Form 3160-3 (June 2015) UNITED STATE DEPARTMENT OF THE I		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.					
BUREAU OF LAND MAN				NMNM15317			
APPLICATION FOR PERMIT TO D		REENTER		6. If Indian, Allotee or Tribe Name			
	EENTER			7. If Unit or CA Agreement, Name and No.			
	)ther	Multiple Zene		8. Lease Name and We	ll No.		
1c. Type of Completion:   Hydraulic Fracturing     Image: State of Completion   Image: State of Completion	ingle Zone	Multiple Zone		RUTHLESS 11 FED	сом <b>:9701]</b>		
2. Name of Operator				753H           9. API Well No.			
EOG RESOURCES INCORPORATED [7377]				_	0-025-51182		
3a. Address 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002	3b. Phone N (713) 651-7	o. (include area coa 000	le)	10. Field and Pool, or I WC-025 G-09 S2533	Exploratory <b>[98180</b> 09P/UPPER WOLFC		
4. Location of Well ( <i>Report location clearly and in accordance</i>		1 /		11. Sec., T. R. M. or BI SEC 11/T25S/R32E/	•		
At surface TR C / 667 FNL / 2470 FWL / LAT 32.1504 At proposed prod. zone TR O / 100 FSL / 2275 FEL / LA			4404				
14. Distance in miles and direction from nearest town or post off		57 EONG -103.04		12. County or Parish	13. State		
			1	LEA	NM		
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of ac	res in lease	17. Spaci 640.0	icing Unit dedicated to this well			
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19. Proposed	d Depth	20. BLM	M/BIA Bond No. in file			
to nearest well, drilling, completed, applied for, on this lease, ft.	-	/ 23190 feet	FED:				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3504 feet	22. Approxit	mate date work will	start*	23. Estimated duration 25 days			
	24. Attac			20 00/3			
The following, completed in accordance with the requirements o			1 and the H	Avdraulic Fracturing rule	ner 43 CFR 3162 3-3		
(as applicable)					-		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>		4. Bond to cover the Item 20 above).	ne operation	is unless covered by an ex	cisting bond on file (see		
<ol> <li>A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office</li> </ol>		5. Operator certifie		rmation and/or plans as ma	ay be requested by the		
25. Signature (Electronic Submission)		/ (Printed/Typed) HARRELL / Ph: (	713) 651-		ate 5/09/2022		
Title			. ,				
Regulatory Specialist		/D 1/77					
Approved by (Signature) (Electronic Submission)		(Printed/Typed) ' LAYTON / Ph: (5	75) 234-5		ate 3/06/2023		
Title	Office		,	I			
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.		oad Field Office	hose rights	in the subject lease whic	h would entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements					department or agency		
NGMP Rec 03/07/2023							
		TH CONDIT	IONS	03/08/20	<b>7</b>		
SL	wen WI	LH COMPT		00/00/20			
(Continued on page 2)	AFD III			*(Instr	uctions on page 2)		
(continued on page 2)	Date	. 02/06/2022		(insu	actions on page 2)		





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District I

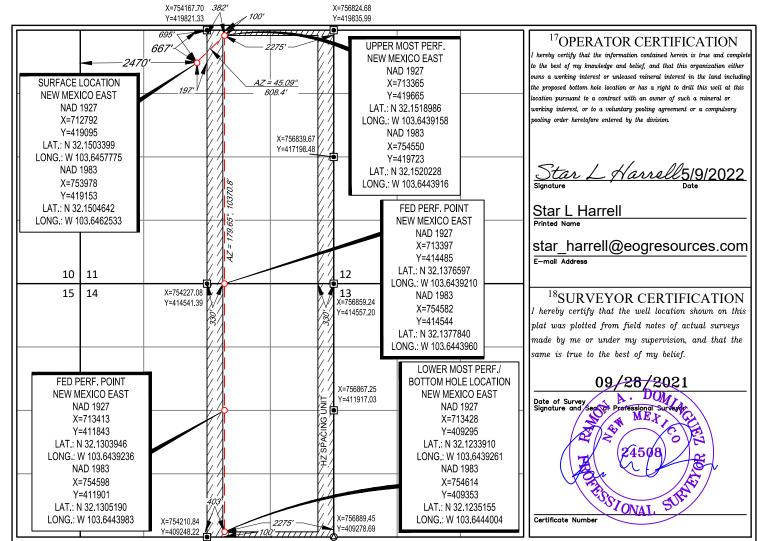
District II

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

DEDICATION DI

		W	ELL LOC	CATIO	N AND ACR	EAGE DEDIC.	ATION PLA	Т		
	<sup>1</sup> API Number			Pool Code		<sup>3</sup> Pool Name				
3	0-025-	- 51182		98180		WC-025 C	G-09 S2533	09P; Upper V	Volfcamp	
<sup>4</sup> Property C	Code		<sup>5</sup> Property Name <sup>6</sup> Well N						Well Number	
3297	01		RUTHLESS 11 FED COM 753H						753H	
<sup>7</sup> OGRID N	No.				<sup>8</sup> Operator N	ame			<sup>9</sup> Elevation	
7377	7			EC	OG RESOUR	CES, INC.			3504'	
					<sup>10</sup> Surface Lo	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
C	11	25-S	32-E	-	667'	NORTH	2470'	WEST	LEA	
			<sup>11</sup> Bo	ttom Ho	le Location If D	ifferent From Sur	face			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
0	14	25-S	32-E	-	100'	SOUTH	2275'	EAST	LEA	
<sup>12</sup> Dedicated Acres 640.00	<sup>13</sup> Joint or 1	Infill <sup>14</sup> Cor	solidation Code	<sup>15</sup> Ord	er No.					

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.



S\SURVEY\EOG\_MIDLAND\RUTHLESS\_11\_FED\_COM\FINAL\_PRODUCTS\LO\_RUTHLESS\_11\_FED\_COM\_753H\_REV1.DWG 2/24/2022 10:34:38 AM dcrock Refeased to Imaging: 3/8/2023 2:10:14 PM

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	E	nergy, Minerals a			ent		E-permitting	
		1220 \$	onservation Di South St. Fran nta Fe, NM 87	cis Dr.				
	Ν	ATURAL G	AS MANA	GEMENT P	LAN			
his Natural Gas Manage	ement Plan m	ust be submitted w	vith each Applica	tion for Permit to I	Drill (APD)	) for a new or	r recompleted we	
			<u>1 – Plan D</u>					
		<u>E</u>	ffective May 25.	<u>, 2021</u>				
. Operator:EOG R	Resources, Inc	OGRI	<b>D:</b> 7377		Date:	3/07/2023		
I. Type: 🛛 Original	□ Amendm	ent due to □ 19 14	5 27 9 D(6)(a) NI	MAC [] 19 15 27	9 D(6)(b) N		her	
			).27.9.D(0)(a) INI	viac □ 19.13.27.	<b>9.D</b> (0)(0) I			
f Other, please describe:					<u>.</u>			
<b>II. Well(s):</b> Provide the recompleted from a sin	ngle well pad	or connected to a	central delivery p	ooint.				
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipa Gas MC		Anticipated Produced Water BBL/D +/- 3000	
		C-11-25S-32E	667' FNL & 2470' FWL	+/- 1000	+/- 3500	+/- 3		
CUTHLESS 11 Fed Com 753H								
RUTHLESS 11 Fed Com 753H	oint Name:	RUTHLESS 11			[See 19.15.	27.9(D)(1) N	[MAC]	
	le: Provide th	e following inform	CTB	ew or recompleted	well or set		-	
V. Central Delivery Po V. Anticipated Schedu	le: Provide th	e following inform	CTB	ew or recompleted	well or set		posed to be drille	
V. Central Delivery Po V. Anticipated Schedul or proposed to be recomp	le: Provide th pleted from a	e following inform single well pad or	CTB nation for each ne connected to a co TD Reached	ew or recompleted entral delivery poi Completior	well or set nt. Date	of wells pro	posed to be drille First Productio	

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

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

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

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

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

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

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

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

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

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

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

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

### Section 4 - Notices

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

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

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

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

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

### Signature:

Printed Name: CRAIG RICHARDSON

Title: Regulatory Specialist

E-mail Address: craig\_richardson@eogresources.com

Date: 3/7/2023

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.

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

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

# **S**eog resources

### **1. GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	816'
Tamarisk Anhydrite	919'
Top of Salt	1,041'
Base of Salt	4,541'
Lamar	4,742'
Bell Canyon	4,769'
Cherry Canyon	5,666'
Brushy Canyon	7,254'
Bone Spring Lime	8,904'
Leonard Shale	8,956'
1 <sup>st</sup> Bone Spring Sand	9,921'
2 <sup>nd</sup> Bone Spring Shale	10,118'
2 <sup>nd</sup> Bone Spring Sand	10,481'
3 <sup>rd</sup> Bone Spring Carb	10,996'
3 <sup>rd</sup> Bone Spring Sand	11,722'
Wolfcamp	12,154'
TD	12,916'

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

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,769'	Oil
Cherry Canyon	5,666'	Oil
Brushy Canyon	7,254'	Oil
Leonard (Avalon) Shale	8,956'	Oil
1 <sup>st</sup> Bone Spring Sand	9,921'	Oil
2 <sup>nd</sup> Bone Spring Shale	10,118'	Oil
2 <sup>nd</sup> Bone Spring Sand	10,481'	Oil
3 <sup>rd</sup> Bone Spring Carb	10,996'	Oil
3 <sup>rd</sup> Bone Spring Sand	11,722'	Oil
Wolfcamp	12,154'	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 940' and circulating cement back to surface.



Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	940	0	940	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,100	0	11,040	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,600	0	10,540	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,600	11,100	10,540	11,040	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,100	23,190	11,040	12,916	5-1/2"	20#	P110-EC	DWC/C IS MS

### 4. CASING PROGRAM - Design A

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.

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft3/sk	Slurry Description
940' 9-5/8"	270	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 @ 740')
11,100' 7-5/8"	480	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1210	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
23,190' 5-1/2"	1070	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')

### **Cementing Program:**

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 (7,254') 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 210 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.

		0 ,		
Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 940'	Fresh - Gel	8.6-8.8	28-34	N/c
940' - 11,100'	Brine	10.0-10.2	28-34	N/c
11,100' – 12,498'	Oil Base	8.7-9.4	58-68	N/c - 6
12,498' – 23,190'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				

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

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 199 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9,403 psig and a maximum anticipated surface pressure of 6,561 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 7,254' 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.

# **S**eog resources

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 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 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and 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"

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### Ruthless 11 Fed Com 753H

667' FNL 2470' FWL	Proposed Wellbore	KB: 3529' GL: 3504'
Section 11 T-25-S, R-32-E	API: 30-025-*****	
Bit Size: 12-1/4" 9-5/8", 36#, J-55, LTC, 0' - 940'		
Bit Size: 8-3/4" 7-5/8", 29.7#, HCP-110, FXL, 0' - 11	,100'	
Bit Size: 6-3/4" 5-1/2", 20.#, P110-EC, DWC/C IS MS @ 0' - 10,600' 5-1/2", 20.#, P110-EC, Vam Sprint SI @ 10,600' - 11,100' 5-1/2", 20.#, P110-EC, DWC/C IS MS @ 11,100' - 23,190'		TOC: 10,600' Lateral: 23,190' MD, 12,916' TVD Upper Most Perf: 100' FNL & 2275' FWL Sec. 11 Lower Most Perf: 100' FSL & 2275' FWL Sec. 14 BH Location: 100' FSL & 2275' FWL, Sec. 14, T-25-S R-32-E
KOP: 12,498' MD, 12,438' T EOC: 13,248' MD, 12,916' T		



### Design B 4. CASING PROGRAM

Hole	Interv	al MD	Interval TVD		I MD Interval T		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn		
13"	0	940	0	940	10-3/4"	40.5#	J-55	STC		
9-7/8"	0	11,100	0	11,044	8-3/4"	38.5#	P110-EC	Vam Sprint-SF		
7-7/8"	0	23,190	0	12,916	6"	24#	P110-HP	Eagle SFH SC		

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.

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
940' 10-3/4"	250	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 @ 740')
11,100' 8-3/4"	540	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1370	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
23,190' <sub>6"</sub>	1750	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')

### **<u>Cementing Program</u>**:



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 (7,254') 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 370 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.

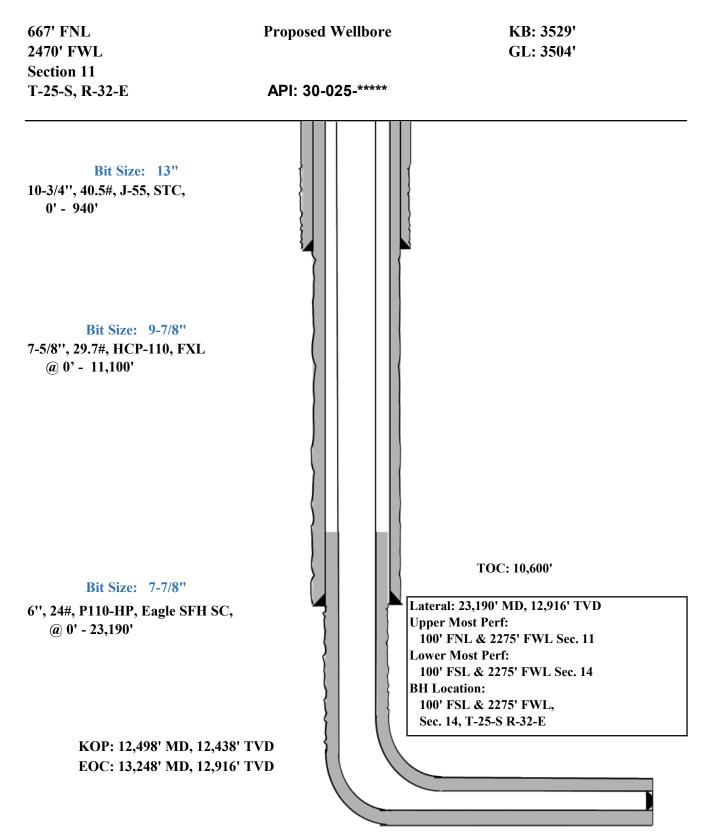
Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

### 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:

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- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and 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"

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## Midland

Lea County, NM (NAD 83 NME) Ruthless 11 Fed Com #753H

OH

Plan: Plan #0.1 RT

# **Standard Planning Report**

03 May, 2022



Ceogre							
Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Lea County, NI Ruthless 11 Fe #753H OH Plan #0.1 RT		ME)	TVD Referen MD Referenc North Refere	e:	Well #753H kb = 26' @ 3530 kb = 26' @ 3530 Grid Minimum Curva	).0usft
Project	Lea County, NM	1 (NAD 83 NM	1E)				
Geo Datum:	US State Plane 1 North American D New Mexico East	Datum 1983		System Datum	:	Mean Sea Level	
Site	Ruthless 11 Fee	d Com					
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	752,042	2.00 usft Latitude 2.00 usft Longitu 5/16 "		32° 9' 1.687 N 103° 39' 9.029 W
Well	#753H						
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		419,153.00 usft 753,978.00 usft	Latitude: Longitude:	32° 9' 1.674 N 103° 38' 46.509 W
Position Uncertainty Grid Convergence:		0.0 usft 0.37 °	Wellhead Elev	/ation:	usft	Ground Level:	3,504.0 usft
Wellbore	ОН						
Magnetics	Model Nam	le	Sample Date	Declinatio (°)	n	Dip Angle (°)	Field Strength (nT)
	IGRF	2020	3/2/2022		6.49	59.80	47,368.14687508
Design	Plan #0.1 RT						
Audit Notes:							
Version:			Phase:	PLAN	Tie On Dep	th:	0.0
Vertical Section:		(u	rom (TVD) Isft)	+N/-S (usft)	+E/-W (usft)		ection (°)
		(	0.0	0.0	0.0	17	76.29
Plan Survey Tool Pro	gram	Date 5/3/20	)22				
Depth From (usft)	Depth To (usft) S	urvey (Wellb	ore)	Tool Name	Rema	rks	
1 0.0	23,190.4 P	'lan #0.1 RT (	OH)	EOG MWD+IFR1 MWD + IFR1			



Database:	PEDM	Local Co-ordinate Reference:	Well #753H
Company:	Midland	TVD Reference:	kb = 26' @ 3530.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	
1,000.0	0.00	0.00	0.0 1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,410.8	8.22	42.69	1,409.4	21.6	19.9	2.00	2.00	0.00	42.69	
6,902.4	8.22	42.69	6,844.6	598.4	552.1	0.00	0.00	0.00	0.00	
7,313.2	0.00	0.00	7,254.0	620.0	572.0	2.00	-2.00	0.00	180.00	
12,497.7	0.00	0.00	12,438.5	620.0	572.0	0.00	0.00	0.00	0.00	KOP(Ruthless 11 Fee
12,718.1	26.46	180.00	12,651.2	570.0	572.0	12.00	12.00	81.65	180.00	FTP(Ruthless 11 Fed
13,247.6	90.00	179.64	12,915.9	142.5	573.9	12.00	12.00	-0.07	-0.41	
17,999.3	90.00	179.64	12,916.0	-4,609.0	604.0	0.00	0.00	0.00	0.00	Fed Perf 1(Ruthless
20,642.3	90.00	179.67	12,916.0	-7,252.0	620.0	0.00	0.00	0.00	87.67	Fed Perf 2(Ruthless
23,190.4	90.00	179.61	12,916.0	-9,800.0	636.0	0.00	0.00	0.00	-91.30	PBHL(Ruthless 11 Fe



Database:	PEDM	1	Local Co-ordinate Reference:	Well #753H
Company	: Midlar	nd	TVD Reference:	kb = 26' @ 3530.0usft
Project:	Lea C	county, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
Site:	Ruthle	ess 11 Fed Com	North Reference:	Grid
Well:	#753H	1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH			
Design:	Plan #	#0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	2.00	42.69	1,100.0	1.3	1.2	-1.2	2.00	2.00	0.00
1,200.0	4.00	42.69	1,199.8	5.1	4.7	-4.8	2.00	2.00	0.00
1,300.0	6.00	42.69	1,299.5	11.5	10.6	-10.8	2.00	2.00	0.00
1,400.0	8.00	42.69	1,398.7	20.5	18.9	-19.2	2.00	2.00	0.00
1,410.8	8.22	42.69	1,409.4	21.6	19.9	-20.3	2.00	2.00	0.00
1,500.0	8.22	42.69	1,497.7	31.0	28.6	-29.1	0.00	0.00	0.00
1,600.0	8.22	42.69	1,596.7	41.5	38.3	-38.9	0.00	0.00	0.00
1,700.0	8.22	42.69	1,695.6	52.0	48.0	-48.8	0.00	0.00	0.00
1,800.0	8.22	42.69	1,794.6	62.5	57.7	-58.6	0.00	0.00	0.00
			1,893.6						
1,900.0	8.22	42.69		73.0	67.3	-68.5	0.00	0.00	0.00
2,000.0	8.22	42.69	1,992.5	83.5	77.0	-78.3	0.00	0.00	0.00
2,100.0	8.22	42.69	2,091.5	94.0	86.7	-88.2	0.00	0.00	0.00
2,200.0	8.22	42.69	2,190.5	104.5	96.4	-98.0	0.00 0.00	0.00	0.00
2,300.0	8.22	42.69	2,289.5	115.0	106.1	-107.9		0.00	0.00
2,400.0	8.22	42.69	2,388.4	125.5	115.8	-117.7	0.00	0.00	0.00
2,500.0	8.22	42.69	2,487.4	136.0	125.5	-127.6	0.00	0.00	0.00
2,600.0	8.22	42.69	2,586.4	146.5	135.2	-137.5	0.00	0.00	0.00
2,700.0	8.22	42.69	2,685.4	157.0	144.9	-147.3	0.00	0.00	0.00
2,800.0	8.22	42.69	2,784.3	167.5	154.5	-157.2	0.00	0.00	0.00
2,900.0	8.22	42.69	2,883.3	178.0	164.2	-167.0	0.00	0.00	0.00
3,000.0	8.22	42.69	2,982.3	188.5	173.9	-176.9	0.00	0.00	0.00
3,100.0	8.22	42.69	3,081.3	199.0	183.6	-186.7	0.00	0.00	0.00
3,200.0	8.22	42.69	3,180.2	209.5	193.3	-196.6	0.00	0.00	0.00
3,300.0	8.22	42.69	3,279.2	220.0	203.0	-206.4	0.00	0.00	0.00
3,400.0	8.22	42.69	3,378.2	230.5	212.7	-216.3	0.00	0.00	0.00
3,400.0	8.22	42.69	3,378.2 3,477.2	230.5 241.0	212.7	-216.3	0.00	0.00	0.00
3,600.0	8.22	42.69	3,576.1	241.0	222.4	-226.1	0.00	0.00	0.00
3,700.0	8.22	42.69	3,675.1	251.5	232.1	-236.0	0.00	0.00	0.00
3,800.0	8.22	42.69	3,774.1	202.0	241.8	-245.8	0.00	0.00	0.00
3,900.0	8.22	42.69	3,873.0	283.1	261.1	-265.5	0.00	0.00	0.00
4,000.0	8.22	42.69	3,972.0	293.6	270.8	-275.4	0.00	0.00	0.00
4,100.0	8.22	42.69	4,071.0	304.1	280.5	-285.3	0.00	0.00	0.00
4,200.0	8.22	42.69	4,170.0	314.6	290.2	-295.1	0.00	0.00	0.00
4,300.0	8.22	42.69	4,268.9	325.1	299.9	-305.0	0.00	0.00	0.00
4,400.0	8.22	42.69	4,367.9	335.6	309.6	-314.8	0.00	0.00	0.00
4,500.0	8.22	42.69	4,466.9	346.1	319.3	-324.7	0.00	0.00	0.00
4,600.0	8.22	42.69	4,565.9	356.6	329.0	-334.5	0.00	0.00	0.00
4,700.0	8.22	42.69	4,664.8	367.1	338.7	-344.4	0.00	0.00	0.00
4,800.0	8.22	42.69	4,763.8	377.6	348.3	-354.2	0.00	0.00	0.00
4,900.0	8.22	42.69	4,862.8	388.1	358.0	-364.1	0.00	0.00	0.00
5,000.0	8.22	42.69	4,961.8	398.6	367.7	-373.9	0.00	0.00	0.00
5,100.0	8.22	42.69	5,060.7	409.1	377.4	-383.8	0.00	0.00	0.00
5,200.0	8.22	42.69	5,159.7	419.6	387.1	-393.6	0.00	0.00	0.00
0,200.0	0.22	12.00	0,100.1	. 10.0	001.1	500.0	0.00	0.00	0.00

5/3/2022 1:54:12PM

COMPASS 5000.16 Build 100



0	Database:	PEDM	Local Co-ordinate Reference:	Well #753H
C	Company:	Midland	TVD Reference:	kb = 26' @ 3530.0usft
F	Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
S	Site:	Ruthless 11 Fed Com	North Reference:	Grid
V	Vell:	#753H	Survey Calculation Method:	Minimum Curvature
V	Vellbore:	OH		
C	Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	8.22	42.69	5,258.7	430.1	396.8	-403.5	0.00	0.00	0.00
5,400.0	8.22	42.69	5,357.7	440.6	406.5	-413.3	0.00	0.00	0.00
5,500.0	8.22	42.69	5,456.6	451.1	416.2	-423.2	0.00	0.00	0.00
5,600.0	8.22	42.69	5,555.6	461.6	425.9	-433.1	0.00	0.00	0.00
5,700.0	8.22	42.69	5,654.6	472.1	435.6	-442.9	0.00	0.00	0.00
						-442.9	0.00		0.00
5,800.0	8.22	42.69	5,753.5	482.6	445.2	-452.8	0.00	0.00	0.00
5,900.0	8.22	42.69	5,852.5	493.1	454.9	-462.6	0.00	0.00	0.00
6,000.0	8.22	42.69	5,951.5	503.6	464.6	-472.5	0.00	0.00	0.00
6,100.0	8.22	42.69	6,050.5	514.1	474.3	-482.3	0.00	0.00	0.00
6,200.0	8.22	42.69	6,149.4	524.6	484.0	-492.2	0.00	0.00	0.00
6,300.0	8.22	42.69	6,248.4	535.1	493.7	-502.0	0.00	0.00	0.00
6,400.0	8.22	42.69	6,347.4	545.6	503.4	-511.9	0.00	0.00	0.00
6,500.0	8.22	42.69	6,446.4	556.1	513.1	-521.7	0.00	0.00	0.00
6,600.0	8.22	42.69	6,545.3	566.6	522.8	-531.6	0.00	0.00	0.00
6,700.0	8.22	42.69	6,644.3	577.1	532.5	-541.4	0.00	0.00	0.00
6,800.0	8.22	42.69	6,743.3	587.6	542.1	-551.3	0.00	0.00	0.00
6,902.4	8.22	42.69	6,844.6	598.4	552.1	-561.4	0.00	0.00	0.00
7,000.0	6.26	42.69	6,941.5	607.4	560.4	-569.9	2.00	-2.00	0.00
7,100.0	4.26	42.69	7,041.0	614.2	566.6	-576.2	2.00	-2.00	0.00
7,200.0	2.26	42.69	7,140.9	618.4	570.5	-580.1	2.00	-2.00	0.00
7,300.0	0.26	42.69	7,240.8	620.0	572.0	-581.6	2.00	-2.00	0.00
7,313.2	0.00	0.00	7,254.0	620.0	572.0	-581.7	2.00	-2.00	0.00
7,400.0	0.00	0.00	7,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
7,400.0	0.00			620.0	572.0	-581.7	0.00		0.00
,		0.00	7,440.8					0.00	
7,600.0	0.00	0.00	7,540.8	620.0	572.0	-581.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,640.8	620.0	572.0	-581.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,740.8	620.0	572.0	-581.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,840.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,940.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,140.8	620.0	572.0	-581.7	0.00	0.00	0.00
0,200.0	0.00	0.00	0,140.0	020.0	572.0	-501.7		0.00	0.00
8,300.0	0.00	0.00	8,240.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,440.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,540.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,640.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,740.8	620.0	572.0	-581.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,840.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,940.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,140.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,240.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,240.8 9,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,400.0 9,500.0	0.00		9,340.8 9,440.8	620.0	572.0	-561.7	0.00		0.00
		0.00						0.00	
9,600.0	0.00	0.00	9,540.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,640.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,740.8	620.0	572.0	-581.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,840.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,940.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,240.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
	0.00	0.00	10,440.8	620.0	572.0	-581.7	0.00	0.00	0.00

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COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #753H
Company:	Midland	TVD Reference:	kb = 26' @ 3530.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,540.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,640.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,740.8	620.0	572.0	-581.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,840.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,940.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,140.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,240.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,440.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,540.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,640.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,700.0		0.00							
11,800.0	0.00	0.00	11,740.8	620.0	572.0	-581.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,840.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,940.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,100.0	0.00	0.00	12,040.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,200.0	0.00	0.00	12,140.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,300.0	0.00	0.00	12,240.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,400.0	0.00	0.00	12,340.8	620.0	572.0	-581.7	0.00	0.00	0.00
12,497.7	0.00	0.00	12,438.5	620.0	572.0	-581.7	0.00	0.00	0.00
12,500.0	0.28	180.00	12,440.8	620.0	572.0	-581.6	12.00	12.00	0.00
12,525.0	3.28	180.00	12,465.8	619.2	572.0	-580.9	12.00	12.00	0.00
12,550.0	6.28	180.00	12,490.7	617.1	572.0	-578.8	12.00	12.00	0.00
12,575.0	9.28	180.00	12,515.5	613.8	572.0	-575.4	12.00	12.00	0.00
12,600.0	12.28	180.00	12,540.0	609.1	572.0	-570.8	12.00	12.00	0.00
12,625.0	15.28	180.00	12,564.3	603.1	572.0	-564.8	12.00	12.00	0.00
12,650.0	18.28	180.00	12,588.3	595.9	572.0	-557.6	12.00	12.00	0.00
12,675.0	21.28	180.00	12,611.8	587.4	572.0	-549.2	12.00	12.00	0.00
12,700.0	24.28	180.00	12,634.8	577.8	572.0	-539.5	12.00	12.00	0.00
12,718.1	26.46	180.00	12,651.2	570.0	572.0	-531.8	12.00	12.00	0.00
12,725.0	27.28	179.99	12,657.3	566.9	572.0	-528.7	12.00	12.00	-0.19
12,750.0	30.28	179.95	12,679.2	554.9	572.0	-516.6	12.00	12.00	-0.16
12,775.0	33.28	179.91	12,700.5	541.7	572.0	-503.5	12.00	12.00	-0.14
12,800.0	36.28	179.88	12,721.0	527.4	572.0	-489.3	12.00	12.00	-0.12
12,825.0	39.28	179.86	12,740.8	512.1	572.1	-474.0	12.00	12.00	-0.12
12,850.0	42.28	179.84	12,759.7	495.8	572.1	-474.0	12.00	12.00	-0.09
12,875.0	45.28	179.82	12,777.8	478.5	572.1	-440.4	12.00	12.00	-0.09
12,070.0									
12,900.0	48.28	179.80	12,794.9	460.3	572.2	-422.3	12.00	12.00	-0.07
12,925.0	51.28	179.78	12,811.0	441.2	572.3	-403.2	12.00	12.00	-0.06
12,950.0	54.28	179.77	12,826.1	421.3	572.4	-383.3	12.00	12.00	-0.06
12,975.0	57.28	179.75	12,840.2	400.6	572.5	-362.7	12.00	12.00	-0.06
13,000.0	60.28	179.74	12,853.1	379.2	572.6	-341.4	12.00	12.00	-0.05
13,025.0	63.28	179.73	12,865.0	357.2	572.7	-319.4	12.00	12.00	-0.05
13,050.0	66.28	179.72	12,875.6	334.6	572.8	-296.8	12.00	12.00	-0.05
13,075.0	69.28	179.71	12,885.1	311.5	572.9	-273.7	12.00	12.00	-0.04
13,100.0	72.28	179.69	12,893.3	287.9	573.0	-250.1	12.00	12.00	-0.04
13,125.0	75.28	179.68	12,900.3	263.8	573.2	-226.2	12.00	12.00	-0.04
13,150.0	78.28	179.67	12,906.0	239.5	573.3	-201.9	12.00	12.00	-0.04
13,175.0	81.28	179.66	12,910.4	214.9	573.4	-177.3	12.00	12.00	-0.04
13,200.0	84.28	179.65	12,913.6	190.1	573.6	-152.6	12.00	12.00	-0.04
13,225.0	87.28	179.65	12,915.4	165.2	573.7	-127.7	12.00	12.00	-0.04
13,247.6	90.00	179.64	12,915.9	142.5	573.9	-105.1	12.00	12.00	-0.04
13,300.0	90.00	179.64	12,915.9	90.2	574.2	-52.8	0.00	0.00	0.00
13,400.0	90.00	179.64	12,915.9	-9.8	574.8	47.0	0.00	0.00	0.00

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Database:	PEDM	Local Co-ordinate Reference:	Well #753H
Company:	Midland	TVD Reference:	kb = 26' @ 3530.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	179.64	12,915.9	-109.8	575.5	146.8	0.00	0.00	0.00
13,600.0	90.00	179.64	12,915.9	-209.8	576.1	246.7	0.00	0.00	0.00
13,700.0	90.00	179.64	12,915.9	-309.8	576.7	346.5	0.00	0.00	0.00
13,800.0	90.00	179.64	12,916.0	-409.8	577.4	446.3	0.00	0.00	0.00
13,900.0	90.00	179.64	12,916.0	-509.8	578.0	546.2	0.00	0.00	0.00
14,000.0	90.00	179.64	12,916.0	-609.8	578.6	646.0	0.00	0.00	0.00
14,100.0	90.00	179.64	12,916.0	-709.8	579.3	745.8	0.00	0.00	0.00
14,200.0	90.00	179.64	12,916.0	-809.8	579.9	845.6	0.00	0.00	0.00
14,300.0	90.00	179.64	12,916.0	-909.8	580.5	945.5	0.00	0.00	0.00
14,400.0	90.00	179.64	12,916.0	-1,009.8	581.2	1,045.3	0.00	0.00	0.00
14,500.0	90.00	179.64	12,916.0	-1,109.8	581.8	1,145.1	0.00	0.00	0.00
14,600.0	90.00	179.64	12,916.0	-1,209.8	582.4	1,245.0	0.00	0.00	0.00
14,700.0	90.00	179.64	12,916.0	-1,309.8	583.1	1,344.8	0.00	0.00	0.00
14,800.0	90.00	179.64	12,916.0	-1,409.8	583.7	1,444.6	0.00	0.00	0.00
14,900.0	90.00	179.64	12,916.0	-1,509.8	584.4	1,544.4	0.00	0.00	0.00
15,000.0	90.00	179.64	12,916.0	-1,609.8	585.0	1,644.3	0.00	0.00	0.00
15,100.0	90.00	179.64	12,916.0	-1,709.8	585.6	1,744.1	0.00	0.00	0.00
15,200.0	90.00	179.64	12,916.0	-1,809.8	586.3	1,843.9	0.00	0.00	0.00
15,300.0	90.00	179.64	12,916.0	-1,909.8	586.9	1,943.8	0.00	0.00	0.00
15,400.0	90.00	179.64	12,916.0	-2,009.8	587.5	2,043.6	0.00	0.00	0.00
15,500.0	90.00	179.64	12,916.0	-2,109.8	588.2	2,143.4	0.00	0.00	0.00
15,600.0	90.00	179.64	12,916.0	-2,209.8	588.8	2,243.2	0.00	0.00	0.00
15,700.0	90.00	179.64	12,916.0	-2,309.8	589.4	2,343.1	0.00	0.00	0.00
15,800.0	90.00	179.64	12,916.0	-2,409.8	590.1	2,442.9	0.00	0.00	0.00
15,900.0	90.00	179.64	12,916.0	-2,509.8	590.7	2,542.7	0.00	0.00	0.00
16,000.0	90.00	179.64	12,916.0	-2,609.7	591.3	2,642.6	0.00	0.00	0.00
16,100.0	90.00	179.64	12,916.0	-2,709.7	592.0	2,742.4	0.00	0.00	0.00
16,200.0	90.00	179.64	12,916.0	-2,809.7	592.6	2,842.2	0.00	0.00	0.00
16,300.0	90.00	179.64	12,916.0	-2,909.7	593.2	2,942.1	0.00	0.00	0.00
16,400.0	90.00	179.64	12,916.0	-3,009.7	593.9	3,041.9	0.00	0.00	0.00
16,500.0	90.00	179.64	12,916.0	-3,109.7	594.5	3,141.7	0.00	0.00	0.00
16,600.0	90.00	179.64	12,916.0	-3,209.7	595.1	3,241.5	0.00	0.00	0.00
16,700.0	90.00	179.64	12,916.0	-3,309.7	595.8	3,341.4	0.00	0.00	0.00
16,800.0	90.00	179.64	12,916.0	-3,409.7	596.4	3,441.2	0.00	0.00	0.00
16,900.0	90.00	179.64	12,916.0	-3,509.7	597.0	3,541.0	0.00	0.00	0.00
17,000.0	90.00	179.64	12,916.0	-3,609.7	597.7	3,640.9	0.00	0.00	0.00
17,100.0	90.00	179.64	12,916.0	-3,709.7	598.3	3,740.7	0.00	0.00	0.00
17,200.0	90.00	179.64	12,916.0	-3,809.7	598.9	3,840.5	0.00	0.00	0.00
17,300.0	90.00	179.64	12,916.0	-3,909.7	599.6	3,940.3	0.00	0.00	0.00
17,400.0	90.00	179.64	12,916.0	-4,009.7	600.2	4,040.2	0.00	0.00	0.00
17,500.0	90.00	179.64	12,916.0	-4,109.7	600.8	4,140.0	0.00	0.00	0.00
17,600.0	90.00	179.64	12,916.0	-4,209.7	601.5	4,239.8	0.00	0.00	0.00
17,700.0	90.00	179.64	12,916.0	-4,309.7	602.1	4,339.7	0.00	0.00	0.00
17,800.0	90.00	179.64	12,916.0	-4,409.7	602.7	4,439.5	0.00	0.00	0.00
17,900.0	90.00	179.64	12,916.0	-4,509.7	603.4	4,539.3	0.00	0.00	0.00
17,999.3	90.00	179.64	12,916.0	-4,609.0	604.0	4,638.4	0.00	0.00	0.00
18,100.0	90.00	179.64	12,916.0	-4,709.7	604.6	4,739.0	0.00	0.00	0.00
18,200.0	90.00	179.64	12,916.0	-4,809.7	605.3	4,838.8	0.00	0.00	0.00
18,300.0	90.00	179.64	12,916.0	-4,909.7	605.9	4,938.6	0.00	0.00	0.00
18,400.0	90.00	179.64	12,916.0	-5,009.7	606.5	5,038.5	0.00	0.00	0.00
18,500.0	90.00	179.64	12,916.0	-5,109.7	607.1	5,138.3	0.00	0.00	0.00
18,600.0	90.00	179.64	12,916.0	-5,209.7	607.8	5,238.1	0.00	0.00	0.00
18,700.0	90.00	179.65	12,916.0	-5,309.7	608.4	5,337.9	0.00	0.00	0.00
18.800.0	90.00	179.65	12,916.0	-5,409.7	609.0	5,437.8	0.00	0.00	0.00

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Database:	PEDM	Local Co-ordinate Reference:	Well #753H
Company:	Midland	TVD Reference:	kb = 26' @ 3530.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3530.0usft
Site:	Ruthless 11 Fed Com	North Reference:	Grid
Well:	#753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,900.0	90.00	179.65	12,916.0	-5,509.7	609.6	5,537.6	0.00	0.00	0.00
19,000.0	90.00	179.65	12,916.0	-5,609.7	610.2	5,637.4	0.00	0.00	0.00
19,100.0	90.00	179.65	12,916.0	-5,709.7	610.8	5,737.3	0.00	0.00	0.00
19,200.0	90.00	179.65	12,916.0	-5,809.7	611.5	5,837.1	0.00	0.00	0.00
19,300.0	90.00	179.65	12,916.0	-5,909.7	612.1	5,936.9	0.00	0.00	0.00
19,400.0	90.00	179.65	12,916.0	-6,009.7	612.7	6,036.7	0.00	0.00	0.00
19,500.0	90.00	179.66	12,916.0	-6,109.7	613.3	6,136.6	0.00	0.00	0.00
19,600.0	90.00	179.66	12,916.0	-6,209.7	613.9	6,236.4	0.00	0.00	0.00
19,700.0	90.00	179.66	12,916.0	-6,309.7	614.5	6,336.2	0.00	0.00	0.00
19,800.0	90.00	179.66	12,916.0	-6,409.7	615.1	6,436.1	0.00	0.00	0.00
19,900.0	90.00	179.66	12,916.0	-6,509.7	615.7	6,535.9	0.00	0.00	0.00
20,000.0	90.00	179.66	12,916.0	-6,609.7	616.3	6,635.7	0.00	0.00	0.00
20,100.0	90.00	179.66	12,916.0	-6,709.7	616.8	6,735.5	0.00	0.00	0.00
20,200.0	90.00	179.66	12,916.0	-6,809.7	617.4	6,835.4	0.00	0.00	0.00
20,300.0	90.00	179.67	12,916.0	-6,909.7	618.0	6,935.2	0.00	0.00	0.00
20,400.0	90.00	179.67	12,916.0	-7,009.7	618.6	7,035.0	0.00	0.00	0.00
20,500.0	90.00	179.67	12,916.0	-7,109.7	619.2	7,134.8	0.00	0.00	0.00
20,600.0	90.00	179.67	12,916.0	-7,209.7	619.8	7,234.7	0.00	0.00	0.00
20,642.3	90.00	179.67	12,916.0	-7,252.0	620.0	7,276.9	0.00	0.00	0.00
20,700.0	90.00	179.67	12,916.0	-7,309.7	620.3	7,334.5	0.00	0.00	0.00
20,800.0	90.00	179.67	12,916.0	-7,409.7	620.9	7,434.3	0.00	0.00	0.00
20,900.0	90.00	179.66	12,916.0	-7,509.7	621.5	7,534.1	0.00	0.00	0.00
21,000.0	90.00	179.66	12,916.0	-7,609.7	622.1	7,634.0	0.00	0.00	0.00
21,100.0	90.00	179.66	12,916.0	-7,709.7	622.7	7,733.8	0.00	0.00	0.00
21,200.0	90.00	179.66	12,916.0	-7,809.7	623.3	7,833.6	0.00	0.00	0.00
21,300.0	90.00	179.65	12,916.0	-7,909.6	623.9	7,933.4	0.00	0.00	0.00
21,400.0	90.00	179.65	12,916.0	-8,009.6	624.5	8,033.3	0.00	0.00	0.00
21,500.0	90.00	179.65	12,916.0	-8,109.6	625.1	8,133.1	0.00	0.00	0.00
21,600.0	90.00	179.65	12,916.0	-8,209.6	625.7	8,232.9	0.00	0.00	0.00
21,700.0	90.00	179.65	12,916.0	-8,309.6	626.3	8,332.8	0.00	0.00	0.00
21,800.0	90.00	179.64	12,916.0	-8,409.6	626.9	8,432.6	0.00	0.00	0.00
21,900.0	90.00	179.64	12,916.0	-8,509.6	627.6	8,532.4	0.00	0.00	0.00
22,000.0	90.00	179.64	12,916.0	-8,609.6	628.2	8,632.2	0.00	0.00	0.00
22,100.0	90.00	179.64	12,916.0	-8,709.6	628.8	8,732.1	0.00	0.00	0.00
22,200.0	90.00	179.63	12,916.0	-8,809.6	629.5	8,831.9	0.00	0.00	0.00
22,300.0	90.00	179.63	12,916.0	-8,909.6	630.1	8,931.7	0.00	0.00	0.00
22,400.0	90.00	179.63	12,916.0	-9,009.6	630.8	9,031.6	0.00	0.00	0.00
22,500.0	90.00	179.63	12,916.0	-9,109.6	631.4	9,131.4	0.00	0.00	0.00
22,600.0	90.00	179.62	12,916.0	-9,209.6	632.1	9,231.2	0.00	0.00	0.00
22,700.0	90.00	179.62	12,916.0	-9,309.6	632.7	9,331.1	0.00	0.00	0.00
22,800.0	90.00	179.62	12,916.0	-9,409.6	633.4	9,430.9	0.00	0.00	0.00
22,900.0	90.00	179.62	12,916.0	-9,509.6	634.0	9,530.7	0.00	0.00	0.00
23,000.0	90.00	179.62	12,916.0	-9,609.6	634.7	9,630.5	0.00	0.00	0.00
23,100.0	90.00	179.61	12,916.0	-9,709.6	635.4	9,730.4	0.00	0.00	0.00
23,190.4	00.00	170.61			636.0			0.00	0.00
23.190.4	90.00	179.61	12,916.0	-9,800.0	636.0	9,820.6	0.00	0.00	0.00



Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Lea County, Ruthless 11 #753H OH Plan #0.1 RT		NME)		TVD Refere MD Referen North Refer	ice:	kb = kb = Grid	#753H 26' @ 3530.0usft 26' @ 3530.0usft mum Curvature	
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(Ruthless 11 Fed 0 - plan hits target ce - Point		0.00	12,438.5	620.0	572.0	419,773.00	754,550	.00 32° 9' 7.773 N	103° 38' 39.810 W
FTP(Ruthless 11 Fed C - plan hits target ce - Point		0.00	12,651.2	570.0	572.0	419,723.00	754,550	.00 32° 9' 7.278 N	103° 38' 39.814 W
Fed Perf 1(Ruthless 11 - plan hits target ce - Point		0.00	12,916.0	-4,609.0	604.0	414,544.00	754,582	.00 32° 8' 16.027 N	103° 38' 39.827 W
Fed Perf 2(Ruthless 11 - plan hits target ce - Point		0.00	12,916.0	-7,252.0	620.0	411,901.00	754,598	.00 32° 7' 49.872 N	103° 38' 39.837 W
PBHL(Ruthless 11 Fed - plan hits target ce - Point		0.00	12,916.0	-9,800.0	636.0	409,353.00	754,614	.00 32° 7' 24.658 N	103° 38' 39.841 W

# **leogresources**

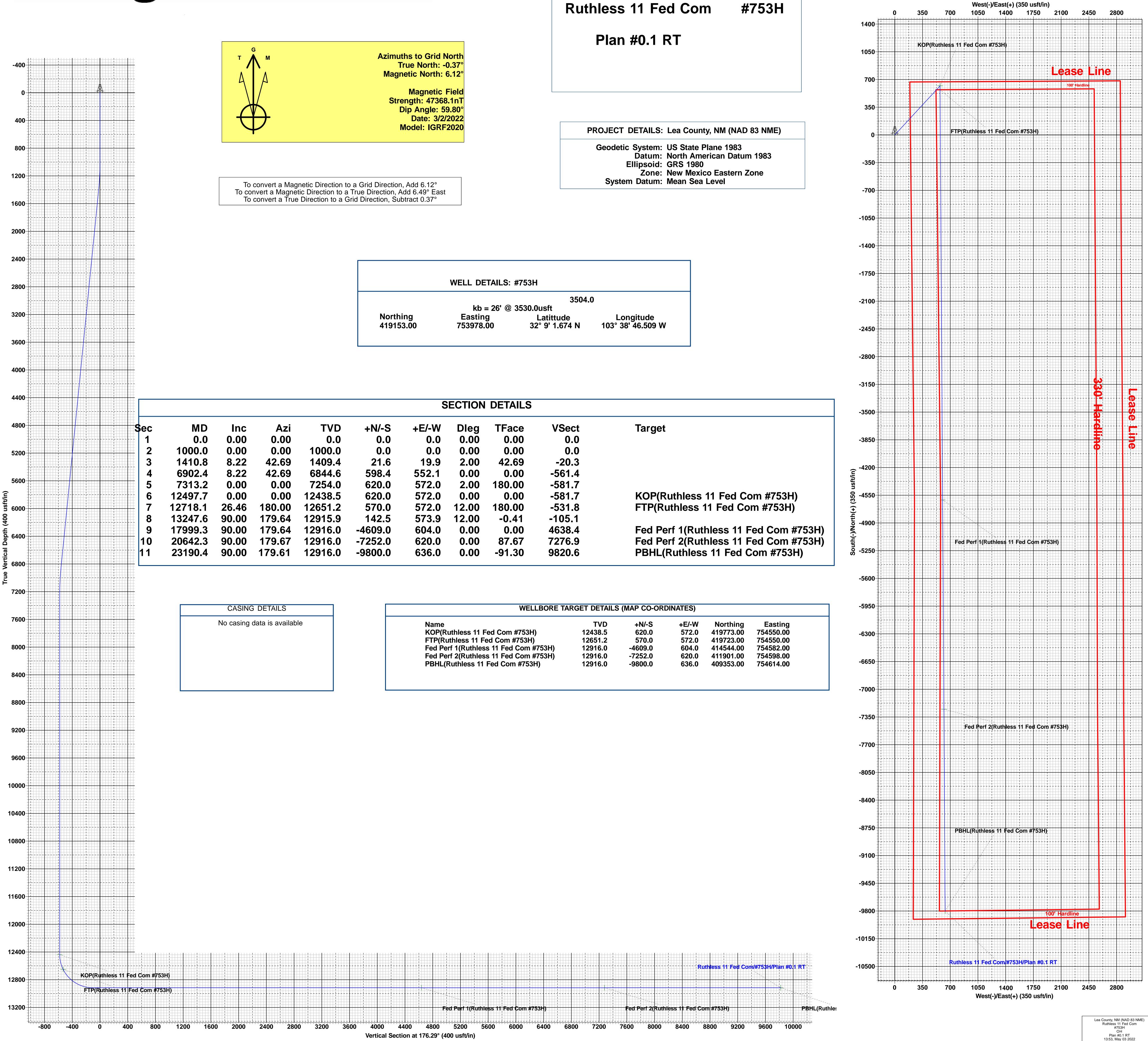


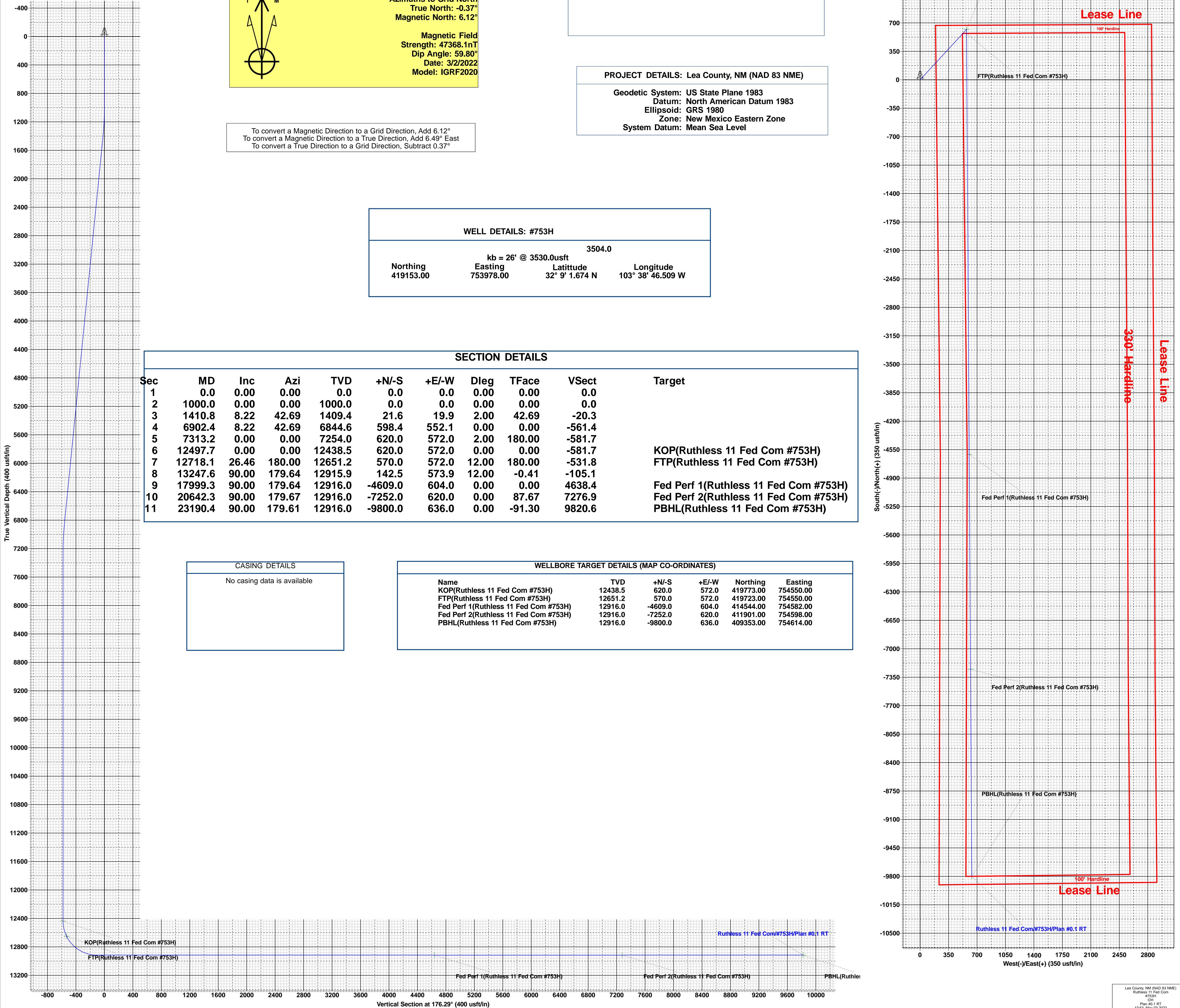
# Lea County, NM (NAD 83 NME)

**Ruthless 11 Fed Com** 

**Plan #0.1 RT** 

Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level





Name	TVD	+N/-S	+E/-V
KOP(Ruthless 11 Fed Com #753H)	12438.5	620.0	572.
FTP(Ruthless 11 Fed Com #753H)	12651.2	570.0	572.
Fed Perf 1(Ruthless 11 Fed Com #753H)	12916.0	-4609.0	604.
Fed Perf 2(Ruthless 11 Fed Com #753H)	12916.0	-7252.0	620.
PBHL(Ruthless 11 Fed Com #753H)	12916.0	-9800.0	636.

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources Incorporated
LEASE NO.:	NMNM15317
WELL NAME & NO.:	RUTHLESS 11 FED COM 753H
SURFACE HOLE FOOTAGE:	667'/N & 2470'/W
BOTTOM HOLE FOOTAGE	100'/S & 2275'/E
LOCATION:	Section 11, T.25 S., R.32 E., C
COUNTY:	Lea County, New Mexico

### COA

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

### A. HYDROGEN SULFIDE

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

### **B.** CASING

### **Primary Casing Design:**

- 1. The **13-3/8** inch surface casing shall be set at approximately **940** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{\mathbf{8}}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **9-5/8** inch intermediate casing shall be set at approximately **11,100** feet. 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

### **Option 2:**

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

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

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 9-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

3. The **5-1/2** inch production casing shall be set at approximately **23,190** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

### **Option 1 (Single Stage):**

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

### **Option 2:**

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

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

### Alternate Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **940** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - f. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{\mathbf{8}}$ <u>hours</u> 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 **11,100** feet. **KEEP CASING FULL DURING RUN FOR COLLAPSE SF.** 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

### **Option 2:**

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

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

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 9-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

3. The 6 inch production casing shall be set at approximately 23,190 feet. **KEEP HOLE FULL FOR TENSILE SF.** 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.

### **Option 2:**

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

c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

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- d. Second stage above DV tool:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (3.5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

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

### **D. SPECIAL REQUIREMENT (S)**

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### GENERAL REQUIREMENTS

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

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

Eddy County

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

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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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
  - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

### B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's 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.

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- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

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have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

### C. DRILLING MUD

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

### D. WASTE MATERIAL AND FLUIDS

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

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

### KPI- 12-28-2022

**Approval Date: 03/06/2023** 



### 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.

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Ruthless 11 Fed Com #753H

### **Emergency Assistance Telephone List**

Corey Helton         Fire Department           Carlsbad         (575) 885-3125           Artesia         (575) 746-5050           Hospitals         (575) 746-5050           Carlsbad         (575) 748-5030           Hospitals         (575) 748-3333           Hobbs         (575) 748-3333           Hobbs         (575) 748-3333           Hobbs         (575) 748-9718           US. Department of Labor         (575) 887-3121           US. Department of Labor         (575) 887-174           Bureau of Land Management - Hobbs (Lea Co)         (575) 987-981           PET On Call - Hobbs         (575) 706-2779           Bureau of Land Management - Carlsbad (Eddy Co)         (575) 245-972           PET On Call - Carlsbad         (575) 626-7830           EOG Resources, Inc.         EOG Midlad         (432) 230-4840           Blake Burney         EOG Midlad         (432) 230-4840           Daniel Moose         (432) 235-9789         Filing Engineers           Daniel Moose         (432) 235-9789         Filing Managers           Al Dach         (817) 480-1167         Franden Kcener         (210) 294-3729           Drilling Managers          (432) 215-5531         Lance Hardy         (432) 215-5535	PUBLIC SAFETY:	911 or
Fire Department         Carlsbad         (575) 885-3125           Artesia         (575) 746-5050           Hospitals         (575) 887-4121           Artesia         (575) 887-4121           Artesia         (575) 748-3333           Hobbs         (575) 392-1979           Dept. of Public Safety/Carlsbad         (575) 887-3174           Highway Department         (575) 885-3281           U.S. Department of Labor         (575) 887-3174           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) 573 706-2779           PET On Call - Carlsbad         (575) 706-2779           New Mexico Oil Conservation Division - Artesia         (575) 706-2779           New Mexico Oil Conservation Division - Artesia         (575) 706-2779           New Mexico Oil Conservation Division - Artesia         (575) 748-1283           Inspection Group South - Gilbert Gordero         (575) 626-0830           Cod Resources, Inc.         200           EOG Midland         (432) 230-4840           Bake Burney         201           Daniel Mose         (432) 215-531           Esteban Del Valle         (432) 215-531	Lea County Sheriff's Department	(575) 396-3611
Carlsbad         (575) 885-3125           Artesia         (575) 746-5050           Hospitals         (575) 746-5050           Carlsbad         (575) 887-4121           Artesia         (575) 748-3333           Hobbs         (575) 748-3333           Hobbs         (575) 748-9718           Bighway Department         (575) 887-1174           Bureau of Land Management - Hobbs (Lea Co)         (575) 885-3281           Q.S. Department of Labor         (575) 706-2779           Bureau of Land Management - Carlsbad (Eddy Co)         (575) 736-2779           PET On Call - Carlsbad         (575) 706-2779           New Mexico Oil Conservation Division - Artesia         (575) 748-1283           Inspection Group South - Gilbert Gordero         (575) 626-0830           EOG Resources, Inc.         EOG Midland         (432) 230-4840           Blake Burney         Datifue Managers         (432) 2312-2803           Datifue Mose         (432) 232-9789         201111           Datifue Mose         (432) 225-9783           Datifue Mose         (432) 212-2803           Stephen Davis         (432) 212-5531           J Dach         (817) 480-1167           Branden Keener         (210) 215-5513           J Dach         (432)	Corey Helton	
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Esteban Del Valle       (432) 269-7063         Stephen Davis       (432) 235-9789         Drilling Managers       (817) 480-1167         Branden Keener       (210) 294-3729         Drilling Superintendents       (432) 215-5531         Lance Hardy       (432) 215-5531         Lance Hardy       (432) 215-5531         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Drilling Engineers	
Stephen Davis       (432) 235-9789         Drilling Managers       (432) 235-9789         AJ Dach       (817) 480-1167         Branden Keener       (210) 294-3729         Drilling Superintendents       (210) 294-3729         Chris Hale       (432) 215-5531         Lance Hardy       (432) 215-5531         Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Daniel Moose	(432) 312-2803
Drilling Managers       (817) 480-1167         AJ Dach       (817) 480-1167         Branden Keener       (210) 294-3729         Drilling Superintendents       (210) 294-3729         Drilling Superintendents       (432) 215-5531         Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Esteban Del Valle	(432) 269-7063
AJ Dach       (817) 480-1167         Branden Keener       (210) 294-3729         Drilling Superintendents       (432) 215-5531         Chris Hale       (432) 215-5531         Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Stephen Davis	(432) 235-9789
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Drilling Superintendents         Chris Hale       (432) 215-5531         Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	AJ Dach	(817) 480-1167
Chris Hale       (432) 215-5531         Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Branden Keener	(210) 294-3729
Lance Hardy       (432) 215-8152         Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Drilling Superintendents	
Ryan Reynolds       (432) 215-5978         Steve Kelly       (210) 416-7894         H&P Drilling       (432) 563-5757         Nabors Drilling       (432) 363-5757         Nabors Drilling       (432) 363-8180         Patterson UTI       (432) 561-9382         EOG Safety       (432) 561-9382	Chris Hale	(432) 215-5531
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H&P Drilling(432) 563-5757Nabors Drilling(432) 363-8180Nabors Drilling(432) 363-8180Patterson UTI(432) 561-9382EOG Safety(432) 561-9382	Ryan Reynolds	(432) 215-5978
H&P Drilling(432) 563-5757Nabors Drilling(432) 363-8180Patterson UTI(432) 363-8180Patterson UTI(432) 561-9382EOG Safety(432) 561-9382	Steve Kelly	(210) 416-7894
Nabors Drilling(432) 363-8180Patterson UTI(432) 561-9382EOG Safety(432) 561-9382	H&P Drilling	
Nabors Drilling(432) 363-8180Patterson UTI(432) 561-9382EOG Safety(432) 561-9382	H&P Drilling	(432) 563-5757
Patterson UTIPatterson UTIEOG Safety	Nabors Drilling	
Patterson UTI (432) 561-9382 EOG Safety	Nabors Drilling	(432) 363-8180
EOG Safety	Patterson UTI	
•	Patterson UTI	(432) 561-9382
•	EOG Safety	
	Brian Chandler (HSE Manager)	(817) 239-0251

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

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

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	194095
	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	3/8/2023
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	3/8/2023
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	3/8/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/8/2023

CONDITIONS

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Action 194095