Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM078968A BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone PRETTY GOOD 20 FED COM 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory BILBREY BASIN; BONE SPRING, SOUTH 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002 (713) 651-7000 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 20/T22S/R32E/NMP At surface NENW / 425 FNL / 1805 FWL / LAT 32.383177 / LONG -103.699491 At proposed prod. zone SWSW / 100 FSL / 660 FWL / LAT 32.355566 / LONG -103.703172 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State NM LEA 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest 640.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, FED: 9737 feet / 20040 feet applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3659 feet 03/30/2021 25 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date (Electronic Submission) JAYNA HOBBY / Ph: (713) 651-7000 09/24/2020 Title Regulatory Specialist Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 03/04/2024 CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the

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



applicant to conduct operations thereon. Conditions of approval, if any, are attached.

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 3160-3, page 2)

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) 344-6178 Fax: (505) 334-6170

DISTRICT IV

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

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

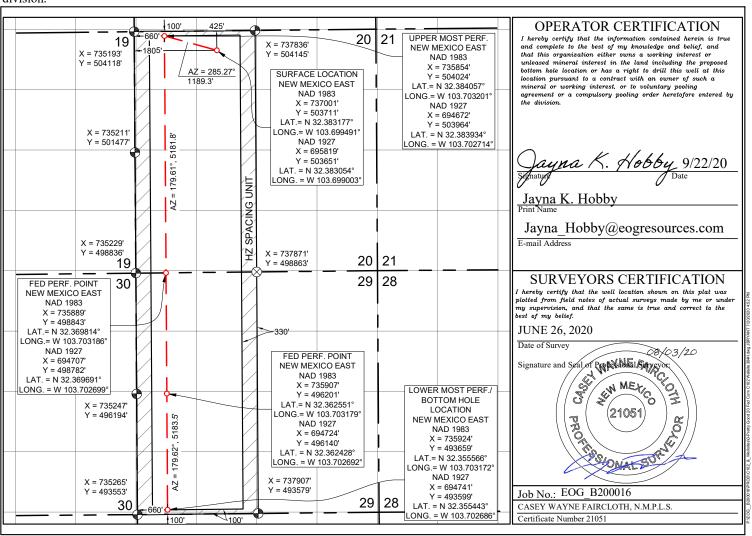
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-			Pool Code 334556		Pool Name BILBREY BASIN; BONE SPRING, SOUTH				
Property Co		•	Property Name PRETTY GOOD 20 FED COM				Well Number 304H		
	OGRID No. Operator Name EOG RESOURCES, INC.					Elevation 3659'			
Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	20	22 S	32 E	425 NORTH 1805		WEST	LEA		
		•	Bott	om Hole l	Location If Diff	erent From Surfac	e		
UL or lot no.	Section	Township	Range	Range Lot Idn Feet from the North/South line Feet from the			East/West line	County	
M	29	22 S	32 E		100 SOUTH 660 WEST			LEA	
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.	•	-		
640.00									

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.



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:EOG H	Resources, Inc	OGRII	D: 7377		Dat	te: 08/2	1/2024	
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.								
If Other, please describe:				····				
III. Well(s): Provide the be recompleted from a si					wells pro	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated roduced Water BBL/D
PRETTY GOOD 20 FED COM 304H		B-20-22S-32E	425' FNL & 1805' FEL	+/- 1000	+/- 350	00	+/- 30	000
V. Anticipated Schedu or proposed to be recomp	lle: Provide the pleted from a	e following inform single well pad or o	ation for each ne	ew or recompleted entral delivery poi	l well or s	set of we	lls prop	posed to be drilled
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial I Back I		First Production Date
PRETTY GOOD 20 FED COM 304H		09/01/24	09/26/24	12/1/24		01/1/25		01/15/25
 VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance. 								

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.

🗵 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. \square 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	\square will \square will not have	capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first	est production.		

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or po	rtion, of th	ıe
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the no	ew well(s)).

	Attach (Operator'	a nlan t	o monoge	nroduction	in rocnone	a to the iner	eased line n	raccura
- 1	Amach (Operator	s nian i	o manage	e production	in respons	e to the incr	eased line bi	ressure

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	ded 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 inform	nation
for which confidentiality is asserted and the basis for such assertion.	

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

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

☑ 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

☐ 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.

Well Shut-In. □ 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. □ 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;

If Operator checks this box, Operator will select one of the following:

- **(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.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize 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.

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	857'
Tamarisk Anhydrite	949'
Top of Salt	1,263'
Base of Salt	4,404'
Lamar	4,749'
Bell Canyon	4,785
Cherry Canyon	5,629'
Brushy Canyon	6,902'
Bone Spring Lime	8,625
Leonard A Shale	8,769'
Leonard B Shale	9,009'
1 st Bone Spring Sand	9,711'
TD	9,737'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	5,629'	Oil
Brushy Canyon	6,902'	Oil
Leonard A Shale	8,769'	Oil
Leonard B Shale	9,009'	Oil
1 st Bone Spring Sand	9,711'	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 13.375" casing at 980' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole		Csg				DF _{min}	DF _{min}	$\mathbf{DF_{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0' – 980'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0'-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 4,510'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-10,102'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	10,102'-	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
	20,040'							

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" 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 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.

Cementing Program:

Depth	No. Sacks	Wt.	Yld Ft³/sk	Slurry Description
980'	570	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	180	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 780')
4,510'	810	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	300	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,600')
20,040'	590	11.0	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,010')
	2,840	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,371')

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	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

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. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig.

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

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

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0-980'	Fresh - Gel	8.6-8.8	28-34	N/c
980' - 4,510'	Brine	8.6-8.8	28-34	N/c
4,510' - 20,040'	Oil Base	8.8-9.5	58-68	N/c - 6

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 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4,810 psig and a maximum anticipated surface pressure of 2,668 psig (based on 9.5 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 6,902' to TD.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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

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

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" 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 Cameron Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

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

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

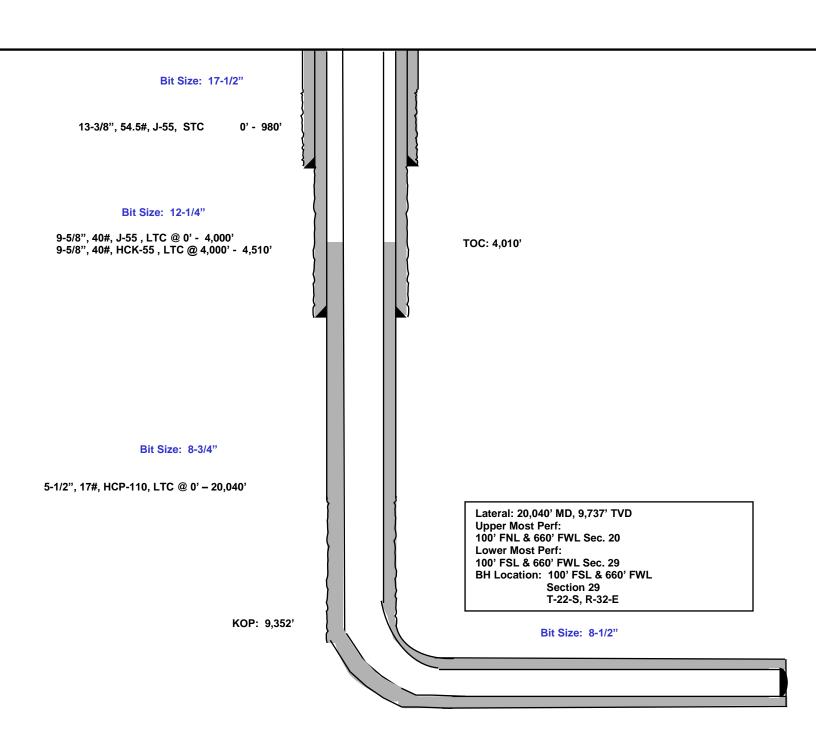
Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

425' FNL 1,805' FWL Section 20 T-22-S, R-32-E

Proposed Wellbore

KB: 3,684' GL: 3,659'

API: 30-025-****



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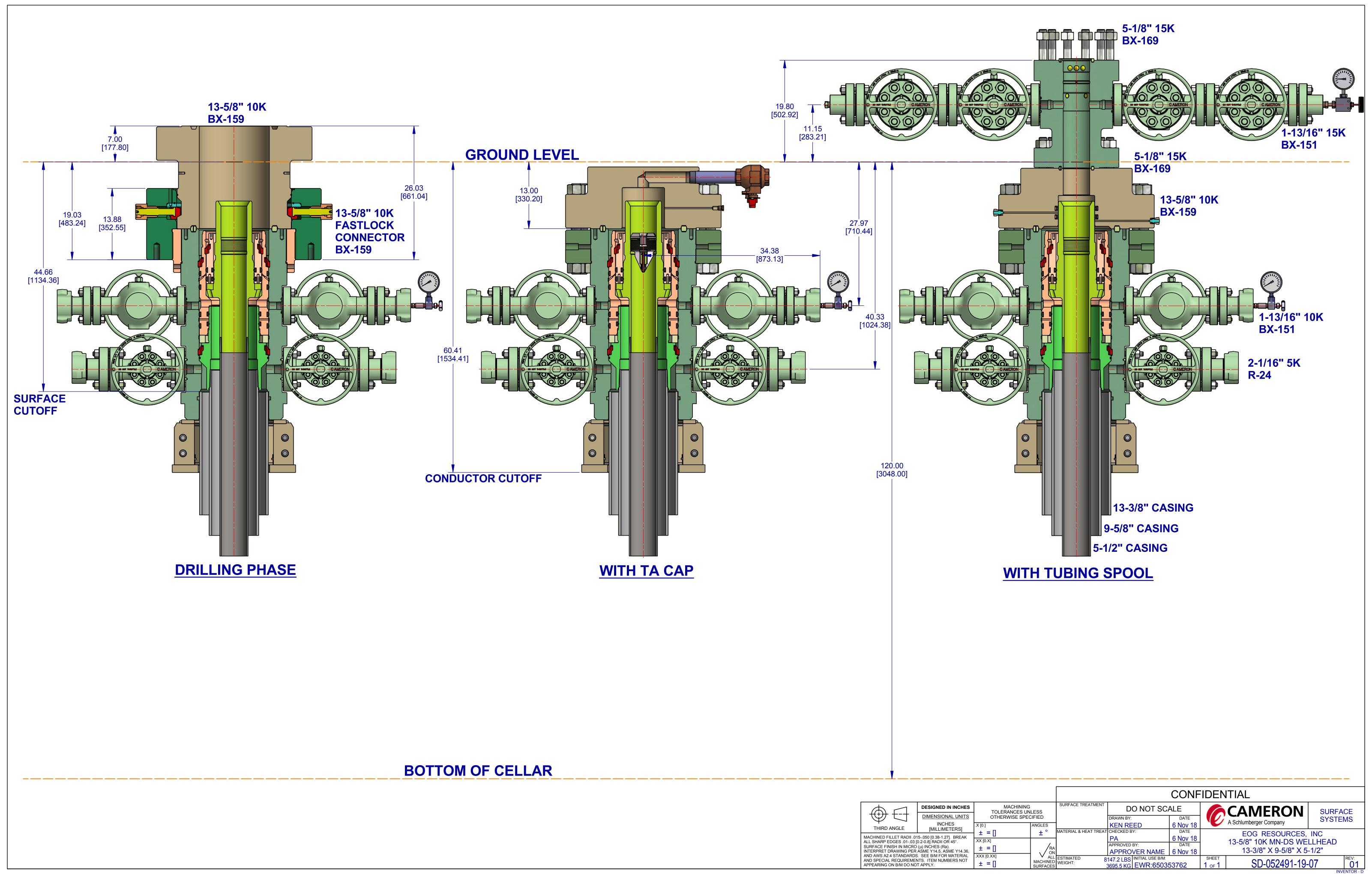
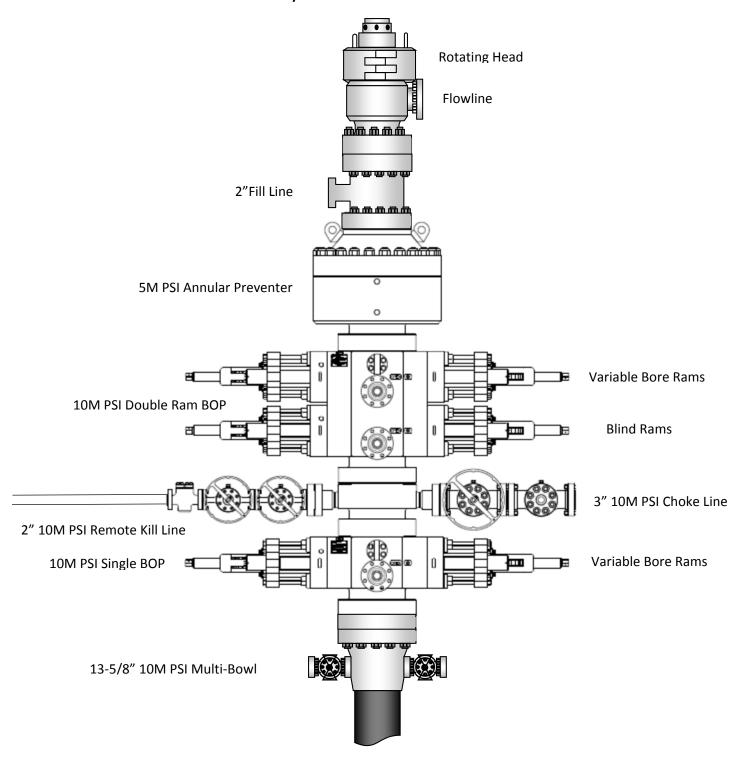


Exhibit 1
EOG Resources
13-5/8" 10M PSI BOP Stack



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
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" 10KPsi API Spec 6A Type 6BX Flange	End B: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange
No damage	No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX154	Seal Face: BX154
Length Before Hydro Test: 16'	Length After Hydro test: 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. Hose #62429 is suitable for continued service.

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.

Issued By: Alejandro Jaimes **Checked By:** Jeremy Mckay **Date:** 10/25/2016 **Date:** 10/25/2016

Date: 10/25/2016 QF97

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:

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:

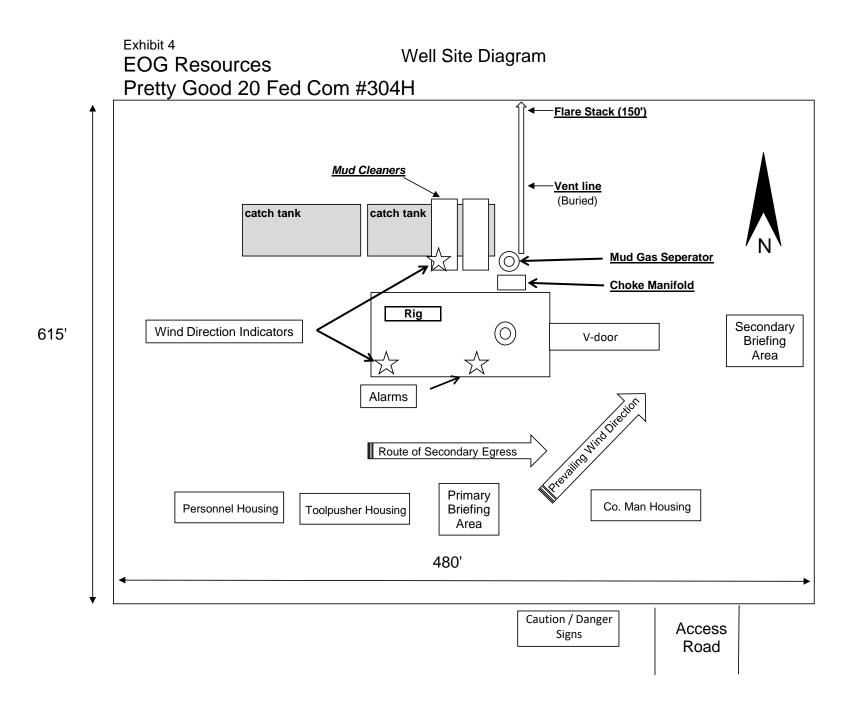
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

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

Emergency Assistance Telephone List

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
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:		
Jett Dueitt	Cell	(432) 230-4840
Blake Burney		` ,
Drilling Engineer		
Steve Munsell	Office	(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		,
Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent		
Jason Townsend	Office	(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





EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Pretty Good 20 Fed Com
#304H

OH

Plan: Plan #0.1 RT

Standard Planning Report

26 August, 2020

beog resources

EOG Resources

Planning Report

Database: EDM

Project:

Company: EOG

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Site: Pretty Good 20 Fed Com

Well: #304H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft

kb = 25' @ 3684.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: North American Datum 1983

New Mexico Eastern Zone

System Datum: Mea

Mean Sea Level

Site Pretty Good 20 Fed Com

 Site Position:
 Northing:
 503,120.00 usft
 Latitude:
 32.3815209°N

 From:
 Map
 Easting:
 738,938.00 usft
 Longitude:
 103.6932288°W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.34 °

Well #304H

 Well Position
 +N/-S
 591.0 usft
 Northing:
 503,711.00 usft
 Latitude:
 32.3831771°N

 +E/-W
 -1,937.0 usft
 Easting:
 737,001.00 usft
 Longitude:
 103.6994918°W

Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,659.0 usft

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 8/20/2020
 6.71
 60.05
 47,658.60014480

Design Plan #0.1 RT

Audit Notes:

 Version:
 Phase:
 PLAN
 Tie On Depth:
 0.0

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

 (usft)
 (usft)
 (usft)
 (°)

 0.0
 0.0
 0.0
 186.12

Plan Survey Tool Program Date 8/26/2020

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

0.0 20,039.9 Plan #0.1 RT (OH) EOG MWD+IFR1

MWD + IFR1

beog resources

EOG Resources

Planning Report

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Pretty Good 20 Fed Com

Well: #304H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

Grid

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,649.2	8.98	287.56	1,647.4	10.6	-33.5	2.00	2.00	0.00	287.56	
8,903.0	8.98	287.56	8,812.1	352.4	-1,113.5	0.00	0.00	0.00	0.00	
9,352.2	0.00	0.00	9,259.5	363.0	-1,147.0	2.00	-2.00	0.00	180.00	KOP(Pretty Good 20
9,572.6	26.46	180.00	9,472.2	313.0	-1,147.0	12.00	12.00	81.65	180.00	FTP(Pretty Good 20 F
10,102.1	90.00	179.60	9,736.9	-114.5	-1,145.0	12.00	12.00	-0.08	-0.44	
14,855.8	90.00	179.60	9,737.0	-4,868.0	-1,112.0	0.00	0.00	0.00	0.00	Fed Perf 1(Pretty Goc
17,497.9	90.00	179.62	9,737.0	-7,510.0	-1,094.0	0.00	0.00	0.00	84.45	Fed Perf 2(Pretty Goc
20,039.9	90.00	179.62	9,737.0	-10,052.0	-1,077.0	0.00	0.00	0.00	0.00	PBHL(Pretty Good 20

eog resources

EOG Resources

Planning Report

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

Site: Pretty Good 20 Fed Com Well: #304H

Wellbore: OH
Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
riailileu Suivey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00		400.0				0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1 000 0	0.00	0.00	1 000 0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0				0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	287.56	1,300.0	0.5	-1.7	-0.3	2.00	2.00	0.00
1,400.0	4.00	287.56	1,399.8	2.1	-6.7	-1.4	2.00	2.00	0.00
1,500.0	6.00	287.56	1,499.5	4.7	-15.0	-3.1	2.00	2.00	0.00
1,600.0	8.00	287.56	1,598.7	8.4	-26.6	-5.5	2.00	2.00	0.00
1,649.2	8.98	287.56	1,647.4	10.6	-33.5	-7.0	2.00	2.00	0.00
1,700.0	8.98	287.56	1,697.5	13.0	-41.1	-8.5	0.00	0.00	0.00
1,800.0	8.98	287.56	1,796.3	17.7	-56.0	-11.6	0.00	0.00	0.00
•									
1,900.0	8.98	287.56	1,895.1	22.4	-70.8	-14.7	0.00	0.00	0.00
2,000.0	8.98	287.56	1,993.9	27.1	-85.7	-17.8	0.00	0.00	0.00
2,100.0	8.98	287.56	2,092.6	31.8	-100.6	- 20.9	0.00	0.00	0.00
2,200.0	8.98	287.56	2,191.4	36.6	-115.5	-24.0	0.00	0.00	0.00
2,300.0	8.98	287.56	2,290.2	41.3	-130.4	-27.1	0.00	0.00	0.00
2,400.0	8.98	287.56	2,389.0	46.0	-145.3	-30.2	0.00	0.00	0.00
2,500.0	8.98	287.56	2,487.7	50.7	-160.2	-33.3	0.00	0.00	0.00
2,600.0	8.98	287.56	2,586.5	55.4	-175.1	-36.4	0.00	0.00	0.00
2,700.0	8.98	287.56	2,685.3	60.1	-190.0	-39.5	0.00	0.00	0.00
2,800.0	8.98	287.56	2,784.0	64.8	-204.8	-42.6	0.00	0.00	0.00
•									
2,900.0	8.98	287.56	2,882.8	69.5	-219.7	-45.7	0.00	0.00	0.00
3,000.0	8.98	287.56	2,981.6	74.3	-234.6	-48.8	0.00	0.00	0.00
3,100.0	8.98	287.56	3,080.4	79.0	-249.5	-51.9	0.00	0.00	0.00
3,200.0	8.98	287.56	3,179.1	83.7	-264.4	-55.0	0.00	0.00	0.00
3,300.0	8.98	287.56	3,277.9	88.4	-279.3	-58.1	0.00	0.00	0.00
3,400.0	8.98	287.56	3,376.7	93.1	-294.2	-61.2	0.00	0.00	0.00
3,500.0	8.98	287.56	3,475.5	97.8	-309.1	-64.3	0.00	0.00	0.00
3,600.0	8.98	287.56	3,574.2	102.5	-324.0	-67.4	0.00	0.00	0.00
3,700.0	8.98	287.56	3,673.0	107.2	-338.8	-70.5	0.00	0.00	0.00
3,800.0	8.98	287.56	3,771.8	111.9	-353.7	-73.6	0.00	0.00	0.00
3,900.0	8.98	287.56	3,870.5	116.7	-368.6	-76.7	0.00	0.00	0.00
4,000.0	8.98	287.56	3,969.3	121.4	-383.5	-79.8	0.00	0.00	0.00
4,100.0	8.98	287.56	4,068.1	126.1	-398.4	-82.9	0.00	0.00	0.00
4,200.0	8.98	287.56	4,166.9	130.8	-413.3	-86.0	0.00	0.00	0.00
4,300.0	8.98	287.56	4,265.6	135.5	-428.2	-89.1	0.00	0.00	0.00
4,400.0	8.98	287.56	4,364.4	140.2	-443.1	-92.2	0.00	0.00	0.00
4,500.0	8.98	287.56	4,463.2	144.9	-458.0	-95.3	0.00	0.00	0.00
4,600.0	8.98	287.56	4,562.0	149.6	-472.8	-98.4	0.00	0.00	0.00
4,700.0	8.98	287.56	4,660.7	154.4	-487.7	-101.5	0.00	0.00	0.00
4,800.0	8.98	287.56	4,759.5	159.1	-502.6	-104.6	0.00	0.00	0.00
4,900.0 5,000.0	8.98	287.56 287.56	4,858.3	163.8 168.5	-517.5 -532.4	-107.7	0.00	0.00	0.00
5,000.0 5,100.0	8.98	287.56 287.56	4,957.1	168.5	-532.4 -547.3	-110.8 -113.9	0.00	0.00	0.00
	8.98		5,055.8	173.2			0.00	0.00	0.00
5,200.0	8.98	287.56	5,154.6	177.9	-562.2	-117.0	0.00	0.00	0.00

EOG Resources Planning Report

eog resources

EDM Database: Company:

Site:

EOG Resources - Midland

Lea County, NM (NAD 83 NME) Project: Pretty Good 20 Fed Com

Well: #304H ОН Wellbore:

Design: Plan #0.1 RT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	8.98	287.56	5,253.4	182.6	-577.1	-120.1	0.00	0.00	0.00
5,400.0	8.98	287.56	5,352.1	187.3	-591.9	-123.2	0.00	0.00	0.00
5,500.0	8.98	287.56	5,450.9	192.1	-606.8	-126.3	0.00	0.00	0.00
5,600.0	8.98	287.56	5,549.7	196.8	-621.7	-129.4	0.00	0.00	0.00
5,700.0	8.98	287.56	5,648.5	201.5	-636.6	-132.5	0.00	0.00	0.00
5,800.0	8.98	287.56	5,747.2	206.2	-651.5	-135.6	0.00	0.00	0.00
5,900.0	8.98	287.56	5,846.0	210.9	-666.4	-138.7	0.00	0.00	0.00
6,000.0	8.98	287.56	5,944.8	215.6	-681.3	-141.8	0.00	0.00	0.00
6,100.0	8.98	287.56	6,043.6	220.3	-696.2	-144.9	0.00	0.00	0.00
6,200.0	8.98	287.56	6,142.3	225.0	-711.1	-148.0	0.00	0.00	0.00
6,300.0	8.98	287.56	6,241.1	229.7	-725.9	-151.1	0.00	0.00	0.00
6,400.0	8.98	287.56	6,339.9	234.5	-740.8	-154.2	0.00	0.00	0.00
6,500.0	8.98	287.56	6,438.6	239.2	-755.7	-157.3	0.00	0.00	0.00
6,600.0	8.98	287.56	6,537.4	243.9	-770.6	-160.4	0.00	0.00	0.00
6,700.0	8.98	287.56	6,636.2	248.6	-785.5	-163.5	0.00	0.00	0.00
6,800.0	8.98	287.56	6,735.0	253.3	-800.4	-166.6	0.00	0.00	0.00
6,900.0	8.98	287.56	6,833.7	258.0	-815.3	-169.7	0.00	0.00	0.00
7,000.0	8.98	287.56	6,932.5	262.7	-830.2	-172.8	0.00	0.00	0.00
7,100.0	8.98	287.56	7,031.3	267.4	-845.1	-175.9	0.00	0.00	0.00
7,200.0	8.98	287.56	7,130.1	272.2	-859.9	-179.0	0.00	0.00	0.00
7,300.0	8.98	287.56	7,228.8	276.9	-874.8	-182.1	0.00	0.00	0.00
7,400.0	8.98	287.56	7,327.6	281.6	-889.7	-185.2	0.00	0.00	0.00
7,500.0	8.98	287.56	7,426.4	286.3	-904.6	-188.3	0.00	0.00	0.00
7,600.0	8.98	287.56	7,525.2	291.0	-919.5	-191.4	0.00	0.00	0.00
7,700.0	8.98	287.56	7,623.9	295.7	-934.4	-194.5	0.00	0.00	0.00
7,800.0	8.98	287.56	7,722.7	300.4	-949.3	-197.6	0.00	0.00	0.00
7,900.0	8.98	287.56	7,821.5	305.1	-964.2	-200.7	0.00	0.00	0.00
8,000.0	8.98	287.56	7,920.2	309.8	-979.1	-203.8	0.00	0.00	0.00
8,100.0	8.98	287.56	8,019.0	314.6	-993.9	-206.9	0.00	0.00	0.00
8,200.0	8.98	287.56	8,117.8	319.3	-1,008.8	-210.0	0.00	0.00	0.00
8,300.0	8.98	287.56	8,216.6	324.0	-1,023.7	-213.1	0.00	0.00	0.00
8,400.0	8.98	287.56	8,315.3	328.7	-1,038.6	-216.2	0.00	0.00	0.00
8,500.0	8.98	287.56	8,414.1	333.4	-1,053.5	-219.3	0.00	0.00	0.00
8,600.0	8.98	287.56	8,512.9	338.1	-1,068.4	-222.4	0.00	0.00	0.00
8,700.0	8.98	287.56	8,611.7	342.8	-1,083.3	-225.5	0.00	0.00	0.00
8,800.0	8.98	287.56	8,710.4	347.5	-1,098.2	-228.6	0.00	0.00	0.00
8,903.0	8.98	287.56	8,812.1	352.4	-1,113.5	-231.8	0.00	0.00	0.00
9,000.0	7.04	287.56	8,908.2	356.5	-1,126.4	-234.5	2.00	-2.00	0.00
9,100.0	5.04	287.56	9,007.7	359.7	-1,136.4	-236.5	2.00	-2.00	0.00
9,200.0	3.04	287.56	9,107.4	361.8	-1,143.1	-237.9	2.00	-2.00	0.00
9,300.0	1.04	287.56	9,207.3	362.9	-1,146.5	-238.6	2.00	-2.00	0.00
9,352.2	0.00	0.00	9,259.5	363.0	-1,147.0	-238.7	2.00	-2.00	0.00
•	Good 20 Fed Co	•							
9,375.0	2.74	180.00	9,282.3	362.5	-1,147.0	-238.2	12.00	12.00	0.00
9,400.0	5.74	180.00	9,307.2	360.6	-1,147.0	-236.4	12.00	12.00	0.00
9,425.0	8.74	180.00	9,332.0	357.5	-1,147.0	-233.2	12.00	12.00	0.00
9,450.0	11.74	180.00	9,356.6	353.0	-1,147.0	-228.8	12.00	12.00	0.00
9,475.0	14.74	180.00	9,381.0	347.3	-1,147.0	-223.1	12.00	12.00	0.00
9,500.0	17.74	180.00	9,405.0	340.3	-1,147.0	-216.2	12.00	12.00	0.00
9,525.0	20.74	180.00	9,428.6	332.1	-1,147.0	-208.0	12.00	12.00	0.00
9,550.0	23.74	180.00	9,451.7	322.6	-1,147.0	-198.6	12.00	12.00	0.00
9,572.6	26.46	180.00	9,472.2	313.0	-1,147.0	-189.0	12.00	12.00	0.00

eog resources

EOG Resources

Planning Report

EDM Database: Company:

EOG Resources - Midland

Lea County, NM (NAD 83 NME) Pretty Good 20 Fed Com

Site: Well: #304H

Project:

ОН Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

Grid

ellbore: esign:	Plan #0.1 RT								
lanned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,575.0	26.74	180.00	9,474.3	311.9	-1,147.0	-188.0	12.00	12.00	-0.21
9,600.0	29.74	179.95	9,496.3	300.1	-1,147.0	-176.2	12.00	12.00	-0.19
9,625.0	32.74	179.91	9,517.7	287.1	-1,147.0	-163.3	12.00	12.00	-0.15
9,650.0	35.74	179.88	9,538.4	273.1	-1,147.0	-149.3	12.00	12.00	-0.13
9,675.0	38.74	179.85	9,558.3	257.9	-1,146.9	-134.3	12.00	12.00	-0.11
9,700.0	41.74	179.82	9.577.4	241.8	-1,146.9	-118.2	12.00	12.00	-0.10
9,725.0	44.74	179.80	9,595.6	224.7	-1,146.8	-101.2	12.00	12.00	-0.09
9,750.0	47.74	179.78	9,612.9	206.6	-1,146.7	-83.3	12.00	12.00	-0.08
	50.74								
9,775.0		179.76	9,629.2	187.7	-1,146.7	-64.5	12.00	12.00	-0.07
9,800.0	53.74	179.75	9,644.5	167.9	-1,146.6	-44.8	12.00	12.00	-0.07
9,825.0	56.74	179.73	9,658.7	147.4	-1,146.5	-24.4	12.00	12.00	-0.06
9,850.0	59.74	179.72	9,671.9	126.1	-1,146.4	-3.3	12.00	12.00	-0.06
9,875.0	62.74	179.70	9,683.9	104.2	-1,146.3	18.5	12.00	12.00	-0.05
9,900.0	65.74	179.69	9,694.8	81.7	-1,146.2	40.9	12.00	12.00	-0.05
9,925.0	68.74	179.68	9,704.5	58.7	-1,146.0	63.8	12.00	12.00	-0.05
9.950.0	71.74	179.67	9,712.9	35.1	1 145 0	87.1	12.00	12.00	-0.05
-,			,		-1,145.9			12.00	
9,975.0	74.74	179.66	9,720.1	11.2	-1,145.8	110.9	12.00	12.00	-0.05
10,000.0	77.74	179.65	9,726.1	-13.1	-1,145.6	135.1	12.00	12.00	-0.04
10,025.0	80.74	179.64	9,730.7	-37.6	-1,145.5	159.5	12.00	12.00	-0.04
10,050.0	83.74	179.62	9,734.1	-62.4	-1,145.3	184.1	12.00	12.00	-0.04
10,075.0	86.74	179.61	9,736.2	-87.3	-1,145.1	208.8	12.00	12.00	-0.04
10,102.1	90.00	179.60	9,736.9	-114.5	-1,145.0	235.8	12.00	12.00	-0.04
10,200.0	90.00	179.60	9,736.9	-212.3	-1,144.3	333.0	0.00	0.00	0.00
10,300.0	90.00	179.60	9,736.9	-312.3	-1,143.6	432.4	0.00	0.00	0.00
10,400.0	90.00	179.60	9,736.9	-412.3	-1,142.9	531.7	0.00	0.00	0.00
10,500.0	90.00	179.60	9,736.9	-512.3	-1,142.2	631.1	0.00	0.00	0.00
10,600.0	90.00	179.60	9,737.0	-612.3	-1,141.5	730.4	0.00	0.00	0.00
10,700.0	90.00	179.60	9,737.0	-712.3	-1,140.8	829.8	0.00	0.00	0.00
10,800.0	90.00	179.60	9,737.0	-812.3	-1,140.1	929.1	0.00	0.00	0.00
10,900.0	90.00	179.60	9,737.0	-912.3	-1,139.4	1,028.5	0.00	0.00	0.00
11,000.0	90.00	179.60	9,737.0	-1,012.3	-1,138.7	1,127.8	0.00	0.00	0.00
11,100.0	90.00	179.60	9,737.0	-1,112.3	-1,138.0	1,227.2	0.00	0.00	0.00
11,200.0	90.00	179.60	9,737.0	-1,212.3	-1,137.3	1,326.5	0.00	0.00	0.00
11,300.0	90.00	179.60	9,737.0	-1,312.3	-1,136.6	1,425.9	0.00	0.00	0.00
11,400.0	90.00	179.60	9,737.0	-1,412.3	-1,136.0	1,525.3	0.00	0.00	0.00
11,500.0	90.00	179.60	9,737.0	-1,512.3	-1,135.3	1,624.6	0.00	0.00	0.00
11,600.0	90.00	179.60	9,737.0	-1,612.3	-1,134.6	1,724.0	0.00	0.00	0.00
11,700.0	90.00	179.60	9,737.0	-1,712.3	-1,133.9	1,823.3	0.00	0.00	0.00
11,800.0	90.00	179.60	9,737.0	-1,812.3	-1,133.2	1,922.7	0.00	0.00	0.00
11,900.0	90.00	179.60	9,737.0	-1,912.3	-1,132.5	2,022.0	0.00	0.00	0.00
12,000.0	90.00	179.60	9,737.0	-2,012.3	-1,131.8	2,121.4	0.00	0.00	0.00
12,100.0	90.00	179.60	9,737.0	-2,112.3	-1,131.1	2,220.7	0.00	0.00	0.00
12,200.0	90.00	179.60	9,737.0	-2,212.3	-1,130.4	2,320.1	0.00	0.00	0.00
12,300.0	90.00	179.60	9,737.0	-2,312.3	-1,129.7	2,419.4	0.00	0.00	0.00
12,400.0	90.00	179.60	9,737.0	-2,412.2	-1,129.0	2,518.8	0.00	0.00	0.00
12,500.0	90.00	179.60	9,737.0	-2,512.2	-1,128.3	2,618.2	0.00	0.00	0.00
12,600.0	90.00	179.60	9,737.0	-2,612.2	-1,127.6	2,717.5	0.00	0.00	0.00
12,700.0	90.00	179.60	9,737.0	-2,712.2	-1,126.9	2,816.9	0.00	0.00	0.00
12,800.0	90.00	179.60	9,737.0	-2,812.2	-1,126.2	2,916.2	0.00	0.00	0.00
12,900.0	90.00	179.60	9,737.0	-2,912.2	-1,125.6	3,015.6	0.00	0.00	0.00
13,000.0	90.00	179.60	9,737.0	-3,012.2	-1,124.9	3,114.9	0.00	0.00	0.00
13,100.0	90.00	179.60	9,737.0	-3,112.2	-1,124.9	3,214.3	0.00	0.00	0.00
13,200.0	90.00	179.60	9,737.0	-3,212.2	-1,123.5	3,313.6	0.00	0.00	0.00
13,300.0	90.00	179.60	9,737.0	-3,312.2	-1,123.8	3,413.0	0.00	0.00	0.00

EOG Resources Planning Report



EDM Database:

Company:

EOG Resources - Midland Lea County, NM (NAD 83 NME) Project: Pretty Good 20 Fed Com Site:

Well: #304H ОН Wellbore: Design: Plan #0.1 RT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

Grid

esign:	Plan #0.1 RT												
lanned 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)				
13,400.0	90.00	179.60	9,737.0	-3,412.2	-1,122.1	3,512.3	0.00	0.00	0.00				
13,500.0	90.00	179.60	9,737.0	-3,512.2	-1,121.4	3,611.7	0.00	0.00	0.00				
13,600.0	90.00	179.60	9,737.0	-3,612.2	-1,120.7	3,711.1	0.00	0.00	0.00				
13,700.0	90.00	179.60	9,737.0	-3,712.2	-1,120.0	3,810.4	0.00	0.00	0.00				
13,800.0	90.00	179.60	9,737.0	-3,812.2	-1,119.3	3,909.8	0.00	0.00	0.00				
13,900.0	90.00	179.60	9,737.0	-3,912.2	-1,118.6	4,009.1	0.00	0.00	0.00				
14,000.0	90.00	179.60	9,737.0	-4,012.2	-1,117.9	4,108.5	0.00	0.00	0.00				
14,100.0	90.00	179.60	9,737.0	-4,112.2	-1,117.2	4,207.8	0.00	0.00	0.00				
14,200.0	90.00	179.60	9,737.0	-4,212.2	-1,116.5	4,307.2	0.00	0.00	0.00				
14,300.0	90.00	179.60	9,737.0	-4,312.2	-1,115.9	4,406.5	0.00	0.00	0.00				
14,400.0	90.00	179.60	9,737.0	-4,412.2	-1,115.2	4,505.9	0.00	0.00	0.00				
14,500.0	90.00	179.60	9,737.0	-4,512.2	-1,114.5	4,605.2	0.00	0.00	0.00				
14,600.0	90.00	179.60	9,737.0	-4,612.2	-1,113.8	4,704.6	0.00	0.00	0.00				
14,700.0	90.00	179.60	9,737.0	-4,712.2	-1,113.1	4,804.0	0.00	0.00	0.00				
14,800.0	90.00	179.60	9,737.0	-4,812.2	-1,112.4	4,903.3	0.00	0.00	0.00				
14,855.8	90.00	179.60	9,737.0	-4,868.0	-1,112.0	4,958.8	0.00	0.00	0.00				
•	etty Good 20 Fe	,											
14,900.0	90.00	179.60	9,737.0	-4,912.2	-1,111.7	5,002.7	0.00	0.00	0.00				
15,000.0	90.00	179.60	9,737.0	-5,012.2	-1,111.0	5,102.0	0.00	0.00	0.00				
15,100.0	90.00	179.60	9,737.0	-5,112.2	-1,110.3	5,201.4	0.00	0.00	0.00				
15,200.0	90.00	179.60	9,737.0	-5,212.2	-1,109.6	5,300.7	0.00	0.00	0.00				
15,300.0	90.00	179.61	9,737.0	-5,312.2	-1,108.9	5,400.1	0.00	0.00	0.00				
15,400.0	90.00	179.61	9,737.0	-5,412.2	-1,108.2	5,499.4	0.00	0.00	0.00				
15,500.0	90.00	179.61	9,737.0	-5,512.2	-1,107.6	5,598.8	0.00	0.00	0.00				
15,600.0	90.00	179.61	9,737.0	-5,612.2	-1,106.9	5,698.2	0.00	0.00	0.00				
15,700.0	90.00	179.61	9,737.0	-5,712.2	-1,106.2	5,797.5	0.00	0.00	0.00				
15,800.0	90.00	179.61	9,737.0	-5,812.2	-1,105.5	5,896.9	0.00	0.00	0.00				
15,900.0	90.00	179.61	9,737.0	-5,912.2	-1,104.8	5,996.2	0.00	0.00	0.00				
16,000.0	90.00	179.61	9,737.0	-6,012.2	-1,104.1	6,095.6	0.00	0.00	0.00				
16,100.0	90.00	179.61	9,737.0	-6,112.2	-1,103.4	6,194.9	0.00	0.00	0.00				
16,200.0	90.00	179.61	9,737.0	-6,212.2	-1,102.8	6,294.3	0.00	0.00	0.00				
16,300.0	90.00	179.61	9,737.0	-6,312.2	-1,102.1	6,393.6	0.00	0.00	0.00				
16,400.0	90.00	179.61	9,737.0	-6,412.2	-1,101.4	6,493.0		0.00	0.00				
16,500.0	90.00	179.61	9,737.0	-6,512.2	-1,100.7	6,592.4	0.00	0.00	0.00				
16,600.0	90.00	179.61	9,737.0	-6,612.1	-1,100.0	6,691.7	0.00	0.00	0.00				
16,700.0	90.00	179.61	9,737.0	-6,712.1	-1,099.4	6,791.1	0.00	0.00	0.00				
16,800.0	90.00	179.61	9,737.0	-6,812.1	-1,098.7	6,890.4	0.00	0.00	0.00				
16,900.0	90.00	179.61	9,737.0	-6,912.1	-1,098.0	6,989.8	0.00	0.00	0.00				
17,000.0	90.00	179.61	9,737.0	-7,012.1	-1,097.3	7,089.1	0.00	0.00	0.00				
17,100.0	90.00	179.61	9,737.0	-7,112.1	-1,096.7	7,188.5	0.00	0.00	0.00				
17,200.0	90.00	179.61	9,737.0	-7,212.1	-1,096.0	7,287.9	0.00	0.00	0.00				
17,300.0	90.00	179.62	9,737.0	-7,312.1	-1,095.3	7,387.2	0.00	0.00	0.00				
17,400.0	90.00	179.62	9,737.0	-7,412.1	-1,094.7	7,486.6	0.00	0.00	0.00				
17,497.9	90.00	179.62	9,737.0	-7,510.0	-1,094.0	7,583.8	0.00	0.00	0.00				
	etty Good 20 Fe				*								
17,500.0	90.00	179.62	9,737.0	-7,512.1	-1,094.0	7,585.9	0.00	0.00	0.00				
17,600.0	90.00	179.62	9,737.0	-7,612.1	-1,093.3	7,685.3	0.00	0.00	0.00				
17,700.0	90.00	179.62	9,737.0	-7,712.1	-1,092.6	7,784.6	0.00	0.00	0.00				
17,800.0	90.00	179.62	9,737.0	-7,812.1	-1,092.0	7,884.0	0.00	0.00	0.00				
17,900.0	90.00	179.62	9,737.0	-7,912.1	-1,091.3	7,983.4	0.00	0.00	0.00				
18,000.0	90.00	179.62	9,737.0	-8,012.1	-1,090.6	8,082.7	0.00	0.00	0.00				
18,100.0	90.00	179.62	9,737.0	-8,112.1	-1,090.0	8,182.1	0.00	0.00	0.00				
18,200.0	90.00	179.62	9,737.0	-8,212.1	-1,089.3	8,281.4	0.00	0.00	0.00				

EOG ResourcesPlanning Report

beog resources

Database: EDM Company: EOG

Project:

EOG Resources - Midland Lea County, NM (NAD 83 NME)

Site: Pretty Good 20 Fed Com Well: #304H

Wellbore: OH
Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #304H

kb = 25' @ 3684.0usft kb = 25' @ 3684.0usft

Grid

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)
18,300.0	90.00	179.62	9,737.0	-8,312.1	-1,088.6	8,380.8	0.00	0.00	0.00
18,400.0	90.00	179.62	9,737.0	-8,412.1	-1,088.0	8,480.1	0.00	0.00	0.00
18,500.0	90.00	179.62	9,737.0	-8,512.1	-1,087.3	8,579.5	0.00	0.00	0.00
18,600.0	90.00	179.62	9,737.0	-8,612.1	-1,086.6	8,678.9	0.00	0.00	0.00
18,700.0	90.00	179.62	9,737.0	-8,712.1	-1,086.0	8,778.2	0.00	0.00	0.00
18,800.0	90.00	179.62	9,737.0	-8,812.1	-1,085.3	8,877.6	0.00	0.00	0.00
18,900.0	90.00	179.62	9,737.0	-8,912.1	-1,084.6	8,976.9	0.00	0.00	0.00
19,000.0	90.00	179.62	9,737.0	-9,012.1	-1,083.9	9,076.3	0.00	0.00	0.00
19,100.0	90.00	179.62	9,737.0	-9,112.1	-1,083.3	9,175.6	0.00	0.00	0.00
19,200.0	90.00	179.62	9,737.0	-9,212.1	-1,082.6	9,275.0	0.00	0.00	0.00
19,300.0	90.00	179.62	9,737.0	-9,312.1	-1,081.9	9,374.4	0.00	0.00	0.00
19,400.0	90.00	179.62	9,737.0	-9,412.1	-1,081.3	9,473.7	0.00	0.00	0.00
19,500.0	90.00	179.62	9,737.0	-9,512.1	-1,080.6	9,573.1	0.00	0.00	0.00
19,600.0	90.00	179.62	9,737.0	-9,612.1	-1,079.9	9,672.4	0.00	0.00	0.00
19,700.0	90.00	179.62	9,737.0	-9,712.1	-1,079.3	9,771.8	0.00	0.00	0.00
19,800.0	90.00	179.62	9,737.0	-9,812.1	-1,078.6	9,871.1	0.00	0.00	0.00
19,900.0	90.00	179.62	9,737.0	-9,912.1	-1,077.9	9,970.5	0.00	0.00	0.00
20,000.0	90.00	179.62	9,737.0	-10,012.1	-1,077.3	10,069.9	0.00	0.00	0.00
20,039.9	90.00	179.62	9,737.0	-10,052.0	-1,077.0	10,109.5	0.00	0.00	0.00

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(Pretty Good 20 Fe - plan hits target ce - Point		0.00	9,259.5	363.0	-1,147.0	504,074.00	735,854.00	32.3841935°N	103.7032003°W
FTP(Pretty Good 20 Fe - plan hits target ce - Point		0.00	9,472.2	313.0	-1,147.0	504,024.00	735,854.00	32.3840561°N	103.7032013°W
Fed Perf 1(Pretty Good - plan hits target ce - Point		0.00	9,737.0	-4,868.0	-1,112.0	498,843.00	735,889.00	32.3698146°N	103.7031867°W
PBHL(Pretty Good 20 F - plan hits target ce - Point		0.00	9,737.0	-10,052.0	-1,077.0	493,659.00	735,924.00	32.3555649°N	103.7031722°W
Fed Perf 2(Pretty Good - plan hits target ce - Point		0.00	9,737.0	-7,510.0	-1,094.0	496,201.00	735,907.00	32.3625523°N	103.7031788°W



T M

Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.37°

Magnetic Field Strength: 47658.6nT Dip Angle: 60.05° Date: 8/20/2020 Model: IGRF2020

503711.00

To convert a Magnetic Direction to a Grid Direction, Add 6.37°
To convert a Magnetic Direction to a True Direction, Add 6.71° East
To convert a True Direction to a Grid Direction, Subtract 0.34°

Lea County, NM (NAD 83 NME)

Pretty Good 20 Fed Com #304H

Plan #0.1 RT

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

WELL DETAILS: #304H

3659.0

32.3831771°N

kb = 25' @ 3684.0usft
Northing Easting Latittude

737001.00

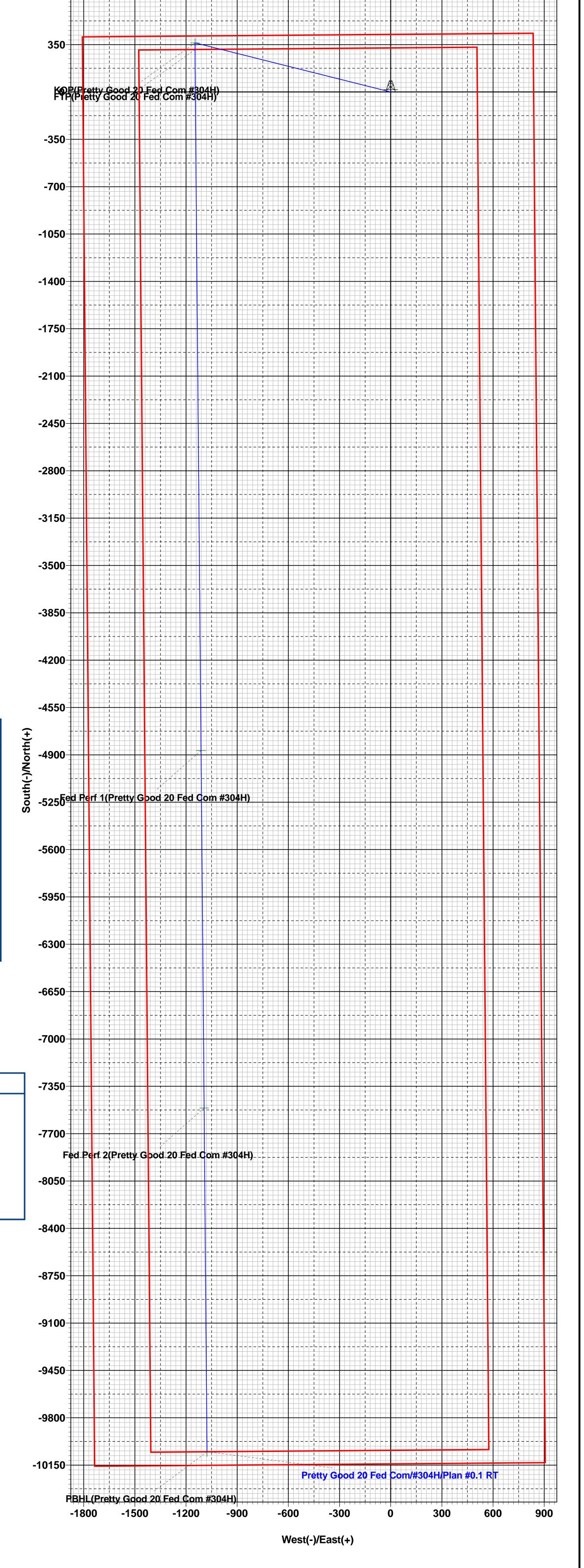
Longitude 103.6994918°W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1649.2	8.98	287.56	1647.4	10.6	-33.5	2.00	287.56	-7.0	
4	8903.0	8.98	287.56	8812.1	352.4	-1113.5	0.00	0.00	-231.8	
5	9352.2	0.00	0.00	9259.5	363.0	-1147.0	2.00	180.00	-238.7	KOP(Pretty Good 20 Fed Com #304H)
6	9572.6	26.46	180.00	9472.2	313.0	-1147.0	12.00	180.00	-189.0	FTP(Pretty Good 20 Fed Com #304H)
7	10102.1	90.00	179.60	9736.9	-114.5	-1145.0	12.00	-0.44	235.8	
8	14855.8	90.00	179.60	9737.0	-4868.0	-1112.0	0.00	0.00	4958.8	Fed Perf 1(Pretty Good 20 Fed Com #304H)
9	17497.9	90.00	179.62	9737.0	-7510.0	-1094.0	0.00	84.45	7583.8	Fed Perf 2(Pretty Good 20 Fed Com #304H)
10	20039.9	90.00	179.62	9737.0	-10052.0	-1077.0	0.00	0.00	10109.5	PBHL(Pretty Good 20 Fed Com #304H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) +E/-W Northing TVD +N/-S **Easting** KOP(Pretty Good 20 Fed Com #304H) 9259.5 363.0 735854.00 -1147.0 504074.00 313.0 -1147.0 FTP(Pretty Good 20 Fed Com #304H) 9472.2 504024.00 735854.00 9737.0 9737.0 9737.0 Fed Perf 1(Pretty Good 20 Fed Com #304H) -4868.0 -1112.0 498843.00 735889.00 Fed Perf 2(Pretty Good 20 Fed Com #304H)
PBHL(Pretty Good 20 Fed Com #304H) -7510.0 496201.00 735907.00 -10052.0 -1077.0 493659.00 735924.00



West(-)/East(+)

Pretty Good 20 Fed Com/#304H/Plan #0.1 RT

| Pretty Good 20 Fed Com/#304H/Plan #0.1 RT

Vertical Section at 186.12°

Lea County, NM (NAD 83 NME)
Pretty Good 20 Fed Com
#304H
OH
Plan #0.1 RT
13:31, August 26 2020

KOP(Pretty Good 20 Fed Com #304H)

FTP(Pretty Good 20 Fed Com #304H)

6000

6900

7200

7500

9000

9600

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG RESOURCES INCORPORATED
WELL NAME & NO.: PRETTY GOOD 20 FED COM 304H
SURFACE HOLE FOOTAGE: 425'/N & 1805'/W
BOTTOM HOLE FOOTAGE 100'/S & 660'/W

LOCATION: Section 20, T.22 S., R.32 E., NMP

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	O Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency	☐ EchoMeter	☐ Primary Cement
_	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	☑ COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	☐ Break Testing	☐ Offline	☐ Casing
Variance		Cementing	Clearance

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 **13-3/8** inch surface casing shall be set at approximately **980** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 4,510 feet TVD.
 - Mud weight could brine up to 10.5ppg. Reviewed and OK

The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The 5-1/2 inch production casing shall be set at approximately 20,040 feet. Keep hole full for tensile SF. 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.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 43 CFR part 3170 Subpart 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Casing Clearance:

- Overlap OK
- Salt annular variance not requested.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

Page 3 of 8

- 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

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220.

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- 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 **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 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 43 CFR part 3170 Subpart 3172 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

KPI 1/30/2024

10,000 PSI BOP Annular Variance Request (EOG Variance 1c)

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

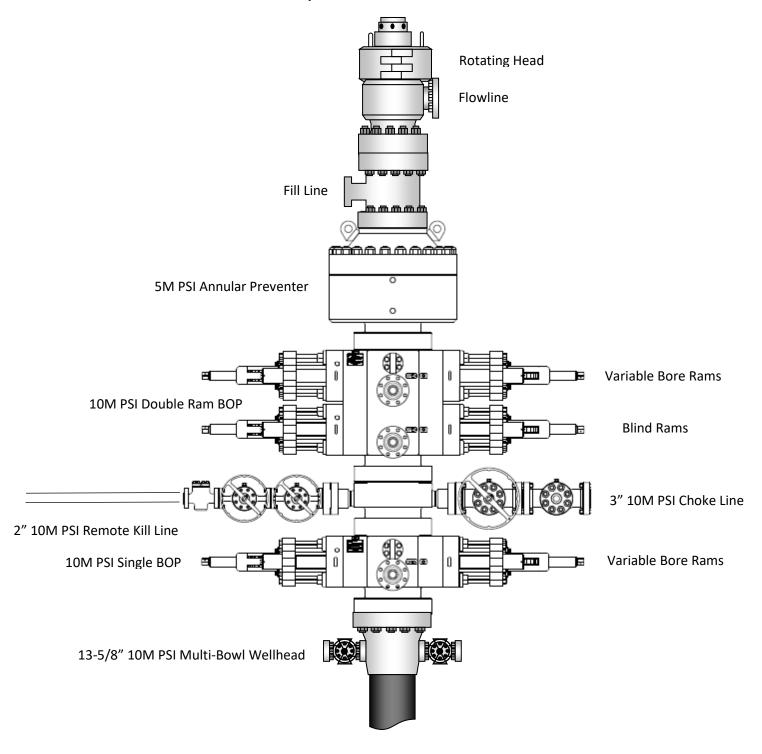
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

12-1/4" Intermediate Hole Section 10M psi requirement								
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP			
Drillpipe	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
	4.500"			Lower 3.5 - 5.5" VBR	10M			
HWDP	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
	4.500"			Lower 3.5 - 5.5" VBR	10M			
Jars	6.500"	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	8.000" - 9.625"	Annular	5M	-	-			
1 st Intermediate casing	9.625"	Annular	5M	-	-			
Open-hole	-	Blind Rams	10M	-	-			

8-3/4" Production Hole Section									
10M psi requirement									
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP				
Drillpipe	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
	4.500"			Lower 3.5 - 5.5" VBR	10M				
HWDP	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
	4.500"			Lower 3.5 - 5.5" VBR	10M				
Jars	6.500"	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	•	-				
2 nd Intermediate casing	7.625"	Annular	5M	-	-				
Open-hole	-	Blind Rams	10M	-	-				

VBR = Variable Bore Ram

EOG Resources 13-5/8" 10M PSI BOP Stack



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

See previously attached Drill Plan

See previously attached Drill Plan

Please see previously attached drill plan.

See previously attached Drill Plan

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

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

CONDITIONS

Action 378109

CONDITIONS

Operator:	OGRID:			
EOG RESOURCES INC	7377			
5509 Champions Drive	Action Number:			
Midland, TX 79706	378109			
	Action Type:			
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)			

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	
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	9/7/2024
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	9/7/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/7/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	9/7/2024