Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO DE		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM0002965A 6. If Indian, Allotee or Tribe Name					
1a. Type of work:          ✓ DRILL           □ REI          1b. Type of Well:          ✓ Oil Well           □ Gas Well           ○ th          1c. Type of Completion:          □ Hydraulic Fracturing           ✓ Sing	7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. BARLOW 34 FED COM [319802] 504H						
1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002         4. Location of Well (Report location clearly and in accordance with At surface         LOT 2 / 2239 FNL / 2575 FEL / LAT 32.00102	(713) 651-7 ith any State 251 / LONG	requirements.*) i -103.5599388		9. API Well No. 10. Field and Pool, on PERMIAN/PURPL: 11. Sec., T. R. M. or SEC 34/T26S/R33	or Explor <b>E-SAGE</b> Blk. and	; WOLFCAMP	7280
At proposed prod. zone NESW / 2540 FSL / 2178 FWL / L 14. Distance in miles and direction from nearest town or post offic		662 / LONG -103.	5616898	12. County or Parish LEA	1	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)       100 feet         18. Distance from proposed location*	16. No of ac		314.0	ng Unit dedicated to the second	his well		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		15722 feet	FED: start*	23. Estimated durati 25 days	on		
	24. Attacl						
<ul> <li>The following, completed in accordance with the requirements of (as applicable)</li> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).</li> </ul>	Lands, the	<ol> <li>Bond to cover the Item 20 above).</li> <li>Operator certifica</li> </ol>	e operatior ation.	Hydraulic Fracturing r ns unless covered by ar rmation and/or plans as	n existing	bond on file (see	
25. Signature (Electronic Submission)		(Printed/Typed) "RASCHER / Ph: (	713) 651	-7000	Date 07/29/2	2020	
Title Regulatory Specialist Approved by (Signature) (Electronic Submission) Title		(Printed/Typed) Layton / Ph: (575) 2	234-5959	·	Date 05/10/2	2021	
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.		ad Field Office or equitable title to th	ose rights	in the subject lease w	hich wou	ld entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements or					any depar	tment or agency	

### GCP Rec 05/11/2021

SL (Continued on page 2)



06/25/2021

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

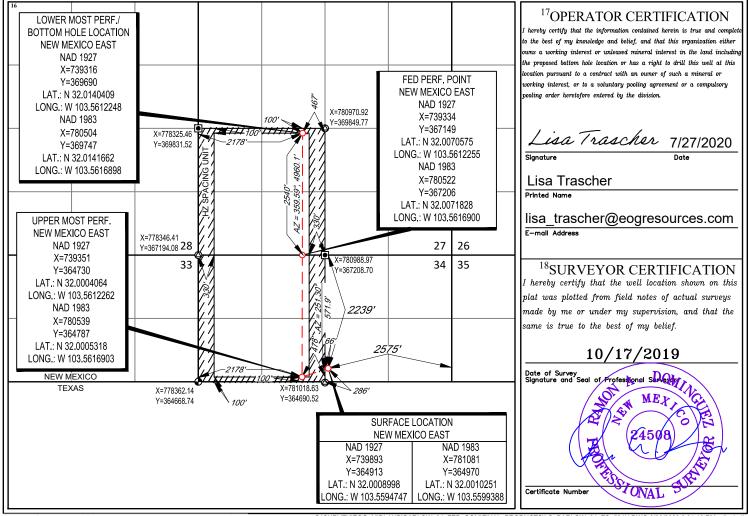
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

AMENDED REPORT

#### <sup>1</sup>API Number <sup>2</sup>Pool Code <sup>3</sup>Pool Name Bradley; Bone Spring 7280 30-025-49103 Property Name Well Number <sup>4</sup>Property Code 319802 BARLOW 34 FED COM 504H <sup>8</sup>Operator Name <sup>7</sup>OGRID No. <sup>9</sup>Elevation 3299 7377 EOG RESOURCES, INC. <sup>10</sup>Surface Location UL or lot no. Section Township Rang Lot Idn Feet from the North/South line Feet from the East/West line County 2 26-S 33-E 2239' NORTH 2575 EAST LEA $\mathbf{34}$ <sup>11</sup>Bottom Hole Location If Different From Surface UL or lot no. Township Lot Idn Feet from the North/South line Feet from the East/West line County Section Rang 27 2540' SOUTH 2178' Κ 26-S 33-E WEST LEA <sup>2</sup>Dedicated Acres <sup>3</sup>Joint or Infill <sup>4</sup>Consolidation Code <sup>5</sup>Order No. 313.60

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Released to Imaging: 6/25/2021 11:48:18 AM

S:\SURVEY\EOG\_MIDLAND\BARLOW\_34\_FED\_COM\FINAL\_PRODUCTS\LO\_BARLOW\_34\_FC\_504H.DWG 6/30/2020 2:31:49 PM adisabell

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

#### GAS CAPTURE PLAN

Date: 07/27/2020

 $\boxtimes$  Original

Operator & OGRID No.: EOG Resources, Inc. 7377

□ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location	Footages	Expected	Flared or	Comments
		(ULSTR)		MCF/D	Vented	
Barlow 34 Fed Com 501H	30-025-****	1-34-26S-33E	2280' FNL	±3500	None	APD Submission
			& 501' FEL		Planned	
Barlow 34 Fed Com 502H	30-025-****	1-34-26S-33E	2280' FNL	±3500	None	APD Submission
			& 516' FEL		Planned	
Barlow 34 Fed Com 503H	30-025-****	2-34-26S-33E	2239' FNL	±3500	None	APD Submission
			& 2560' FEL		Planned	
Barlow 34 Fed Com 504H	30-025-****	2-34-26S-33E	2239' FNL	±3500	None	APD Submission
	30-025-49103		& 2575' FEL		Planned	
Barlow 34 Fed Com 505H	30-025-****	4-34-26S-33E	2284' FNL	±3500	None	APD Submission
			& 561' FWL		Planned	
Barlow 34 Fed Com 506H	30-025-****	3-34-26S-33E	2284' FNL	±3500	None	APD Submission
			& 546' FWL		Planned	

#### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Lucid Energy. Enterprise & Regency Field Services</u> and will be connected to <u>EOG Resources</u> low/high pressure gathering system located in Lea County, New Mexico. EOG Resources provides (periodically) to <u>Lucid Energy, Enterprise & Regency Field Services</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG Resources and <u>Lucid Energy, Enterprise & Regency Field Services</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Lucid Energy, Enterprise & Regency Field Services</u> Processing Plant located in Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Lucid Energy, Enterprise & Regency Field Services** system at that time. Based on current information, it is **EOG Resources'** belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

#### *Received by OCD: 5/11/2021 1:34:14 PM*

•

•

• Only a portion of gas is consumed operating the generator, remainder of gas will be flared

- Compressed Natural Gas On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

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

800'
875'
1,155'
4,790'
5,040'
5,067'
6,098'
8,091'
9,234'
9,307'
10,178'
10,342'
10,714'
10,900'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,098'	Oil
Brushy Canyon	8,091'	Oil
Leonard	9,307'	Oil
1 <sup>st</sup> Bone Spring Sand	10,178'	Oil
2 <sup>nd</sup> Bone Spring Shale	10,342'	Oil
2 <sup>nd</sup> Bone Spring Sand	10,714'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 900' and circulating cement back to surface.

Hole		Csg				DF <sub>min</sub>	DF <sub>min</sub>	DF <sub>min</sub>
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0'-900'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0'-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' - 4,890'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-11,189'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,189'–	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
	15,722'							

#### 4. CASING PROGRAM - NEW

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

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft <sup>3</sup> /sk	Slurry Description
900'	510	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 700')
4,890'	780	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	310	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 3,900')
15,722'	610	11.0	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,390')
	1,400	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,439')

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

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

Cement integrity tests will be performed immediately following plug bump.

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

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

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

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

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

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

#### 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0-900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' - 4,890'	Brine	8.6-8.8	28-34	N/c
4,890' - 15,722'	Oil Base	8.8-9.5	58-68	N/c - 6

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

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

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H<sub>2</sub>S 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 179 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5,385 psig and a maximum anticipated surface pressure of 2,987 psig (based on 9.5 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 8,091' to TD.

#### **10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

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

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

#### **11. WELLHEAD**:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

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

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

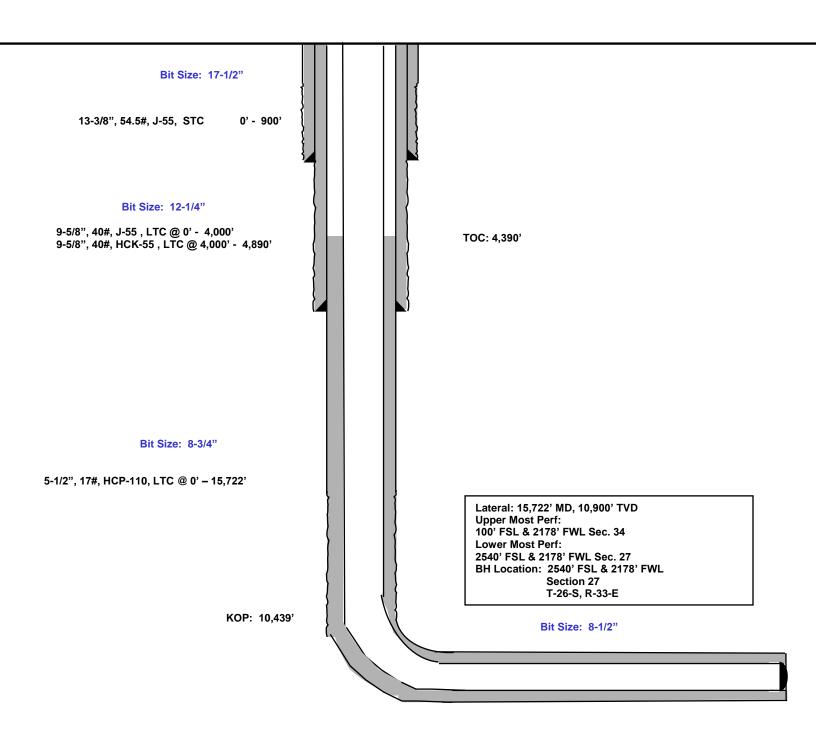
The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

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

2239' FNL 2575' FEL	Proposed Wellbore	KB: 3,324' GL: 3,299'
Section 34		,
T-26-S, R-33-E	API: 30-025-****	





## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME) Barlow 34 Fed Com #504H

ОН

Plan: Plan #0.1 RT

## **Standard Planning Report**

14 July, 2020



**Planning Report** 

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.14 EOG Resources - Midland Lea County, NM (NAD 83 NME) Barlow 34 Fed Com #504H OH Plan #0.1 RT				TVD Refer MD Refere North Ref	Local Co-ordinate Reference:Well #504HTVD Reference:KB = 25' @ 3324.0usftMD Reference:KB = 25' @ 3324.0usftNorth Reference:GridSurvey Calculation Method:Minimum Curvature				
Project	Lea Co	unty, NM (NAD	83 NME)							
Map System: Geo Datum: Map Zone:	US State North Am	Plane 1983 herican Datum kico Eastern Zo	1983		System Dat	um:	Me	ean Sea Level		
Site	Barlow	34 Fed Com								
Site Position: From: Position Uncertainty	Map v:		North Eastir ) usft Slot R	-		,974.00 usft ,981.00 usft 13-3/16 "	Latitude: Longitude: Grid Converg	jence:		32.0010774°N 103.5667130°W 0.41 °
Well	#504H									
Well Position Position Uncertainty	+N/-S +E/-W	2,100	.0 usft Ea	orthing: isting: ellhead Elevat	ion:	364,970.00 781,081.00	usft Lor	itude: ngitude: ound Level:		32.0010253°N 103.5599392°W 3,299.0 usft
	011									
Wellbore	OH									
Magnetics	Мо	del Name	Sampl	e Date	Declina (°)	tion	Dip A (°	-		Strength nT)
		IGRF2020		7/13/2020		6.63		59.73	47,4	59.78378720
Design	Plan #0	.1 RT								
Audit Notes:										
Version:			Phas	e: F	PLAN	Tie	On Depth:		0.0	
Vertical Section:		D	epth From (T	/D)	+N/-S	+E	/-W	Dir	rection	
			(usft)		(usft)	•	sft)		(°)	
			0.0		0.0	0	.0	3	53.11	
Plan Survey Tool Pr Depth From (usft) 1 0.0	Depth (ust	1 To	7/14/2020 <b>(Wellbore)</b> .1 RT (OH)		Tool Name EOG MWD+IF MWD + IFR1	R1	Remarks			
Plan Sections										
	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0 164.6 10,274.8 10,439.4 11,189.4	0.00 3.29 3.29 0.00 90.00	0.00 246.74 246.74 0.00 359.61	0.0 164.5 10,258.0 10,422.5 10,900.0	0.0 -1.9 -231.1 -233.0 244.4	0.0 -4.3 -537.7 -542.0 -545.3	0.00 2.00 0.00 2.00 12.00	0.00 2.00 0.00 -2.00 12.00	0.00 0.00 0.00 0.00 -0.05	0.00 246.74 0.00 180.00 359.61	KOP(Barlow 34 Fed (
13,181.0 13,181.5 15,722.0	90.00 90.00	359.61 359.59	10,900.0 10,900.0	2,236.0 2,236.6	-559.0 -559.0	0.00 2.00	0.00 0.18	0.00 -1.99		Fed Perf 1(Barlow 34

7/14/2020 10:14:50AM

Released to Imaging: 6/25/2021 11:48:18 AM



**Planning Report** 

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3324.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3324.0usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#504H	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	2.00	246.74	100.0	-0.7	-1.6	-0.5	2.00	2.00	0.00
164.6	3.29	246.74	164.5	-1.9	-4.3	-1.3	2.00	2.00	0.00
200.0	3.29	246.74	199.9	-2.7	-6.2	-1.9	0.00	0.00	0.00
300.0	3.29	246.74	299.7	-4.9	-11.5	-3.5	0.00	0.00	0.00
400.0	3.29	246.74	399.5	-7.2	-16.8	-5.1	0.00	0.00	0.00
500.0	3.29	246.74	499.4	-9.5	-22.0	-6.8	0.00	0.00	0.00
600.0	3.29	246.74	599.2	-11.7	-27.3	-8.4	0.00	0.00	0.00
700.0	3.29	246.74	699.0	-14.0	-32.6	-10.0	0.00	0.00	0.00
800.0	3.29	246.74	798.9	-16.3	-37.9	-11.6	0.00	0.00	0.00
900.0	3.29	246.74	898.7	-18.5	-43.1	-13.2	0.00	0.00	0.00
1,000.0	3.29	246.74	998.5	-20.8	-48.4	-14.9	0.00	0.00	0.00
1,100.0	3.29	246.74	1,098.4	-23.1	-53.7	-16.5	0.00	0.00	0.00
1,200.0	3.29	246.74	1,198.2	-25.3	-59.0	-18.1	0.00	0.00	0.00
1,300.0	3.29	246.74	1,298.0	-27.6	-64.2	-19.7	0.00	0.00	0.00
1,400.0	3.29	246.74	1,397.9	-29.9	-69.5	-21.3	0.00	0.00	0.00
1,500.0	3.29	246.74	1,497.7	-32.1	-74.8	-22.9	0.00	0.00	0.00
1,600.0	3.29	246.74	1,597.5	-34.4	-80.1	-24.6	0.00	0.00	0.00
1,700.0	3.29	246.74	1,697.4	-36.7	-85.3	-26.2	0.00	0.00	0.00
1,800.0	3.29	246.74	1,797.2	-39.0	-90.6	-27.8	0.00	0.00	0.00
1,900.0	3.29	246.74	1,897.0	-41.2	-95.9	-29.4	0.00	0.00	0.00
2,000.0	3.29	246.74	1,996.9	-43.5	-101.2	-29.4	0.00	0.00	0.00
	3.29	246.74	,		-101.2		0.00		0.00
2,100.0			2,096.7	-45.8		-32.7		0.00	
2,200.0	3.29	246.74	2,196.6	-48.0	-111.7	-34.3	0.00	0.00	0.00
2,300.0	3.29	246.74	2,296.4	-50.3	-117.0	-35.9	0.00	0.00	0.00
2,400.0	3.29	246.74	2,396.2	-52.6	-122.3	-37.5	0.00	0.00	0.00
2,500.0	3.29	246.74	2,496.1	-54.8	-127.5	-39.1	0.00	0.00	0.00
2,600.0	3.29	246.74	2,595.9	-57.1	-132.8	-40.8	0.00	0.00	0.00
2,700.0	3.29	246.74	2,695.7	-59.4	-138.1	-42.4	0.00	0.00	0.00
2,800.0	3.29	246.74	2,795.6	-61.6	-143.4	-44.0	0.00	0.00	0.00
2,900.0	3.29	246.74	2,895.4	-63.9	-148.6	-45.6	0.00	0.00	0.00
3,000.0	3.29	246.74	2,995.2	-66.2	-153.9	-47.2	0.00	0.00	0.00
3,100.0	3.29	246.74	3,095.1	-68.4	-159.2	-48.8	0.00	0.00	0.00
3,200.0	3.29	246.74	3,194.9	-70.7	-164.5	-50.5	0.00	0.00	0.00
3,300.0	3.29	246.74	3,294.7	-73.0	-169.7	-52.1	0.00	0.00	0.00
3,400.0	3.29	246.74	3,394.6	-75.2	-175.0	-53.7	0.00	0.00	0.00
3,500.0	3.29	246.74	3,494.4	-77.5	-180.3	-55.3	0.00	0.00	0.00
3,600.0	3.29	246.74	3,594.2	-79.8	-185.6	-56.9	0.00	0.00	0.00
3,700.0	3.29	246.74	3,694.1	-82.0	-190.8	-58.6	0.00	0.00	0.00
3,800.0	3.29	246.74	3,793.9	-84.3	-196.1	-60.2	0.00	0.00	0.00
3,900.0		246.74	3,893.7	-86.6	-201.4	-61.8	0.00	0.00	0.00
,	3.29								
4,000.0	3.29	246.74	3,993.6	-88.8	-206.7	-63.4	0.00	0.00	0.00
4,100.0	3.29	246.74	4,093.4	-91.1	-211.9	-65.0	0.00	0.00	0.00
4,200.0	3.29	246.74	4,193.3	-93.4	-217.2	-66.7	0.00	0.00	0.00
4,300.0	3.29	246.74	4,293.1	-95.6	-222.5	-68.3	0.00	0.00	0.00
4,400.0	3.29	246.74	4,392.9	-97.9	-227.8	-69.9	0.00	0.00	0.00
4,500.0	3.29	246.74	4,492.8	-100.2	-233.0	-71.5	0.00	0.00	0.00
4,600.0	3.29	246.74	4,592.6	-102.4	-238.3	-73.1	0.00	0.00	0.00
4,700.0	3.29	246.74	4,692.4	-104.7	-243.6	-74.7	0.00	0.00	0.00
4,800.0	3.29	246.74	4,792.3	-107.0	-248.9	-76.4	0.00	0.00	0.00
4,900.0	3.29	246.74	4,892.1	-109.3	-254.1	-78.0	0.00	0.00	0.00
5,000.0	3.29	246.74	4,991.9	-111.5	-259.4	-79.6	0.00	0.00	0.00
5,100.0	3.29	246.74	5,091.8	-113.8	-264.7	-81.2	0.00	0.00	0.00
5,200.0	3.29	246.74	5,191.6	-116.1	-270.0	-82.8	0.00	0.00	0.00
 .,=			-,						

7/14/2020 10:14:50AM

Page 3

COMPASS 5000.15 Build 91

.



**Planning Report** 

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3324.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3324.0usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#504H	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)
5,300.0	3.29	246.74	5,291.4	-118.3	-275.2	-84.5	0.00	0.00	0.00
5,400.0	3.29	246.74	5,391.3	-120.6	-280.5	-86.1	0.00	0.00	0.00
5,500.0	3.29	246.74	5,491.1	-122.9	-285.8	-87.7	0.00	0.00	0.00
5,600.0	3.29	246.74	5,590.9	-125.1	-291.1	-89.3	0.00	0.00	0.00
	3.29	246.74					0.00		0.00
5,700.0			5,690.8	-127.4	-296.3	-90.9		0.00	
5,800.0	3.29	246.74	5,790.6	-129.7	-301.6	-92.6	0.00	0.00	0.00
5,900.0	3.29	246.74	5,890.4	-131.9	-306.9	-94.2	0.00	0.00	0.00
6,000.0	3.29	246.74	5,990.3	-134.2	-312.2	-95.8	0.00	0.00	0.00
6,100.0	3.29	246.74	6,090.1	-136.5	-317.4	-97.4	0.00	0.00	0.00
6,200.0	3.29	246.74	6,190.0	-138.7	-322.7	-99.0	0.00	0.00	0.00
6,300.0	3.29	246.74	6,289.8	-141.0	-328.0	-100.6	0.00	0.00	0.00
6,400.0	3.29	246.74	6,389.6	-143.3	-333.3	-102.3	0.00	0.00	0.00
6,500.0	3.29	246.74	6,489.5	-145.5	-338.5	-103.9	0.00	0.00	0.00
6,600.0	3.29	246.74	6,589.3	-147.8	-343.8	-105.5	0.00	0.00	0.00
6,700.0	3.29	246.74	6,689.1	-150.1	-349.1	-107.1	0.00	0.00	0.00
6,800.0	3.29	246.74	6,789.0	-152.3	-354.4	-108.7	0.00	0.00	0.00
6,900.0	3.29	246.74	6,888.8	-154.6	-359.6	-110.4	0.00	0.00	0.00
7,000.0	3.29	246.74	6,988.6	-156.9	-364.9	-112.0	0.00	0.00	0.00
7,100.0	3.29	246.74	7,088.5	-159.1	-370.2	-113.6	0.00	0.00	0.00
7,200.0	3.29	246.74	7,188.3	-161.4	-375.5	-115.2	0.00	0.00	0.00
7,300.0	3.29	246.74	7,288.1	-163.7	-380.7	-116.8	0.00	0.00	0.00
7,400.0	3.29	246.74	7,388.0	-165.9	-386.0	-118.5	0.00	0.00	0.00
,	3.29	246.74					0.00	0.00	0.00
7,500.0			7,487.8	-168.2	-391.3	-120.1			
7,600.0	3.29	246.74	7,587.6	-170.5	-396.6	-121.7	0.00	0.00	0.00
7,700.0	3.29	246.74	7,687.5	-172.7	-401.8	-123.3	0.00	0.00	0.00
7,800.0	3.29	246.74	7,787.3	-175.0	-407.1	-124.9	0.00	0.00	0.00
7,900.0	3.29	246.74	7,887.1	-177.3	-412.4	-126.6	0.00	0.00	0.00
8,000.0	3.29	246.74	7,987.0	-179.5	-417.7	-128.2	0.00	0.00	0.00
8,100.0	3.29	246.74	8,086.8	-181.8	-422.9	-129.8	0.00	0.00	0.00
8,200.0	3.29	246.74	8,186.7	-184.1	-428.2	-131.4	0.00	0.00	0.00
8,300.0	3.29	246.74	8,286.5	-186.4	-420.2	-133.0	0.00	0.00	0.00
0,500.0	5.29	240.74	0,200.5	-100.4	-400.0	-155.0	0.00	0.00	
8,400.0	3.29	246.74	8,386.3	-188.6	-438.8	-134.6	0.00	0.00	0.00
8,500.0	3.29	246.74	8,486.2	-190.9	-444.0	-136.3	0.00	0.00	0.00
8,600.0	3.29	246.74	8,586.0	-193.2	-449.3	-137.9	0.00	0.00	0.00
8,700.0	3.29	246.74	8,685.8	-195.4	-454.6	-139.5	0.00	0.00	0.00
8,800.0	3.29	246.74	8,785.7	-197.7	-459.9	-141.1	0.00	0.00	0.00
8,900.0	3.29	246.74	8,885.5	-200.0	-465.1	-142.7	0.00	0.00	0.00
9,000.0	3.29	246.74	8,985.3	-202.2	-470.4	-144.4	0.00	0.00	0.00
9,100.0	3.29	246.74	9,085.2	-204.5	-475.7	-146.0	0.00	0.00	0.00
9,200.0	3.29	246.74	9,185.0	-206.8	-481.0	-147.6	0.00	0.00	0.00
9,300.0	3.29	246.74	9,284.8	-209.0	-486.2	-149.2	0.00	0.00	0.00
9,400.0	2 20	246.74	9,384.7	011 0	-491.5	150.0	0.00	0.00	0.00
	3.29			-211.3		-150.8	0.00		0.00
9,500.0	3.29	246.74	9,484.5	-213.6	-496.8	-152.5	0.00	0.00	0.00
9,600.0	3.29	246.74	9,584.3	-215.8	-502.1	-154.1	0.00	0.00	0.00
9,700.0	3.29	246.74	9,684.2	-218.1	-507.3	-155.7	0.00	0.00	0.00
9,800.0	3.29	246.74	9,784.0	-220.4	-512.6	-157.3	0.00	0.00	0.00
9,900.0	3.29	246.74	9,883.8	-222.6	-517.9	-158.9	0.00	0.00	0.00
10,000.0	3.29	246.74	9,983.7	-224.9	-523.2	-160.5	0.00	0.00	0.00
10,100.0	3.29	246.74	10,083.5	-224.9	-528.4	-162.2	0.00	0.00	0.00
10,200.0	3.29	246.74	10,083.5	-227.2	-528.4	-163.8	0.00	0.00	0.00
10,274.8	3.29	246.74	10,258.0	-231.1	-537.7	-165.0	0.00	0.00	0.00
10,300.0	2.79	246.74	10,283.2	-231.7	-538.9	-165.4	2.00	-2.00	0.00
	0.79	246.74	10,383.1	-232.9	-541.8	-166.2	2.00	-2.00	0.00
10,400.0	0.79	240.74							

7/14/2020 10:14:50AM

Page 4

COMPASS 5000.15 Build 91

.



**Planning Report** 

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3324.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3324.0usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#504H	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)
10,450.0	1.28	359.61	10,433.1	-232.9	-542.0	-166.2	12.00	12.00	0.0
10,475.0	4.28	359.61	10,458.1	-231.7	-542.0	-165.0	12.00	12.00	0.0
10,500.0	7.28	359.61	10,483.0	-229.2	-542.0	-162.5	12.00	12.00	0.0
10,525.0	10.28	359.61	10,507.7	-225.3	-542.1	-158.7	12.00	12.00	0.0
10,550.0	13.28	359.61	10,532.2	-220.2	-542.1	-153.6	12.00	12.00	0.0
10,575.0	16.28	359.61	10,556.3	-213.9	-542.1	-147.3	12.00	12.00	0.0
10,600.0	19.28	359.61	10,580.1	-206.2	-542.2	-139.7	12.00	12.00	0.0
10,625.0	22.28	359.61	10,603.5	-197.4	-542.2	-130.9	12.00	12.00	0.0
10,650.0	25.28	359.61	10,626.4	-187.3	-542.3	-120.9	12.00	12.00	0.0
10,675.0	28.28	359.61	10,648.7	-176.0	-542.4	-109.7	12.00	12.00	0.0
10,700.0	31.28	359.61	10,670.4	-163.6	-542.5	-97.4	12.00	12.00	0.0
10,725.0	34.28	359.61	10,691.4	-150.1	-542.6	-83.9	12.00	12.00	0.0
10,750.0	37.28	359.61	10,711.7	-135.5	-542.7	-69.4	12.00	12.00	0.0
10,775.0	40.28	359.61	10,731.2	-119.8	-542.8	-53.9	12.00	12.00	0.0
10,775.0	43.28	359.61	10,749.8	-103.2	-542.9	-37.3	12.00	12.00	0.0
									0.0
10,825.0 10,850.0	46.28 49.28	359.61 359.61	10,767.6 10,784.4	-85.6 -67.0	-543.0 -543.1	-19.8 -1.4	12.00 12.00	12.00 12.00	0.0
									0.0
10,875.0	52.28	359.61	10,800.2	-47.7	-543.3	17.8	12.00	12.00	
10,900.0	55.28	359.61	10,814.9	-27.5	-543.4	37.9	12.00	12.00	0.0
10,925.0	58.28	359.61	10,828.6	-6.6	-543.6	58.6	12.00	12.00	0.0
10,950.0	61.28	359.61	10,841.2	15.0	-543.7	80.1	12.00	12.00	0.0
10,975.0	64.28	359.61	10,852.6	37.2	-543.9	102.2	12.00	12.00	0.0
11,000.0	67.28	359.61	10,862.9	60.0	-544.0	124.8	12.00	12.00	0.0
11,025.0	70.28	359.61	10,872.0	83.3	-544.2	148.0	12.00	12.00	0.0
11,050.0	73.28	359.61	10,879.8	107.1	-544.3	171.6	12.00	12.00	0.0
11,075.0	76.28	359.61	10,886.3	131.2	-544.5	195.5	12.00	12.00	0.0
11,100.0	79.28	359.61	10,891.6	155.6	-544.7	219.8	12.00	12.00	0.0
11,125.0	82.28	359.61	10,895.6	180.3	-544.8	244.3	12.00	12.00	0.0
11,150.0	85.28	359.61	10,898.3	205.1	-545.0	269.0	12.00	12.00	0.0
11,175.0	88.28	359.61	10,899.7	230.1	-545.2	293.8	12.00	12.00	0.0
11,189.4	90.00	359.61	10,900.0	244.4	-545.3	308.1	12.00	12.00	0.0
11,200.0	90.00	359.61	10,900.0	255.1	-545.4	318.6	0.00	0.00	0.0
11,300.0	90.00	359.61	10,900.0	355.1	-546.0	418.0	0.00	0.00	0.0
11,400.0	90.00	359.61	10,900.0	455.1	-546.7	517.4	0.00	0.00	0.0
11,500.0	90.00	359.61	10,900.0	555.1	-547.4	616.7	0.00	0.00	0.0
11,600.0	90.00	359.61	10,900.0	655.1	-548.1	716.1	0.00	0.00	0.0
11,700.0	90.00	359.61	10,900.0	755.1	-548.8	815.4	0.00	0.00	0.0
11,800.0	90.00	359.61	10,900.0	855.1	-549.5	914.8	0.00	0.00	0.0
11,900.0	90.00	359.61	10,900.0	955.1	-549.5	1,014.2	0.00	0.00	0.0
12,000.0		359.61	10,900.0	955.1 1,055.1			0.00	0.00	0.0
,	90.00		,		-550.9	1,113.5			
12,100.0 12,200.0	90.00	359.61	10,900.0 10,900.0	1,155.1	-551.6	1,212.9 1,312.2	0.00 0.00	0.00	0.0 0.0
	90.00	359.61		1,255.1	-552.2			0.00	
12,300.0	90.00	359.61	10,900.0	1,355.1	-552.9	1,411.6	0.00	0.00	0.0
12,400.0	90.00	359.61	10,900.0	1,455.1	-553.6	1,511.0	0.00	0.00	0.0
12,500.0	90.00	359.61	10,900.0	1,555.1	-554.3	1,610.3	0.00	0.00	0.0
12,600.0	90.00	359.61	10,900.0	1,655.1	-555.0	1,709.7	0.00	0.00	0.0
12,700.0	90.00	359.61	10,900.0	1,755.1	-555.7	1,809.0	0.00	0.00	0.0
12,800.0	90.00	359.61	10,900.0	1,855.1	-556.4	1,908.4	0.00	0.00	0.0
12,900.0	90.00	359.61	10,900.0	1,955.1	-557.1	2,007.7	0.00	0.00	0.0
13,000.0	90.00	359.61	10,900.0	2,055.0	-557.8	2,107.1	0.00	0.00	0.0
13,100.0	90.00	359.61	10,900.0	2,155.0	-558.4	2,206.5	0.00	0.00	0.0
13,181.0	90.00	359.61	10,900.0	2,236.0	-559.0	2,286.9	0.00	0.00	0.0
13,181.5	90.00	359.59	10,900.0	2,236.6	-559.0	2,287.5	2.00	0.18	-1.9
13,200.0	90.00	359.59	10,900.0	2,255.0	-559.1	2,305.8	0.00	0.00	0.0

7/14/2020 10:14:50AM

Released to Imaging: 6/25/2021 11:48:18 AM

.



**Planning Report** 

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3324.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3324.0usft
Site:	Barlow 34 Fed Com	North Reference:	Grid
Well:	#504H	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)
13,300.0 13,400.0 13,500.0	90.00 90.00 90.00	359.59 359.59 359.59	10,900.0 10,900.0 10,900.0	2,355.0 2,455.0 2,555.0	-559.8 -560.6 -561.3	2,405.2 2,504.5 2,603.9	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
13,600.0 13,700.0 13,800.0 13,900.0 14,000.0	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59	10,900.0 10,900.0 10,900.0 10,900.0 10,900.0	2,655.0 2,755.0 2,855.0 2,955.0 3,055.0	-562.0 -562.7 -563.4 -564.1 -564.8	2,703.3 2,802.6 2,902.0 3,001.3 3,100.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,100.0 14,200.0 14,300.0 14,400.0 14,500.0	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59	10,900.0 10,900.0 10,900.0 10,900.0 10,900.0	3,155.0 3,255.0 3,355.0 3,455.0 3,555.0	-565.5 -566.2 -566.9 -567.6 -568.3	3,200.1 3,299.4 3,398.8 3,498.2 3,597.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,600.0 14,700.0 14,800.0 14,900.0 15,000.0	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59	10,900.0 10,900.0 10,900.0 10,900.0 10,900.0	3,655.0 3,755.0 3,855.0 3,955.0 4,055.0	-569.1 -569.8 -570.5 -571.2 -571.9	3,696.9 3,796.2 3,895.6 3,995.0 4,094.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,100.0 15,200.0 15,300.0 15,400.0 15,500.0	90.00 90.00 90.00 90.00 90.00	359.59 359.59 359.59 359.59 359.59 359.59	10,900.0 10,900.0 10,900.0 10,900.0 10,900.0	4,155.0 4,255.0 4,355.0 4,455.0 4,555.0	-572.6 -573.3 -574.0 -574.7 -575.4	4,193.7 4,293.0 4,392.4 4,491.8 4,591.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,600.0 15,700.0 15,722.0	90.00 90.00 90.00	359.59 359.59 359.59	10,900.0 10,900.0 10,900.0	4,655.0 4,755.0 4,777.0	-576.1 -576.8 -577.0	4,690.5 4,789.8 4,811.7	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

#### Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Barlow 34 Fed Cor - plan hits target cente - Point	0.00 er	0.00	10,422.5	-233.0	-542.0	364,737.00	780,539.00	32.0003955°N	103.5616929°W
FTP(Barlow 34 Fed Con - plan misses target co - Point	0.00 enter by 0.3u	0.00 sft at 10659	10,635.2 .8usft MD (1	-183.0 0635.2 TVD, -	-542.0 183.0 N, -542	364,787.00 .3 E)	780,539.00	32.0005329°N	103.5616917°W
PBHL(Barlow 34 Fed Cc - plan hits target cente - Point	0.00 er	0.00	10,900.0	4,777.0	-577.0	369,747.00	780,504.00	32.0141674°N	103.5616904°W
Fed Perf 1(Barlow 34 Fe - plan hits target cente - Point	0.00 er	0.00	10,900.0	2,236.0	-559.0	367,206.00	780,522.00	32.0071825°N	103.5616909°W

Released to Imaging: 6/25/2021 11:48:18 AM

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	EOG RESOURCES, INC.
LEASE NO.:	NMNM02965A
WELL NAME & NO.:	BARLOW FED COM 501H – 506H
LOCATION:	Section 34, T.26 S., R.33 E., NMPM
COUNTY:	LEA County, New Mexico

### COA

H2S	O Yes	No	
Potash	None	O Secretary	© R-111-P
Cave/Karst Potential	O Low	Medium	O High
Variance	O None	Flex Hose	O 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

 Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

#### **B.** CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **900** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{8}$ <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 minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- In <u>Medium/High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

#### C. PRESSURE CONTROL

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

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

### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

### JJP04072021

## 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) 393-3612

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

Page 3 of 7

installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
  - Notify the BLM when moving in and removing the Spudder Rig.
  - Notify the BLM when moving in the 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.
- <u>Wait on cement (WOC) for Potash Areas:</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 for all cement blends, 2) until cement has been in place at least <u>24 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.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for

details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

#### B. PRESSURE CONTROL

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

Page 5 of 7

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

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

## Hydrogen Sulfide Plan Summary

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

Breathing apparatus:

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

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

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

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

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

#### Mud program:

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

#### ■ Metallurgy:

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

■ Communication:

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

.

### EOG RESOURCES, INC. BARLOW 34 FED COM #504H

Lea County Sheriff's Department         (575) 396-3611           Rod Coffman         Fire Department:           Carlsbad         (575) 885-3125           Artesia         (575) 746-5050           Hospitals:         (575) 748-7333           Hobbs         (575) 748-7333           Hobbs         (575) 748-7318           Pighway Department         (575) 748-718           Highway Department         (575) 748-718           U.S. Dept. of Labor         (575) 887-1174           EOG Resources, Inc.         EOG/Midland           EOG / Midland         Office (432) 686-3600           Company Drilling Consultants:         EOG           Jett Dueitt         Cell (432) 230-4840           Blake Burney         Cell (432) 686-3609           Cell (432) 686-3609         Cell (432) 686-3609           Cell (432) 686-3609         Cell (432) 686-3609           Cell (432) 686-3751         Cell (817) 480-1167           Jason Townsend         Office (432) 686-3751           M&P Drilling Superintendent         Cell (210) 776-5131           H&P Drilling Rig         Office (432) 630-5757           H&P Drilling Rig         Cell (817) 760-6374           H&P Drilling Rig         Cell (817) 760-6374           H&P Drilling Rig	PUBLIC SAFETY:	2150	911 or
Fire Department:Carlsbad(575) 885-3125Artesia(575) 746-5050Hospitals:CarlsbadCarlsbad(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 748-3133Hobbs(575) 748-9718Highway Department(575) 887-2121New Mexico Oil Conservation(575) 476-3440U.S. Dept. of Labor(575) 887-1174EOG Resources, Inc.EEOG / MidlandOffice (432) 686-3600Company Drilling Consultants:EJett DueittCell (432) 230-4840Blake BurneyCell (432) 686-3609Cell (432) 848-9209Cell (432) 884-9209Cell (817) 480-1167Cell (817) 480-1167Drilling ManagerCell (210) 776-5131H&P DrillingOffice (432) 686-3751Coll Dusher:Cell (817) 760-6374H&P Drilling RigCell (817) 760-6374Had GarrettSafetyBrian Chandler (HSE Manager)Office (432) 686-3695	Lea County Sheriff's Department		(575) 396-3611
Carlsbad(575) 885-3125Artesia(575) 746-5050Hospitals:(575) 746-5050Carlsbad(575) 748-3333Hobbs(575) 748-3333Hobbs(575) 392-1979Dept. of Public Safety/Carlsbad(575) 748-9718Highway Department(575) 885-3281New Mexico Oil Conservation(575) 885-3281New Mexico Oil Conservation(575) 887-1174EOG Resources, Inc.EOG / MidlandEOG / MidlandOffice (432) 686-3600Company Drilling Consultants:	Rod Coffman		
Artesia         (575) 746-5050           Hospitals:         Carlsbad         (575) 887-4121           Artesia         (575) 748-3333         Hobbs         (575) 392-1979           Dept. of Public Safety/Carlsbad         (575) 748-3733         Hobbs         (575) 392-1979           Dept. of Public Safety/Carlsbad         (575) 748-9718         Highway Department         (575) 885-3281           New Mexico Oil Conservation         (575) 887-1174         EOG Resources, Inc.         EOG / Midland         Office (432) 686-3600           Company Drilling Consultants:	Fire Department:		
Hospitals:(575) 887-4121 (575) 748-3333 (575) 748-3333 (575) 748-3333 (575) 748-3333 Hobbs(575) 748-3333 (575) 748-9718 Highway DepartmentDept. of Public Safety/Carlsbad(575) 748-9718 (575) 885-3281 New Mexico Oil Conservation(575) 748-9718 (575) 885-3281 New Mexico Oil ConservationNew Mexico Oil Conservation(575) 748-9718 (575) 887-1174EOG Resources, Inc.EOG / MidlandOffice (432) 686-3600Company Drilling Consultants:Jett DueittCellBlake BurneyOffice (432) 686-3609 Cell (432) 894-1256Drilling EngineerCellSteve MunsellOffice (432) 686-3609 Cell (432) 894-1256Drilling SuperintendentCell (817) 480-1167Jason TownsendOffice (432) 563-5757 R&P 415 Drilling RigH&P Drilling H&P Drilling RigOffice (432) 563-5757 Rig (432) 230-4840Tool Pusher:Johnathan Craig Brian Chandler (HSE Manager)Safety Brian Chandler (HSE Manager)Office (432) 686-3695	Carlsbad		(575) 885-3125
$\begin{array}{c} Carlsbad \\ Artesia \\ Artesia \\ (575) 887-4121 \\ Artesia \\ (575) 748-3333 \\ Hobbs \\ (575) 392-1979 \\ C575) 392-1979 \\ Dept. of Public Safety/Carlsbad \\ (575) 748-9718 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 885-3281 \\ (575) 887-1174 \\ \hline \end{array}$	Artesia		(575) 746-5050
Artesia $(575)$ 748-3333 HobbsHobbs $(575)$ 748-9718Highway Department $(575)$ 748-9718Highway Department $(575)$ 748-9718Highway Department $(575)$ 748-9718New Mexico Oil Conservation $(575)$ 748-9718U.S. Dept. of Labor $(575)$ 748-9718EOG Resources, Inc. $(575)$ 785-1174EOG / MidlandOffice (432) 686-3600Company Drilling Consultants: $(575)$ 748-3440Jett DueittCell (432) 230-4840Blake BurneyCell (432) 230-4840Drilling Engineer $Cell (432) 686-3609$ Steve MunsellOffice (432) 686-3751Corpling Manager $Cell (817)$ 780-1167Drilling Superintendent $Cell (210)$ 776-5131H&P DrillingOffice (432) 563-5757H&P Drilling RigOffice (432) 563-5757H&P Drilling RigCell (817) 760-6374Tool Pusher: $Cell (817)$ 760-6374Johnathan CraigCell (817) 760-6374Brian Chandler (HSE Manager)Office (432) 686-3695	Hospitals:		
Hobbs $(575)$ 392-1979Dept. of Public Safety/Carlsbad $(575)$ 748-9718Highway Department $(575)$ 748-9718Highway Department $(575)$ 876-3440U.S. Dept. of Labor $(575)$ 876-3440U.S. Dept. of Labor $(575)$ 887-1174EOG Resources, Inc.EOG / MidlandOffice (432) 686-3600Company Drilling Consultants:Jett DueittCellBake BurneyCellOffice (432) 686-3609Company Drilling Consultants:Jett DueittBake BurneyCellOffice (432) 686-3609Cell (432) 686-3609Cell (432) 686-3609Cell (432) 686-3751Cell (817) 480-1167Drilling ManagerAj DachOffice (432) 686-3751Cell(817) 760-6374Jason TownsendOffice (432) 563-5757H&P DrillingOffice (432) 563-5757H&P Drilling RigOffice (432) 563-5757H&P Drilling RigCell (817) 760-6374Brad GarrettSafetyBrian Chandler (HSE Manager)Office (432) 686-3695	Carlsbad		· · ·
Dept. of Public Safety/Carlsbad $(575)$ 748-9718Highway Department $(575)$ 748-9718Highway Department $(575)$ 885-3281New Mexico Oil Conservation $(575)$ 476-3440U.S. Dept. of Labor $(575)$ 476-3440U.S. Dept. of Labor $(575)$ 476-3440EOG Resources, Inc. $(575)$ 887-1174EOG Resources, Inc. $(575)$ 748-9718EOG / MidlandOffice (432) 686-3600Company Drilling Consultants: $(575)$ 748-9718Jett DucittCell (432) 230-4840Blake BurneyOffice (432) 686-3609Drilling Engineer $Cell (432)$ 686-3609Steve MunsellOffice (432) 686-3751Cell (432) 686-3751Cell (817) 480-1167Drilling Superintendent $Cell (210)$ 776-5131H&P DrillingOffice (432) 563-5757H&P Drilling RigOffice (432) 563-5757H&P 415 Drilling RigCell (817) 760-6374Tool Pusher: $Cell (817)$ 760-6374Johnathan CraigCell (817) 760-6374Brian Chandler (HSE Manager)Office (432) 686-3695			(575) 748-3333
Highway Department $(575) 885-3281$ New Mexico Oil Conservation $(575) 476-3440$ U.S. Dept. of Labor $(575) 887-1174$ EOG Resources, Inc.EOG / MidlandOffice (432) 686-3600Company Drilling Consultants:Jett DueittCell (432) 230-4840Blake BurneyDilling EngineerSteve MunsellOffice (432) 686-3609Cell (432) 894-1256Drilling ManagerAj DachOffice (432) 686-3751Cell (817) 480-1167Drilling SuperintendentJason TownsendOffice (432) 563-5757H&P DrillingOffice (432) 563-5757H&P Drilling RigCell (817) 760-6374Tool Pusher:Image: Cell (817) 760-6374Johnathan CraigCell (817) 760-6374SafetyImage: Cell (812) 686-3695	Hobbs		(575) 392-1979
New Mexico Oil Conservation         (575) 476-3440           U.S. Dept. of Labor         (575) 887-1174           EOG Resources, Inc.         EOG / Midland           EOG / Midland         Office (432) 686-3600           Company Drilling Consultants:	Dept. of Public Safety/Carlsbad		(575) 748-9718
U.S. Dept. of Labor       (575) 887-1174         EOG Resources, Inc.       EOG / Midland         EOG / Midland       Office (432) 686-3600         Company Drilling Consultants:	Highway Department		(575) 885-3281
EOG Resources, Inc. EOG / Midland Office (432) 686-3600 Company Drilling Consultants: Jett Dueitt Cell (432) 230-4840 Blake Burney Drilling Engineer Steve Munsell Office (432) 686-3609 Cell (432) 894-1256 Drilling Manager Aj Dach Office (432) 686-3751 Cell (817) 480-1167 Drilling Superintendent Jason Townsend Office (432) 848-9209 Cell (210) 776-5131 H&P Drilling H&P Drilling Rig Office (432) 563-5757 H&P 415 Drilling Rig Rig (432) 230-4840 Tool Pusher: Johnathan Craig Brad Garrett Cell (817) 760-6374 Brad Garrett	New Mexico Oil Conservation		(575) 476-3440
EOG / MidlandOffice (432) 686-3600Company Drilling Consultants:Jett DueittCell (432) 230-4840Blake BurneyCell (432) 230-4840Drilling EngineerSteve MunsellOffice (432) 686-3609Cell (432) 894-1256Drilling ManagerAj DachOffice (432) 686-3751Cell (817) 480-1167Drilling SuperintendentJason TownsendOffice (432) 848-9209Cell (210) 776-5131H&P DrillingH&P Drilling RigTool Pusher:Johnathan CraigBrad GarrettSafetyBrian Chandler (HSE Manager)Office (432) 686-3695	U.S. Dept. of Labor		(575) 887-1174
Company Drilling Consultants:Jett DueittCell (432) 230-4840Blake BurneyCell (432) 686-3609Drilling EngineerOffice (432) 686-3609Steve MunsellOffice (432) 894-1256Drilling ManagerCell (432) 894-1256Aj DachOffice (432) 686-3751Cell (817) 480-1167Cell (817) 480-1167Drilling SuperintendentCell (210) 776-5131H&P DrillingOffice (432) 563-5757H&P DrillingOffice (432) 563-5757H&P 415 Drilling RigOffice (432) 230-4840Tool Pusher:Cell (817) 760-6374Johnathan Craig Brad GarrettCell (817) 760-6374SafetySafetyBrian Chandler (HSE Manager)Office (432) 686-3695	EOG Resources, Inc.		
Jett Ducitt         Cell         (432) 230-4840           Blake Burney         Drilling Engineer         Steve Munsell         Office         (432) 686-3609           Steve Munsell         Office         (432) 894-1256         Office         (432) 894-1256           Drilling Manager         Cell         (432) 686-3751         Cell         (817) 480-1167           Drilling Superintendent         Ice         (817) 480-1167         Cell         (210) 776-5131           H&P Drilling         Office         (432) 563-5757         Kig         (432) 230-4840           H&P Drilling         Office         (432) 230-4840         Office         (432) 230-4840           Tool Pusher:         Iohnathan Craig         Cell         (817) 760-6374         Safety           Brain Chandler (HSE Manager)         Office         (432) 686-3695         Safety	EOG / Midland	Office	(432) 686-3600
Jett Dueitt       Cell       (432) 230-4840         Blake Burney       Drilling Engineer         Steve Munsell       Office (432) 686-3609         Cell       (432) 894-1256         Drilling Manager       Cell         Aj Dach       Office (432) 686-3751         Drilling Superintendent       Cell         Jason Townsend       Office (432) 848-9209         Cell       (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P Drilling Rig       Office (432) 563-5757         H&P A15 Drilling Rig       Cell         Tool Pusher:       Johnathan Craig         Johnathan Craig       Cell         Brad Garrett       Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695	<b>Company Drilling Consultants:</b>		
Drilling Engineer         Steve Munsell       Office (432) 686-3609 Cell (432) 894-1256         Drilling Manager       Office (432) 686-3751 Cell (817) 480-1167         Aj Dach       Office (432) 686-3751 Cell (817) 480-1167         Drilling Superintendent       U         Jason Townsend       Office (432) 848-9209 Cell (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P Drilling Rig       Office (432) 563-5757         H&P 415 Drilling Rig       Office (432) 230-4840         Tool Pusher:       U         Johnathan Craig       Cell (817) 760-6374         Brad Garrett       Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695		Cell	(432) 230-4840
Steve Munsell       Office (432) 686-3609         Cell (432) 894-1256         Drilling Manager         Aj Dach       Office (432) 686-3751         Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695	Blake Burney		
Steve Munsell       Office (432) 686-3609         Cell (432) 894-1256         Drilling Manager         Aj Dach       Office (432) 686-3751         Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695	Drilling Engineer		
Drilling Manager           Aj Dach         Office (432) 686-3751 Cell (817) 480-1167           Drilling Superintendent         Cell (817) 480-1167           Jason Townsend         Office (432) 848-9209 Cell (210) 776-5131           H&P Drilling         Cell (210) 776-5131           H&P Drilling Rig         Office (432) 563-5757           H&P A15 Drilling Rig         Office (432) 230-4840           Tool Pusher:         Cell (817) 760-6374           Johnathan Craig         Cell (817) 760-6374           Brad Garrett         Office (432) 686-3695	Steve Munsell	Office	(432) 686-3609
Aj Dach       Office (432) 686-3751 Cell (817) 480-1167         Drilling Superintendent		Cell	(432) 894-1256
Cell (817) 480-1167         Drilling Superintendent         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695	Drilling Manager		
Drilling Superintendent       Office (432) 848-9209         Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131       Cell (210) 776-5131         H&P Drilling       Office (432) 563-5757         H&P 415 Drilling Rig       Office (432) 230-4840         Tool Pusher:       Safety         Johnathan Craig       Cell (817) 760-6374         Brian Chandler (HSE Manager)       Office (432) 686-3695	Aj Dach	Office	(432) 686-3751
Jason Townsend       Office (432) 848-9209         Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig         Office (432) 563-5757         H&P 415 Drilling Rig         Tool Pusher:         Johnathan Craig         Brad Garrett         Safety         Brian Chandler (HSE Manager)         Office (432) 686-3695		Cell	(817) 480-1167
Cell (210) 776-5131         H&P Drilling         H&P Drilling Rig       Office (432) 563-5757         H&P 415 Drilling Rig       Rig (432) 230-4840         Tool Pusher:         Johnathan Craig       Cell (817) 760-6374         Brad Garrett       Cell (817) 760-6374         Safety         Brian Chandler (HSE Manager)       Office (432) 686-3695	Drilling Superintendent		
H&P DrillingOffice (432) 563-5757H&P Drilling RigOffice (432) 230-4840Tool Pusher:RigJohnathan CraigCellBrad GarrettCellSafetySafetyBrian Chandler (HSE Manager)Office (432) 686-3695	Jason Townsend	Office	(432) 848-9209
H&P Drilling H&P 415 Drilling RigOffice (432) 563-5757 Rig (432) 230-4840Tool Pusher: Johnathan Craig Brad GarrettCell (817) 760-6374Safety Brian Chandler (HSE Manager)Office (432) 686-3695		Cell	(210) 776-5131
H&P 415 Drilling RigRig(432) 230-4840Tool Pusher:	H&P Drilling		
Tool Pusher:Johnathan Craig Brad GarrettSafety Brian Chandler (HSE Manager)Office (432) 686-3695	H&P Drilling	Office	(432) 563-5757
Johnathan Craig Brad GarrettCell (817) 760-6374Safety Brian Chandler (HSE Manager)Office (432) 686-3695	H&P 415 Drilling Rig	Rig	(432) 230-4840
Brad Garrett Safety Brian Chandler (HSE Manager) Office (432) 686-3695	Tool Pusher:		
SafetyBrian Chandler (HSE Manager)Office (432) 686-3695	Johnathan Craig	Cell	(817) 760-6374
Brian Chandler (HSE Manager)Office (432) 686-3695	-		
	Safety		
Cell (817) 239-0251	Brian Chandler (HSE Manager)	Office	(432) 686-3695
		Cell	(817) 239-0251

## **Emergency Assistance Telephone List**

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	27804
	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	6/25/2021
	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	6/25/2021

Page 27 of 27

Action 27804