regulatory Specialist E-mail Address: KAYLA_MCCONNELL@EOGRESOURCES.COM Date: 08/21/2024 Phone: (432) 265-6804 **OIL CONSERVATION DIVISION** (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date: Conditions of Approval:

Natural Gas Management Plan Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

<u>VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize</u> venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
 All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

Seog resources

Silver Train 17 Fed Com 727H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| Rustler | 1,033' |
|-----------------------------------|-----------------|
| Tamarisk Anhydrite | 1,113' |
| Top of Salt | 1,428' |
| Base of Salt | 5,024' |
| Lamar | 5,284' |
| Bell Canyon | 5,311' |
| Cherry Canyon | 6,267' |
| Brushy Canyon | 7,822' |
| Bone Spring Lime | 9,329' |
| Leonard Shale | 9 <i>,</i> 348' |
| 1 st Bone Spring Sand | 10,303' |
| 2 nd Bone Spring Shale | 10,524' |
| 2 nd Bone Spring Sand | 10,921' |
| 3 rd Bone Spring Carb | 11,370' |
| 3 rd Bone Spring Sand | 11,944' |
| Wolfcamp | 12,395' |
| TD | 12,810' |

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

| Upper Permian Sands | 0-400' | Fresh Water |
|-----------------------------------|---------|-------------|
| Cherry Canyon | 6,267' | Oil |
| Brushy Canyon | 7,822' | Oil |
| Leonard Shale | 9,348' | Oil |
| 1 st Bone Spring Sand | 10,303' | Oil |
| 2 nd Bone Spring Shale | 10,524' | Oil |
| 2 nd Bone Spring Sand | 10,921' | Oil |
| 3 rd Bone Spring Carb | 11,370' | Oil |
| 3 rd Bone Spring Sand | 11,944' | Oil |
| Wolfcamp | 12,395' | 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 1,138' and circulating cement back to surface.

Seog resources

| Hole | | Csg | | | | DFmin | DFmin | DFmin |
|--------|-------------------|--------|--------|---------|-------------|----------|-------|---------|
| Size | Interval | OD | Weight | Grade | Conn | Collapse | Burst | Tension |
| 12.25" | 0' - 1,140' | 9.625" | 36# | J-55 | LTC | 1.125 | 1.25 | 1.6 |
| 8.75" | 0' - 11,470' | 7.625" | 29.7# | HCP-110 | FXL | 1.125 | 1.25 | 1.6 |
| 6.75" | 0' - 10,970' | 5.5" | 20# | P-110EC | DWC/C-IS MS | 1.125 | 1.25 | 1.6 |
| 6.75" | 10,970' - 11,470' | 5.5" | 20# | P-110EC | VAM SFC | 1.125 | 1.25 | 1.6 |
| 6.75" | 11,470' - 20,492' | 5.5" | 20# | P-110EC | DWC/C-IS MS | 1.125 | 1.25 | 1.6 |

4. CASING PROGRAM - NEW

Variance is requested to waive the centralizer requirements for the 7-5/8" 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" 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 production open hole section.

<u>Cementing Program</u>:

| | | Wt. | Yld | Slurry Description |
|----------------------------|-----------|------|--------|--|
| Depth | No. Sacks | ppg | Ft3/sk | |
| 1,140' 9.625" | 320 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 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 @ 938') |
| 11,470' 7.625" | 460 | 14.2 | 1.11 | 1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,622') |
| | 1300 | 14.8 | 1.5 | 2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface) |
| 20,492' _{5.5"} | 820 | 14.2 | 1.31 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,970') |

| 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 (7,822') 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 1,301 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. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed (per clarification from BLM 4/21/2020). 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.

Cement integrity tests will be performed immediately following plug bump.

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 will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

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 | Туре | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0 - 1,140' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,140' – 11,470' | Brine | 10.0-10.2 | 28-34 | N/c |
| 11,470' – 12,454' | Oil Base | 8.7-9.4 | 58-68 | N/c - 6 |
| 12,454' – 20,492' Lateral | Oil Base | 10.0-14.0 | 58-68 | 4 - 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.



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 198 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9326 psig and a maximum anticipated surface pressure of 6507 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 7,822' 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.

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.

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.

Seog resources

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

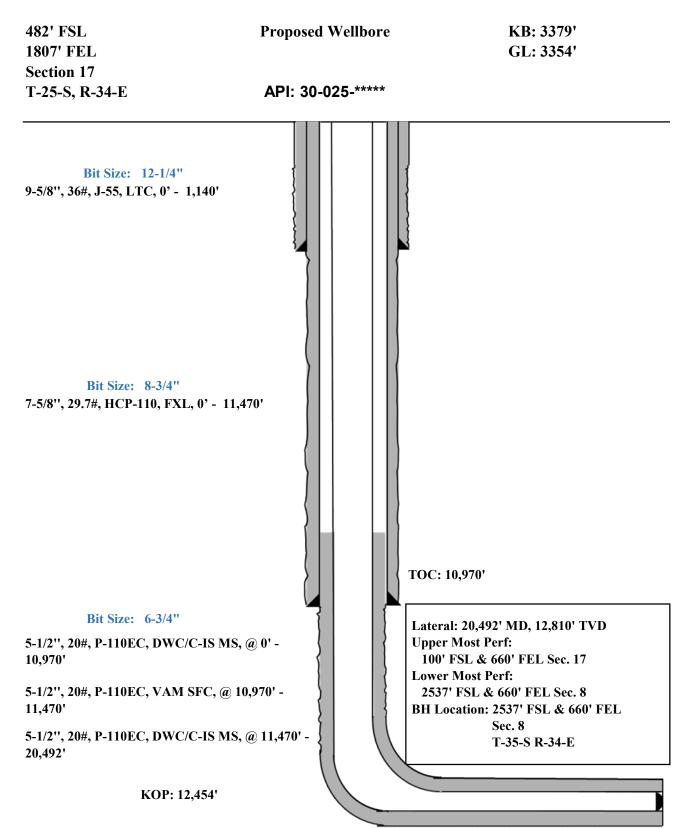
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

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.

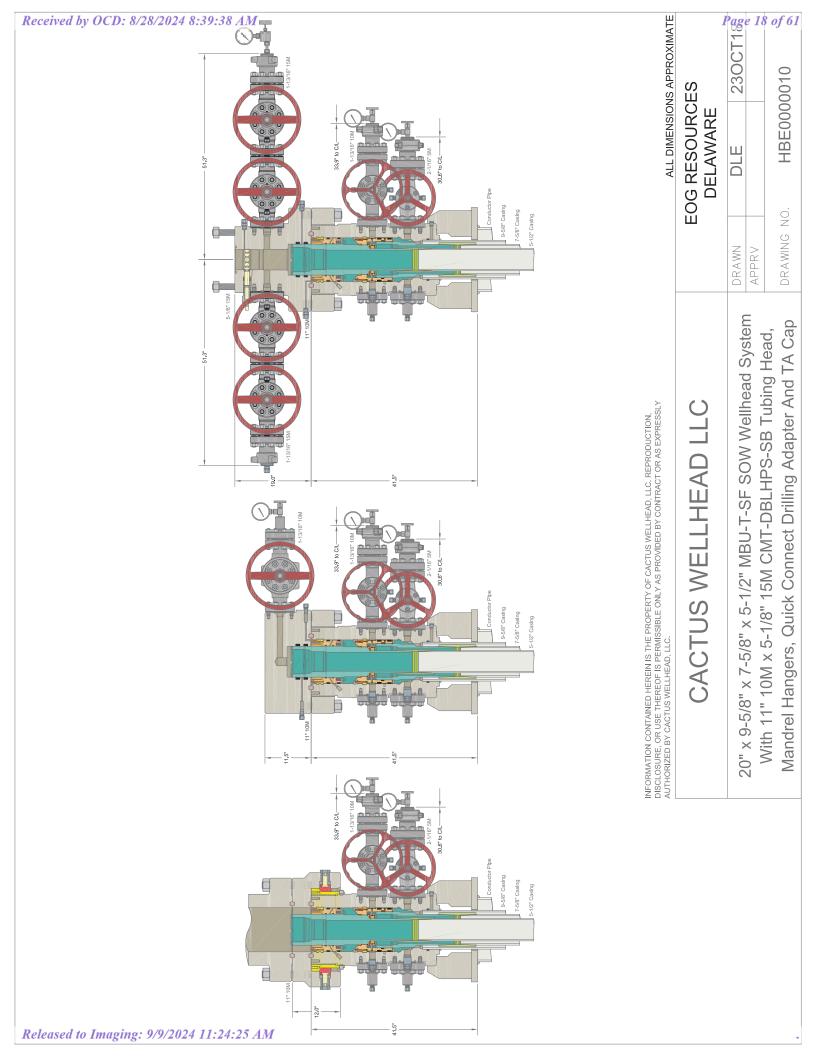
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) to include the following:

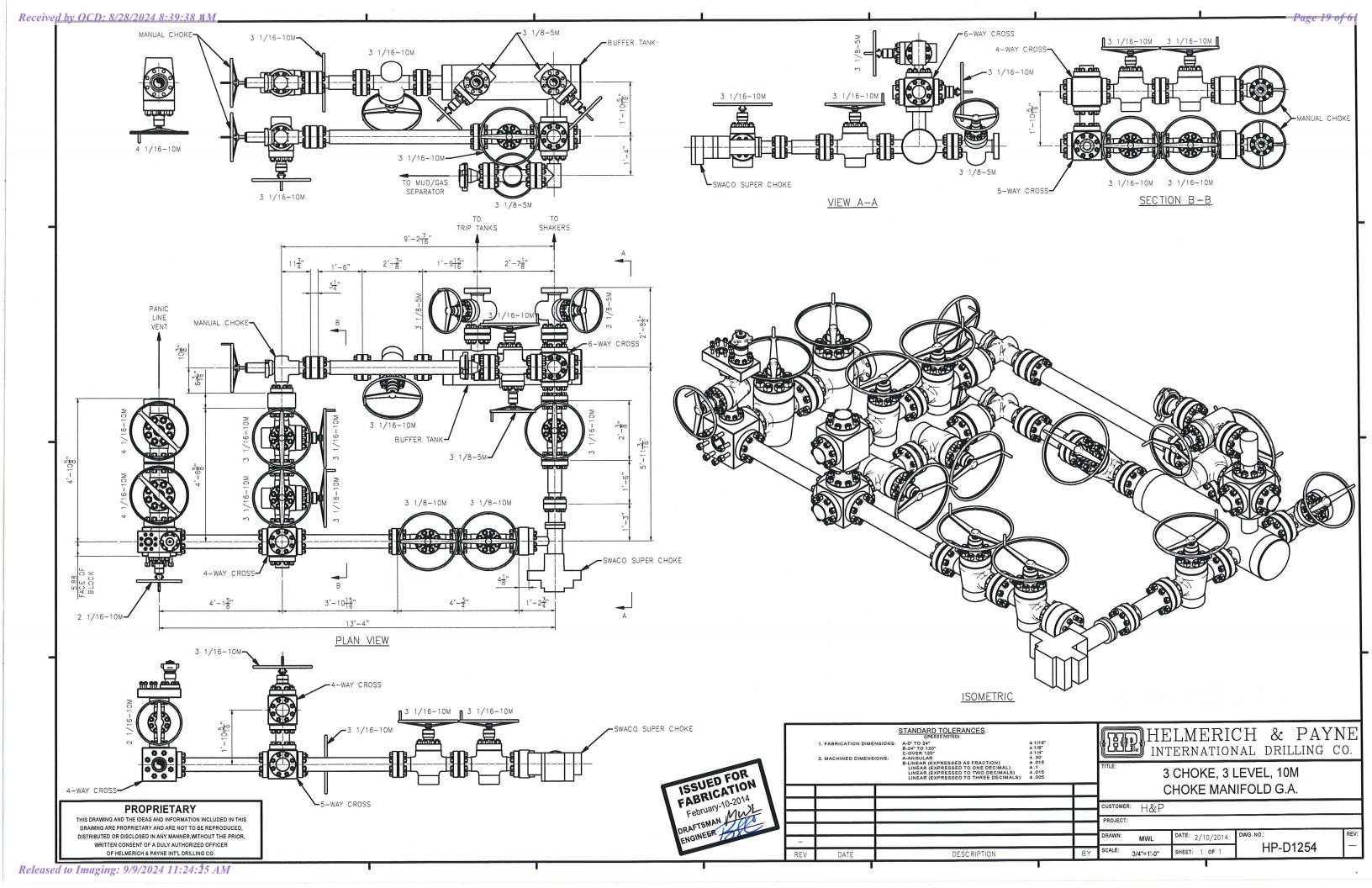
- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and production sections that do not penetrate the Wolfcamp or deeper formations.
- After the well section is cemented the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. The cemented well will be secured with a blind flange and a pressure gauge for monitoring.



•

| etal One Corp. | MO-FXL | | Page | MCTP | | |
|--|--|--|---|--|--|--|
| | WO-I AL | | Date | 3-Nov-1 | 6 | |
| Metal One | Connection Data | a Sheet | | | | |
| | | a oneot | Rev. | 0 | | |
| | Geometry | Imperia | 1 | <u>S.I.</u> | | |
| | Pipe Body | Dittollo to | | Det to LIC te | | |
| | Grade | P110HC *1 | in. | P110HC*1 | | |
| | Pipe OD (D) Weight | 7 5/8 | in Ib/ft | 193.68 | mm | |
| MO-FXL | Actual weight | 29.70 | lb/ft | 44.25 | kg/m | |
| | | 29.04 | | 43.26 | kg/m | |
| | Wall Thickness (t) | 0.375 | in | 9.53 | mm | |
| | Pipe ID (d) | 6.875 | in | 174.63 | mm | |
| | Pipe body cross section | 8.537 | in ² | 5,508 | mm ² | |
| | Drift Dia. | 6.750 | in | 171.45 | mm | |
| | Connection | | | | | |
| | Box OD (W) | 7.625 | in | 193.68 | mm | |
| A | PIN ID | 6.875 | in | 174.63 | mm | |
| | Make up Loss | 4.219 | in | 107.16 | mm | |
| | Box Critical Area | 5.714 | in ² | 3686 | mm ² | |
| Box | Joint load efficiency | 70 | % | 70 | % | |
| | Thread Taper | 1 / 10 (1.2" per ft) | | | | |
| h area | Thead taper | | / 10 (1. | 2 peril) | | |
| | Number of Threads | | | TPI | | |
| Aake p D555 D | Number of Threads Performance | | | | | |
| Aake p | Number of Threads | | | | kN | |
| Aake p 555 D | Number of Threads Performance Performance Properties | for Pipe Body | 5 | TPI | kN MPa | |
| Aake P | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 | for Pipe Body 1,067 10,760 7,360 | 5 kips psi psi | TPI 4,747 74.21 50.76 | MPa MPa | |
| fake p bss D | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 | for Pipe Body 1,067 10,760 7,360 | 5 kips psi psi | TPI 4,747 74.21 50.76 | MPa MPa | |
| take p iss D Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield | kips psi psi LD Strer Pressu | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body | MPa MPa | |
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| fake p bss D Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifind.I.Y.P. = Minimindiated on VSB Performance Properties | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connectio | kips psi psi ED Strer Pressur 5~140ks n | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body si) | MPa MPa | |
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Hose Inspection Report

ContiTech Oil & Marine

| Customer | Customer Customer Reference # | | CBC Inspector | Date of Inspection | |
|--------------|-------------------------------|-----------|----------------------|--------------------|--|
| H&P Drilling | 740021604 | COM906112 | A. Jaimes | 10/17/2016 | |

Hose Manufacturer Contitech Rubber Industrial

| Hose Serial # | 62429 | Date of Manufacture | 05/2012 | | | |
|---------------------|---------------------------------|---|---------------|--|--|--|
| Hose I.D. | 3" | Working Pressure | 10000PSI | | | |
| Hose Type | Choke and Kill | Test Pressure | 15000PSI | | | |
| Manufacturing Stan | dard API 16C | | | | | |
| Connections | | | | | | |
| End A: 3.1/16" 10K | Psi API Spec 6A Type 6BX Flange | End B: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange | | | | |
| No damage | | No damage | | | | |
| Material: Carbon St | eel | Material: Carbon Steel | | | | |
| Seal Face: BX154 | | Seal Face: BX154 | | | | |
| Length Before Hydr | o Test: 16' | Length After Hydro tes | t: 16' | | | |
| | | | | | | |

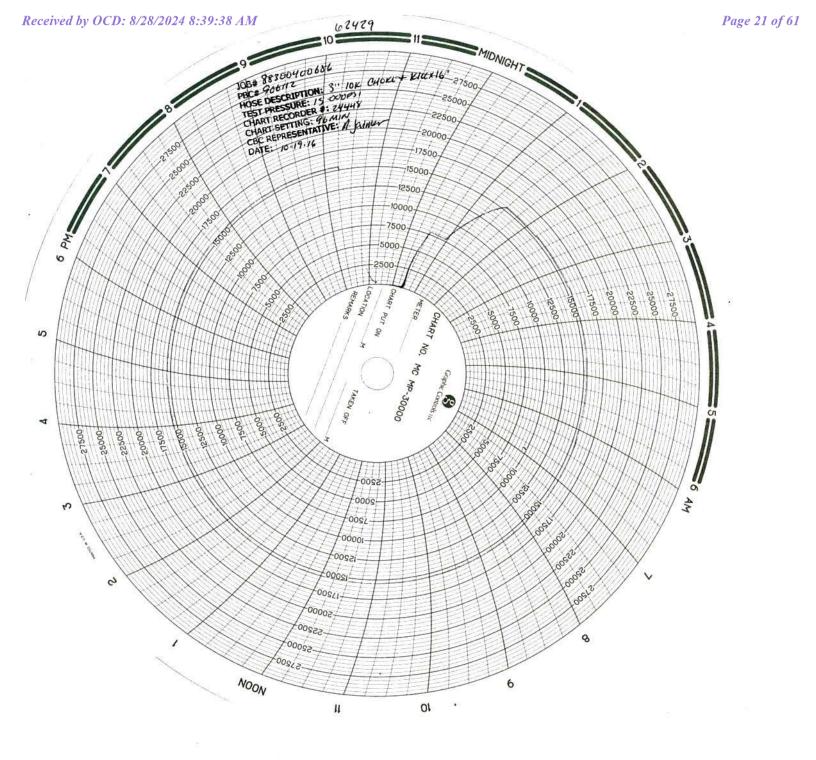
Conclusion: Hose #62429 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the hose liner. Hose #62429 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #62429 is suitable for continued service.</u>

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 months (or during installation/removal) Annual: In-situ pressure test Initial 5 years service: Major inspection 2nd Major inspection: 8 / 10 years of service (Detailed description of test regime available upon request, ISS-059 Rev 04)

**NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

Checked By: Jeremy Mckay Date: 10/25/2016 QF97



EOG RESOURCES, INC. Silver Train 17 Fed Com #727H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

■ H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.
- Mud program:

EOG RESOURCES, INC. Silver Train 17 Fed Com #727H

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.

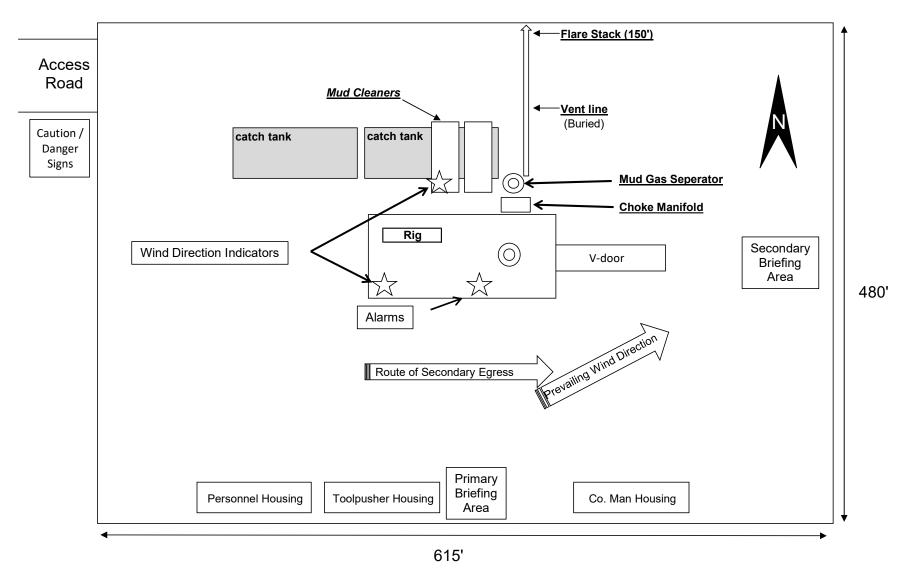
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EOG RESOURCES, INC. Silver Train 17 Fed Com #727H

| Emergency Assistance Telephone | LISU | |
|---------------------------------|--------|-----------------|
| PUBLIC SAFETY: | | 911 or |
| Lea County Sheriff's Department | | (575) 396-3611 |
| Rod Coffman | | |
| Fire Department: | | |
| Carlsbad | | (575) 885-3125 |
| Artesia | | (575) 746-5050 |
| Hospitals: | | |
| Carlsbad | | (575) 887-4121 |
| Artesia | | (575) 748-3333 |
| Hobbs | | (575) 392-1979 |
| Dept. of Public Safety/Carlsbad | | (575) 748-9718 |
| Highway Department | | (575) 885-3281 |
| New Mexico Oil Conservation | | (575) 476-3440 |
| U.S. Dept. of Labor | | (575) 887-1174 |
| 0.5. Dept. of Labor | | (373) 007-1174 |
| EOG Resources, Inc. | | |
| EOG / Midland | Office | (432) 686-3600 |
| | Office | (+32) 000-3000 |
| Company Drilling Consultants: | | |
| Jett Dueitt | Cell | (122) 220 1810 |
| | Cell | (432) 230-4840 |
| Blake Burney | | |
| | | |
| Drilling Engineer | 0.00 | (122) (96 2600 |
| Steve Munsell | | (432) 686-3609 |
| | Cell | (432) 894-1256 |
| Drilling Manager | 0.00 | (122) (0 (2551 |
| Aj Dach | | (432) 686-3751 |
| | Cell | (817) 480-1167 |
| Drilling Superintendent | | |
| Jason Townsend | | (432) 848-9209 |
| | Cell | (210) 776-5131 |
| H&P Drilling | | |
| H&P Drilling | Office | (432) 563-5757 |
| H&P 415 Drilling Rig | Rig | (432) 230-4840 |
| | | |
| Tool Pusher: | | |
| Johnathan Craig | Cell | (817) 760-6374 |
| Brad Garrett | | |
| | | |
| Safety | | |
| Brian Chandler (HSE Manager) | Office | (432) 686-3695 |
| | Cell | (817) 239-0251 |
| | ~~~ | (31,) 20, 0201 |

Emergency Assistance Telephone List

Exhibit 4 Well Site Diagram EOG Resources Silver Train 17 Fed Com #727H





Midland

Lea County, NM (NAD 83 NME) Silver Train 17 Fed Com #727H

OH

Plan: Plan #0.1 RT

Standard Planning Report

24 August, 2021



| From: Map Easting: 799,964.00 usft Longitude: 103° 29' 52.45 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 ° 1 1 103° 29' 52.45 1 1 1 103° 29' 52.45 1 1 1 103° 29' 52.45 1 1 1 0.0 usft Slot Radius: 13-3/16 ° 1 1 1 0.0 usft Slot Radius: 13-3/16 ° 1 1 0.0 usft 1 1 0.0 usft 1 1 0.0 usft Northing: 410,085.00 usft Latitude: 32° 7' 28.52 32° 7' 28.52 1 1 0.0 usft Wellbore 1 1 0.0 usft Wellbace 1 1 0.0 usft Wellbace 1 | Cogic | | ~~ | | | | | | | | |
|--|---|--|----------------|-------------|--|---|---------------|------|--|---|--|
| Map System: US State Plane 1983 North American Datum 1993 System Datum: Mean Sea Level Site Silver Train 17 Fed Com Site Position: North Mareican Datum 1993 32" 7" 28.00 Site Osition: Map Northing: 410.012.00 usft Latitude: 32" 7" 28.00 From: Map Northing: 10.0 usft Site Position 103" 29" 52.45 From: Map Easting: 799.964.00 usft Longitude: 32" 7" 28.00 Veil #727H User State Easting: 13.3/16 " Longitude: 103" 29" 52.45 Veil Position Uncertainty 0.0 usft Northing: 410.085.00 usft Latitude: 32" 7" 28.50 For ind Convergence: 0.45 * Sole Radius: 13.3/16 " Ground Level: 3.354.0 Grid Convergence: 0.45 * Model Name Sample Date Declination Ground Level: 3.354.0 Veilibore OH IGRF2020 7/27/2021 6.49 59.82 47.432.15971441 Design Plan #0.1 RT Ident Hotes: 0.0 0.0 0.0 0.0 Vericical Section: Phase: | Company: Project: Site: Well: Wellbore: | Midland Lea County, NM (NAD 83 NME) Silver Train 17 Fed Com #727H OH Plan #0.1 RT | | | TVD Reference MD Reference North Referen | TVD Reference:kbMD Reference:kbNorth Reference:Gr | | | kb = 25' @ 3379.0usft kb = 25' @ 3379.0usft Grid | | |
| Ceep Datum: Map Zone: North American Datum 1983 New Mexico Eastern Zone Site Silver Train 17 Fed Com Site Position: From: Map Northing: Easting: 0.0 usft 410.012.00 usft 1.03* 29* 7.28.00 Latitude: Longitude: 32* 7* 28.00 Well #727H Easting: 900 usft 1.03* 29* 21.40 Sold Radius: 1.33/16 * Well Position Uncertainty: 0.0 usft Northing: Easting: 410.085.00 usft Latitude: 32* 7* 28.50 Veil Position Uncertainty #V/.S 0.0 usft Northing: 410.085.00 usft Latitude: 32* 7* 28.50 Veil Position Uncertainty 0.0 usft Northing: 410.085.00 usft Longitude: 103* 29* 21.40 Position Uncertainty 0.0 usft Northing: 410.085.00 usft Longitude: 3354.0 Weilbore OH Model Name Sample Date Declination (') Dip Angle (') Field Strength (nT) Vertical Section: Phan #0.1 RT Audit Notes: 0.0 0.0 0.0 0.42 Postion (usft) Usft) Usft) Usft) Usft) O Easting: Dip Angle (') Field Strength (') O | Project | Lea County, N | NM (NAD 83 NM | IE) | | | | | | | |
| Site Position: From: Map Northing: Easting: 410.012.00 usft 799,964.00 usft 13-3/16 " Latitude: Longitude: 32° 7 28.07 103° 29 52.45 Weil #727H #727H Longitude: 103° 29 52.45 Weil #727H Use Sold Radius: 13-3/16 " Weil #727H Use Sold Radius: 13-3/16 " Weil Position +N/-S 0.0 usft Northing: 410,085.00 usft Latitude: 32° 7' 28.07 Position Uncertainty 0.0 usft Northing: 410,085.00 usft Latitude: 32° 7' 28.07 Position Uncertainty 0.0 usft Northing: 410,085.00 usft Latitude: 32° 7' 28.07 Weilbore OH Easting: 802.634.00 usft Longitude: 103° 29' 21.40 Megnetics Model Name Sample Date Declination Dip Angle Field Strength (n) IGRF2020 7/27/2021 6.49 59.82 47.432.15971441 Design Plan #0.1 RT Useth (usft) (usft) (usft) (usft) (usf | Geo Datum: | North Americar | Datum 1983 | | System Datum: | | Mean Sea Leve | · | | | |
| Map Easting: 799,964.00 usft Longitude: 103' 29' 52.45 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 * 103' 29' 52.45 Weil #727H #799,964.00 usft Longitude: 103' 29' 52.45 Weil #727H #10.085.00 usft Latitude: 32'' 7' 28.57 Weil Position #N/S 0.0 usft Northing: 410,085.00 usft Latitude: 103'' 29' 52.45 Position Uncertainty 0.0 usft Basting: 802,634.00 usft Longitude: 103'' 29' 52.45 Position Uncertainty 0.0 usft Weilhead Elevation: usft Ground Level: 3.354.0 Grid Convergence: 0.45 ° Weilhead Elevation: usft Ground Level: 3.354.0 Weilbore OH IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT 0.0 0.0 0.0 0.0 Vertical Section: Pepth From (TVD) +N/-S +E/-W Direction 0.0 <td>Site</td> <td>Silver Train 1</td> <td>7 Fed Com</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Site | Silver Train 1 | 7 Fed Com | | | | | | | | |
| Well Position +N/-S 0.0 usft +E/-W Northing: 0.0 usft 410,085.00 usft Basting: Latitude: 802,634.00 usft B02,634.00 usft Latitude: Longitude: 32° 7' 28.57 Position Uncertainty Grid Convergence: 0.0 usft 0.45 ° Wellhead Elevation: usft Ground Level: 3.354.0 Wellbore 0H Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT Hase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) 0.0 Image: Plan Survey Tool Program Date 8/24/2021 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Tool Name Remarks 1 1 0.0 20.491.6 Plan 9.1 RT (OH) EOG MWD+IFR1 EOG MWD+IFR1 | From: | • | 0.0 usft | Easting: | 799,964. | 00 usft Longitu | | | 32° 7' 28.004 103° 29' 52.457 | I | |
| +E/-W 0.0 usft Easting: 802,634.00 usft Longitude: 103° 29' 21.40 Position Uncertainty 0.0 usft Wellhead Elevation: usft Ground Level: 3,354.0 Grid Convergence: 0.45 ° 0.45 ° Sample Date Usft Ground Level: 3,354.0 Wellbore OH Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT 47,432.15971441 Version: Plan #0.1 RT 0.0 0.0 0.0 Vertical Section: Plan #0.1 RT 0.0 0.0 0.0 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (r) 0.0 0.0 0.0 0.0 0.0 0.0 8.42 0.0 | Well | #727H | | | | | | | | | |
| Grid Convergence: 0.45 ° Wellbore OH Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT Audit Notes: Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S +E/-W Direction (°) Plan Survey Tool Program Date 8/24/2021 Eog MWD+IFR1 Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 Remarks | | | 0.0 usft | Easting: | 8 | 02,634.00 usft | Longitude: | | 32° 7' 28.52 103° 29' 21.404 3,354.0 נ | w | |
| Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT | - | | 0.45 ° | | | | | | | | |
| (°) (°) (nT) IGRF2020 7/27/2021 6.49 59.82 47,432.15971441 Design Plan #0.1 RT Audit Notes: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 8.42 | Wellbore | OH | | | | | | | | | |
| Design Plan #0.1 RT Audit Notes: Phase: PLAN Tie On Depth: 0.0 Version: Pepth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (") 0.0 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Depth From (usft) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | Magnetics | Model Na | ime | Sample Date | | | | | - | | |
| Audit Notes: Phase: PLAN Tie On Depth: 0.0 Version: Depth From (TVD) +N/-S +E/-W Direction Vertical Section: Depth From (TVD) +N/-S +E/-W Direction 0.0 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Plan Survey Tool Program Date 8/24/2021 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | | IG | RF2020 | 7/27/2021 | | 6.49 | 59.82 | | 47,432.15971441 | | |
| Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (usft) 0.0 0.0 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Remarks EOG NWD+IFR1 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 EOG MWD+IFR1 | Design | Plan #0.1 RT | | | | | | | | | |
| Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°) 0.0 0.0 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Depth From (usft) Depth To (usft) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | Audit Notes: | | | | | | | | | | |
| (usft) (usft) (usft) (°) 0.0 0.0 0.0 8.42 Plan Survey Tool Program Date 8/24/2021 Depth From (usft) Depth To (usft) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | Version: | | | Phase: | PLAN | Tie On Dep | oth: | 0.0 | | | |
| Plan Survey Tool Program Date 8/24/2021 Depth From (usft) Depth To (usft) Survey (Wellbore) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | Vertical Section: | | (u | isft) | (usft) | (usft) | I | (°) | | | |
| Depth From (usft) Depth To (usft) Depth To Survey (Wellbore) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | | | l |).0 | 0.0 | 0.0 | | 8.42 | | | |
| (usft) (usft) Survey (Wellbore) Tool Name Remarks 1 0.0 20,491.6 Plan #0.1 RT (OH) EOG MWD+IFR1 | Plan Survey Tool Pro | gram | Date 8/24/2 | 2021 | | | | | | | |
| | | • | Survey (Wellbo | ore) | Tool Name | Rema | arks | | | | |
| MWD + IFR1 | 1 0.0 | 20,491.6 | Plan #0.1 RT (| OH) | EOG MWD+IFR1 MWD + IFR1 | | | | | | |

.



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 | |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,883.6 | 11.67 | 110.33 | 1,879.6 | -20.6 | 55.6 | 2.00 | 2.00 | 0.00 | 110.33 | |
| 7,359.7 | 11.67 | 110.33 | 7,242.4 | -405.4 | 1,094.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,943.3 | 0.00 | 0.00 | 7,822.0 | -426.0 | 1,150.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 12,453.8 | 0.00 | 0.00 | 12,332.5 | -426.0 | 1,150.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP(Silver Train 17 |
| 12,674.2 | 26.46 | 0.00 | 12,545.2 | -376.0 | 1,150.0 | 12.00 | 12.00 | 0.00 | 0.00 | FTP(Silver Train 17 |
| 13,203.8 | 90.00 | 359.51 | 12,809.9 | 51.5 | 1,147.5 | 12.00 | 12.00 | -0.09 | -0.55 | |
| 17,954.5 | 90.00 | 359.51 | 12,810.0 | 4,802.0 | 1,107.0 | 0.00 | 0.00 | 0.00 | 0.00 | Fed Perf 1(Silver Tr |
| 20,491.6 | 90.00 | 359.54 | 12,810.0 | 7,339.0 | 1,086.0 | 0.00 | 0.00 | 0.00 | 87.38 | PBHL(Silver Train 1 |

Released to Imaging: 9/9/2024 11:24:25 AM



| Database: | PEDM | Local Co-ordinate Reference: | Well #727H |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company: | Midland | TVD Reference: | kb = 25' @ 3379.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb = 25' @ 3379.0usft |
| Site: | Silver Train 17 Fed Com | North Reference: | Grid |
| Well: | #727H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 RT | | |

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 | | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200 | | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300 | | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400 | | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500 | | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600 | | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700 | | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800 | | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900 | | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,000 | | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100 | | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200 | | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300 | | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400 | | 110.33 | 1,400.0 | -0.6 | 1.6 | -0.4 | 2.00 | 2.00 | 0.00 |
| 1,500 | | 110.33 | 1,499.8 | -2.4 | 6.5 | -1.4 | 2.00 | 2.00 | 0.00 |
| 1,600 | | 110.33 | 1,599.5 | -5.5 | 14.7 | -3.2 | 2.00 | 2.00 | 0.00 |
| 1,700 | | 110.33 | 1,698.7 | -9.7 | 26.1 | -5.8 | 2.00 | 2.00 | 0.00 |
| 1,800 | | 110.33 | 1,797.5 | -15.1 | 40.8 | -9.0 | 2.00 | 2.00 | 0.00 |
| 1,883 | .6 11.67 | 110.33 | 1,879.6 | -20.6 | 55.6 | -12.2 | 2.00 | 2.00 | 0.00 |
| 1,900 | .0 11.67 | 110.33 | 1,895.6 | -21.7 | 58.7 | -12.9 | 0.00 | 0.00 | 0.00 |
| 2,000 | .0 11.67 | 110.33 | 1,993.6 | -28.8 | 77.6 | -17.1 | 0.00 | 0.00 | 0.00 |
| 2,100 | | 110.33 | 2,091.5 | -35.8 | 96.6 | -21.3 | 0.00 | 0.00 | 0.00 |
| 2,200 | .0 11.67 | 110.33 | 2,189.4 | -42.8 | 115.6 | -25.4 | 0.00 | 0.00 | 0.00 |
| 2,300 | .0 11.67 | 110.33 | 2,287.4 | -49.8 | 134.5 | -29.6 | 0.00 | 0.00 | 0.00 |
| 2,400 | .0 11.67 | 110.33 | 2,385.3 | -56.9 | 153.5 | -33.8 | 0.00 | 0.00 | 0.00 |
| 2,500 | | 110.33 | 2,483.2 | -63.9 | 172.5 | -38.0 | 0.00 | 0.00 | 0.00 |
| 2,600 | | 110.33 | 2,581.2 | -70.9 | 191.5 | -42.1 | 0.00 | 0.00 | 0.00 |
| 2,700 | | 110.33 | 2,679.1 | -78.0 | 210.4 | -46.3 | 0.00 | 0.00 | 0.00 |
| 2,800 | .0 11.67 | 110.33 | 2,777.0 | -85.0 | 229.4 | -50.5 | 0.00 | 0.00 | 0.00 |
| 2,900 | .0 11.67 | 110.33 | 2,875.0 | -92.0 | 248.4 | -54.7 | 0.00 | 0.00 | 0.00 |
| 3,000 | | 110.33 | 2,972.9 | -99.0 | 267.3 | -58.8 | 0.00 | 0.00 | 0.00 |
| 3,100 | | 110.33 | 3,070.8 | -106.1 | 286.3 | -63.0 | 0.00 | 0.00 | 0.00 |
| 3,200 | | 110.33 | 3,168.7 | -113.1 | 305.3 | -67.2 | 0.00 | 0.00 | 0.00 |
| 3,300 | | 110.33 | 3,266.7 | -120.1 | 324.3 | -71.4 | 0.00 | 0.00 | 0.00 |
| 3,400 | .0 11.67 | 110.33 | 3,364.6 | -127.1 | 343.2 | -75.5 | 0.00 | 0.00 | 0.00 |
| 3,500 | .0 11.67 | 110.33 | 3,462.5 | -134.2 | 362.2 | -79.7 | 0.00 | 0.00 | 0.00 |
| 3,600 | .0 11.67 | 110.33 | 3,560.5 | -141.2 | 381.2 | -83.9 | 0.00 | 0.00 | 0.00 |
| 3,700 | .0 11.67 | 110.33 | 3,658.4 | -148.2 | 400.1 | -88.1 | 0.00 | 0.00 | 0.00 |
| 3,800 | .0 11.67 | 110.33 | 3,756.3 | -155.3 | 419.1 | -92.2 | 0.00 | 0.00 | 0.00 |
| 3,900 | .0 11.67 | 110.33 | 3,854.3 | -162.3 | 438.1 | -96.4 | 0.00 | 0.00 | 0.00 |
| 4,000 | | 110.33 | 3,952.2 | -169.3 | 457.1 | -100.6 | 0.00 | 0.00 | 0.00 |
| 4,100 | | 110.33 | 4,050.1 | -176.3 | 476.0 | -104.8 | 0.00 | 0.00 | 0.00 |
| 4,200 | | 110.33 | 4,148.1 | -183.4 | 495.0 | -108.9 | 0.00 | 0.00 | 0.00 |
| 4,300 | | 110.33 | 4,246.0 | -190.4 | 514.0 | -113.1 | 0.00 | 0.00 | 0.00 |
| 4,400 | .0 11.67 | 110.33 | 4,343.9 | -197.4 | 532.9 | -117.3 | 0.00 | 0.00 | 0.00 |
| 4,500 | | 110.33 | 4,441.9 | -204.5 | 551.9 | -121.5 | 0.00 | 0.00 | 0.00 |
| 4,600 | | 110.33 | 4,539.8 | -211.5 | 570.9 | -125.6 | 0.00 | 0.00 | 0.00 |
| 4,700 | | 110.33 | 4,637.7 | -218.5 | 589.9 | -129.8 | 0.00 | 0.00 | 0.00 |
| 4,800 | | 110.33 | 4,735.7 | -225.5 | 608.8 | -134.0 | 0.00 | 0.00 | 0.00 |
| 4,900 | .0 11.67 | 110.33 | 4,833.6 | -232.6 | 627.8 | -138.2 | 0.00 | 0.00 | 0.00 |
| 5,000 | | 110.33 | 4,931.5 | -239.6 | 646.8 | -142.3 | 0.00 | 0.00 | 0.00 |
| 5,100 | | 110.33 | 5,029.5 | -246.6 | 665.8 | -146.5 | 0.00 | 0.00 | 0.00 |
| 5,200 | | 110.33 | 5,127.4 | -253.6 | 684.7 | -150.7 | 0.00 | 0.00 | 0.00 |
| 3,200 | 11.07 | 110.00 | S, 127. T | 200.0 | 001.7 | 100.1 | 0.00 | 0.00 | 0.00 |

8/24/2021 2:34:46PM

COMPASS 5000.16 Build 97



| Database: | PEDM | Local Co-ordinate Reference: | Well #727H |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company: | Midland | TVD Reference: | kb = 25' @ 3379.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb = 25' @ 3379.0usft |
| Site: | Silver Train 17 Fed Com | North Reference: | Grid |
| Well: | #727H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 RT | | |

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 | 11.67 | 110.33 | 5,225.3 | -260.7 | 703.7 | -154.9 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 11.67 | 110.33 | 5,323.3 | -267.7 | 722.7 | -159.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 11.67 | 110.33 | 5,421.2 | -274.7 | 741.6 | -163.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 11.67 | 110.33 | 5,519.1 | -281.8 | 760.6 | -167.4 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 11.67 | 110.33 | 5,617.1 | -288.8 | 779.6 | -171.6 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 11.67 | 110.33 | 5,715.0 | -295.8 | 798.6 | -175.7 | 0.00 | 0.00 | 0.00 |
| E 000 0 | 11 67 | | E 910 0 | -302.8 | 817.5 | 170.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 11.67 | 110.33 | 5,812.9 | | | -179.9 | | 0.00 | |
| 6,000.0 | 11.67 | 110.33 | 5,910.8 | -309.9 | 836.5 | -184.1 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 11.67 | 110.33 | 6,008.8 | -316.9 | 855.5 | -188.3 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 11.67 | 110.33 | 6,106.7 | -323.9 | 874.4 | -192.4 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 11.67 | 110.33 | 6,204.6 | -330.9 | 893.4 | -196.6 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 11.67 | 110.33 | 6,302.6 | -338.0 | 912.4 | -200.8 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 11.67 | 110.33 | 6,400.5 | -345.0 | 931.4 | -205.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 11.67 | 110.33 | 6,498.4 | -352.0 | 950.3 | -209.1 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 11.67 | 110.33 | 6,596.4 | -359.1 | 969.3 | -213.3 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 11.67 | 110.33 | 6,694.3 | -366.1 | 988.3 | -217.5 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 11.67 | 110.33 | 6,792.2 | -373.1 | 1,007.2 | -221.7 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 11.67 | 110.33 | 6,890.2 | -380.1 | 1,007.2 | -221.7 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 11.67 | 110.33 | 6,988.1 | -387.2 | 1,026.2 | -225.8 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 11.67 | 110.33 | 7,086.0 | -307.2 -394.2 | 1,045.2 | -230.0 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 11.67 | 110.33 | 7,086.0 7,184.0 | -394.2 -401.2 | 1,064.2 | -234.2 -238.4 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 7,359.7 | 11.67 | 110.33 | 7,242.4 | -405.4 | 1,094.4 | -240.8 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 10.87 | 110.33 | 7,282.0 | -408.2 | 1,101.8 | -242.5 | 2.00 | -2.00 | 0.00 |
| 7,500.0 | 8.87 | 110.33 | 7,380.5 | -414.1 | 1,117.9 | -246.0 | 2.00 | -2.00 | 0.00 |
| 7,600.0 | 6.87 | 110.33 | 7,479.5 | -418.9 | 1,130.7 | -248.8 | 2.00 | -2.00 | 0.00 |
| 7,700.0 | 4.87 | 110.33 | 7,579.0 | -422.4 | 1,140.3 | -250.9 | 2.00 | -2.00 | 0.00 |
| 7,800.0 | 2.87 | 110.33 | 7,678.8 | -424.8 | 1,146.6 | -252.3 | 2.00 | -2.00 | 0.00 |
| 7,900.0 | 0.87 | 110.33 | 7,778.7 | -425.9 | 1,149.7 | -253.0 | 2.00 | -2.00 | 0.00 |
| 7,943.3 | 0.00 | 0.00 | 7,822.0 | -426.0 | 1,150.0 | -253.1 | 2.00 | -2.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,878.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 7,978.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 8,200.0 | 0.00 | 0.00 | 8,078.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,278.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,378.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,478.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,578.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,678.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,778.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,878.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 8,978.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,078.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,378.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,478.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 9,700.0 | 0.00 | 0.00 | 9,578.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 0.00 | 0.00 | 9,678.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 0.00 | 0.00 | 9,778.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 0.00 | 0.00 | 9,878.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 0.00 | 0.00 | 9,978.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 0.00 | 0.00 | 10,078.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 0.00 | 0.00 | 10,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | , | 120.0 | ., | 200.1 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 0.00 | 0.00 | 10,278.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |

8/24/2021 2:34:46PM

Page 5

COMPASS 5000.16 Build 97

.



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) |
|-----------------------------|--------------------------|------------------|-----------------------------|------------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,500.0 | 0.00 | 0.00 | 10,378.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 0.00 | 0.00 | 10,478.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 0.00 | 0.00 | 10,578.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 0.00 | 0.00 | 10,678.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| | | | | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | |
| 10,900.0 | 0.00 | 0.00 | 10,778.7 | | | | | | 0.00 |
| 11,000.0 | 0.00 | 0.00 | 10,878.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 0.00 | 0.00 | 10,978.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 0.00 | 0.00 | 11,078.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 0.00 | 0.00 | 11,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 0.00 | 0.00 | 11,278.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 0.00 | 0.00 | 11,378.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 0.00 | 0.00 | 11,478.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 0.00 | 0.00 | 11,578.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 0.00 | 0.00 | 11,678.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 0.00 | 0.00 | 11,778.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 0.00 | 0.00 | 11,878.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 0.00 | 0.00 | 11,978.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 12,200.0 | 0.00 | 0.00 | 12,078.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 0.00 | 0.00 | 12,178.7 | -426.0 | 1,150.0 | -253.1 | 0.00 | 0.00 | 0.00 |
| 12,400.0 12.453.8 | 0.00 0.00 | 0.00 0.00 | 12,278.7 12,332.5 | -426.0 -426.0 | 1,150.0 1,150.0 | -253.1 -253.1 | 0.00 0.00 | 0.00 0.00 | 0.00 |
| , | | | 12,332.0 | -420.0 | 1,150.0 | -200.1 | 0.00 | 0.00 | 0.00 |
| 12,475.0 | Train 17 Fed Con 2.54 | 0.00 | 12,353.7 | -425.5 | 1,150.0 | -252.6 | 12.00 | 12.00 | 0.00 |
| 12,475.0 | | 0.00 | 12,355.7 | | 1,150.0 | -252.0 | 12.00 | 12.00 | 0.00 |
| 12,500.0 | 5.54 | 0.00 | 12,378.6 | -423.8 | 1,150.0 | -250.9 | 12.00 | 12.00 | 0.00 |
| 12,525.0 | 8.55 | 0.00 | 12,403.4 | -420.7 | 1,150.0 | -247.8 | 12.00 | 12.00 | 0.00 |
| 12,550.0 | 11.55 | 0.00 | 12,428.1 | -416.3 | 1,150.0 | -243.5 | 12.00 | 12.00 | 0.00 |
| 12,575.0 | 14.55 | 0.00 | 12,452.4 | -410.7 | 1,150.0 | -237.9 | 12.00 | 12.00 | 0.00 |
| 12,600.0 | 17.55 | 0.00 | 12,476.4 | -403.8 | 1,150.0 | -231.1 | 12.00 | 12.00 | 0.00 |
| 12,625.0 | 20.55 | 0.00 | 12,500.1 | -395.6 | 1,150.0 | -223.0 | 12.00 | 12.00 | 0.00 |
| 12,650.0 | 23.55 | 0.00 | 12,523.2 | -386.2 | 1,150.0 | -213.7 | 12.00 | 12.00 | 0.00 |
| 12,674.2 | 26.46 | 0.00 | 12,545.2 | -376.0 | 1,150.0 | -203.6 | 12.00 | 12.00 | 0.00 |
| | rain 17 Fed Com | | , | | , | | | | |
| 12,700.0 | 29.55 | 359.94 | 12,567.9 | -363.9 | 1,150.0 | -191.7 | 12.00 | 12.00 | -0.23 |
| 12,725.0 | 32.55 | 359.89 | 12,589.3 | -351.0 | 1,150.0 | -178.9 | 12.00 | 12.00 | -0.19 |
| | | | | | | | | | |
| 12,750.0 | 35.55 | 359.85 | 12,610.1 | -337.0 | 1,149.9 | -165.1 | 12.00 | 12.00 | -0.16 |
| 12,775.0 | 38.55 | 359.82 | 12,630.0 | -322.0 | 1,149.9 | -150.2 | 12.00 | 12.00 | -0.14 |
| 12,800.0 | 41.55 | 359.79 | 12,649.1 | -305.9 | 1,149.8 | -134.3 | 12.00 | 12.00 | -0.12 |
| 12,825.0 12,850.0 | 44.55 47.55 | 359.76 359.73 | 12,667.4 12,684.8 | -288.8 -270.8 | 1,149.8 1,149.7 | -117.4 -99.6 | 12.00 12.00 | 12.00 12.00 | -0.1′ -0.10 |
| | | | | | | | | | |
| 12,875.0 | 50.55 | 359.71 | 12,701.2 | -251.9 | 1,149.6 | -80.9 | 12.00 | 12.00 | -0.09 |
| 12,900.0 | 53.55 | 359.69 | 12,716.5 | -232.2 | 1,149.5 | -61.5 | 12.00 | 12.00 | -0.08 |
| 12,925.0 | 56.55 | 359.67 | 12,730.8 | -211.7 | 1,149.4 | -41.2 | 12.00 | 12.00 | -0.08 |
| 12,950.0 | 59.55 | 359.65 | 12,744.1 | -190.5 | 1,149.3 | -20.3 | 12.00 | 12.00 | -0.07 |
| 12,975.0 | 62.55 | 359.64 | 12,756.2 | -168.7 | 1,149.1 | 1.4 | 12.00 | 12.00 | -0.07 |
| 13,000.0 | 65.55 | 359.62 | 12,767.1 | -146.2 | 1,149.0 | 23.6 | 12.00 | 12.00 | -0.06 |
| 13,025.0 | 68.55 | 359.61 | 12,776.9 | -123.2 | 1,148.8 | 46.3 | 12.00 | 12.00 | -0.06 |
| 13,050.0 | 71.55 | 359.59 | 12,785.4 | -99.7 | 1,148.7 | 69.5 | 12.00 | 12.00 | -0.06 |
| 13,075.0 | 74.55 | 359.58 | 12,792.7 | -75.8 | 1,148.5 | 93.2 | 12.00 | 12.00 | -0.06 |
| 13,100.0 | 77.55 | 359.57 | 12,798.7 | -51.5 | 1,148.3 | 117.1 | 12.00 | 12.00 | -0.05 |
| | | | | | | | | | |
| 13,125.0 | 80.55 | 359.55 | 12,803.5 | -27.0 | 1,148.1 | 141.4 | 12.00 | 12.00 | -0.05 |
| 13,150.0 | 83.55 | 359.54 | 12,806.9 | -2.2 | 1,147.9 | 165.9 | 12.00 | 12.00 | -0.05 |
| 13,175.0 | 86.55 | 359.53 | 12,809.1 | 22.7 | 1,147.7 | 190.5 | 12.00 | 12.00 | -0.05 |
| 13,200.0 13,203.8 | 89.55 90.00 | 359.51 359.51 | 12,809.9 12,809.9 | 47.7 51.5 | 1,147.5 1,147.5 | 215.1 218.9 | 12.00 12.00 | 12.00 12.00 | -0.05 -0.05 |
| | | | | | | | | | |

8/24/2021 2:34:46PM

COMPASS 5000.16 Build 97



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) |
|-----------------------------|--------------------|------------------|-----------------------------|--------------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 13,300.0 | 90.00 | 359.51 | 12,809.9 | 147.7 | 1,146.7 | 313.9 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.51 | 12,809.9 | 247.7 | 1,145.8 | 412.7 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 359.51 | 12,810.0 | 347.7 | 1,145.0 | 511.5 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 359.51 | 12,810.0 | 447.7 | 1,144.1 | 610.3 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 359.51 | 12,810.0 | 547.7 | 1,143.3 | 709.1 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 359.51 | 12,810.0 | 647.7 | 1,142.4 | 807.9 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 359.51 | 12,810.0 | 747.6 | 1,142.4 | 906.7 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.51 | 12,810.0 | 847.6 | 1,141.5 | 1,005.5 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.51 | 12,810.0 | 947.6 | 1,139.8 | 1,104.3 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 359.51 | 12,810.0 | 1,047.6 | 1,139.0 | 1,203.1 | 0.00 | 0.00 | 0.00 |
| | | | , | | | | | | |
| 14,300.0 | 90.00 | 359.51 | 12,810.0 | 1,147.6 | 1,138.1 | 1,301.9 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 359.51 | 12,810.0 | 1,247.6 | 1,137.3 | 1,400.7 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 359.51 | 12,810.0 | 1,347.6 | 1,136.4 | 1,499.5 | 0.00 | 0.00 | 0.00 |
| 14,600.0 14,700.0 | 90.00 90.00 | 359.51 359.51 | 12,810.0 12,810.0 | 1,447.6 1,547.6 | 1,135.6 1,134.7 | 1,598.3 1,697.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | | | | | | | | | |
| 14,800.0 | 90.00 | 359.51 | 12,810.0 | 1,647.6 | 1,133.9 | 1,795.8 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 359.51 | 12,810.0 | 1,747.6 | 1,133.0 | 1,894.6 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 359.51 | 12,810.0 | 1,847.6 | 1,132.2 | 1,993.4 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 359.51 | 12,810.0 | 1,947.6 | 1,131.3 | 2,092.2 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.51 | 12,810.0 | 2,047.6 | 1,130.5 | 2,191.0 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.51 | 12,810.0 | 2,147.6 | 1,129.6 | 2,289.8 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.51 | 12,810.0 | 2,247.6 | 1,128.8 | 2,388.6 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.51 | 12,810.0 | 2,347.6 | 1,127.9 | 2,487.4 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.51 | 12,810.0 | 2,447.6 | 1,127.1 | 2,586.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.51 | 12,810.0 | 2,547.6 | 1,126.2 | 2,685.0 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.51 | 12,810.0 | 2,647.6 | 1,125.4 | 2,783.8 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 359.51 | 12,810.0 | 2,747.6 | 1,124.5 | 2,882.6 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.51 | 12,810.0 | 2,847.6 | 1,123.7 | 2,981.4 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.51 | 12,810.0 | 2,947.6 | 1,122.8 | 3,080.2 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.51 | 12,810.0 | 3,047.6 | 1,121.9 | 3,179.0 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.51 | 12,810.0 | 3,147.6 | 1,121.1 | 3,277.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.51 | 12,810.0 | 3,247.6 | 1,120.2 | 3,376.6 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.51 | 12,810.0 | 3,347.6 | 1,119.4 | 3,475.4 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.51 | 12,810.0 | 3,447.6 | 1,118.5 | 3,574.1 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.51 | 12,810.0 | 3,547.5 | 1,117.7 | 3,672.9 | 0.00 | 0.00 | 0.00 |
| 16 900 0 | 90.00 | 250 51 | 12.810.0 | 3,647.5 | 1 116 0 | 3,771.7 | 0.00 | 0.00 | 0.00 |
| 16,800.0 16,900.0 | 90.00 | 359.51 359.51 | 12,810.0 | 3,047.5 | 1,116.8 1,116.0 | 3,870.5 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.51 | 12,810.0 | 3,847.5 | 1,115.1 | 3,969.3 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.51 | 12,810.0 | 3,947.5 | 1,114.3 | 4,068.1 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.51 | 12,810.0 | 4,047.5 | 1,113.4 | 4,166.9 | 0.00 | 0.00 | 0.00 |
| | | | | | | , | | | |
| 17,300.0 17,400.0 | 90.00 90.00 | 359.51 359.51 | 12,810.0 12,810.0 | 4,147.5 4,247.5 | 1,112.6 1,111.7 | 4,265.7 4,364.5 | 0.00 0.00 | 0.00 | 0.00 0.00 |
| 17,400.0 | 90.00 90.00 | 359.51 | 12,810.0 | 4,247.5 4,347.5 | 1,111.7 | 4,364.5 4,463.3 | 0.00 | 0.00 0.00 | 0.00 |
| 17,600.0 | 90.00 | 359.51 | 12,810.0 | 4,347.5 | 1,110.9 | 4,403.3 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 359.51 | 12,810.0 | 4,547.5 | 1,109.2 | 4,660.9 | 0.00 | 0.00 | 0.00 |
| , | | | | | | | | | |
| 17,800.0 | 90.00 | 359.51 | 12,810.0 | 4,647.5 | 1,108.3 | 4,759.7 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 359.51 | 12,810.0 | 4,747.5 | 1,107.5 | 4,858.5 | 0.00 | 0.00 | 0.00 |
| 17,954.5 | 90.00 | 359.51 | 12,810.0 | 4,802.0 | 1,107.0 | 4,912.3 | 0.00 | 0.00 | 0.00 |
| | ilver Train 17 Fe | | 12 940 0 | 1017 5 | 1 100 0 | 4 057 2 | 0.00 | 0.00 | 0.00 |
| 18,000.0 18,100.0 | 90.00 90.00 | 359.51 359.51 | 12,810.0 12,810.0 | 4,847.5 4,947.5 | 1,106.6 1,105.8 | 4,957.3 5,056.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 10,100.0 | 90.00 | | | 4,947.0 | 1,105.6 | 5,050.1 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 359.51 | 12,810.0 | 5,047.5 | 1,104.9 | 5,154.9 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 359.52 | 12,810.0 | 5,147.5 | 1,104.1 | 5,253.7 | 0.00 | 0.00 | 0.00 |

8/24/2021 2:34:46PM



| Database: | PEDM | Local Co-ordinate Reference: | Well #727H |
|-----------|-----------------------------|------------------------------|-----------------------|
| Company: | Midland | TVD Reference: | kb = 25' @ 3379.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb = 25' @ 3379.0usft |
| Site: | Silver Train 17 Fed Com | North Reference: | Grid |
| Well: | #727H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 RT | | |

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) |
|-----------------------------|--------------------|------------------|-----------------------------|--------------------|--------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 18,400.0 | 90.00 | 359.52 | 12,810.0 | 5,247.5 | 1,103.2 | 5,352.5 | 0.00 | 0.00 | 0.00 |
| 18,500.0 18,600.0 | 90.00 90.00 | 359.52 359.52 | 12,810.0 12,810.0 | 5,347.5 5,447.5 | 1,102.4 1,101.5 | 5,451.2 5,550.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 18,700.0 | 90.00 | 359.52 | 12,810.0 | 5,547.5 | 1,100.7 | 5,648.8 | 0.00 | 0.00 | 0.00 |
| 18,800.0 | 90.00 | 359.52 | 12,810.0 | 5,647.5 | 1,099.9 | 5,747.6 | 0.00 | 0.00 | 0.00 |
| 18,900.0 | 90.00 | 359.52 | 12,810.0 | 5,747.5 | 1,099.0 | 5,846.4 | 0.00 | 0.00 | 0.00 |
| 19,000.0 | 90.00 | 359.52 | 12,810.0 | 5,847.5 | 1,098.2 | 5,945.2 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.00 | 359.52 | 12,810.0 | 5,947.5 | 1,097.4 | 6,044.0 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.00 | 359.53 | 12,810.0 | 6,047.5 | 1,096.5 | 6,142.8 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.00 | 359.53 | 12,810.0 | 6,147.5 | 1,095.7 | 6,241.6 | 0.00 | 0.00 | 0.00 |
| 19,400.0 | 90.00 | 359.53 | 12,810.0 | 6,247.5 | 1,094.9 | 6,340.4 | 0.00 | 0.00 | 0.00 |
| 19,500.0 | 90.00 | 359.53 | 12,810.0 | 6,347.4 | 1,094.1 | 6,439.2 | 0.00 | 0.00 | 0.00 |
| 19,600.0 | 90.00 | 359.53 | 12,810.0 | 6,447.4 | 1,093.2 | 6,538.0 | 0.00 | 0.00 | 0.00 |
| 19,700.0 | 90.00 | 359.53 | 12,810.0 | 6,547.4 | 1,092.4 | 6,636.8 | 0.00 | 0.00 | 0.00 |
| 19,800.0 | 90.00 | 359.53 | 12,810.0 | 6,647.4 | 1,091.6 | 6,735.6 | 0.00 | 0.00 | 0.00 |
| 19,900.0 | 90.00 | 359.53 | 12,810.0 | 6,747.4 | 1,090.8 | 6,834.4 | 0.00 | 0.00 | 0.00 |
| 20,000.0 | 90.00 | 359.53 | 12,810.0 | 6,847.4 | 1,090.0 | 6,933.2 | 0.00 | 0.00 | 0.00 |
| 20,100.0 | 90.00 | 359.54 | 12,810.0 | 6,947.4 | 1,089.2 | 7,032.0 | 0.00 | 0.00 | 0.00 |
| 20,200.0 | 90.00 | 359.54 | 12,810.0 | 7,047.4 | 1,088.4 | 7,130.8 | 0.00 | 0.00 | 0.00 |
| 20,300.0 | 90.00 | 359.54 | 12,810.0 | 7,147.4 | 1,087.5 | 7,229.6 | 0.00 | 0.00 | 0.00 |
| 20,400.0 | 90.00 | 359.54 | 12,810.0 | 7,247.4 | 1,086.7 | 7,328.4 | 0.00 | 0.00 | 0.00 |
| 20,491.6 | 90.00 | 359.54 | 12,810.0 | 7,339.0 | 1,086.0 | 7,418.9 | 0.00 | 0.00 | 0.00 |
| PBHL(Silver | Train 17 Fed Co | om #727H) | | | | | | | |

| Design Targets | | | | | | | | | |
|---|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------------|------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| KOP(Silver Train 17 Fed - plan hits target cent - Point | 0.00 ter | 0.00 | 12,332.5 | -426.0 | 1,150.0 | 409,659.00 | 803,784.00 | 32° 7' 24.216 N | 103° 29' 8.071 W |
| FTP(Silver Train 17 Fed - plan hits target cent - Point | 0.00 ter | 0.00 | 12,545.2 | -376.0 | 1,150.0 | 409,709.00 | 803,784.00 | 32° 7' 24.711 N | 103° 29' 8.067 W |
| Fed Perf 1(Silver Train 1 - plan hits target cent - Point | 0.00 ter | 0.00 | 12,810.0 | 4,802.0 | 1,107.0 | 414,887.00 | 803,741.00 | 32° 8' 15.951 N | 103° 29' 8.093 W |
| PBHL(Silver Train 17 Fe - plan hits target cent - Point | 0.00 ter | 0.00 | 12,810.0 | 7,339.0 | 1,086.0 | 417,424.00 | 803,720.00 | 32° 8' 41.057 N | 103° 29' 8.105 W |

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leogresources



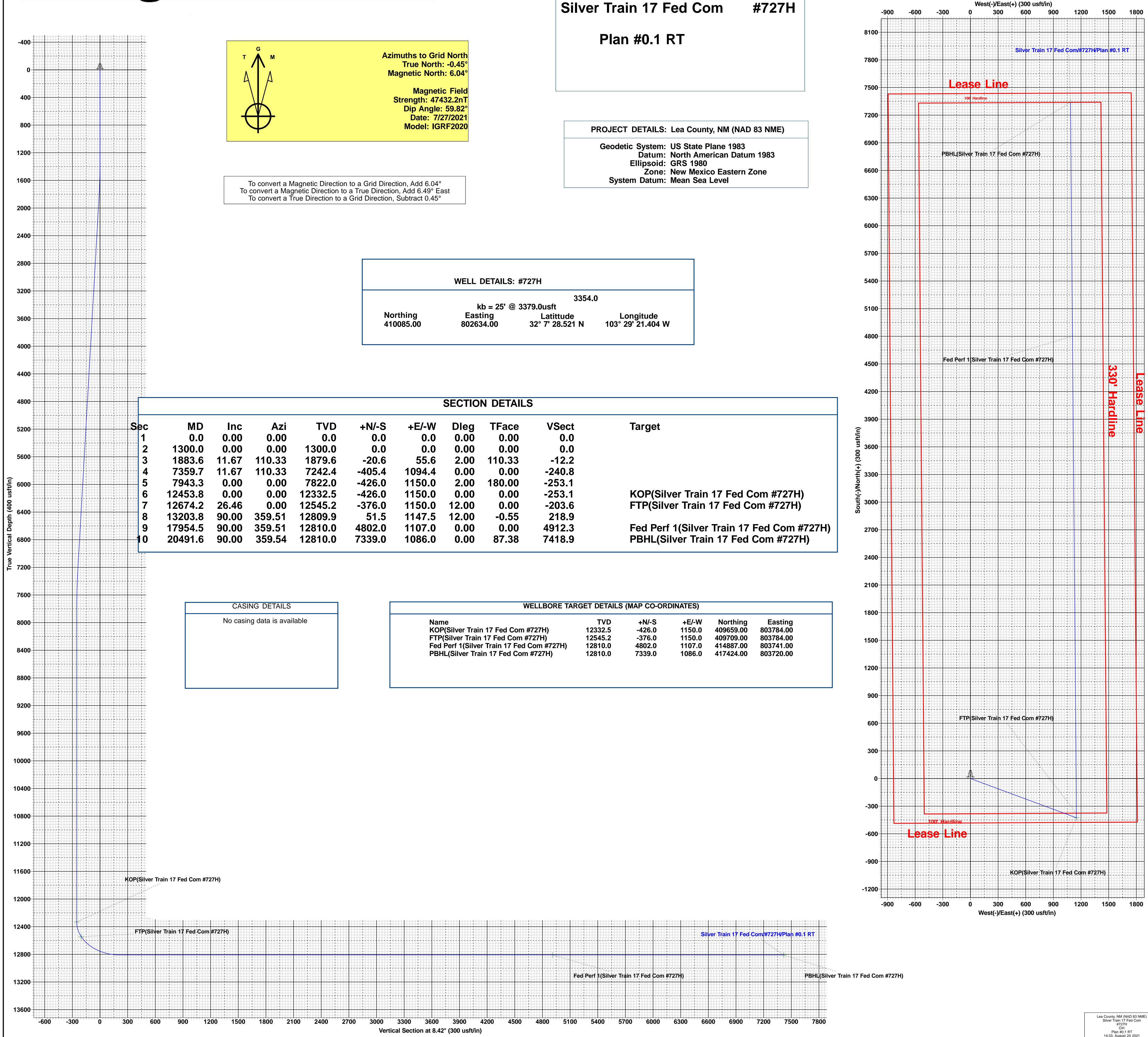
Lea County, NM (NAD 83 NME)

Silver Train 17 Fed Com #727H

Plan #0.1 RT

PROJECT DETAILS: Lea County, NM (NAD 83 NME) Geodetic System: US State Plane 1983 Datum: North American Datum 1983

System Datum: Mean Sea Level



vived by OCD: 8/28/2024 8:39:38 AM

14:33, August 24 2021

Released to Imaging: 9/9/2024 11:24:25 AM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | EOG Resources Incorporated |
|-----------------------|------------------------------|
| LEASE NO.: | NMNM94108 |
| WELL NAME & NO.: | SILVER TRAIN 17 FED COM 727H |
| SURFACE HOLE FOOTAGE: | 482'/S & 1807'/E |
| BOTTOM HOLE FOOTAGE | 2537'/S & 660'/E |
| LOCATION: | Section 17, T.25 S., R.34 E. |
| COUNTY: | Lea County, New Mexico |

COA

| H2S | • Yes | O No | |
|----------------------|------------------|----------------|------------|
| Potash | None | O Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | O High |
| Cave/Karst Potential | Critical | | |
| Variance | O None | Flex Hose | Other |
| Wellhead | Conventional | Multibowl | O Both |
| Other | □4 String Area | Capitan Reef | WIPP |
| Other | Fluid Filled | Cement Squeeze | Pilot Hole |
| Special Requirements | □ Water Disposal | COM | 🗆 Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. 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 **1,140** 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 $\underline{\mathbf{8}}$ <u>hours</u> 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 **7-5/8** inch intermediate casing shall be set at approximately **11,470** feet. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

3. The **5-1/2** inch production casing shall be set at approximately **20,492** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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).'
- 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 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (3.5M) 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.

BOPE Break Testing Variance (Note: For 5M BOPE or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

OFFLINE CEMENTING AND BREAK TESTING IS APPROVED FOR THE SURFACE AND INTERMEDIATE SECTIONS.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

Page 4 of 9

(575) 361-2822

- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 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.

- 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 <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 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: The flex line must meet the requirements of API 16C. 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

Page 6 of 9

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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- 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.

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

KPI - 5/2/2023

Approval Date: 05/22/2023

Hose Inspection Report

ContiTech Oil & Marine

| Customer | Customer Reference # | CBC Reference # | CBC Inspector | Date of Inspection |
|--------------|----------------------|-----------------|----------------------|--------------------|
| H&P Drilling | 740021604 | COM906112 | A. Jaimes | 10/17/2016 |

Hose Manufacturer Contitech Rubber Industrial

| Hose Serial # | 62429 | Date of Manufacture | 05/2012 |
|-------------------|----------------------------------|---------------------------|-----------------------------|
| HUSE Serial # | 02429 | | 05/2012 |
| Hose I.D. | 3" | Working Pressure | 10000PSI |
| Hose Type | Choke and Kill | Test Pressure | 15000PSI |
| Manufacturing Sta | andard API 16C | | |
| Connections | | | |
| End A: 3.1/16" 10 | KPsi API Spec 6A Type 6BX Flange | e End B: 3.1/16" 10Kpsi A | API Spec 6A Type 6BX Flange |
| • No damage | | No damage | |
| Material: Carbon | Steel | Material: Carbon Steel | |
| Seal Face: BX154 | | Seal Face: BX154 | |
| Length Before Hyd | dro Test: 16' | Length After Hydro tes | t: 16' |
| | | | |

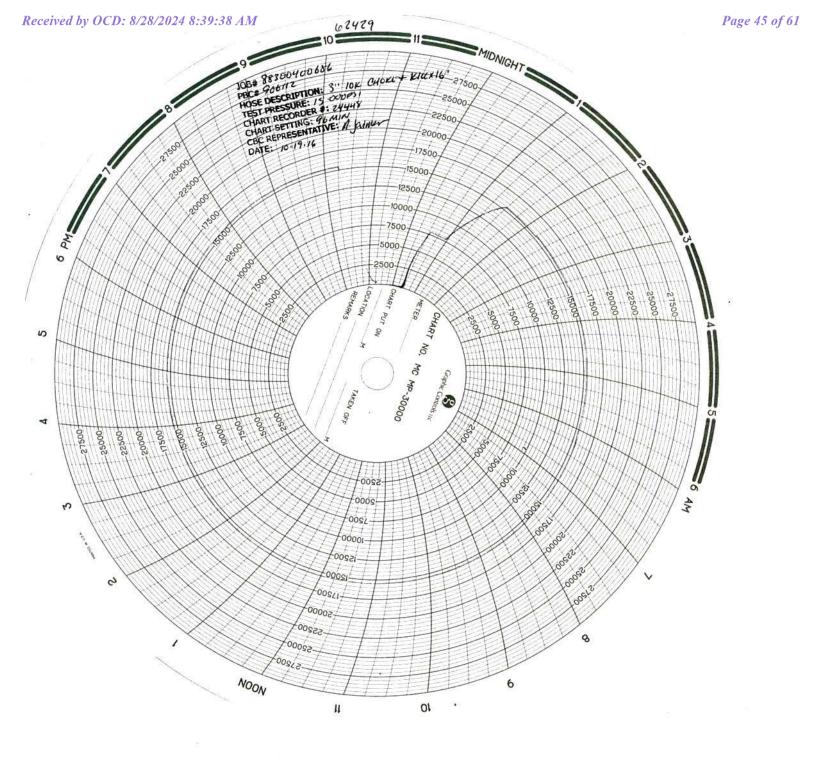
Conclusion: Hose #62429 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the hose liner. Hose #62429 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #62429 is suitable for continued service.</u>

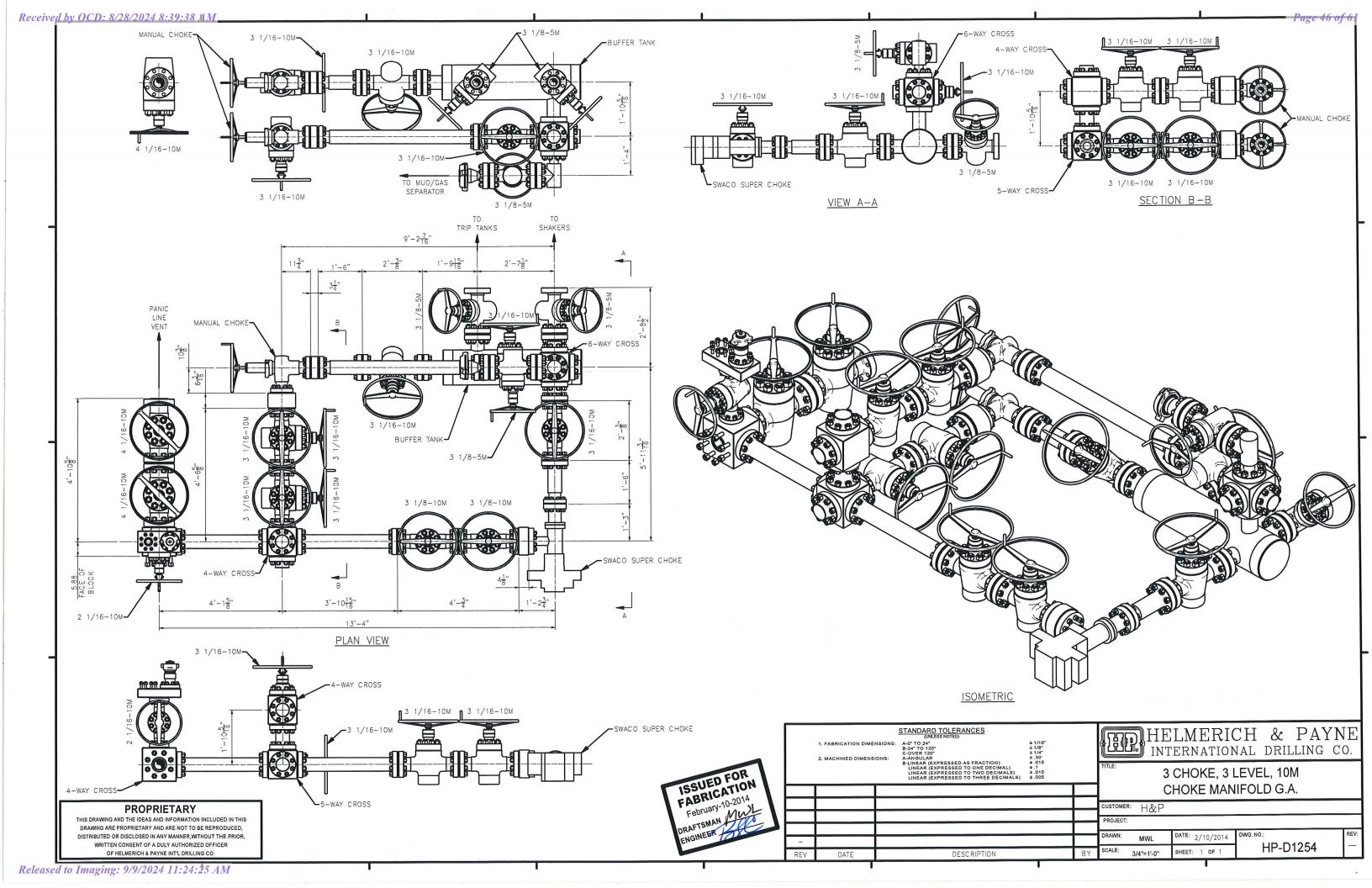
Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

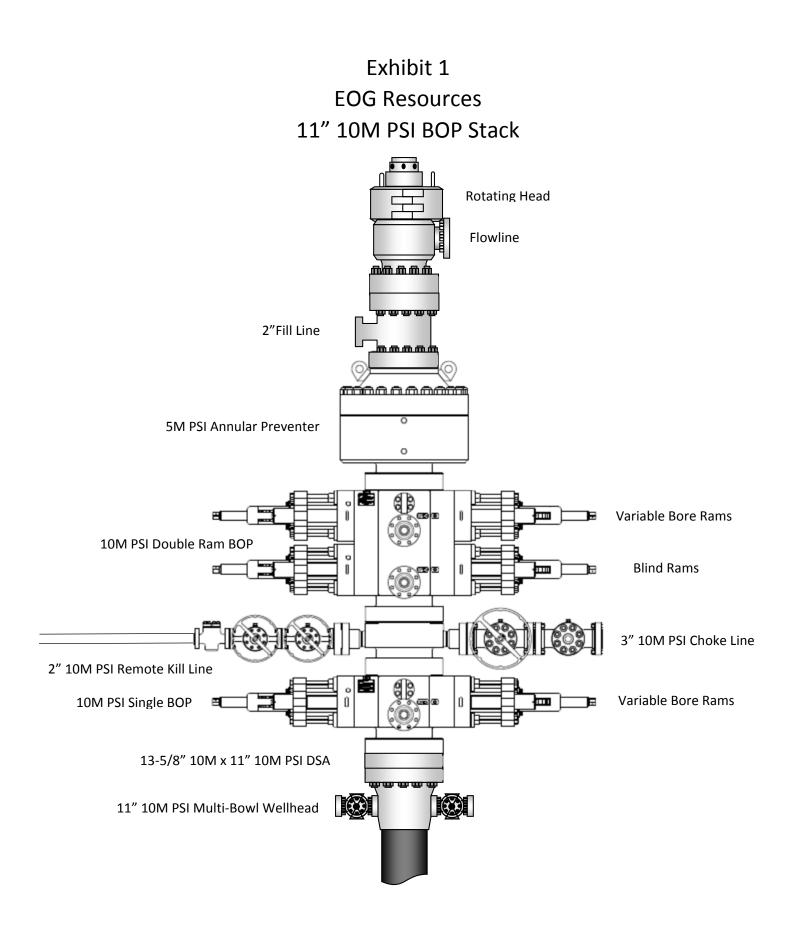
Visual inspection: Every 3 months (or during installation/removal) Annual: In-situ pressure test Initial 5 years service: Major inspection 2nd Major inspection: 8 / 10 years of service (Detailed description of test regime available upon request, ISS-059 Rev 04)

**NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

Checked By: Jeremy Mckay Date: 10/25/2016 QF97







10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

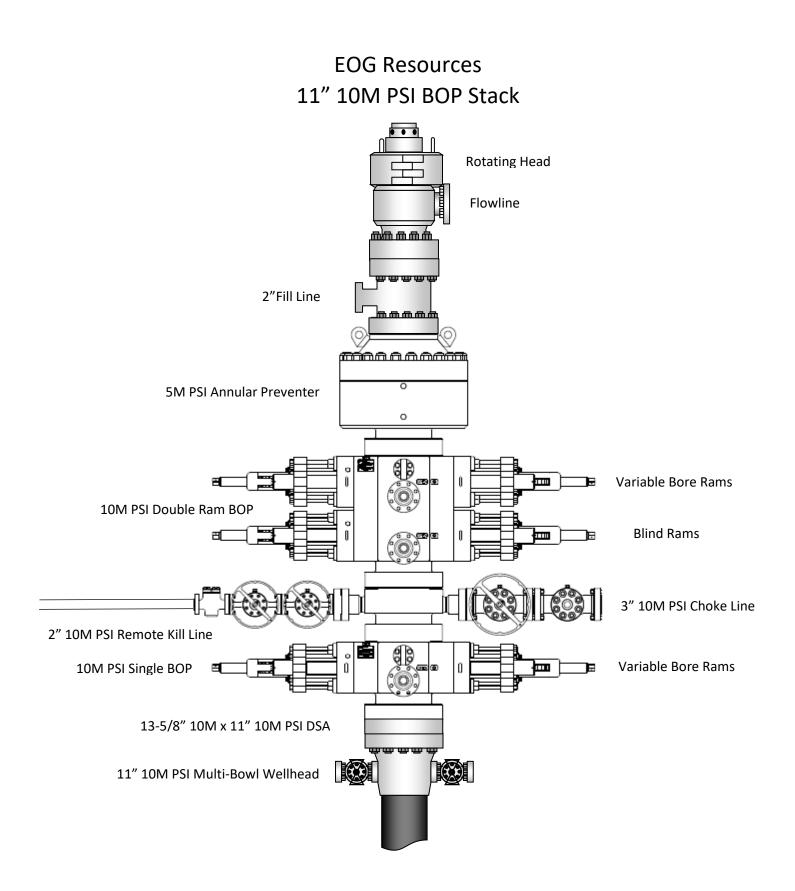
1. Component and Preventer Compatibility Tables

The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

| 9-7/8" & 8-3/4" Intermediate Hole Section | | | | | | | |
|---|----------------|-------------------|-----|------------------------|-----|--|--|
| 10M psi requirement | | | | | | | |
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | | |
| Drillpipe | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| HWDP | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| Jars | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| DCs and MWD tools | 6.500 - 8.000" | Annular | 5M | - | - | | |
| Mud Motor | 6.750 - 8.000" | Annular | 5M | - | - | | |
| Intermediate casing | 7.625″ | Annular | 5M | - | - | | |
| Open-hole | - | Blind Rams | 10M | - | - | | |

| 6-3/4" Production Hole Section 10M psi requirement | | | | | | |
|---|----------------|-------------------|-----|------------------------|-----|--|
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | |
| Drillpipe | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| HWDP | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| DCs and MWD tools | 4.750 – 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Mud Motor | 4.750 - 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Mud Motor | 5.500 – 5.750" | Annular | 5M | - | - | |
| Production casing | 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Open-hole | - | Blind Rams | 10M | - | - | |

VBR = Variable Bore Ram



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

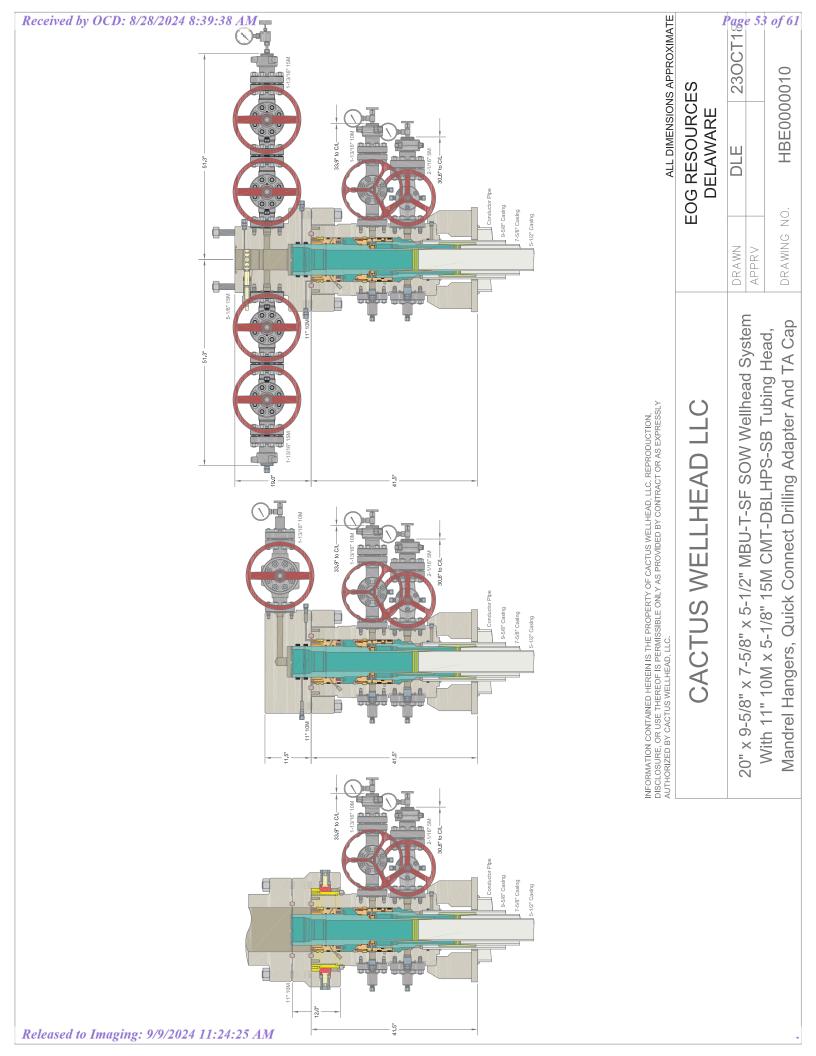
General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



•

| tal One Corp. | MO-FXL | | Page | MCTP | |
|---|--|---|---|--|---|
| | MO-I AL | | Date | 3-Nov-1 | 6 |
| Metal One | Connection Dat | a Sheet | | | |
| | | | Rev. | 0 | |
| | Geometry | Imperia | 1 | <u>S.I.</u> | |
| | Pipe Body | Descultores | | Decentral life to | |
| | Grade | P110HC *1 | | | |
| | Pipe OD (D) | 7 5/8 | in | | |
| MO-FXL | Weight | 29.70 | lb/ft | | - |
| | Actual weight | 29.04 | | | |
| | Wall Thickness (t) | 0.375 | in | | |
| | Pipe ID (d) | 6.875 | in | | - |
| | Pipe body cross section | 8.537 | in ² | | mm ² |
| | Drift Dia. | 6.750 | in | 171.45 | mm |
| | Connection | | | | |
| | Box OD (W) | 7.625 | in | 193.68 | mm |
| | PIN ID | 6.875 | in | 174.63 | mm |
| The second se | Make up Loss | 4.219 | in | 107.16 | mm |
| | Box Critical Area | 5.714 | in ² | 3686 | mm ² |
| Box | Joint load efficiency | 70 | % | | - |
| | | | | .2" per ft) | |
| area | Thread Taper | 1. | / 10 (1. | 2" per ft) | |
| | Thread Taper Number of Threads | 1 | | 2" per ft) TPI | |
| area eke | Number of Threads Performance | | | | 10HC *1 93.68 mm 44.25 kg/m 43.26 kg/m 9.53 mm 74.63 mm 5,508 mm² 71.45 mm 93.68 mm 74.63 mm 71.45 mm 93.68 mm 74.63 mm 70 % 97.16 mm 3686 mm² 70 % 9r ft) % 97 9% 97.16 mm 3686 mm² 70 % 9r ft) % 9r ft) MPa 50.76 MPa of Pipe body % S.M.Y.S.) M.Y.S.) M.Y.S.) M.Y.S.) MIAPS.) MIAPS.) |
| area d | Number of Threads Performance Performance Properties S.M.Y.S. *1 | for Pipe Body | | 4,747 | |
| ake ss | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 | for Pipe Body 1,067 10,760 | 5 | 4,747 74.21 | MPa |
| area d | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 | for Pipe Body 1,067 10,760 7,360 | 5 kips psi psi | 4,747 74.21 50.76 | MPa MPa |
| ake ss Pin | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE | kips psi psi LD Strer | 4,747 74.21 50.76 ngth of Pipe bod | MPa MPa |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield | kips psi psi LD Strer Pressu | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body | MPa MPa |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 | kips psi psi LD Strer Pressur 5~140ks | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body | MPa MPa |
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| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connectio 747 kips | kips psi psi LD Strer Pressur 5~140ks n (70% | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body ii) of S.M.Y.S.) | MPa MPa |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load Min. Compression Yield | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connection 747 kips 747 kips | kips psi psi ID Strer Pressur 5~140ks n (70% (70% | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body ii) of S.M.Y.S.) of S.M.Y.S.) | MPa MPa |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield Ioad Min. Compression Yield Internal Pressure | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connection 747 kips 747 kips | 5 kips psi psi Pressur 5~140ks n (70% (70% (80% | 4,747 74.21 50.76 ngth of Pipe body re of Pipe body ii) of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) | MPa MPa ty |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connection 747 kips 747 kips | 5 kips psi psi LD Strer Pressur 5~140ks n (70% (70% (80%) 100% (| 4,747 74.21 50.76 ngth of Pipe body ii) of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St | MPa MPa ty |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield Ioad Min. Compression Yield Internal Pressure | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connection 747 kips 747 kips | 5 kips psi psi LD Strer Pressur 5~140ks n (70% (70% (80%) 100% (| 4,747 74.21 50.76 ngth of Pipe body re of Pipe body ii) of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) | MPa MPa ty |
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| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connectio 747 kips 747 kips 8,610 psi 15,500 | 5 kips psi psi LD Strer Pressur 5~140ks n (70% (70% (80%) 100% (4 ft-lb | 4,747 74.21 50.76 ngth of Pipe body iof S.M.Y.S.) of S.M.Y.S.) of S.M.Y.S.) of S.M.Y.S.) of OI 21,000 | MPa MPa hy |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S.*1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti. | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connectio 747 kips 747 kips 8,610 psi 8,610 psi 15,500 17,200 | 5 kips psi psi LD Strer Pressur 5~140ks n (70% (70% (80% 100% 0 4 ft-lb | 4,747 74.21 50.76 ngth of Pipe body ii) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0 21,000 23,300 | MPa MPa hy rength |
| ake ss Pin critical | Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim *1 Based on VSB Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. | for Pipe Body 1,067 10,760 7,360 ied Minimum YIE um Internal Yield P110HC (YS=12 for Connectio 747 kips 747 kips 8,610 psi 15,500 | 5 kips psi psi LD Strer Pressur 5~140ks n (70% (70% (80%) 100% (4 ft-lb | 4,747 74.21 50.76 ngth of Pipe body iof S.M.Y.S.) of M.I.Y.P.) of 21,000 | MPa MPa hy |

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

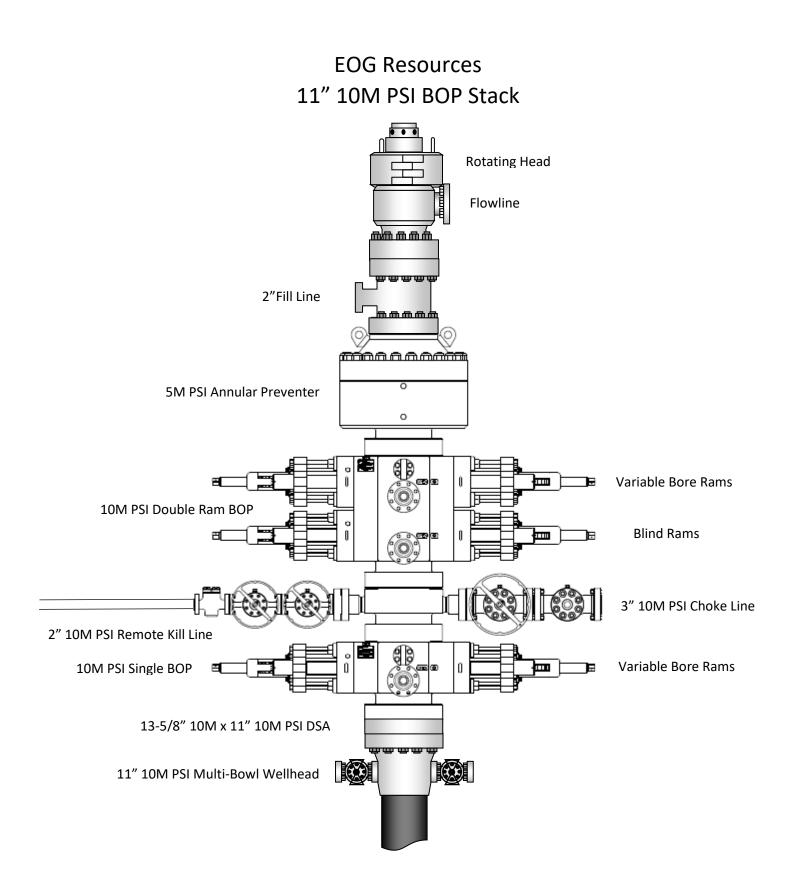
1. Component and Preventer Compatibility Tables

The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

| 9-7/8" & 8-3/4" Intermediate Hole Section | | | | | | | |
|---|----------------|-------------------|-----|------------------------|-----|--|--|
| 10M psi requirement | | | | | | | |
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | | |
| Drillpipe | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| HWDP | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| Jars | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | | |
| DCs and MWD tools | 6.500 - 8.000" | Annular | 5M | - | - | | |
| Mud Motor | 6.750 - 8.000" | Annular | 5M | - | - | | |
| Intermediate casing | 7.625″ | Annular | 5M | - | - | | |
| Open-hole | - | Blind Rams | 10M | - | - | | |

| 6-3/4" Production Hole Section 10M psi requirement | | | | | | |
|---|----------------|-------------------|-----|------------------------|-----|--|
| Component | OD | Primary Preventer | RWP | Alternate Preventer(s) | RWP | |
| Drillpipe | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| HWDP | 4.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| DCs and MWD tools | 4.750 – 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Mud Motor | 4.750 - 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Mud Motor | 5.500 – 5.750" | Annular | 5M | - | - | |
| Production casing | 5.500" | Annular | 5M | Upper 3.5 - 5.5" VBR | 10M | |
| | | | | Lower 3.5 - 5.5" VBR | 10M | |
| Open-hole | - | Blind Rams | 10M | - | - | |

VBR = Variable Bore Ram



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

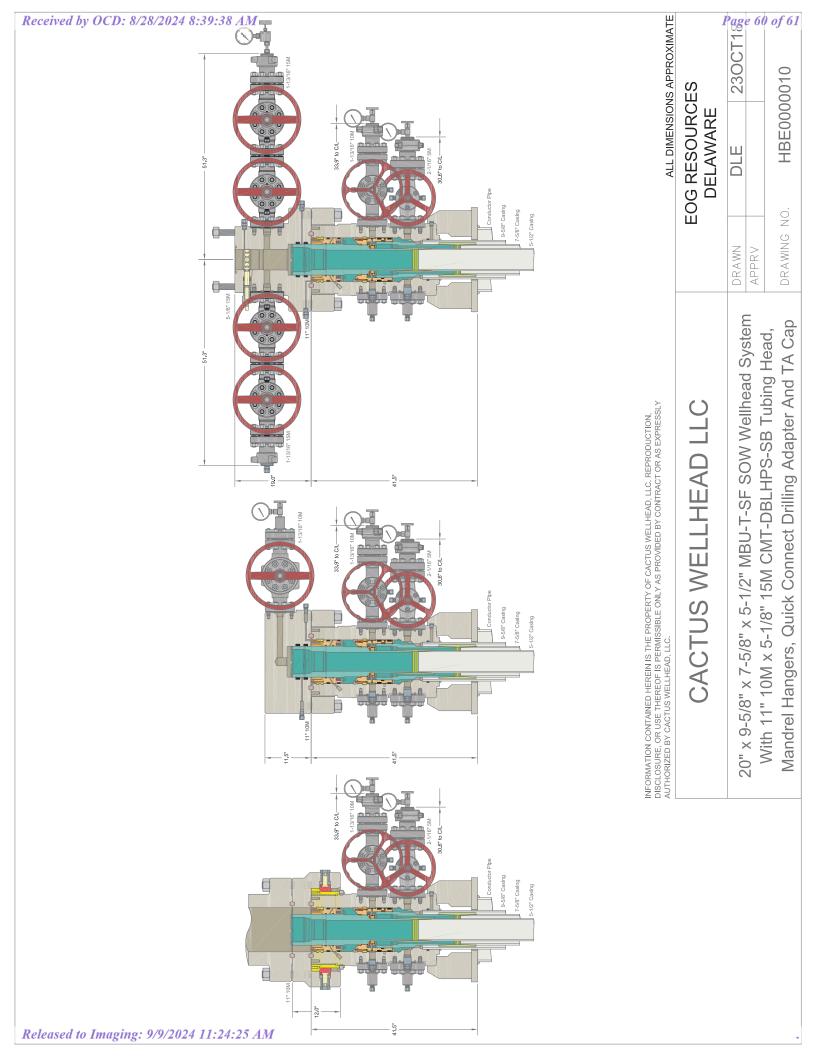
General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



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

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

District III

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

District IV

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

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

CONDITIONS

| Operator: | OGRID: |
|----------------------|---|
| EOG RESOURCES INC | 7377 |
| 5509 Champions Drive | Action Number: |
| Midland, TX 79706 | 378571 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| CONDINIO | | |
|---------------|--|-------------------|
| Created By | Condition | Condition Date |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 9/9/2024 |
| pkautz | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string | 9/9/2024 |
| pkautz | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system | 9/9/2024 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 9/9/2024 |
| pkautz | If cement does not circulate on any string, a CBL is required for that string of casing | 9/9/2024 |

CONDITIONS

Action 378571