Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM24490 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone APPALOOSA 18 FED COM [331512] 101H 2. Name of Operator 9. API Well No. 30-025-49976 [7377] EOG RESOURCES INCORPORATED 10. Field and Pool, or Exploratory [97900]51 3a. Address 3b. Phone No. (include area code) WC025 G09 S253309P;UPPER-WOLFCA 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002 (713) 651-7000 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 18/T25S/R34E/NMP At surface LOT 4 / 278 FSL / 1140 FWL / LAT 32.1240395 / LONG -103.513833 At proposed prod. zone LOT 3 / 2542 FSL / 330 FWL / LAT 32.1447587 / LONG -103.516644 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State LEA NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 278 feet location to nearest 478.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, FED: 9518 feet / 17128 feet applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3336 feet 04/01/2021 25 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date LISA TRASCHER / Ph: (713) 651-7000 (Electronic Submission) 09/30/2020 Title Regulatory Specialist Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) Cody Layton / Ph: (575) 234-5959 03/17/2022 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. NGMP Rec 03/28/2022

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(Continued on page 2)

APPROVED WITH CONDITIONS Released to Imaging: 4/6/2022 11:30:45 AM Approval Date: 03/17/2022

*(Instructions on page 2)

District I	1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161	Fax: (575) 393-0720
District II	811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283	Fax: (575) 748-9720
District III	1000 Rio Brazos 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

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

AMENDED REPORT

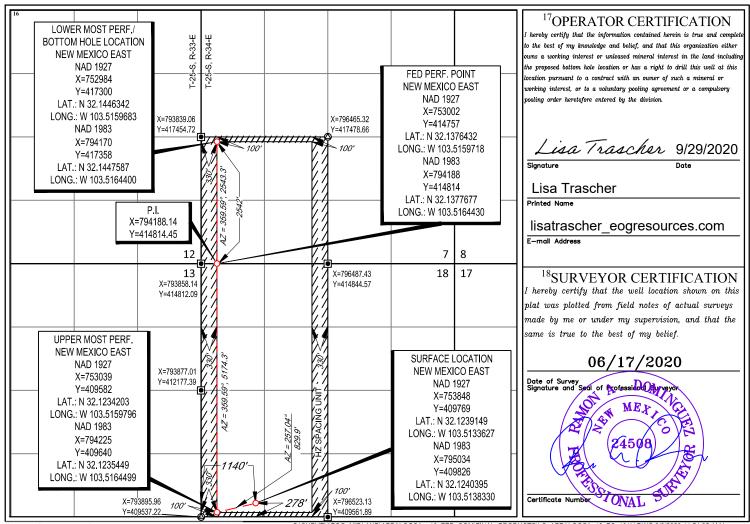
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		² Pool Code	³ Pool Name			
30-025- 49976		97900	RED HILLS;UPPER BONE SPRING SH	HALE		
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number		
331512		APPALOOS	A 18 FED COM	101H		
⁷ OGRID №.		⁸ O _F	perator Name	⁹ Elevation		
7377		3336'				
10 Surface Location						

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
4	18	25-S	34-E	_	278'	SOUTH	1140'	WEST	LEA	
	11Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
3	7	25-S	34-E	_	2542'	SOUTH	330'	WEST	LEA	
12Dedicated Acres	¹³ Joint or l	infill 14Co	nsolidation Co	de ¹⁵ Ord	er No.					
477.71										

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.



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S:\SURVEY\EOG_MIDLAND\APPALOOSA__18_FED_COM\FINAL_PRODUCTS\LO_APPALOOSA_18_FC_101H.DWG 9/9/2020 11:54:25 AM bgregory

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

		<u>Ef</u>	fective May 25	<u>, 2021</u>				
I. Operator:EOG	Resources, Inc	OGRID	:7377		Da	te: 03/23	3 /2022	
II. Type: ⊠ Origin	al 🗆 Amendm	ent due to □ 19.15.	27.9.D(6)(a) NI	MAC □ 19.15.27.9	9.D(6)(b) NMAC	□ Oth	er.
If Other, please describ	e:							
III. Well(s): Provide to be recompleted from					of wells	proposed	to be d	rilled or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D			
Appaloosa 18 Fed Com 101H	30-025-4997	6 ^{4-18-25S-34E}	278' FSL & 11404' FWL	+/- 1000	+/- 35	500 +/- 3000		000
IV. Central Delivery I V. Anticipated Sched or proposed to be recon	ule: Provide th	e following informa	ntion for each ne	ew or recompleted	well or		Ì	O)(1) NMAC] osed to be drilled
Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date		Initial Flow Back Date		First Production Date
Appaloosa 18 Fed Com 101H	30-025-4997	6 9/01/22	10/14/22	12/1/22		1/1/23		2/1/23
VI. Separation Equiporation VII. Operational Practice Subsection A through Figure VIII. Best Manageme during active and plann	etices: Attack of 19.15.27.8	ch a complete descr NMAC. ⊠ Attach a complet	ription of the ac	ctions Operator wi	ll take t	o comply	with t	he requirements of

Section 2 Enhanced Plan

			E APRIL 1, 2022	
Beginning April 1, 2 reporting area must c			with its statewide natural g	as capture requirement for the applicable
☐ Operator certifies capture requirement f		-	tion because Operator is in	compliance with its statewide natural gas
IX. Anticipated Nat	ural Gas Producti	on:		
Well		API	Anticipated Average Natural Gas Rate MCF/E	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gatl	hering System (NC	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operations the segment or portion XII. Line Capacity. production volume from XIII. Line Pressure. natural gas gathering Attach Operator's XIV. Confidentiality Section 2 as provided	s to the existing or part of the natural gas gas. The natural gas gas om the well prior to the operator does by the system of the described plan to manage process. Operator asset in Paragraph (2) of	planned interconnect of the gathering system(s) to we thering system will be the date of first produced does not anticipate the dabove will continue to eduction in response to the there is confidentiality purs	he natural gas gathering systewhich the well(s) will be considered will not have capacity to go tion. at its existing well(s) connect meet anticipated increases in the increased line pressure. uant to Section 71-2-8 NMS 27.9 NMAC, and attaches a fixed which is the increased of the increased line pressure.	nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. gather 100% of the anticipated natural gasted to the same segment, or portion, of the n line pressure caused by the new well(s). SA 1978 for the information provided in full description of the specific information

(i)

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; (g) reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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: Lisa Trascher
Printed Name: Lisa Trascher
Title: Regulatory Specialist
E-mail Address: lisa_trascher@eogresources.com
Date: 3/23/2022
Phone: (432) 247-6331
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Items VI-VIII

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

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

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

Drilling Operations

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

Completions/Recompletions Operations

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

Production Operations

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

Performance Standards

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

Measurement & Estimation

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

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

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

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

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

1,086'
1,162'
1,485°
4,966'
5,224'
5,245
6,232'
8,173
9,287'
9,318'
9,518'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,232'	Oil
Brushy Canyon	8,173'	Oil
Leonard A Shale	9,318'	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 1,190' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole		Csg				DF _{min}	DF _{min}	$\mathbf{DF_{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0' - 1,190'	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' – 5,070'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-9,837'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	9,837'-	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
	17,128'							

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

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

Cementing Program:

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft ³ /sk	Slurry Description
1,190'	720	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	180	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 990')
5,070'	900	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	340	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,050')
17,128'	490	11.0	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,570')
	2,150	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,045')

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

Cement integrity tests will be performed immediately following plug bump.

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

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

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

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

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

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

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

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,190'	Fresh - Gel	8.6-8.8	28-34	N/c
1,190' – 5,070'	Brine	8.6-8.8	28-34	N/c
5,070' - 17,128'	Oil Base	8.8-9.5	58-68	N/c - 6

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

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

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

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4,702 psig and a maximum anticipated surface pressure of 2,608 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 8,173' 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.

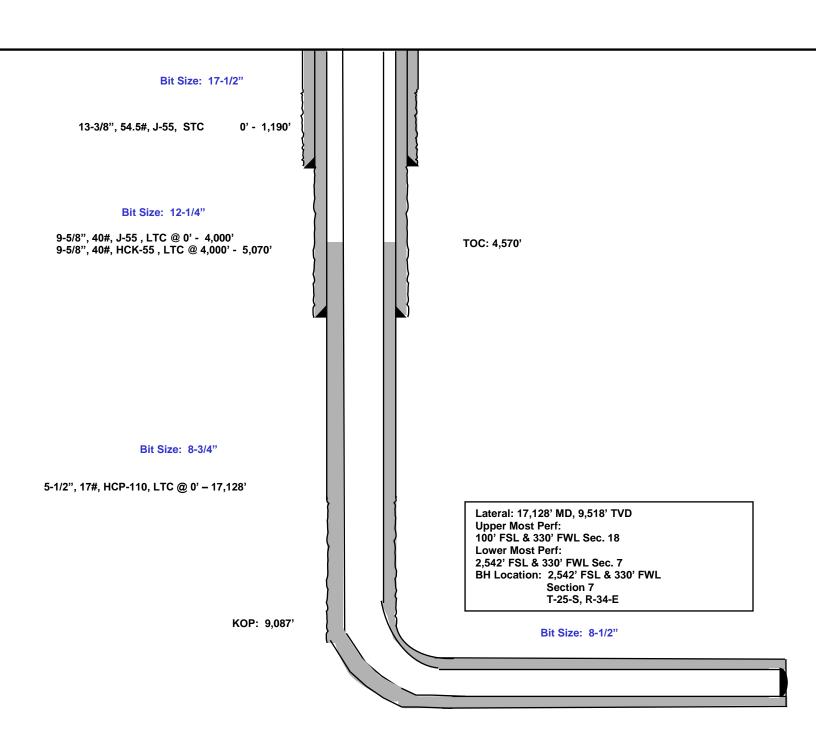
Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

278' FSL 1,140' FWL Section 18 T-25-S, R-34-E

Proposed Wellbore

KB: 3,361' GL: 3,336'

API: 30-025-****





EOG Resources - Midland

Lea County, NM (NAD 83 NME) Appaloosa 18 Fed Com #101H

OH

Plan: Plan #0.1 RT

Standard Planning Report

15 September, 2020

eog resources

EOG Resources

Planning Report

TVD Reference:

MD Reference:

Local Co-ordinate Reference:

EDM Database:

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

Site: Appaloosa 18 Fed Com

Well: #101H Wellbore: OH Plan #0.1 RT Design:

North Reference: **Survey Calculation Method:** Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

Minimum Curvature

353.46

Project Lea County, NM (NAD 83 NME)

US State Plane 1983 Map System: North American Datum 1983

Geo Datum: New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

0.0

Appaloosa 18 Fed Com

Northing: 409,826.00 usft Site Position: Latitude: 32° 7' 26.538 N From: Мар Easting: 795,034.00 usft Longitude: 103° 30' 49.799 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.44

Well #101H

Site

Well Position +N/-S 0.0 usft Northing: 409,826.00 usft Latitude: 32° 7' 26.538 N +E/-W 0.0 usft Easting: 795,034.00 usft Longitude: 103° 30' 49.799 W

Position Uncertainty 0.0 usft Wellhead Elevation: **Ground Level:** 3,336.0 usft

Wellbore ОН

Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) 9/14/2020 IGRF2020 6.60 59.84 47,519.32422665

Plan #0.1 RT Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.0

Plan Survey Tool Program Date 9/15/2020

Depth From Depth To

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

0.0

EOG MWD+IFR1 0.0 17,127.6 Plan #0.1 RT (OH)

MWD + IFR1

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,519.7	6.39	253.74	1,519.0	-5.0	-17.1	2.00	2.00	0.00	253.74	
8,767.2	6.39	253.74	8,721.5	-231.0	-791.9	0.00	0.00	0.00	0.00	
9,086.9	0.00	0.00	9,040.5	-236.0	-809.0	2.00	-2.00	0.00	180.00	KOP(Appaloosa 18 Fo
9,307.4	26.46	0.00	9,253.2	-186.0	-809.0	12.00	12.00	0.00	0.00	FTP(Appaloosa 18 F€
9,836.9	90.00	359.58	9,517.9	241.5	-811.2	12.00	12.00	-0.08	-0.47	
14,583.6	90.00	359.58	9,518.0	4,988.0	-846.0	0.00	0.00	0.00	0.00	Fed Perf 1(Appaloosa
17,127.6	90.00	359.61	9,518.0	7,532.0	-864.0	0.00	0.00	0.00	87.50	PBHL(Appaloosa 18 F

EOG Resources Planning Report

eog resources

EDM Database:

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

Appaloosa 18 Fed Com Site:

Well: #101H ОН Wellbore: Design: Plan #0.1 RT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**

Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

Design:	Plan #0.1 R1								
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	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	253.74 253.74	1,300.0	-0.5	-1.7 -6.7	-0.3	2.00	2.00	0.00
1,400.0	4.00	203.74	1,399.8	-2.0		-1.2	2.00	2.00	0.00
1,500.0	6.00	253.74	1,499.5	-4.4	-15.1	-2.6	2.00	2.00	0.00
1,519.7	6.39	253.74	1,519.0	-5.0	-17.1	-3.0	2.00	2.00	0.00
1,600.0	6.39	253.74	1,598.8	-7.5	-25.7	-4.5	0.00	0.00	0.00
1,700.0	6.39	253.74	1,698.2	-10.6	-36.4	-6.4	0.00	0.00	0.00
1,800.0	6.39	253.74	1,797.6	-13.7	-47.1	-8.3	0.00	0.00	0.00
1,900.0	6.39	253.74	1,897.0	-16.9	-57.8	-10.2	0.00	0.00	0.00
2,000.0	6.39	253.74	1,996.3	-20.0	-68.5	-12.0	0.00	0.00	0.00
2,100.0	6.39	253.74	2,095.7	-23.1	-79.1	-13.9	0.00	0.00	0.00
2,200.0	6.39	253.74	2,195.1	-26.2	-89.8	-15.8	0.00	0.00	0.00
2,300.0	6.39	253.74	2,294.5	-29.3	-100.5	-17.7	0.00	0.00	0.00
2,400.0	6.39	253.74	2,393.9	-32.4	-111.2	-19.6	0.00	0.00	0.00
2,500.0 2,600.0	6.39 6.39	253.74 253.74	2,493.2 2,592.6	-35.6 -38.7	-121.9 -132.6	-21.4 -23.3	0.00 0.00	0.00 0.00	0.00 0.00
2,700.0	6.39	253.74	2,692.0	-36.7 -41.8	-132.0	-25.2	0.00	0.00	0.00
2,800.0	6.39	253.74	2,791.4	-41.6 -44.9	-143.3 -154.0	-25.2 -27.1	0.00	0.00	0.00
2,900.0	6.39	253.74	2,890.8	-48.0	-164.7	-29.0	0.00	0.00	0.00
3,000.0	6.39	253.74	2,990.1	-51.2	-175.4	-30.8	0.00	0.00	0.00
3,100.0	6.39	253.74	3,089.5	-54.3	-186.0	-32.7	0.00	0.00	0.00
3,200.0	6.39	253.74	3,188.9	-57.4	-196.7	-34.6	0.00	0.00	0.00
3,300.0	6.39	253.74	3,288.3	-60.5	-207.4	-36.5	0.00	0.00	0.00
3,400.0	6.39	253.74	3,387.6	-63.6	-218.1	-38.4	0.00	0.00	0.00
3,500.0	6.39	253.74	3,487.0	-66.7	-228.8	-40.2	0.00	0.00	0.00
3,600.0	6.39	253.74	3,586.4	-69.9	-239.5	-42.1	0.00	0.00	0.00
3,700.0	6.39	253.74	3,685.8	-73.0	-250.2	-44.0	0.00	0.00	0.00
3,800.0	6.39	253.74	3,785.2	-76.1	-260.9	-45.9	0.00	0.00	0.00
3,900.0	6.39	253.74	3.884.5	-79.2	-271.6	-47.8	0.00	0.00	0.00
4,000.0	6.39	253.74	3,983.9	-79.2 -82.3	-271.0	-47.8 -49.6	0.00	0.00	0.00
4,100.0	6.39	253.74	4,083.3	-85.5	-293.0	-51.5	0.00	0.00	0.00
4,200.0	6.39	253.74	4,182.7	-88.6	-303.6	-51.3	0.00	0.00	0.00
4,300.0	6.39	253.74	4,282.0	-91.7	-314.3	-55.3	0.00	0.00	0.00
4,400.0	6.39	253.74	4,381.4	-94.8	-325.0	-57.2	0.00	0.00	0.00
4,500.0	6.39	253.74	4,480.8	-97.9	-335.7	-59.0	0.00	0.00	0.00
4,600.0	6.39	253.74	4,580.2	-101.1	-346.4	-60.9	0.00	0.00	0.00
4,700.0	6.39	253.74	4,679.6	-104.2	-357.1	-62.8	0.00	0.00	0.00
4,800.0	6.39	253.74	4,778.9	-107.3	-367.8	-64.7	0.00	0.00	0.00
4,900.0	6.39	253.74	4,878.3	-110.4	-378.5	-66.6	0.00	0.00	0.00
5,000.0	6.39	253.74	4,977.7	-113.5	-389.2	-68.4	0.00	0.00	0.00
5,100.0	6.39	253.74	5,077.1	-116.6	-399.9	-70.3	0.00	0.00	0.00
5,200.0	6.39	253.74	5,176.4	-119.8	-410.5	-72.2	0.00	0.00	0.00

EOG Resources

Planning Report

beog resources

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Appaloosa 18 Fed Com

Site: Appalo
Well: #101H
Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

	Fiall #0.1 IXI								
ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	6.39	253.74	5,275.8	-122.9	-421.2	-74.1	0.00	0.00	0.00
5,400.0	6.39	253.74	5,375.2	-126.0	-431.9	-76.0	0.00	0.00	0.00
5,500.0	6.39	253.74	5,474.6	-129.1	-442.6	-77.8	0.00	0.00	0.00
5,600.0	6.39	253.74	5,574.0	-132.2	-453.3	-79.7	0.00	0.00	0.00
5,700.0	6.39	253.74	5,673.3	-135.4	-464.0	-81.6	0.00	0.00	0.00
5,800.0	6.39	253.74	5,772.7	-138.5	-474.7	-83.5	0.00	0.00	0.00
5,900.0	6.39	253.74	5,872.1	-141.6	-485.4	-85.4	0.00	0.00	0.00
6,000.0	6.39	253.74	5,971.5	-144.7	-496.1	-87.2	0.00	0.00	0.00
6,100.0	6.39	253.74	6,070.8	-147.8	-506.8	-89.1	0.00	0.00	0.00
6,200.0	6.39	253.74	6,170.2	-150.9	-517.4	-91.0	0.00	0.00	0.00
6,300.0	6.39	253.74	6,269.6	-154.1	-528.1	-92.9	0.00	0.00	0.00
6,400.0	6.39	253.74	6,369.0	-157.2	-538.8	-94.8	0.00	0.00	0.00
6,500.0	6.39	253.74	6,468.4	-160.3	-549.5	-96.6	0.00	0.00	0.00
6,600.0	6.39	253.74	6,567.7	-163.4	-560.2	-98.5	0.00	0.00	0.00
6,700.0	6.39	253.74	6,667.1	-166.5	-570.9	-100.4	0.00	0.00	0.00
6,800.0	6.39	253.74	6,766.5	-169.7	-581.6	-102.3	0.00	0.00	0.00
6,900.0	6.39	253.74	6,865.9	-172.8	-592.3	-104.2	0.00	0.00	0.00
7,000.0	6.39	253.74	6,965.3	-175.9	-603.0	-106.0	0.00	0.00	0.00
7,100.0	6.39	253.74	7,064.6	-179.0	-613.7	-107.9	0.00	0.00	0.00
7,200.0	6.39	253.74	7,164.0	-182.1	-624.4	-109.8	0.00	0.00	0.00
7,300.0	6.39	253.74	7,263.4	-185.3	-635.0	-111.7	0.00	0.00	0.00
7,400.0	6.39	253.74	7,362.8	-188.4	-645.7	-113.6	0.00	0.00	0.00
7,500.0	6.39	253.74	7,462.1	-191.5	-656.4	-115.4	0.00	0.00	0.00
7,600.0	6.39	253.74	7,561.5	-194.6	-667.1	-117.3	0.00	0.00	0.00
7,700.0	6.39	253.74	7,660.9	-197.7	-677.8	-119.2	0.00	0.00	0.00
7,800.0	6.39	253.74	7,760.3	-200.8	-688.5	-121.1	0.00	0.00	0.00
7,900.0	6.39	253.74	7,859.7	-204.0	-699.2	-123.0	0.00	0.00	0.00
8,000.0	6.39	253.74	7,959.0	-207.1	-709.9	-124.8	0.00	0.00	0.00
8,100.0	6.39	253.74	8,058.4	-210.2	-720.6	-126.7	0.00	0.00	0.00
8,200.0	6.39	253.74	8,157.8	-213.3	-731.3	-128.6	0.00	0.00	0.00
8,300.0	6.39	253.74	8,257.2	-216.4	-741.9	-130.5	0.00	0.00	0.00
8,400.0	6.39	253.74	8,356.5	-219.6	-752.6	-132.4	0.00	0.00	0.00
8,500.0	6.39	253.74	8,455.9	-222.7	-763.3	-134.2	0.00	0.00	0.00
8,600.0	6.39	253.74	8,555.3	-225.8	-774.0	-136.1	0.00	0.00	0.00
8,700.0	6.39	253.74	8,654.7	-228.9	-784.7	-138.0	0.00	0.00	0.00
8,767.2	6.39	253.74	8,721.5	-231.0	-791.9	-139.3	0.00	0.00	0.00
8,800.0	5.74	253.74	8,754.1	-232.0	-795.2	-139.8	2.00	-2.00	0.00
8,900.0	3.74	253.74	8,853.7	-234.3	-803.1	-141.2	2.00	-2.00	0.00
9,000.0	1.74	253.74	8,953.6	-235.6	-807.7	-142.0	2.00	-2.00	0.00
9,086.9	0.00	0.00	9,040.5	-236.0	-809.0	-142.3	2.00	-2.00	0.00
	osa 18 Fed Com	•							
9,100.0	1.57	0.00	9,053.6	-235.8	-809.0	-142.1	12.00	12.00	0.00
9,125.0	4.57	0.00	9,078.6	-234.5	-809.0	-140.8	12.00	12.00	0.00
9,150.0	7.57	0.00	9,103.4	-231.8	-809.0	-138.1	12.00	12.00	0.00
9,175.0	10.57	0.00	9,128.1	-227.9	-809.0	-134.2	12.00	12.00	0.00
9,200.0	13.57	0.00	9,152.5	-222.7	-809.0	-129.0	12.00	12.00	0.00
9,225.0	16.57	0.00	9,176.7	-216.2	-809.0	-122.6	12.00	12.00	0.00
9,250.0	19.57	0.00	9,200.4	-208.4	-809.0	-114.9	12.00	12.00	0.00
9,275.0	22.57	0.00	9,223.8	-199.4	-809.0	-105.9	12.00	12.00	0.00
9,300.0	25.57	0.00	9,246.6	-189.2	-809.0	-95.8	12.00	12.00	0.00
9,307.4	26.46	0.00	9,253.2	-186.0	-809.0	-92.6	12.00	12.00	0.00
FTP(Appaloc	osa 18 Fed Com	101H)							
9,325.0	28.57	359.96	9,268.8	-177.8	-809.0	-84.5	12.00	12.00	-0.21

EOG Resources



Planning Report

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Appaloosa 18 Fed Com

Well: #101H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Flaillieu Sulvey									
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)
9,350.0	31.57	359.92	9,290.5	-165.3	-809.0	-72.0	12.00	12.00	-0.17
9,375.0	34.57	359.88	9,311.4	-151.7	-809.0	-58.5	12.00	12.00	-0.15
9,400.0	37.57	359.85	9,331.6	-137.0	-809.1	-43.9	12.00	12.00	-0.13
9,425.0	40.57	359.82	9,351.0	-121.2	-809.1	-28.2	12.00	12.00	-0.11
9,450.0	43.57	359.80	9,369.6	-104.5	-809.2	-11.6	12.00	12.00	-0.10
9,475.0	46.57	359.78	9,387.2	-86.8	-809.2	6.0	12.00	12.00	-0.09
9,500.0	49.57	359.76	9,403.9	-68.2	-809.3	24.5	12.00	12.00	-0.08
9,525.0	52.57	359.74	9,419.7	-48.7	-809.4	43.8	12.00	12.00	-0.07
9,550.0	55.57	359.72	9,434.3	-28.5	-809.5	64.0	12.00	12.00	-0.07
9,575.0	58.57	359.71	9,447.9	-7.5	-809.6	84.8	12.00	12.00	-0.06
9,600.0	61.57	359.69	9,460.4	14.2	-809.7	106.4	12.00	12.00	-0.06
9,625.0	64.57	359.68	9,471.7	36.5	-809.8	128.5	12.00	12.00	-0.06
9,650.0	67.57	359.67	9,481.8	59.3	-810.0	151.2	12.00	12.00	-0.05
9,675.0	70.57	359.65	9,490.8	82.7	-810.1	174.4	12.00	12.00	-0.05
9,700.0	73.57	359.64	9,498.5	106.4	-810.3	198.1	12.00	12.00	-0.05
9,725.0	76.57	359.63	9,504.9	130.6	-810.4	222.1	12.00	12.00	-0.05
9,750.0	79.57	359.62	9,510.1	155.1	-810.6	246.4	12.00	12.00	-0.05
9,775.0	82.57	359.61	9,513.9	179.7	-810.7	271.0	12.00	12.00	-0.04
9,800.0	85.57	359.60	9,516.5	204.6	-810.7	295.7	12.00	12.00	-0.04
9,825.0	88.57	359.58	9,510.5	229.6	-811.1	320.5	12.00	12.00	-0.04
9,836.9	90.00	359.58	9,517.9	241.5	-811.2	332.3	12.00	12.00	-0.04
9,900.0	90.00	359.58	9,517.9	304.6	-811.6	395.1	0.00	0.00	0.00
10,000.0	90.00	359.58	9,517.9	404.6	-812.4	494.5	0.00	0.00	0.00
10,100.0	90.00	359.58	9,517.9	504.6	-813.1	593.9	0.00	0.00	0.00
10,200.0	90.00	359.58	9,517.9	604.6	-813.8	693.4	0.00	0.00	0.00
10,300.0	90.00	359.58	9,518.0	704.6	-814.6	792.8	0.00	0.00	0.00
10,400.0	90.00	359.58	9,518.0	804.6	-815.3	892.2	0.00	0.00	0.00
10,500.0	90.00	359.58	9,518.0	904.6	-816.0	991.7	0.00	0.00	0.00
10,600.0	90.00	359.58	9,518.0	1,004.6	-816.8	1,091.1	0.00	0.00	0.00
10,700.0	90.00	359.58	9,518.0	1,104.5	-817.5	1,190.5	0.00	0.00	0.00
10,800.0	90.00	359.58	9,518.0	1,204.5	-818.2	1,289.9	0.00	0.00	0.00
10,900.0	90.00	359.58	9,518.0	1,304.5	-819.0	1,389.4	0.00	0.00	0.00
11,000.0	90.00	359.58	9,518.0	1,404.5	-819.7	1,488.8	0.00	0.00	0.00
11,100.0	90.00	359.58	9,518.0	1,504.5	-820.4	1,588.2	0.00	0.00	0.00
11,200.0	90.00	359.58	9,518.0	1,604.5	-821.2	1,687.7	0.00	0.00	0.00
11,300.0	90.00	359.58	9,518.0	1,704.5	-821.9	1,787.1	0.00	0.00	0.00
11,400.0	90.00	359.58	9,518.0	1,804.5	-821.9 -822.6	1,886.5	0.00	0.00	0.00
11,500.0	90.00	359.58	9,518.0	1,904.5	-823.4	1,986.0	0.00	0.00	0.00
11,600.0	90.00	359.58	9,518.0	2,004.5	-824.1	2,085.4	0.00	0.00	0.00
11,700.0	90.00	359.58	9,518.0	2,004.5	-824.8	2,085.4	0.00	0.00	0.00
,									
11,800.0	90.00	359.58	9,518.0	2,204.5	-825.6	2,284.2	0.00	0.00	0.00
11,900.0	90.00	359.58	9,518.0	2,304.5	-826.3	2,383.7	0.00	0.00	0.00
12,000.0	90.00	359.58	9,518.0	2,404.5	-827.0	2,483.1	0.00	0.00	0.00
12,100.0	90.00	359.58	9,518.0	2,504.5	-827.8	2,582.5	0.00	0.00	0.00
12,200.0	90.00	359.58	9,518.0	2,604.5	-828.5	2,682.0	0.00	0.00	0.00
12,300.0	90.00	359.58	9,518.0	2,704.5	-829.2	2,781.4	0.00	0.00	0.00
12,400.0	90.00	359.58	9,518.0	2,804.5	-830.0	2,880.8	0.00	0.00	0.00
12,500.0	90.00	359.58	9,518.0	2,904.5	-830.7	2,980.2	0.00	0.00	0.00
12,600.0	90.00	359.58	9,518.0	3,004.5	-831.4	3,079.7	0.00	0.00	0.00
12,700.0	90.00	359.58	9,518.0	3,104.5	-832.2	3,179.1	0.00	0.00	0.00
12,800.0	90.00	359.58	9,518.0	3,204.5	-832.9	3,278.5	0.00	0.00	0.00
12,900.0	90.00	359.58	9,518.0	3,304.5	-833.6	3,378.0	0.00	0.00	0.00
13,000.0	90.00	359.58	9,518.0	3,404.5	-834.4	3,477.4	0.00	0.00	0.00
13,100.0	90.00	359.58	9,518.0	3,504.5	-835.1	3,576.8	0.00	0.00	0.00
10,100.0	00.00	500.00	0,010.0	0,001.0	000.1	3,37 0.0	0.00	0.00	2.00

beog resources

EOG Resources

Planning Report

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Appaloosa 18 Fed Com

Site: Appalo
Well: #101H
Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

Depth (usft)	Measured			Vertical		. = 4	Vertical	Dogleg	Build	Turn
13,300.0 90.00 359.58 9,518.0 3,704.5 -836.6 3,775.7 0.00 0.00 0.00 13,400.0 90.00 359.58 9,518.0 3,804.5 -837.3 3,875.1 0.00 0.00 0.00 13,800.0 90.00 359.58 9,518.0 4,004.5 -838.0 4,074.0 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,004.5 -838.8 4,074.0 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,004.5 -838.8 4,074.0 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,004.5 -838.8 4,074.0 0.00 0.00 0.00 13,800.0 90.00 359.58 9,518.0 4,004.5 -839.5 4,173.4 0.00 0.00 0.00 13,900.0 90.00 359.58 9,518.0 4,204.5 -840.3 4,272.8 0.00 0.00 0.00 14,000.0 90.00 359.58 9,518.0 4,304.5 -841.0 4,372.3 0.00 0.00 0.00 14,000.0 90.00 359.58 9,518.0 4,304.5 -841.0 4,372.3 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,304.5 -841.2 4,571.1 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,504.5 -842.5 4,571.1 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,504.5 -843.2 4,570.1 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,504.5 -843.2 4,570.1 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,504.5 -843.2 4,570.0 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,504.5 -843.2 4,570.0 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,504.5 -843.2 4,570.0 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,504.4 -844.7 4,860.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -845.4 4,568.8 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -845.4 4,568.8 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,004.4 -846.0 5,051.0 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 -846.0 5,061.1 0.00 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -846.0 5,668.1 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -865.2 5,668.3 0.00 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -865.2 5,668.3 0.00 0.00 0.00 0.00 0.00 0.00										
13,400.0 90.00 359.58 9,518.0 3,804.5 837.3 3,875.1 0,00 0,00 0,00 13,500.0 90.00 359.58 9,518.0 4,004.5 838.8 4,074.0 0,00 0,00 0,00 13,700.0 90.00 359.58 9,518.0 4,004.5 838.8 4,074.0 0,00 0,00 0,00 13,700.0 90.00 359.58 9,518.0 4,104.5 839.5 4,173.4 0,00 0,00 0,00 13,800.0 90.00 359.58 9,518.0 4,104.5 849.5 4,173.4 0,00 0,00 0,00 13,800.0 90.00 359.58 9,518.0 4,004.5 841.0 4,372.3 0,00 0,00 0,00 14,000.0 90.00 359.58 9,518.0 4,045.5 841.0 4,372.3 0,00 0,00 0,00 14,100.0 90.00 359.58 9,518.0 4,045.5 841.0 4,372.3 0,00 0,00 0,00 14,200.0 90.00 359.58 9,518.0 4,045.5 841.0 4,372.3 0,00 0,00 0,00 14,200.0 90.00 359.58 9,518.0 4,504.5 841.0 4,504.5 841.0 0,00 0,00 0,00 0,00 14,200.0 90.00 359.58 9,518.0 4,504.5 842.5 4,571.1 0,00 0,00 0,00 14,200.0 90.00 359.58 9,518.0 4,504.5 843.2 4,570.5 0,00 0,00 0,00 14,400.0 90.00 359.58 9,518.0 4,704.5 843.2 4,570.5 0,00 0,00 0,00 14,500.0 90.00 359.58 9,518.0 4,804.4 844.7 4,869.4 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.4 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.4 0,00 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0,00 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 4,904.4 846.0 5,051.9 0,00 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 5,04.4 846.9 5,667.7 0,00 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 14,580.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 14,980.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 14,980.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 14,980.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 14,980.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 15,000.0 90.00 359.58 9,518.0 5,04.4 846.9 5,167.7 0,00 0,00 0,00 0,00 15,000.0 90.00 359.59 9,518.0 5,04.4 845.9 5,668.8 0,00 0,00 0,00 0,00 15,000.0 90.00 359.59 9,518.0 5,04.4 845.9 5,668.8 0,00 0,00 0,00 0,00 15,000.0 90.00 359.59 9,518.0 5,04.4 855.5 5,868.1 0,00 0,00 0,00 0,00 15,000.0 90.00 359.59 9,518.0 5,0	13,200.0	90.00	359.58	9,518.0	3,604.5	-835.8	3,676.3	0.00	0.00	0.00
13,500 0 90.00 359.58 9,518.0 4,004.5 838.0 3,974.5 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,004.5 839.5 4,173.4 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,104.5 839.5 4,173.4 0.00 0.00 0.00 0.00 13,800.0 90.00 359.58 9,518.0 4,204.5 841.0 4,372.3 0.00 0.00 0.00 14,000 90.00 359.58 9,518.0 4,304.5 841.7 4,471.7 0.00 0.00 0.00 14,000 90.00 359.58 9,518.0 4,404.5 841.7 4,471.7 0.00 0.00 0.00 14,000 90.00 359.58 9,518.0 4,004.5 841.7 4,471.7 0.00 0.00 0.00 14,000 90.00 359.58 9,518.0 4,004.5 841.7 4,471.7 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,004.5 842.2 4,670.5 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,004.5 842.2 4,670.5 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,004.5 843.2 4,670.5 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,004.4 844.7 4,869.4 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.8 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.8 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.8 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 846.5 5,061.9 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,014.4 846.9 5,061.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044.4 846.9 5,061.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044.4 846.9 5,061.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044.4 846.9 5,061.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044.4 846.9 5,061.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044.4 846.9 5,061.4 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 846.9 5,061.4 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044.4 849.0 5,466.0 0	13,300.0	90.00	359.58	9,518.0	3,704.5	-836.6	3,775.7	0.00	0.00	0.00
13,600.0 90.00 359.58 9,518.0 4,004.5 838.8 4,074.0 0.00 0.00 0.00 0.00 13,700.0 90.00 359.58 9,518.0 4,104.5 839.5 4,173.4 0.00 0.00 0.00 0.00 13,800.0 90.00 359.58 9,518.0 4,204.5 841.0 4,372.3 0.00 0.00 0.00 14,000.0 90.00 359.58 9,518.0 4,404.5 841.7 4,471.7 4,000 0.00 0.00 0.00 14,000.0 90.00 359.58 9,518.0 4,404.5 841.7 4,471.7 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 841.7 4,471.7 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 841.2 4,670.5 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 842.5 4,571.1 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,604.5 842.5 4,571.1 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,804.4 844.7 4,889.4 0.00 0.00 0.00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.4 4,968.8 0.00 0.00 0.00 0.00 14,580.0 90.00 359.58 9,518.0 4,904.4 845.0 5,051.9 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,044 846.0 5,051.9 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,044 846.0 5,051.9 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,044 846.0 5,051.9 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,044 846.9 5,167.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,104.4 848.3 5,366.6 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,044 848.3 5,366.6 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.3 5,366.6 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.3 5,366.6 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.3 5,366.6 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.9 5,566.4 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.9 5,566.4 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.9 5,566.4 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.9 5,566.4 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 848.9 5,566.4 0.00 0.00 0.00 0.00 15,000 90.00 359.59 9,518.0 5,044 855.5	13,400.0	90.00	359.58	9,518.0	3,804.5	-837.3	3,875.1	0.00	0.00	0.00
13,700.0 90.00 359.58 9,518.0 4,104.5 -839.5 4,173.4 0.00 0.00 0.00 0.00 13,800.0 90.00 359.58 9,518.0 4,304.5 -840.3 4,272.8 0.00 0.00 0.00 0.00 14,000.0 90.00 359.58 9,518.0 4,304.5 -841.0 4,372.3 0.00 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 -843.2 4,670.5 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 -843.2 4,670.5 0.00 0.00 0.00 0.00 14,300.0 90.00 359.58 9,518.0 4,604.5 -843.2 4,670.5 0.00 0.00 0.00 0.00 14,300.0 90.00 359.58 9,518.0 4,804.4 -844.7 4,869.4 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,804.4 -844.7 4,869.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -845.4 4,968.8 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -845.4 4,968.8 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,988.0 8.00 8.46.0 5,051.9 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,988.0 8.00 8.46.0 5,051.9 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,104.4 846.9 5,167.7 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,004.4 846.9 5,167.7 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,104.4 846.9 5,167.7 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,204.4 846.9 5,167.7 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 5,204.4 846.9 5,167.7 0.00 0.00 0.00 14,500.0 90.00 359.59 9,518.0 5,204.4 846.9 5,167.7 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,704.4 846.9 5,466.0 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 846.9 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 849.9 5,466.0 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 851.2 5,764.3 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,604.4 851.2 5,764.3 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 855.2 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 855.2 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 855.9 6,597.7 0.00 0.00 0.00 0.00 15,500.0 90.00 359.60 9,518.0 6,004.4 856.9 6,5	13,500.0	90.00	359.58	9,518.0	3,904.5	-838.0	3,974.5	0.00	0.00	0.00
13,800.0 90.00 359.58 9,518.0 4,204.5 -840.3 4,272.8 0.00 0.00 0.00 13,900.0 90.00 359.58 9,518.0 4,404.5 -841.7 4,471.7 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,404.5 -841.2 4,470.5 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 -842.2 4,670.5 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,804.4 -844.7 4,869.4 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -844.5 4,968.8 0.00 0.00 0.00 14,503.0 90.00 359.58 9,518.0 4,904.4 -845.4 4,968.8 0.00 0.00 0.00 0.00 14,503.0 90.00 359.58 9,518.0 4,904.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,503.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.9 5,167.7 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 5,004.4 -846.9 5,167.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 -849.9 5,466.0 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -850.9 5,663.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,604.4 -850.9 5,664.8 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,	13,600.0	90.00	359.58	9,518.0	4,004.5	-838.8	4,074.0	0.00	0.00	0.00
13,900 0 90.00 359.58 9,518.0 4,404.5 841.0 4,372.3 0.00 0.00 0.00 14,000 90.00 359.58 9,518.0 4,504.5 841.7 4,471.7 0.00 0.00 0.00 14,100 90.00 359.58 9,518.0 4,504.5 841.2 4,571.1 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,504.5 843.2 4,670.5 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,704.5 843.2 4,670.5 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,804.4 844.7 4,869.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 844.7 4,869.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,998.0 846.0 5,051.9 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,998.0 846.0 5,051.9 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,988.0 846.0 5,051.9 0.00 0.00 0.00 14,600.0 90.00 359.58 9,518.0 5,004.4 846.1 5,068.3 0.00 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,004.4 846.1 5,068.3 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,004.4 846.9 5,167.7 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,004.4 846.9 5,167.7 0.00 0.00 0.00 0.00 14,800.0 90.00 359.58 9,518.0 5,004.4 846.9 5,167.7 0.00 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,004.4 846.9 5,167.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 849.3 5,366.6 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 849.3 5,366.6 0.00 0.00 0.00 15,000.0 90.00 359.58 9,518.0 5,004.4 849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 849.8 5,565.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,504.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 850.5 5,664.8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13,700.0	90.00	359.58	9,518.0	4,104.5	-839.5	4,173.4	0.00	0.00	0.00
14,000 0 90.00 359.58 9,518.0 4,604.5 -844.5 4,571.1 0.00 0.00 0.00 14,100.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 0.00 14,200.0 90.00 359.58 9,518.0 4,604.5 -842.5 4,571.1 0.00 0.00 0.00 0.00 14,300.0 90.00 359.58 9,518.0 4,604.5 -843.9 4,770.5 0.00 0.00 0.00 0.00 14,400.0 90.00 359.58 9,518.0 4,804.4 -844.7 4,869.4 0.00 0.00 0.00 0.00 14,500.0 90.00 359.58 9,518.0 4,904.4 -844.7 4,869.4 0.00 0.00 0.00 0.00 14,583.6 90.00 359.58 9,518.0 4,904.4 -846.5 5,051.9 0.00 0.00 0.00 0.00 0.00 14,583.6 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,600.0 90.00 359.58 9,518.0 5,004.4 -846.1 5,068.3 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,004.4 -846.9 5,167.7 0.00 0.00 0.00 0.00 14,700.0 90.00 359.58 9,518.0 5,004.4 -846.9 5,167.7 0.00 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -848.3 5,366.6 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -848.8 5,566.4 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,004.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 6,004.4 -851.9 5,663.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 6,004.4 -851.9 5,663.7 0.00 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 6,004.4 -852.6 5,963.1 0.00 0.00 0.00 0.00 15,000.0 90.00 359.60 9,518.0 6,004.4 -856.2 6,460.3 0.00 0.00 0.00 0.00 15,000.0 90.00 359.60 9,518.0 6,004.4 -856.2 6,460.3 0.00 0.00 0.00 0.00 0.	13,800.0				4,204.5		4,272.8			0.00
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14,800.0 90.00 359.58 9,518.0 5,204.4 -847.6 5,267.1 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,304.4 -848.3 5,366.6 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 -849.8 5,565.4 0.00 0.00 0.00 15,200.0 90.00 359.59 9,518.0 5,604.4 -850.5 5,664.8 0.00 0.00 0.00 15,300.0 90.00 359.59 9,518.0 5,604.4 -851.5 5,664.8 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,604.4 -851.5 5,664.8 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -852.6 5,963.1 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,204.4 -854.8	14,600.0	90.00	359.58	9,518.0	5,004.4	-846.1	5,068.3	0.00	0.00	0.00
14,800.0 90.00 359.58 9,518.0 5,204.4 -847.6 5,267.1 0.00 0.00 0.00 14,900.0 90.00 359.58 9,518.0 5,304.4 -848.3 5,366.6 0.00 0.00 0.00 15,000.0 90.00 359.59 9,518.0 5,504.4 -849.8 5,565.4 0.00 0.00 0.00 15,200.0 90.00 359.59 9,518.0 5,604.4 -850.5 5,664.8 0.00 0.00 0.00 15,300.0 90.00 359.59 9,518.0 5,604.4 -851.5 5,664.8 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,604.4 -851.5 5,664.8 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -852.6 5,963.1 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,204.4 -854.8	14,700.0	90.00	359.58	9,518.0	5,104.4	-846.9	5,167.7	0.00	0.00	0.00
15,000.0 90.00 359.58 9,518.0 5,404.4 -849.0 5,466.0 0.00 0.00 0.00 15,100.0 90.00 359.59 9,518.0 5,504.4 -849.8 5,565.4 0.00 0.00 0.00 15,200.0 90.00 359.59 9,518.0 5,604.4 -851.2 5,764.3 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,804.4 -851.2 5,764.3 0.00 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,004.4 -852.6 5,963.1 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,900.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 <td>14,800.0</td> <td>90.00</td> <td>359.58</td> <td>9,518.0</td> <td>5,204.4</td> <td>-847.6</td> <td>5,267.1</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14,800.0	90.00	359.58	9,518.0	5,204.4	-847.6	5,267.1	0.00	0.00	0.00
15,100.0 90.00 359.59 9,518.0 5,504.4 -849.8 5,565.4 0.00 0.00 0.00 15,200.0 90.00 359.59 9,518.0 5,604.4 -850.5 5,664.8 0.00 0.00 0.00 15,300.0 90.00 359.59 9,518.0 5,704.4 -851.2 5,764.3 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 6,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.69 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 <td>14,900.0</td> <td>90.00</td> <td>359.58</td> <td>9,518.0</td> <td>5,304.4</td> <td>-848.3</td> <td>5,366.6</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14,900.0	90.00	359.58	9,518.0	5,304.4	-848.3	5,366.6	0.00	0.00	0.00
15,200.0 90.00 359.59 9,518.0 5,604.4 -850.5 5,664.8 0.00 0.00 0.00 15,300.0 90.00 359.59 9,518.0 5,704.4 -851.2 5,764.3 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00<	15,000.0	90.00	359.58	9,518.0	5,404.4	-849.0	5,466.0	0.00	0.00	0.00
15,300.0 90.00 359.59 9,518.0 5,704.4 -851.2 5,764.3 0.00 0.00 0.00 15,400.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,504.4 -856.9 6,559.7 0.00 0.00 0.00 <td>15,100.0</td> <td>90.00</td> <td>359.59</td> <td>9,518.0</td> <td>5,504.4</td> <td>-849.8</td> <td>5,565.4</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	15,100.0	90.00	359.59	9,518.0	5,504.4	-849.8	5,565.4	0.00	0.00	0.00
15,400.0 90.00 359.59 9,518.0 5,804.4 -851.9 5,863.7 0.00 0.00 0.00 15,500.0 90.00 359.59 9,518.0 5,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 <td>15,200.0</td> <td>90.00</td> <td>359.59</td> <td>9,518.0</td> <td>5,604.4</td> <td>-850.5</td> <td>5,664.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	15,200.0	90.00	359.59	9,518.0	5,604.4	-850.5	5,664.8	0.00	0.00	0.00
15,500.0 90.00 359.59 9,518.0 5,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.69 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,400.0 90.00 359.60 9,518.0 6,04.4 -858.3<	15,300.0	90.00	359.59	9,518.0	5,704.4	-851.2	5,764.3	0.00	0.00	0.00
15,500.0 90.00 359.59 9,518.0 5,904.4 -852.6 5,963.1 0.00 0.00 0.00 15,600.0 90.00 359.59 9,518.0 6,004.4 -853.4 6,062.5 0.00 0.00 0.00 15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.69 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,400.0 90.00 359.60 9,518.0 6,04.4 -858.3<	15,400.0	90.00	359.59	9,518.0	5,804.4	-851.9	5,863.7	0.00	0.00	0.00
15,700.0 90.00 359.59 9,518.0 6,104.4 -854.1 6,162.0 0.00 0.00 0.00 15,800.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,504.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,300.0 90.00 359.60 9,518.0 6,704.4 -858.3 6,758.5 0.00 0.00 0.00 16,500.0 90.00 359.60 9,518.0 6,804.4 -859.0 6,858.0 0.00 0.00 0.00 <td></td> <td>90.00</td> <td>359.59</td> <td>9,518.0</td> <td>5,904.4</td> <td></td> <td>5,963.1</td> <td></td> <td>0.00</td> <td>0.00</td>		90.00	359.59	9,518.0	5,904.4		5,963.1		0.00	0.00
15,800.0 90.00 359.59 9,518.0 6,204.4 -854.8 6,261.4 0.00 0.00 0.00 15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,100.0 90.00 359.60 9,518.0 6,504.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,300.0 90.00 359.60 9,518.0 6,704.4 -858.3 6,758.5 0.00 0.00 0.00 16,400.0 90.00 359.60 9,518.0 6,804.4 -859.0 6,858.0 0.00 0.00 0.00 16,500.0 90.00 359.60 9,518.0 7,004.4 -869.7 6,957.4 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -860.4	15,600.0	90.00	359.59	9,518.0	6,004.4	-853.4	6,062.5	0.00	0.00	0.00
15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,100.0 90.00 359.60 9,518.0 6,504.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,300.0 90.00 359.60 9,518.0 6,704.4 -858.3 6,758.5 0.00 0.00 0.00 16,400.0 90.00 359.60 9,518.0 6,804.4 -859.0 6,858.0 0.00 0.00 0.00 16,500.0 90.00 359.60 9,518.0 6,904.4 -859.7 6,957.4 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -860.4 7,056.8 0.00 0.00 0.00 16,800.0 90.00 359.61 9,518.0 7,204.4 -861.1	15,700.0	90.00	359.59	9,518.0	6,104.4	-854.1	6,162.0	0.00	0.00	0.00
15,900.0 90.00 359.60 9,518.0 6,304.4 -855.5 6,360.8 0.00 0.00 0.00 16,000.0 90.00 359.60 9,518.0 6,404.4 -856.2 6,460.3 0.00 0.00 0.00 16,100.0 90.00 359.60 9,518.0 6,504.4 -856.9 6,559.7 0.00 0.00 0.00 16,200.0 90.00 359.60 9,518.0 6,604.4 -857.6 6,659.1 0.00 0.00 0.00 16,300.0 90.00 359.60 9,518.0 6,704.4 -858.3 6,758.5 0.00 0.00 0.00 16,400.0 90.00 359.60 9,518.0 6,804.4 -859.0 6,858.0 0.00 0.00 0.00 16,500.0 90.00 359.60 9,518.0 6,904.4 -859.7 6,957.4 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -860.4 7,056.8 0.00 0.00 0.00 16,800.0 90.00 359.61 9,518.0 7,204.4 -861.1	15,800.0	90.00	359.59	9,518.0	6,204.4	-854.8	6,261.4	0.00	0.00	0.00
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16,500.0 90.00 359.60 9,518.0 6,904.4 -859.7 6,957.4 0.00 0.00 0.00 16,600.0 90.00 359.60 9,518.0 7,004.4 -860.4 7,056.8 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -861.1 7,156.2 0.00 0.00 0.00 16,800.0 90.00 359.61 9,518.0 7,204.4 -861.8 7,255.7 0.00 0.00 0.00 16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	16,300.0	90.00	359.60	9,518.0	6,704.4	-858.3	6,758.5	0.00	0.00	0.00
16,500.0 90.00 359.60 9,518.0 6,904.4 -859.7 6,957.4 0.00 0.00 0.00 16,600.0 90.00 359.60 9,518.0 7,004.4 -860.4 7,056.8 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -861.1 7,156.2 0.00 0.00 0.00 16,800.0 90.00 359.61 9,518.0 7,204.4 -861.8 7,255.7 0.00 0.00 0.00 16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	16,400.0	90.00	359.60	9,518.0	6,804.4	-859.0	6,858.0	0.00	0.00	0.00
16,600.0 90.00 359.60 9,518.0 7,004.4 -860.4 7,056.8 0.00 0.00 0.00 16,700.0 90.00 359.60 9,518.0 7,104.4 -861.1 7,156.2 0.00 0.00 0.00 16,800.0 90.00 359.61 9,518.0 7,204.4 -861.8 7,255.7 0.00 0.00 0.00 16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	16,500.0	90.00	359.60	9,518.0	6,904.4	-859.7	6,957.4	0.00	0.00	0.00
16,800.0 90.00 359.61 9,518.0 7,204.4 -861.8 7,255.7 0.00 0.00 0.00 16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	16,600.0	90.00	359.60	9,518.0	7,004.4	-860.4	7,056.8	0.00	0.00	0.00
16,800.0 90.00 359.61 9,518.0 7,204.4 -861.8 7,255.7 0.00 0.00 0.00 16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	16,700.0	90.00	359.60	9,518.0	7,104.4	-861.1	7,156.2	0.00	0.00	0.00
16,900.0 90.00 359.61 9,518.0 7,304.4 -862.4 7,355.1 0.00 0.00 0.00 17,000.0 90.00 359.61 9,518.0 7,404.4 -863.1 7,454.5 0.00 0.00 0.00 17,100.0 90.00 359.61 9,518.0 7,504.4 -863.8 7,553.9 0.00 0.00 0.00	,									
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	17.127.6	90.00	359.61	9.518.0	7.532.0	-864.0	7.581.4	0.00	0.00	0.00

beog resources

EOG Resources

Planning Report

Database: EDM

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Appaloosa 18 Fed Com

Well: #101H Wellbore: OH

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #101H

kb = 25' @ 3361.0usft kb = 25' @ 3361.0usft

Grid

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(Appaloosa 18 Fed - plan hits target cen - Point	0.00 ter	0.00	9,040.5	-236.0	-809.0	409,590.00	794,225.00	32° 7' 24.264 N	103° 30' 59.227 W
FTP(Appaloosa 18 Fed (- plan hits target cen - Point	0.00 ter	0.00	9,253.2	-186.0	-809.0	409,640.00	794,225.00	32° 7' 24.759 N	103° 30' 59.222 W
Fed Perf 1(Appaloosa 18 - plan hits target cen - Point	0.00 ter	0.00	9,518.0	4,988.0	-846.0	414,814.00	794,188.00	32° 8′ 15.959 N	103° 30' 59.196 W
PBHL(Appaloosa 18 Fec - plan hits target cen - Point	0.00 ter	0.00	9,518.0	7,532.0	-864.0	417,358.00	794,170.00	32° 8′ 41.134 N	103° 30' 59.181 W



Azimuths to Grid North True North: -0.44° Magnetic North: 6.16°

> **Magnetic Field** Strength: 47519.3nT Dip Angle: 59.84° Date: 9/14/2020 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.16°
To convert a Magnetic Direction to a True Direction, Add 6.60° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

Lea County, NM (NAD 83 NME)

Appaloosa 18 Fed Com #101H

Plan #0.1 RT

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

Geodetic System: US State Plane 1983 **Datum: North American Datum 1983** Ellipsoid: GRS 1980 **Zone: New Mexico Eastern Zone**

System Datum: Mean Sea Level

WELL DETAILS: #101H

3336.0

kb = 25' @ 3361.0usft **Northing**

Longitude 103° 30' 49.799 W **Easting** Latittude 32° 7' 26.538 N 409826.00 795034.00

	SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target		
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0			
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0			
3	1519.7	6.39	253.74	1519.0	-5.0	-17.1	2.00	253.74	-3.0			
4	8767.2	6.39	253.74	8721.5	-231.0	-791.9	0.00	0.00	-139.3			
5	9086.9	0.00	0.00	9040.5	-236.0	-809.0	2.00	180.00	-142.3	KOP(Appaloosa 18 Fed Com 101H)		
6	9307.4	26.46	0.00	9253.2	-186.0	-809.0	12.00	0.00	-92.6	FTP(Appaloosa 18 Fed Com 101H)		
7	9836.9	90.00	359.58	9517.9	241.5	-811.2	12.00	-0.47	332.3			
8	14583.6	90.00	359.58	9518.0	4988.0	-846.0	0.00	0.00	5051.9	Fed Perf 1(Appaloosa 18 Fed Com 101H)		
9	17127.6	90.00	359.61	9518.0	7532.0	-864.0	0.00	87.50	7581.4	PBHL(Appaloosa 18 Fed Com 101H)		

CASING DETAILS No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) +E/-W Northing +N/-S **Easting KOP(Appaloosa 18 Fed Com 101H)** 9040.5 -236.0 794225.00 -809.0 FTP(Appaloosa 18 Fed Com 101H) 9253.2 -186.0 409640.00 794225.00 Fed Perf 1(Appaloosa 18 Fed Com 101H) 9518.0 4988.0 -846.0 794188.00 7532.0 PBHL(Appaloosa 18 Fed Com 101H) 9518.0 417358.00 -864.0 794170.00 7500-7200 6900 6600-5400 Fed Perf 1(Appalopsa 18 Fed Com 101H) 4800 4500 4200 2700 1800-FTP(Appaloosa 18 Fed Com 101H) KOP(Appaloosa 18 Fed Com 101H) West(-)/East(+)

West(-)/East(+)

PBHL(Appaloosa 18 Fed Com 101H)

KOP(Appaloosa 18 Fed Com 101H) FTP(Appaloosa 18 Fed Com 101H) Fed Perf 1(Appaloosa 18 Fed Com 101H) PBHL(Appaloosa 18 Fed Com 101H) 1050 1750 2100 3150 2450 2800 3500 4550

6000

7500

7800-

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG RESOURCES INCORPORATED WELL NAME & NO.: APPALOOSA 18 FED COM 101H

SURFACE HOLE FOOTAGE: 278'/S & 1140'/W BOTTOM HOLE FOOTAGE 2542'/S & 330'/W

LOCATION: | Section 18, T.25 S., R.34 E., NMPM

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	O Multibowl	Both
Other	4 String Area	Capitan Reef	□WIPP
Other	Fluid Filled		Pilot Hole
Special Requirements	Water Disposal	☑ COM	Unit

A. HYDROGEN SULFIDE

H2S has been reported in the the S/T/R. 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 1,190 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 **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate casing shall be set at approximately 5,070 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 9-5/8" X 13-3/8" annulus. <u>Operator must run a CBL or ECHO METER from TD of the 9-5/8" casing to surface. Submit results to BLM.</u>

3. The 5-1/2 inch production casing shall be set at approximately 17,128 feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

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

Option 2:

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 3000 (3M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3000 (3M) psi.

Option 2:

1. 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 3000 (3M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3000 (3M) psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- 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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24

- hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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:
 - 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.

Emergency Assistance Telephone List

PUBLIC SAFETY:		911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
U.S. Dept. of Labor		(575) 887-1174
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:		
	Cell	(432) 230-4840
Blake Burney		
Drilling Engineer		
	Office	(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		,
	Office	(432) 686-3751
·	Cell	(817) 480-1167
Drilling Superintendent		
Jason Townsend	Office	(432) 848-9209
	Cell	(210) 776-5131
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 415 Drilling Rig	Rig	(432) 230-4840
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		
Safety		
·	Office	(432) 686-3695
· · · · · · · · · · · · · · · · · · ·	Cell	(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

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

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

Action 93613

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	93613
	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	4/6/2022
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	4/6/2022
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	4/6/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	4/6/2022