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. NMNM14497 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 SHIPROCK 5 FED COM 707H 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 30-025-54702 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory BOBCAT DRAW; UPPER WOLFCAMP 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 5/T25S/R34E/NMP At surface TR B / 180 FNL / 1984 FEL / LAT 32.1662885 / LONG -103.4898034 At proposed prod. zone TR F / 2540 FNL / 2434 FWL / LAT 32.1453071 / LONG -103.4926337 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State LEA NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest property or lease line, ft. 480.0 (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, 33 feet 12368 feet / 19987 feet FED: NM2308 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3417 feet 08/24/2023 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. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date CRAIG RICHARDSON / Ph: (713) 651-7000 (Electronic Submission) 02/17/2023 Title Regulatory Specialist Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 09/25/2024 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 applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



*(Instructions on page 2)

<u>C-102</u>	0.07.07.1				State of Nev				Revise	ed July 9, 2024		
Submit Electronically				/		l Resources	1					
Via OCD Permitting OIL CONSERVAT					ION DIVIS	ON DIVISION Submittal Sub						
								Type:	Amended Report			
									As Drilled			
Linear		W		<u>CATIO</u>			EDICATION	PLAT				
API Number 30-025-5	54702			8094	Pool N	Bobcat	Draw; Upper \	Volfcamp				
Property Code 333512			Property Name		SHIPROCK	5 FED COM	1		Well Number	707H		
OGRID No.	7377		Operator Name		EOG RESO	URCES, INC) .		Ground Level Elev	ation 3417'		
Surface Owner:	State Fee	Tribal X Federal				Mineral Owner:	State Fee Tribal	Federal	•			
					Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County		
В	5	25-S	34-E	2	180' N	1984' E	N 32.16628	885 W 1	03.4898034	LEA		
	l	l	I	1		ole Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County		
F	8	25-S	34-E	-	2540' N	2434' W	N 32.14530	71 W 1	03.4926337	LEA		
									•			
Dedicated Acres		ining Well Defin	ing Well API			Overlapping Spacing Unit (Y/N) Consolidated Code						
479.8 480	INFI	LL 30-	025-5077	5		N C						
Order Numbers		NMN	IM105823	700		Well Setbacks are under Common Ownership: Yes No						
					Kick Off P	oint (KOP)						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude		Longitude	County		
С	5	25-S	34-E	-	50' N	2430' W	N 32.16664	66477 W 103.4925909 LE				
					First Take	Point (FTP)						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Feet from the E/W Latitude Lor			County		
С	5	25-S	34-E	-	100' N	2430' W	N 32.16651	03 W 1	03.4925912	LEA		
					Last Take	Point (LTP)						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County		
F	8	25-S	34-E	-	2540' N	2434' W	N 32.14530)71 W 1	03.4926337	LEA		
Unitized Area or A	rea of Uniform I	nterest		Spacing Unity	y Tyne		Ground	Floor Elevation				
		EEMENT		Spacing Cinty	X Horizont	al Vertical	Ground	Tool Elevation	3442'			
				•			1					
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this					SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was properly from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.							
well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received. The consent of at least one losses are revised the acceptance of at least one losses are revised.				2,4508								
received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.												
Star L Harrell 5/15/25					5/14/2025 8:31:06 AM							
Star L Ha	rrell		Date			Signature and Seal	of Professional Surveyor	r Date	e			
Print Name star_harre	ell@eogre	esources.	com			Certificate Number	Date of	f Survey 10/17/2020				
E-mail Address						1		10,11,2020				

C-102 Submit Electronically		State of New Mexico rgy, Minerals & Natural Resources Department						Revised July 9, 2024		
Via OCD Permitting	C	OIL CONSERVATION DIVISION					bmittal	X Initial Submittal		
									pe:	Amended Report
D. A. M. AWAIN, I										As Drilled
Property Name and Well Number		SHIP	ROCK !	5 F	ED COM	707H				
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=802353 Y=425254 LAT.: N 32.1662885 LONG.: W 103.4898034 NAD 1927 X=761167 Y=425195 LAT.: N 32.1661640	X=799059.10 ¬ Y=425411.30		X=801698. Y=425429.1		AZ = 278	1'		24-S.		POSED PERF. POINT (PPP1) NEW MEXICO EAST NAD 1983 X=801505 Y=422793 LAT.: N 32.1595438 LONG.: W 103.4926052 NAD 1927 X=760320 Y=422735 LAT.: N 32.1594191 LONG.: W 103.4921329
LONG.: W 103.4893313 180' FNL 1984' FEL	31	2430 2430 100'	; 		10/8	-1984'		25-S,		2634' FNL 2434' FWL
KICK OFF POINT (KOP) NEW MEXICO EAST NAD 1983 X=801489 Y=425378 LAT.: N 32.1666477 LONG.: W 103.4925909 NAD 1927 X=760304 Y=425319 LAT.: N 32.1665232 LONG.: W 103.4921173 50' FNL 2430' FWL UPPER MOST PERF. (UMP) NEW MEXICO EAST NAD 1983 X=801490 Y=425328 LAT.: N 32.1665103 LONG.: W 103.4925912 NAD 1927 X=760304 Y=425269 LAT.: N 32.1663858 LONG.: W 103.4921189 100' FNL 2430' FWL	X=799071.19 - Y=422781.08 X=799082.64 - Y=420141.51 6 - 7	USA NM 18460-A 100' 1100' 1100'	DE T		- PPP1 204' 204' 204' 204' 204' 204' 204' 204' 204' 204'		4 R		ВОТТ	OWER MOST PERF. (LMP) FOM HOLE LOCATION (BHL) NEW MEXICO EAST NAD 1983 X=801537 Y=417614 LAT.: N 32.1453071 LONG.: W 103.4926337 NAD 1927 X=760351 Y=417556 LAT.: N 32.1451825 LONG.: W 103.4921628 2540' FNL 2434' FWL
DETAIL VIEW SCALE: 1" = 400' Released to Imaging: 5/30/2025 11:	7 18					1	3 9 7 16		I hereby plat was made by same is 10/17/2 Date of Sur Signature a	

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	Resources, Inc	eOGRII	D: 7377		Da	te: 5/14	/2025			
II. Type: ⊠ Origina	l □ Amendm	ent due to □ 19.15	5.27.9.D(6)(a) NI	MAC □ 19.15.27.	9.D(6)(t) NMAC	□ Otl	ner.		
If Other, please describe	:									
III. Well(s): Provide the be recompleted from a s					wells pr	oposed to	be dri	lled or proposed to		
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D			Anticipated roduced Water BBL/D		
SHIPROCK 5 FED COM 707H		B-5-25S-34E	180' FNL & 1984' FEL	+/- 1000	+/- 35	00	+/- 3000			
V. Anticipated Schedor proposed to be recom	IV. Central Delivery Point Name:Shiprock 5 Fed Com CTB [See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.									
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date		First Production Date		
SHIPROCK 5 FED COM 707H		6/10/25	6/25/25	9/01/25		10/01/25	j	1/01/26		
							-			
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	Available Maximum Daily Capacity
			Start Date	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 t	to gather 100% of the anticipated	natural gas
production volume from the well prior to the date of fin	rst production.		

VIII I : Programme Outside of the control of the	'(1
	its existing well(s) connected to the same segment, or portion, of the
natural gas gathering system(s) described above will continue to m	neet anticipated increases in line pressure caused by the new well(s)

⊔ A1	ttach (Operator's	s pla	ın to n	nanage	production	n in re	sponse t	o the	increased	line	pressure
------	---------	------------	-------	---------	--------	------------	---------	----------	-------	-----------	------	----------

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

> power generation on lease; (a)

- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- reinjection for underground storage; (e)
- **(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
- 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: Star L Harrell
Printed Name: Star L Harrell
Title: Regulatory Advisor
E-mail Address: Star_Harrell@eogresources.com
Date: 5/14/2025
Phone: (432) 848-9161
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:

Tamarisk Anhydrite 1,616' Top of Salt 1,991' Base of Salt 5,020' Lamar 5,270' Bell Canyon 5,299' Cherry Canyon 6,251' Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Sand 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242' TD 12,368'	Rustler	1,133'
Base of Salt 5,020' Lamar 5,270' Bell Canyon 5,299' Cherry Canyon 6,251' Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Shale 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Tamarisk Anhydrite	1,616'
Lamar 5,270' Bell Canyon 5,299' Cherry Canyon 6,251' Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Shale 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Top of Salt	1,991'
Bell Canyon 5,299' Cherry Canyon 6,251' Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Shale 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Base of Salt	5,020'
Cherry Canyon 6,251' Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Shale 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Lamar	5,270'
Brushy Canyon 7,809' Bone Spring Lime 9,220' Leonard Shale 9,270' 1^{st} Bone Spring Sand 10,194' 2^{nd} Bone Spring Shale 10,418' 2^{nd} Bone Spring Sand 10,810' 3^{rd} Bone Spring Carb 11,253' 3^{rd} Bone Spring Sand 11,807' Wolfcamp 12,242'	Bell Canyon	5,299'
Bone Spring Lime Leonard Shale 1st Bone Spring Sand 2nd Bone Spring Shale 2nd Bone Spring Shale 2nd Bone Spring Sand 3rd Bone Spring Carb 3rd Bone Spring Sand 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp	Cherry Canyon	6,251'
Leonard Shale 9,270' 1st Bone Spring Sand 10,194' 2nd Bone Spring Shale 10,418' 2nd Bone Spring Sand 10,810' 3rd Bone Spring Carb 11,253' 3rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Brushy Canyon	7,809'
1^{st} Bone Spring Sand $10,194'$ 2^{nd} Bone Spring Shale $10,418'$ 2^{nd} Bone Spring Sand $10,810'$ 3^{rd} Bone Spring Carb $11,253'$ 3^{rd} Bone Spring Sand $11,807'$ Wolfcamp $12,242'$	Bone Spring Lime	9,220'
2 nd Bone Spring Shale 2 nd Bone Spring Sand 10,810' 3 rd Bone Spring Carb 11,253' 3 rd Bone Spring Sand 11,807' Wolfcamp 12,242'	Leonard Shale	9,270'
2^{nd} Bone Spring Sand 10,810' 3^{rd} Bone Spring Carb 11,253' 3^{rd} Bone Spring Sand 11,807' Wolfcamp 12,242'	1 st Bone Spring Sand	10,194'
3rd Bone Spring Carb11,253'3rd Bone Spring Sand11,807'Wolfcamp12,242'	2 nd Bone Spring Shale	10,418'
3 rd Bone Spring Sand 11,807' Wolfcamp 12,242'	2 nd Bone Spring Sand	10,810'
Wolfcamp 12,242'	3 rd Bone Spring Carb	11,253'
1	3 rd Bone Spring Sand	11,807'
TD 12,368'	Wolfcamp	12,242'
	TD	12,368'

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

THE PER LIE OF THE CHILLED I	TEL TITLE	eri, ore ore
Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	5,299'	Oil
Cherry Canyon	6,251'	Oil
Brushy Canyon	7,809'	Oil
Leonard (Avalon) Shale	9,270'	Oil
1 st Bone Spring Sand	10,194'	Oil
2 nd Bone Spring Shale	10,418'	Oil
2 nd Bone Spring Sand	10,810'	Oil
3 rd Bone Spring Carb	11,253'	Oil
3 rd Bone Spring Sand	11,807'	Oil
Wolfcamp	12,242'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" or 10-3/4" casing at 1,640' and circulating cement back to surface.



4. CASING PROGRAM - Design A

Hole	Interv	Interval MD		l TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,640	0	1,640	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,411	0	11,350	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,911	0	10,850	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,911	11,411	10,850	11,350	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,411	19,987	11,350	12,368	5-1/2"	20#	P110-EC	DWC/C IS MS

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

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

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

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

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

Cementing Program:

	No.	Wt.	Yld	
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,640' 9-5/8"	430	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,440')
11,350' 7-5/8"	440	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,610')
	1300	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,987' 5-1/2"	790	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,850')



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

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,809') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 300 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

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

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

Cement integrity tests will be performed immediately following plug bump.

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

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



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

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

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

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

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,640'	Fresh - Gel	8.6-8.8	28-34	N/c
1,640' – 11,350'	Brine	10.0-10.2	28-34	N/c
11,350' – 11,950'	Oil Base	8.7-9.4	58-68	N/c - 6
11,950' – 19,987'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				

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

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

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

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



8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 194 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9,004 psig and a maximum anticipated surface pressure of 6,283 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,809' to intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

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

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

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



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 5,000 psi.

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

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

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to
 offline cement and/or remediate (if needed) any surface or intermediate sections,
 according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



180' FNL 1984' FEL **Proposed Wellbore**

KB: 3442' GL: 3417'

Section 5

T-25-S, R-34-E

API: 30-025-****

Bit Size: 12-1/4" 9-5/8", 36#, J-55, LTC, 0' - 1,640" Bit Size: 8-3/4" 7-5/8", 29.7#, HCP-110, FXL, 0' - 11,350" TOC: 10,911' MD, 10,850' TVD Lateral: 19,987' MD, 12,368' TVD Bit Size: 6-3/4" **Upper Most Perf:** 5-1/2", 20.#, P110-EC, DWC/C IS MS 100' FNL & 2434' FWL Sec. 5 @ 0' - 10,850' **Lower Most Perf:** 5-1/2", 20.#, P110-EC, Vam Sprint SF 2540' FNL & 2434' FWL Sec. 8 @ 10,850' - 11,350' **BH Location:** 5-1/2", 20.#, P110-EC, DWC/C IS MS 2540' FNL & 2434' FWL, @ 11,350' - 19,987' Sec. 8, T-25-S R-34-E KOP: 11,950' MD, 11,890' TVD EOC: 12,700' MD, 12,368' TVD



Design B

4. CASING PROGRAM

Hole	Interv	al MD	Interva	d TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,640	0	1,640	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,411	0	11,350	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,987	0	12,368	6"	22.3#	P110-EC	DWC/C IS

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" casing annulus to the proposed top of cement.

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

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

Cementing Program:

Center	lung rro	<u>graini</u> .		
Depth	No. Sacks	Wt.	Yld Ft3/sk	Slurry Description
1,640' 10-3/4"	400	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,440')
11,350' 8-3/4"	500	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,610')
	1480	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,987' 6"	1290	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,850')



EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,809') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 480 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

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

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

Cement integrity tests will be performed immediately following plug bump.

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

Wellhead:

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

- Full BOPE test at first installation on the pad.
- Full BOPE test every 20 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside
 the casing will be monitored via the valve on the TA cap as per standard batch
 drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



180' FNL 1984' FEL **Proposed Wellbore**

KB: 3442' GL: 3417'

Section 5

T-25-S, R-34-E

API: 30-025-****

Bit Size: 13" 10-3/4", 40.5#, J-55, STC, 0' - 1,640' Bit Size: 9-7/8" 7-5/8", 29.7#, HCP-110, FXL @ 0' - 11,350' TOC: 10,911' MD, 10,850' TVD Bit Size: 7-7/8" Lateral: 19,987' MD, 12,368' TVD 6", 22.3#, P110-EC, DWC/C IS, **Upper Most Perf:** @ 0' - 19,987' 100' FNL & 2434' FWL Sec. 5 **Lower Most Perf:** 2540' FNL & 2434' FWL Sec. 8 BH Location: 2540' FNL & 2434' FWL, Sec. 8, T-25-S R-34-E KOP: 11,950' MD, 11,890' TVD EOC: 12,700' MD, 12,368' TVD



Midland

Lea County, NM (NAD 83 NME) Shiprock 5 Fed Com #707H

OH

Plan: Plan #0.1 RT

Standard Planning Report

14 September, 2022



Planning Report

PEDM Database: Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Shiprock 5 Fed Com

Well: #707H Wellbore: OH Plan #0.1 RT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb = 25' @ 3442.0usft kb = 25' @ 3442.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

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

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Shiprock 5 Fed Com Site

Northing: 425,204.00 usft Site Position: Latitude: 32° 9' 58.044 N From: Мар Easting: 803,674.00 usft Longitude: 103° 29' 7.927 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #707H

Well Position +N/-S 0.0 usft Northing: 425,254.00 usft Latitude: 32° 9' 58.641 N +E/-W 0.0 usft Easting: 802,353.00 usft Longitude: 103° 29' 23.290 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,417.0 usft

0.45° **Grid Convergence:**

ОН Wellbore

Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) 47,476.16393657 IGRF2020 5/17/2021 6.51 59.86

Design Plan #0.1 RT

Audit Notes:

Phase: PLAN Tie On Depth: 0.0 Version:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 186.10 0.0 0.0 0.0

Plan Survey Tool Program Date 9/14/2022

Depth From Depth To

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

19,986.8 Plan #0.1 RT (OH) EOG MWD+IFR1 0.0

MWD + IFR1



Planning Report

Database: Company: PEDM

Midland

Project: Lea County, NM (NAD 83 NME)

Shiprock 5 Fed Com Site: Well: #707H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb = 25' @ 3442.0usft

kb = 25' @ 3442.0usft 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	
1,599.7	7.99	278.18	1,598.4	4.0	-27.6	2.00	2.00	0.00	278.18	
7,468.9	7.99	278.18	7,410.6	120.0	-835.4	0.00	0.00	0.00	0.00	
7,868.6	0.00	0.00	7,809.0	124.0	-863.0	2.00	-2.00	0.00	180.00	
11,950.1	0.00	0.00	11,890.5	124.0	-863.0	0.00	0.00	0.00	0.00	KOP(Shiprock 5 Fed
12,170.6	26.46	180.00	12,103.2	74.0	-863.0	12.00	12.00	81.65	180.00	FTP(Shiprock 5 Fed (
12,700.1	90.00	179.64	12,367.9	-353.4	-861.2	12.00	12.00	-0.07	-0.40	
14,807.7	90.00	179.64	12,368.0	-2,461.0	-848.0	0.00	0.00	0.00	0.00	Fed Perf 1(Shiprock 5
19,986.8	90.00	179.65	12,368.0	-7,640.0	-816.0	0.00	0.00	0.00	67.25	PBHL(Shiprock 5 Fed

beog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Shiprock 5 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb = 25' @ 3442.0usft kb = 25' @ 3442.0usft

Grid

Design.	riaii #0.1 iXi								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0		0.0	0.00	0.00	0.00
					0.0				
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	278.18	1,300.0	0.2	-1.7	-0.1	2.00	2.00	0.00
1,400.0	4.00	278.18	1,399.8	1.0	-6.9	-0.3	2.00	2.00	0.00
1,500.0	6.00	278.18	1,499.5	2.2	-15.5	-0.6	2.00	2.00	0.00
1,599.7	7.99	278.18	1,598.4	4.0	-27.6	-1.0	2.00	2.00	0.00
1,700.0	7.99	278.18	1,697.7	5.9	-41.4	-1.5	0.00	0.00	0.00
1,800.0	7.99	278.18	1,796.8	7.9	-55.1	-2.0	0.00	0.00	0.00
1,900.0	7.99	278.18	1,895.8	9.9	-68.9	-2.5	0.00	0.00	0.00
2,000.0	7.99	278.18	1,994.8	11.9	-82.7	-3.0	0.00	0.00	0.00
2,100.0	7.99	278.18	2,093.8	13.9	-96.4	-3.5	0.00	0.00	0.00
2,200.0	7.99	278.18	2,192.9	15.8	-110.2	-4.0	0.00	0.00	0.00
2,300.0	7.99	278.18	2,291.9	17.8	-124.0	-4.5	0.00	0.00	0.00
2,400.0	7.99	278.18	2,390.9	19.8	-124.0	- 4 .5 -5.1	0.00	0.00	0.00
2,500.0	7.99	278.18	2,490.0	21.8	-151.5	-5.6	0.00	0.00	0.00
2,600.0	7.99	278.18	2,589.0	23.7	-165.2	-6.1	0.00	0.00	0.00
2,700.0	7.99	278.18	2,688.0	25.7	-179.0	-6.6	0.00	0.00	0.00
2,800.0	7.99	278.18	2,787.0	27.7	-192.8	-7.1	0.00	0.00	0.00
2,900.0	7.99	278.18	2,886.1	29.7	-206.5	-7.6	0.00	0.00	0.00
3,000.0	7.99	278.18	2,985.1	31.7	-220.3	-8.1	0.00	0.00	0.00
3,100.0	7.99	278.18	3,084.1	33.6	-234.1	-8.6	0.00	0.00	0.00
3,200.0	7.99	278.18	3,183.2	35.6	-247.8	-9.1	0.00	0.00	0.00
3,300.0	7.99	278.18	3,282.2	37.6	-261.6	-9.6	0.00	0.00	0.00
3,400.0	7.99	278.18	3,381.2	39.6	-275.4	-10.1	0.00	0.00	0.00
3,500.0	7.99	278.18	3,480.2	41.5	-289.1	-10.6	0.00	0.00	0.00
3,600.0	7.99	278.18	3,579.3	43.5	-302.9	-11.1	0.00	0.00	0.00
3,700.0	7.99	278.18	3,678.3	45.5	-316.7	-11.6	0.00	0.00	0.00
3,800.0	7.99	278.18	3,777.3	47.5	-330.4	-12.1	0.00	0.00	0.00
3,900.0	7.99	278.18	3,876.4	49.5	-344.2	-12.6	0.00	0.00	0.00
4,000.0	7.99	278.18	3,975.4	51.4	-358.0	-13.1	0.00	0.00	0.00
4,100.0	7.99	278.18	4,074.4	53.4	-371.7	-13.6	0.00	0.00	0.00
4,200.0	7.99	278.18	4,173.4	55.4	-385.5	-14.1	0.00	0.00	0.00
4,300.0	7.99	278.18	4,272.5	57.4	-399.2	-14.6	0.00	0.00	0.00
4,400.0	7.99	278.18	4,371.5	59.3	-413.0	-15.1	0.00	0.00	0.00
4,500.0	7.99		4,470.5		-426.8	-15.6	0.00	0.00	0.00
		278.18		61.3					
4,600.0	7.99	278.18	4,569.6	63.3	-440.5	-16.2	0.00	0.00	0.00
4,700.0	7.99	278.18	4,668.6	65.3	-454.3	-16.7	0.00	0.00	0.00
4,800.0	7.99	278.18	4,767.6	67.3	-468.1	-17.2	0.00	0.00	0.00
4,900.0	7.99	278.18	4,866.6	69.2	-481.8	-17.7	0.00	0.00	0.00
5,000.0	7.99	278.18	4,965.7	71.2	-495.6	-18.2	0.00	0.00	0.00
5,100.0	7.99	278.18	5,064.7	73.2	-509.4	-18.7	0.00	0.00	0.00
5,200.0	7.99	278.18	5,163.7	75.2	-523.1	-19.2	0.00	0.00	0.00
5,300.0	7.99	278.18	5,262.8	77.1	-536.9	-19.7	0.00	0.00	0.00



Planning Report

Database: Ecompany:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Shiprock 5 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb = 25' @ 3442.0usft

kb = 25' @ 3442.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	7.99	278.18	5,361.8	79.1	-550.7	-20.2	0.00	0.00	0.00
5,500.0	7.99	278.18	5,460.8	81.1	-564.4	-20.7	0.00	0.00	0.00
5,600.0	7.99	278.18	5,559.8	83.1	-578.2	-21.2	0.00	0.00	0.00
5,700.0	7.99	278.18	5,658.9	85.1	-592.0	-21.7	0.00	0.00	0.00
5,800.0	7.99	278.18	5,757.9	87.0	-605.7	-22.2	0.00	0.00	0.00
5,900.0	7.99	278.18	5,856.9	89.0	-619.5	-22.7	0.00	0.00	0.00
6,000.0	7.99	278.18	5,955.9	91.0	-633.3	-23.2	0.00	0.00	0.00
6,100.0	7.99	278.18	6,055.0	93.0	-647.0	-23.7	0.00	0.00	0.00
6,200.0	7.99	278.18	6,154.0	94.9	-660.8	-24.2	0.00	0.00	0.00
6,300.0	7.99	278.18	6,253.0	96.9	-674.5	-24.7	0.00	0.00	0.00
6,400.0	7.99	278.18	6,352.1	98.9	-688.3	-25.2	0.00	0.00	0.00
6,500.0	7.99	278.18	6,451.1	100.9	-702.1	-25.7	0.00	0.00	0.00
6,600.0	7.99	278.18	6,550.1	102.9	-715.8	-26.2	0.00	0.00	0.00
6,700.0	7.99	278.18	6,649.1	104.8	-729.6	-26.8	0.00	0.00	0.00
6,800.0	7.99	278.18	6,748.2	106.8	-743.4	-27.3	0.00	0.00	0.00
6,900.0	7.99	278.18	6,847.2	108.8	-757.1	-27.8	0.00	0.00	0.00
7,000.0	7.99	278.18	6,946.2	110.8	-770.9	-28.3	0.00	0.00	0.00
7,100.0	7.99	278.18	7,045.3	112.7	-784.7	-28.8	0.00	0.00	0.00
7,200.0	7.99	278.18	7,144.3	114.7	-798.4	-29.3	0.00	0.00	0.00
7,300.0	7.99	278.18	7,243.3	116.7	-812.2	-29.8	0.00	0.00	0.00
7,400.0	7.99	278.18	7,342.3	118.7	-826.0	-30.3	0.00	0.00	0.00
7,468.9	7.99	278.18	7,410.6	120.0	-835.4	-30.6	0.00	0.00	0.00
7,500.0	7.37	278.18	7,441.4	120.6	-839.6	-30.8	2.00	-2.00	0.00
7,600.0	5.37	278.18	7,540.8	122.2	-850.5	-31.2	2.00	-2.00	0.00
7,700.0 7,800.0	3.37 1.37	278.18 278.18	7,640.5 7,740.4	123.3 123.9	-858.1 -862.2	-31.5 -31.6	2.00 2.00	-2.00 -2.00	0.00 0.00
7,868.6	0.00	0.00	7,809.0	124.0	-863.0	-31.6	2.00	-2.00	0.00
7,900.0	0.00	0.00	7,840.4	124.0	-863.0	-31.6	0.00	0.00	0.00
8,000.0 8,100.0	0.00 0.00	0.00 0.00	7,940.4 8,040.4	124.0 124.0	-863.0 -863.0	-31.6 -31.6	0.00 0.00	0.00 0.00	0.00 0.00
8,200.0	0.00	0.00	8,140.4	124.0	-863.0	-31.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,240.4	124.0	-863.0	-31.6	0.00	0.00	0.00
8,400.0 8,500.0	0.00 0.00	0.00 0.00	8,340.4 8,440.4	124.0 124.0	-863.0 -863.0	-31.6 -31.6	0.00 0.00	0.00 0.00	0.00 0.00
8,600.0	0.00	0.00	8,540.4	124.0	-863.0	-31.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,640.4	124.0	-863.0	-31.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,740.4				0.00		0.00
8,800.0	0.00	0.00	8,740.4 8,840.4	124.0 124.0	-863.0 -863.0	-31.6 -31.6	0.00	0.00 0.00	0.00
9,000.0	0.00	0.00	8,940.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,040.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,140.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,240.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,340.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,440.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,540.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,640.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,740.4	124.0	-863.0	-31.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,840.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,940.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,040.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,140.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,240.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,340.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,440.4	124.0	-863.0	-31.6	0.00	0.00	0.00

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Shiprock 5 Fed Com

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10,600.0	0.00	0.00	10,540.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,640.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,740.4	124.0	-863.0	-31.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,840.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,940.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,100.0	0.00	0.00	11,040.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,140.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,240.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,340.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,440.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,540.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,640.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,740.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,840.4	124.0	-863.0	-31.6	0.00	0.00	0.00
11,950.1	0.00	0.00	11,890.5	124.0	-863.0	-31.6	0.00	0.00	0.00
11,975.0 12,000.0	2.99 5.99	180.00 180.00	11,915.4 11,940.3	123.4 121.4	-863.0 -863.0	-31.0 -29.1	12.00 12.00	12.00 12.00	0.00 0.00
12,025.0	8.99	180.00	11,965.1	118.1	-863.0	-25.8	12.00	12.00	0.00
12,050.0	11.99	180.00	11,989.7	113.6	-863.0	-21.3	12.00	12.00	0.00
12,075.0	14.99	180.00	12,014.0	107.8	-863.0	-15.5	12.00	12.00	0.00
12,100.0 12,125.0	17.99 20.99	180.00 180.00	12,037.9 12,061.5	100.7 92.3	-863.0 -863.0	-8.4 -0.2	12.00 12.00	12.00 12.00	0.00 0.00
12,150.0	23.99	180.00	12,084.6	82.8	-863.0	9.4	12.00	12.00	0.00
12,170.6	26.46	180.00	12,103.2	74.0	-863.0	18.1	12.00	12.00	0.00
12,175.0 12,200.0	26.99 29.99	179.99 179.95	12,107.2 12,129.1	72.0 60.1	-863.0 -863.0	20.1 31.9	12.00 12.00	12.00 12.00	-0.18 -0.16
12,225.0	32.99	179.92	12,150.4	47.0	-863.0	44.9	12.00	12.00	-0.14
12,250.0	35.99	179.89	12,171.0	32.9	-863.0	59.0	12.00	12.00	-0.12
12,275.0	38.99	179.86	12,190.9	17.7	-862.9	74.1	12.00	12.00	-0.10
12,300.0	41.99	179.84	12,209.9	1.4	-862.9	90.2	12.00	12.00	-0.09
12,325.0	44.99	179.82	12,228.0	-15.8	-862.8	107.3	12.00	12.00	-0.08
12,350.0	47.99	179.80	12,245.2	-33.9	-862.8	125.3	12.00	12.00	-0.07
12,375.0	50.99	179.79	12,261.5	-52.9	-862.7	144.2	12.00	12.00	-0.06
12,400.0	53.99	179.77	12,276.7	-72.7	-862.6	163.9	12.00	12.00	-0.06
12,425.0	56.99	179.76	12,290.9	-93.3	-862.5	184.4	12.00	12.00	-0.05
12,450.0	59.99	179.75	12,303.9	-114.6	-862.4	205.6	12.00	12.00	-0.05
12,475.0	62.99	179.73	12,315.9	-136.6	-862.3	227.4	12.00	12.00	-0.05
12,500.0	65.99	179.72	12,326.6	-159.2	-862.2	249.8	12.00	12.00	-0.05
12,525.0	68.99	179.71	12,336.2	-182.3	-862.1	272.8	12.00	12.00	-0.04
12,550.0	71.99	179.70	12,344.5	-205.8	-862.0	296.2	12.00	12.00	-0.04
12,575.0	74.99	179.69	12,351.6	-229.8	-861.9	320.0	12.00	12.00	-0.04
12,600.0	77.99	179.68	12,357.5	-254.1	-861.7	344.2	12.00	12.00	-0.04
12,625.0	80.99	179.67	12,362.1	-278.7	-861.6	368.6	12.00	12.00	-0.04
12,650.0	83.99	179.66	12,365.3	-303.5	-861.5	393.2	12.00	12.00	-0.04
12,675.0	86.99	179.65	12,367.3	-328.4	-861.3	418.0	12.00	12.00	-0.04
12,700.1	90.00	179.64	12,367.9	-353.4	-861.2	442.9	12.00	12.00	-0.04
12,800.0	90.00	179.64	12,367.9	-453.4	-860.5	542.2	0.00	0.00	0.00
12,900.0	90.00	179.64	12,367.9	-553.4	-859.9	641.5	0.00	0.00	0.00
13,000.0	90.00	179.64	12,368.0	-653.4	-859.3	740.9	0.00	0.00	0.00
13,100.0	90.00	179.64	12,368.0	-753.4	-858.7	840.3	0.00	0.00	0.00
13,200.0	90.00	179.64	12,368.0	-853.3	-858.0	939.6	0.00	0.00	0.00
13,300.0	90.00	179.64	12,368.0	-953.3	-857.4	1,039.0	0.00	0.00	0.00
13,400.0	90.00	179.64	12,368.0	-1,053.3	-856.8	1,138.4	0.00	0.00	0.00
13,500.0	90.00	179.64	12,368.0	-1,153.3	-856.2	1,237.7	0.00	0.00	0.00

eog resources

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13,600.0	90.00	179.64	12,368.0	-1,253.3	-855.5	1,337.1	0.00	0.00	0.00
13,700.0	90.00	179.64	12,368.0	-1,353.3	-854.9	1,436.5	0.00	0.00	0.00
13,800.0	90.00	179.64	12,368.0	-1,453.3	-854.3	1,535.8	0.00	0.00	0.00
13,900.0	90.00	179.64	12,368.0	-1,553.3	-853.7	1,635.2	0.00	0.00	0.00
14,000.0	90.00	179.64	12,368.0	-1,653.3	-853.0	1,734.6	0.00	0.00	0.00
14,100.0	90.00	179.64	12,368.0	-1,753.3	-852.4	1,833.9	0.00	0.00	0.00
14,200.0	90.00	179.64	12,368.0	-1,853.3	-851.8	1,933.3	0.00	0.00	0.00
14,300.0	90.00	179.64	12,368.0	-1,953.3	-851.2	2,032.7	0.00	0.00	0.00
14,400.0	90.00	179.64	12,368.0	-2,053.3	-850.5	2,132.0	0.00	0.00	0.00
14,500.0	90.00	179.64	12,368.0	-2,153.3	-849.9	2,231.4	0.00	0.00	0.00
14,600.0	90.00	179.64	12,368.0	-2,253.3	-849.3	2,330.8	0.00	0.00	0.00
14,700.0	90.00	179.64	12,368.0	-2,353.3	-848.7	2,430.1	0.00	0.00	0.00
14,807.7	90.00	179.64	12,368.0	-2,461.0	-848.0	2,537.1	0.00	0.00	0.00
	90.00	179.64						0.00	
14,900.0 15,000.0	90.00	179.64 179.64	12,368.0 12,368.0	-2,553.3 -2,653.3	-847.4 -846.8	2,628.9 2,728.2	0.00 0.00	0.00	0.00 0.00
15,000.0	90.00	179.64	12,368.0	-2,053.3 -2,753.3	-846.8 -846.2	2,728.2 2,827.6	0.00	0.00	0.00
15,100.0	90.00	179.64	12,368.0	-2,753.3 -2,853.3	-846.2 -845.6	2,827.6	0.00	0.00	0.00
15,300.0	90.00	179.64	12,368.0	-2,953.3	-844.9	3,026.3	0.00	0.00	0.00
15,400.0	90.00	179.64	12,368.0	-3,053.3	-844.3	3,125.7	0.00	0.00	0.00
15,500.0	90.00	179.64	12,368.0	-3,153.3	-843.7	3,225.1	0.00	0.00	0.00
15,600.0	90.00	179.64	12,368.0	-3,253.3	-843.1	3,324.4	0.00	0.00	0.00
15,700.0	90.00	179.64	12,368.0	-3,353.3	-842.4	3,423.8	0.00	0.00	0.00
15,800.0	90.00	179.64	12,368.0	-3,453.3	-841.8	3,523.2	0.00	0.00	0.00
15,900.0	90.00	179.64	12,368.0	-3,553.3	-841.2	3,622.5	0.00	0.00	0.00
16,000.0	90.00	179.64	12,368.0	-3,653.3	-840.6	3,721.9	0.00	0.00	0.00
16,100.0	90.00	179.64	12,368.0	-3,753.3	-840.0	3,821.3	0.00	0.00	0.00
16,200.0	90.00	179.64	12,368.0	-3,853.3	-839.3	3,920.6	0.00	0.00	0.00
16,300.0	90.00	179.64	12,368.0	-3,953.3	-838.7	4,020.0	0.00	0.00	0.00
16,400.0	90.00	179.64	12,368.0	-4,053.3	-838.1	4,119.4	0.00	0.00	0.00
16,500.0	90.00	179.64	12,368.0	-4,153.3	-837.5	4,218.7	0.00	0.00	0.00
16,600.0	90.00	179.64	12,368.0	-4,253.3	-836.9	4,318.1	0.00	0.00	0.00
16,700.0	90.00	179.65	12,368.0	-4,353.3	-836.2	4,417.5	0.00	0.00	0.00
16,800.0	90.00	179.65	12,368.0	-4,453.3	-835.6	4,516.8	0.00	0.00	0.00
16,900.0	90.00	179.65	12,368.0	-4,553.3	-835.0	4,616.2	0.00	0.00	0.00
17,000.0	90.00	179.65	12,368.0	-4,653.3	-834.4	4,715.6	0.00	0.00	0.00
17,100.0	90.00	179.65	12,368.0	-4,753.3	-833.8	4,814.9	0.00	0.00	0.00
17,200.0	90.00	179.65	12,368.0	-4,853.3	-833.1	4,914.3	0.00	0.00	0.00
17,300.0	90.00	179.65	12,368.0	-4,953.3	-832.5	5,013.7	0.00	0.00	0.00
							0.00		
17,400.0 17,500.0	90.00 90.00	179.65 179.65	12,368.0 12,368.0	-5,053.3 -5,153.3	-831.9 -831.3	5,113.0 5,212.4	0.00 0.00	0.00 0.00	0.00 0.00
17,600.0	90.00	179.65	12,368.0	-5,153.3 -5,253.3	-031.3 -830.7	5,311.8	0.00	0.00	0.00
17,700.0	90.00	179.65	12,368.0	-5,253.3 -5,353.3	-830.7	5,411.1	0.00	0.00	0.00
17,800.0	90.00	179.65	12,368.0	-5,453.3	-829.4	5,510.5	0.00	0.00	0.00
17,900.0	90.00	179.65	12,368.0	-5,553.3	-828.8	5,609.9	0.00	0.00	0.00
18,000.0	90.00	179.65	12,368.0	-5,653.3	-828.2	5,709.2	0.00	0.00	0.00
18,100.0 18,200.0	90.00	179.65 179.65	12,368.0 12,368.0	-5,753.3	-827.6	5,808.6 5,908.0	0.00	0.00	0.00
18,200.0	90.00 90.00	179.65 179.65	12,368.0	-5,853.3 -5,953.3	-827.0 -826.4	5,908.0 6,007.3	0.00 0.00	0.00 0.00	0.00 0.00
18,400.0	90.00	179.65	12,368.0	-6,053.2	-825.7	6,106.7	0.00	0.00	0.00
18,500.0	90.00	179.65	12,368.0	-6,153.2	-825.1	6,206.1	0.00	0.00	0.00
18,600.0	90.00	179.65	12,368.0	-6,253.2	-824.5	6,305.4	0.00	0.00	0.00
18,700.0	90.00	179.65	12,368.0	-6,353.2	-823.9	6,404.8	0.00	0.00	0.00
18,800.0	90.00	179.65	12,368.0	-6,453.2	-823.3	6,504.2	0.00	0.00	0.00
18,900.0	90.00	179.65	12,368.0	-6,553.2	-822.7	6,603.5	0.00	0.00	0.00



Planning Report

Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Shiprock 5 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

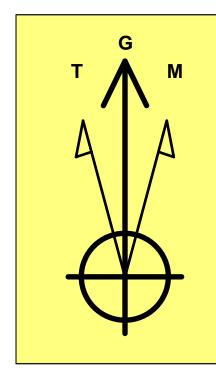
kb = 25' @ 3442.0usft kb = 25' @ 3442.0usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,000.0	90.00	179.65	12,368.0	-6,653.2	-822.0	6,702.9	0.00	0.00	0.00
19,100.0	90.00	179.65	12,368.0	-6,753.2	-821.4	6,802.3	0.00	0.00	0.00
19,200.0	90.00	179.65	12,368.0	-6,853.2	-820.8	6,901.6	0.00	0.00	0.00
19,300.0	90.00	179.65	12,368.0	-6,953.2	-820.2	7,001.0	0.00	0.00	0.00
19,400.0	90.00	179.65	12,368.0	-7,053.2	-819.6	7,100.4	0.00	0.00	0.00
19,500.0	90.00	179.65	12,368.0	-7,153.2	-819.0	7,199.8	0.00	0.00	0.00
19,600.0	90.00	179.65	12,368.0	-7,253.2	-818.4	7,299.1	0.00	0.00	0.00
19,700.0	90.00	179.65	12,368.0	-7,353.2	-817.8	7,398.5	0.00	0.00	0.00
19,800.0	90.00	179.65	12,368.0	-7,453.2	-817.1	7,497.9	0.00	0.00	0.00
19,900.0	90.00	179.65	12,368.0	-7,553.2	-816.5	7,597.2	0.00	0.00	0.00
19,986.8	90.00	179.65	12,368.0	-7,640.0	-816.0	7,683.5	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(Shiprock 5 Fed Co - plan hits target cente - Point	0.00 er	0.00	11,890.5	124.0	-863.0	425,378.00	801,490.00	32° 9′ 59.935 N	103° 29' 33.318 W
FTP(Shiprock 5 Fed Cor - plan hits target center - Point	0.00 er	0.00	12,103.2	74.0	-863.0	425,328.00	801,490.00	32° 9′ 59.440 N	103° 29' 33.323 W
Fed Perf 1(Shiprock 5 For plan hits target center Point	0.00 er	0.00	12,368.0	-2,461.0	-848.0	422,793.00	801,505.00	32° 9′ 34.355 N	103° 29' 33.378 W
PBHL(Shiprock 5 Fed Control of the PBHL) - plan hits target centers - Point	0.00 er	0.00	12,368.0	-7,640.0	-816.0	417,614.00	801,537.00	32° 8' 43.106 N	103° 29' 33.477 W





Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.06°

Magnetic Field Strength: 47476.2nT Dip Angle: 59.86° Date: 5/17/2021 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.06°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

Lea County, NM (NAD 83 NME)

Shiprock 5 Fed Com #707H

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: #707H

3417.0

kb = 25' @ 3442.0usft

 Northing
 Easting
 Latittude
 Longitude

 425254.00
 802353.00
 32° 9' 58.641 N
 103° 29' 23.290 W

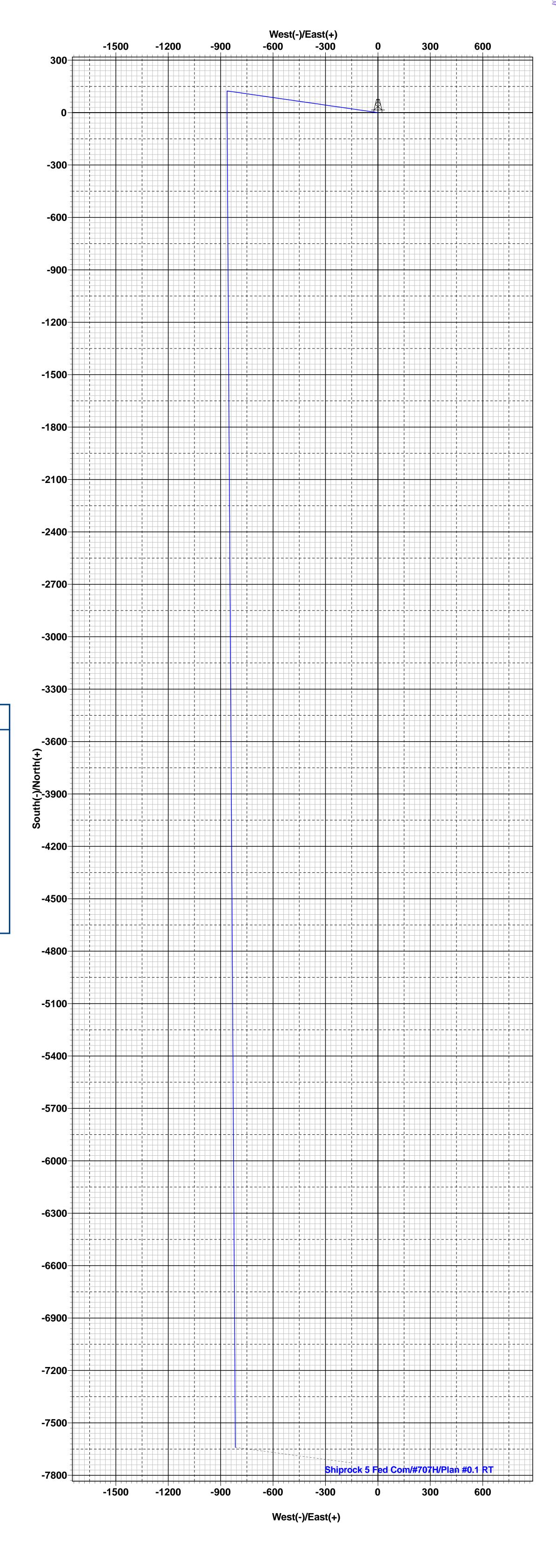
						S	ECTION	DETAILS		
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1599.7	7.99	278.18	1598.4	4.0	-27.6	2.00	278.18	-1.0	
4	7468.9	7.99	278.18	7410.6	120.0	-835.4	0.00	0.00	-30.6	
5	7868.6	0.00	0.00	7809.0	124.0	-863.0	2.00	180.00	-31.6	
6	11950.1	0.00	0.00	11890.5	124.0	-863.0	0.00	0.00	-31.6	KOP(Shiprock 5 Fed Com #707H)
7	12170.6	26.46	180.00	12103.2	74.0	-863.0	12.00	180.00	18.1	FTP(Shiprock 5 Fed Com #707H)
8	12700.1	90.00	179.64	12367.9	-353.4	-861.2	12.00	-0.40	442.9	
9	14807.7	90.00	179.64	12368.0	-2461.0	-848.0	0.00	0.00	2537.1	Fed Perf 1(Shiprock 5 Fed Com #707H)
10	19986.8	90.00	179.65	12368.0	-7640.0	-816.0	0.00	67.25	7683.5	PBHL(Shiprock 5 Fed Com #707H)

CASING DETAILS

No casing data is available

10000

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) Northing **Easting KOP(Shiprock 5 Fed Com #707H)** 11890.5 124.0 425378.00 801490.00 425328.00 FTP(Shiprock 5 Fed Com #707H) 12103.2 74.0 -863.0 801490.00 Fed Perf 1(Shiprock 5 Fed Com #707H)
PBHL(Shiprock 5 Fed Com #707H) -2461.0 -848.0 422793.00 801505.00 12368.0 12368.0 -7640.0 -816.0 801537.00 417614.00



Shiprock 5 Fed Com#707H/Plan # 1050 1400 1750 2100 2450 2800 3150 3500 3850 4200 4550 4900 5250 5600 5950 6300 6650 7000 7350 7700

Vertical Section at 186.10°

Lea County, NM (NAD 83 NME)
Shiprock 5 Fed Com
#707H
OH
Plan #0.1 RT
10:22, September 14 2022

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG Resources Inc
WELL NAME & NO.: SHIPROCK 5 FED COM 707H
LOCATION: Section 5, T.25S., R.34E.
COUNTY: Lea County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	O Secretary	O 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		☑ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	☑ COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	☑ Break Testing	☑ Offline	
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 **9-5/8** inch surface casing shall be set at approximately **1,640** 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 **7-5/8** inch intermediate casing shall be set at approximately **11,350 feet TVD**. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

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

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be

<u>notified prior to job with volumes and planned wellbore schematic. CBL will be</u> needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The **5-1/2** inch production casing shall be set at approximately **19,987** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

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

Alternate Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **1,640** 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.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **8-3/4** inch intermediate casing shall be set at approximately **11,350** feet TVD. The minimum required fill of cement behind the **8-3/4** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Operator has proposed to pump down 10-3/4 X 8-3/4" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 8-3/4" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The 6 inch production casing shall be set at approximately 19,987 feet. The minimum required fill of cement behind the 6 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.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 2.
- 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.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing approved for surface and intermediate intervals. Contact the BLM PETs prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **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 8/19/2024



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:
 - a. Breathing Apparatus:
 - i. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
 - ii. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - iii. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.
 - b. Auxiliary Rescue Equipment:
 - i. Stretcher
 - ii. Two OSHA full body harness
 - iii. 100 ft 5/8 inch OSHA approved rope
 - iv. 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 System:

- 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

Company Drilling Consultants: Jett Dueitt (432) 230-4840 Blake Burney Drilling Engineers	PUBLIC SAFETY:	911 or
Fire Department Carlsbad (575) 885-3125 Artesia (575) 746-5050 Hospitals (575) 887-4121 Carlsbad (575) 748-3121 Artesia (575) 788-3121 Hobbs (575) 392-1979 Dept. of Public Safety/Carlsbad (575) 885-3281 Highway Department (575) 885-3281 Us. Department of Labor (575) 885-3281 Bureau of Land Management - Hobbs (Lea Co) (575) 393-3612 PET On Call - Hobbs (575) 706-2779 Bureau of Land Management - Carlsbad (Eddy Co) (575) 234-5972 PET On Call - Carlsbad (575) 706-2779 New Mexico Oil Conservation Division - Artesia (575) 762-0830 Inspection Group South - Gilbert Gordero (575) 626-0830 EOG Midland (432) 230-4840 Blake Burney (575) 748-1283 Jett Dueitt (432) 230-4840 Blake Burney (432) 235-9789 Matt Day (210) 294-3729 Prilling Managers (210) 294-3729 Branden Keener (210) 294-3729 Drilling Superintendents<	Lea County Sheriff's Department	(575) 396-3611
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EOG Safety	Patterson UTI	(432) 561-9382
Brian Chandler (HSE Manager) (817) 239-0251	EOG Safety	
	Brian Chandler (HSE Manager)	(817) 239-0251

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 463716

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	463716
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sharrell1	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/15/2025
sharrell1	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/15/2025
matthew.gomez	Administrative order required for non-standard location prior to production.	5/30/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	5/30/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	5/30/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	5/30/2025
matthew.gomez	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.	5/30/2025
matthew.gomez	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.	5/30/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	5/30/2025
matthew.gomez	If a [C-103] NOI Change of Plans (C-103A) is not submitted with a notice of intent to change to target formation to Bone Spring a second pool must be added and a DHC must be approved prior to producing the well.	5/30/2025