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. NMNM139402 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 TALLADEGA 14 FED 602H 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 30-043-21382 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory (432) 686-3600 WILDCAT/OIL WC 21N4W6;GALLUP 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 14/T21N/R5W/NMP At surface SWNE / 2162 FNL / 2447 FEL / LAT 36.050501 / LONG -107.332354 At proposed prod. zone NESW / 1661 FSL / 1766 FWL / LAT 36.032042 / LONG -107.318077 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State SANDOVAL NM 20 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 15 feet location to nearest 360.0 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, 2162 feet FED: 5016 feet / 13023 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 7150 feet 10/31/2020 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date (Electronic Submission) LACEY GRANILLO / Ph: (713) 651-7000 09/29/2020 Title Contractor Regulatory Specialist Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) DAVE J MANKIEWICZ / Ph: (505) 564-7761 03/30/2021 Title Office **AFM-Minerals** Farmington 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.

APPROVED WITH CONDITIONS

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

(Continued on page 2)

*(Instructions on page 2)

Received by tOCD: 4/21/2021 12:03:59 PM

1625 N. French Drive, Hobbs, NM 88240 Phone:(575) 393–6161 Fax:(575) 393–0720

District II 811 S. First Street, 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 Drive, Santa Fe, NM 87505 Phone: (505) 476–3460 Fax: (505) 476–3462

State of New Mexico Energy, Minerals & Natural Resources Department

CONSERVATION DIVISION South St. Francis Drive

Santa Fe, NM 87505

Form CPage 2 of 25 Revised August 1, 2011

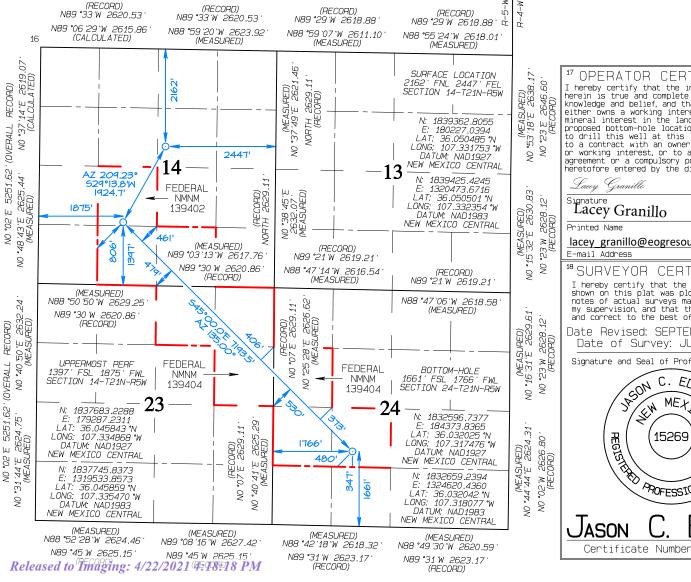
Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-043-2138	'API Number 'Pool Code 3Pool Name 3-21382 98350 WILDCAT OIL WC 21N4W6;GALLU					"Pool Name WILDCAT OIL WC 21N4W6;GALLUP					
⁴Property	Code				*Propert	y Name			⁶ Well Number		
330006					TALLADEGA	4 14 FED				602H	
'OGRID N	1 0.			*Operator	Name			9 E	levation		
7377	7				EOG RESOURCES, INC 715					7150'	
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
G	14	21N	5W		2162	NORTH	2447	EΑ	ST	SANDOVAL	
		1	¹ Botto	m Hole	Location I	f Different F	rom Surfac	е			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
К	24	21N	5W		1661 SOUTH 1766 WEST SA						
Dedicated Acres 360.00 13 Joint or Infill			¹⁴ Consolidatio	on Code	¹⁵ Order Na.				1		

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



OPERATOR CERTIFICATION "OPERATOR CERTIFICATION
I hereby certify that the information contained
herein is true and complete to the best of my
knowledge and belief, and that this organization
either owns a working interest or unleased
mineral interest in the land including the
proposed bottom-hole location or has a right
to drill this well at this location pursuant
to a contract with an owner of such a mineral
or working interest, or to a voluntary pooling
agreement or a compulsory pooling order
heretofore entered by the division.

9/29/20 Date

lacey_granillo@eogresources.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: SEPTEMBER 24, 2020 Date of Survey: JUNE 22, 2020

Signature and Seal of Professional Surveyor



DWARDS 15269

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

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

Date: 9/28/20		
□ Original	Operator & OGRID No.:	EOG Resources, Inc. 7377
☐ Amended - Reason for Amendme	nt:	
This Gas Capture Plan outlines action new completion (new drill, recompletion)	• •	e well/production facility flaring/venting fo
Note: Form C-129 must be submitted and	approved prior to exceeding 60 days allowed b	y Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
TALLADEGA 14 FED 601H	PENDING	G-14-21N-5W	2145 FNL & 2465 FEL	2000	Flared	
TALLADEGA 14 FED 602H	PENDING	G-14-21N-5W	2162 FNL & 2447 FEL	2000	Flared	
TALLADEGA 14 FED 603H	PENDING	G-14-21N-5W	2134 FNL & 2455 FEL	2000	Flared	
TALLADEGA 14 FED 604H	PENDING	G-14-21N-5W	2151 FNL & 2437 FEL	2000	Flared	
TALLADEGA 14 FED 605H	PENDING	G-14-21N-5W	2123 FNL & 2445 FEL	2000	Flared	
TALLADEGA 14 FED 606H	PENDING	G-14-21N-5W	2140 FNL & 2427 FEL	2000	Flared	
TALLADEGA 14 FED 607H	PENDING	G-14-21N-5W	2112 FNL & 2434 FEL	2000	Flared	
TALLADEGA 14 FED 608H	PENDING	G-14-21N-5W	2129 FNL & 2416 FEL	2000	Flared	
TALLADEGA 14 FED 609H	PENDING	G-14-21N-5W	2101 FNL & 2424 FEL	2000	Flared	
TALLADEGA 14 FED 610H	PENDING	G-14-21N-5W	2119 FNL & 2406 FEL	2000	Flared	
TALLADEGA 14 FED 611H	PENDING	G-14-21N-5W	2090 FNL & 2413 FEL	2000	Flared	
TALLADEGA 14 FED 612H	PENDING	G-14-21N-5W	2108 FNL & 2395 FEL	2000	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are completed. Harvest Midstream or Enterprise Products Partner and other local midstream providers are being evaluated for potential connections. It will require $\geq 30,000^{\circ}$ of pipeline to connect the facility to a gas gathering system. The actual flow of the gas will be based on compression operating parameters and gathering system pressure.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

WELL LOCATION AND ACREAGE DEDICATION PLAT

	MEEL LOOATION AND AGREAGE DEDIGATION TEAT										
1 A	Numbe	r		² Pool Cod	le		³Pool Nam	е			
							WILDCAT (OIL			
*Property	Code				*Property	/ Name			⁵Well Number		
	TALLADEGA 14 FED									602H	
'OGRID N	OGRID No. *Operator Name									levation	
7377 EOG RESOURCES, INC								7150'			
	,				¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
G	14	21N	5W		2162	NORTH	2447	EΑ	ST	SANDOVAL	
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
K	24	21N	5W		1661	SOUTH	1766	WE	ST	SANDOVAL	

1. GEOLOGIC NAME OF SURFACE FORMATION:

Nacimiento

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

	MID	1 1 1 1
Pictured Cliffs	1,542'	1,515'
Huerfanito Bentonite	1,867'	1,807'
Mesaverde	2,378'	2,224'
Menefee	3,428'	2,992'
Point Lookout	4,302'	3,772'
Mancos Shale	4,432'	3,897'
Gallup	5,003'	4,462'
Horizontal TD	13,023'	5,016'

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

1 1 1	
1,515'	Gas
1,807'	Gas
2,992'	Gas/Oil
3,772'	Oil
3,897'	Oil
4,462'	Oil
	1,515' 1,807' 2,992' 3,772' 3,897' 4,462'

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 300' and circulating cement back to surface.



4. CASING PROGRAM - NEW

Hole & Casing String:

Hole Size	Interval	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Joint	DF _{min} Body
17.5"	(MD)	(TVD)	12 2/0"	48#	11.40	STC	1 125	1 25	Tension	Tension
	0'-300'	300'	13 3/8"		H-40		1.125	1.25	1.60	1.80
12.25"	0' – 3,559'	3,100'	9 5/8"	36#	J-55	LTC	1.125	1.25	1.60	1.80
8.75"	0'- 5,830'	5,016'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
8.5"	5,830'-	5,016'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
	13,023'									

Cementing Program:

Note: Cement volumes based on bit size plus at least 100% excess on surface, 100% excess in intermediate and 35% excess in production string.

Cement Design:

Cemen	t Desig	11.							
Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Volume Ft ³	Slurry Description				
300'	315	14.8	1.34	422	Tail: Class 'C' + 2% PF1(Calcium Chloride) (100% excess)				
3,559'	1085	12.8	1.79	1942	Lead: 35:65 Poz C + .02 gal/sk Anti Foam + 1% Extender + .13 lb/sk Lost Circulation (TOC @ Surface) (100% excess)				
	220	14.8	1.33	293	Tail: Class C + 0.13% Anti Foam				
13,023'	380	11.9	2.47	939	Lead: Class 50/50 PozC + 5%PF44(BWOW)(Salt) + 10% PF20(Bentonite Gel) +.2%PF153(Anti Settling Agent(+ 3#/sk OF42(Kolseal) + 0.125#/sk PF29 (celloflake) + 0.4#/sk PF45 (Defoamer) (TOC @ 500' into previous casing string) 35% Excess				
	1505	13	1.48	2227	Tail: Class PVL + 1.3% PF44(BWOW)(Salt) + 5% PF174 (Expanding Cement) + 0.5% PF606 (Fluid Loss) + 0.1% PF153 (Anti Settling Agent) + 0.4#/sk PF45 (Defoamer)				

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

A variance is requested to use a co-flex line between the BOP and choke manifold, dependent on rig selection (instead of using a steel line). Certification and specs are attached at the end of the drilling plan.

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double rams with blind rams & pipe rams preventer (3,000 psi WP) and an annular preventer (3,000-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.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 3,000/250 psig and the annular preventer to 1,500/250 psig. The surface casing will be tested to 1200 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. 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 surface 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	Comments
0 - 300	Fresh Water	8.6-8.8	28-32	N/c	
300' – 3,559'	WBM	8.8-9.4	30-34	N/c	
Vertical					
3,559' – 13,023'		8.8-9.4	30-34	<10	OBM
Curve/Lateral	WBM				Requested as
					a contingency

The highest mud weight needed to balance formation is expected to be 9.4 ppg. In order to maintain hole stability, mud weights up to 9.4 ppg may be utilized.

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

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



7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

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

8. LOGGING, TESTING AND CORING PROGRAM:

GR-Directional surveys will be run in open hole during drilling phase of operations.

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

The estimated bottom-hole temperature (BHT) at TD is 140 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 2452 psig (based on 9.4 ppg MW). Hydrogen sulfide has been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from spud to surface casing point.

10. ANTICIPATED 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 3,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3,000 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 3,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s).

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.

The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

12. COMPLETION AND PRODUCTION PLAN:

Frac: Lateral will be fracture stimulated with approximately 180,000 bbls slick water fluid.

Flowback: Well will be flowed back through production tubing. An ESP may be used to assist in load water recovery.

Production: Well will produce up production tubing into production and storage facilities.





Midwest Hose & Specialty, Inc.

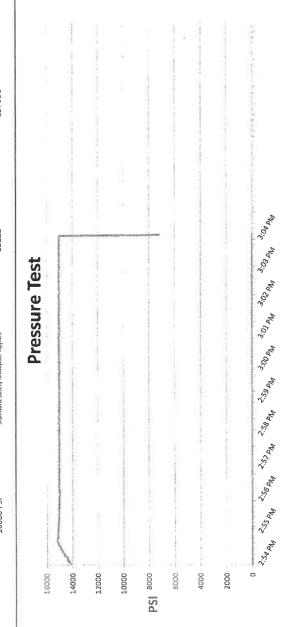
INTI	ERNAL	HYDROSTA	ATIC TEST	CERTIFICA	TE		
Customer:				Customer P.O	. Number:		
	GRAN	ID JUNCTION		17875			
		HOSE SPECI	FICATIONS				
1	CHOKE HO						
	GRADE E	/ API 7K		Hose Length:	15 FEET		
I.D.	4	INCHES	O.D.	6.11	INCHES		
WORKING PR	RESSURE	TEST PRESSU	RE	BURST PRESSU	RE		
10,000	PSI	15,000	PSI	N/A	PSI		
10,000	, 0,	13,000	F31	IN/A	731		
		COUF	PLINGS				
Part Numb	er	Stem Lot Nur	mber	Ferrule Lot N	umber		
E4.0X6	· · · · · -	809	9764	N440	6		
E4.0X6		809	9764	N440	6		
Type of Co	upling:		Die Size:				
	SWAGE-I	Т	6.62 INCHES				
		PROC	EDURE				
Н	ose assembly	pressure tested w	rith water at ambier	nt temperature			
		TEST PRESSURE		URST PRESSURE:			
	9 3/4	MIN.		N/A	PSI		
Hose Asse	mbly Seria	al Number:	Hose Serial N				
	197000		10088				
Comments	•						
Date:		Tested:		Approved:	17		
4/10/2	013	Bille	: BoleK	John !	111.		

April 10, 2013

Internal Hydrostatic Test Graph

Hose Assembly Serial # 197000 Coupling Method Final 0.D. 6.65" Pick Ticket #: 197000 Verification Jie 2. 6.62 Hose Serial # 10088 Type of Fitting 4 1/16 10k Die Size Standard Safety Multiplier Applies **Burst Pressure** Length 15' 0.D. 6.11" Hose Specifications Customer: Grand J Working Pressure 10000 PSI I.D.

Midwest Hose & Specialty, Inc.



Time Held at Test Pressure 93/4 Minutes Test Pressure 15000 PSI Tested By: Billy Balak

Approved By. Joshua Dahlem

Peak Pressure 15263 PSI

Actual Burst Pressure

Time in Minutes

Comments: Hose assembly pressure tested with water at ambient temperature.

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EOG Resources - Artesia

Sandoval County (NAD83) Talladega Talladega 14 Fed #602H

Lateral

Plan: Plan #1

Standard Planning Report

28 September, 2020

eog resources

EOG Resources

Planning Report

EDM Database: Company:

Project:

EOG Resources - Artesia

Sandoval County (NAD83)

Site: Talladega Well: Talladega 14 Fed #602H

Wellbore: Lateral Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Talladega 14 Fed #602H KB @ 7168.0usft (Planning Rig) KB @ 7168.0usft (Planning Rig)

Grid

Minimum Curvature

Project Sandoval County (NAD83)

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

North American Datum 1983 New Mexico Central Zone

System Datum:

Mean Sea Level

Talladega Site

Northing: 1,839,442.97 usft Site Position: Latitude: 36° 3' 1.975 N From: Мар Easting: 1,320,455.86 usft Longitude: 107° 19' 56.694 W **Position Uncertainty:** Slot Radius: 13-3/16 " **Grid Convergence:** -0.64 0.0 usft

Well Talladega 14 Fed #602H

Well Position +N/-S -17.5 usft Northing: 1,839,425.43 usft Latitude: 36° 3' 1.803 N +E/-W 17.8 usft Easting: 1,320,473.67 usft Longitude: 107° 19' 56.475 W

Position Uncertainty 0.0 usft Wellhead Elevation: **Ground Level:** 7,150.0 usft

Wellbore Lateral Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2020 9/1/2020 8.70 62.70 49,337.87599728

Plan #1 Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 148.50 0.0 0.0 0.0

9/28/2020 **Plan Survey Tool Program** Date

Depth From Depth To

(usft) (usft) Survey (Wellbore)

Tool Name Remarks

13,023.1 Plan #1 (Lateral) MWD 0.0

OWSG MWD - Standard

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,602.7	45.54	223.59	2,388.2	-574.0	-546.4	2.17	2.17	0.00	223.59	
2,976.9	45.54	223.59	2,650.3	-767.5	-730.6	0.00	0.00	0.00	0.00	
5,079.6	0.00	0.00	4,538.5	-1,341.5	-1,277.0	2.17	-2.17	0.00	180.00	
5,829.6	90.00	135.00	5,016.0	-1,679.1	-939.4	12.00	12.00	18.00	135.00	
13,023.1	90.00	135.00	5,016.0	-6,766.2	4,146.8	0.00	0.00	0.00	0.00	T14F#602H]PBHL

EOG Resources

Planning Report

eog resources

Database: EDM

Company: EOG Resources - Artesia
Project: Sandoval County (NAD83)

Site: Talladega
Well: Talladega 14 Fed #602H

Wellbore: Lateral Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Talladega 14 Fed #602H KB @ 7168.0usft (Planning Rig) KB @ 7168.0usft (Planning Rig)

Grid

Planne	d 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)
	0.0 100.0	0.00 0.00	0.00 0.00	0.0 100.0	0.0 0.0	0.0 0.0	0.0	0.00 0.00	0.00 0.00	0.00 0.00
	200.0 300.0	0.00 0.00	0.00 0.00	200.0 300.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
	400.0 500.0	0.00	0.00	400.0 500.0	0.0	0.0	0.0	0.00	0.00 0.00	0.00 0.00
	BEGIN 2*/10		0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	600.0	2.17	223.59	600.0	-1.4	-1.3	0.5	2.17	2.17	0.00
	700.0	4.33	223.59	699.8	-5.5	-5.2	1.9	2.17	2.17	0.00
i	0.008	6.50	223.59	799.4	-12.3	-11.7	4.4	2.17	2.17	0.00
1	900.0	8.66	223.59	898.5	-21.9	-20.8	7.8	2.17	2.17	0.00
	1,000.0	10.83	223.59	997.0	-34.1	-32.5	12.1	2.17	2.17	0.00
1	1,100.0	12.99	223.59	1,094.9	-49.1	-46.7	17.4	2.17	2.17	0.00
1	1,200.0	15.16	223.59	1,191.9	-66.7	-63.5	23.7	2.17	2.17	0.00
İ	1,300.0	17.33	223.59	1,287.9	-86.9	-82.8	30.9	2.17	2.17	0.00
	1,400.0	19.49	223.59	1,382.7	-109.8	-104.5	39.0	2.17	2.17	0.00
	1,500.0 1,541.7	21.66 22.56	223.59 223.59	1,476.4 1,515.0	-135.3 -146.6	-128.8 -139.6	48.0 52.1	2.17 2.17	2.17 2.17	0.00 0.00
	Pictured Clif	fs								
	1,600.0	23.82	223.59	1,568.6	-163.3	-155.4	58.0	2.17	2.17	0.00
1	1,700.0	25.99	223.59	1,659.3	-193.8	-184.4	68.8	2.17	2.17	0.00
	1,800.0	28.15	223.59	1,748.3	-226.7	-215.8	80.5	2.17	2.17	0.00
	1,867.0	29.61	223.59	1,807.0	-250.2	-238.1	88.9	2.17	2.17	0.00
ı	Huerfanito B		222 50	1 025 6	262.4	240 5	02.4	0.17	0.47	0.00
	1,900.0 2,000.0	30.32 32.49	223.59 223.59	1,835.6 1,920.9	-262.1 -299.8	-249.5 -285.4	93.1 106.5	2.17 2.17	2.17 2.17	0.00
	2,100.0	34.65	223.59	2,004.2	-339.9	-323.5	120.7	2.17	2.17	0.00
	2,200.0	36.82	223.59	2,085.4	-382.2	-363.8	135.8	2.17	2.17	0.00
	2,300.0 2,377.7	38.98 40.67	223.59 223.59	2,164.3 2,224.0	-426.7 -462.7	-406.2 -440.5	151.6 164.4	2.17 2.17	2.17 2.17	0.00 0.00
	Mesaverde									
	2,400.0	41.15	223.59	2,240.8	-473.3	-450.5	168.1	2.17	2.17	0.00
	2,500.0	43.31	223.59	2,314.9	-522.0	-496.9	185.4	2.17	2.17	0.00
	2,602.7	45.54	223.59	2,388.2	-574.0	-546.4	203.9	2.17	2.17	0.00
İ	2,700.0	45.54	223.59	2,456.4	-624.3	-594.3	221.8	0.00	0.00	0.00
	2,800.0	45.54	223.59	2,526.4	-676.0	-643.5	240.1	0.00	0.00	0.00
	2,900.0	45.54	223.59	2,596.4	-727.7	-692.7	258.5	0.00	0.00	0.00
	2,976.9	45.54	223.59	2,650.3	-767.5	-730.6	272.6	0.00	0.00	0.00
	3,000.0	45.04	223.59	2,666.6	-779.4	-741.9	276.8	2.17	-2.17	0.00
	3,100.0	42.87	223.59	2,738.6	-829.6	-789.7	294.7	2.17	-2.17	0.00
	3,200.0	40.71	223.59	2,813.1	-877.9	-835.7	311.8	2.17	-2.17	0.00
	3,300.0	38.54	223.59	2,890.1	-924.1	-879.7	328.2	2.17	-2.17	0.00
	3,400.0	36.37	223.59	2,969.5	-968.1	-921.6	343.9	2.17	-2.17	0.00
	3,427.8	35.77	223.59	2,992.0	-980.0	-932.9	348.1	2.17	-2.17	0.00
	Menefee									
	3,500.0	34.21	223.59	3,051.1	-1,010.0	-961.4	358.7	2.17	-2.17	0.00
	3,600.0	32.04	223.59	3,134.9	-1,049.6	-999.1	372.8	2.17	-2.17	0.00
	3,700.0	29.88	223.59	3,220.6	-1,086.8	-1,034.6	386.0	2.17	-2.17	0.00
	3,800.0	27.71	223.59	3,308.2	-1,121.7	-1,067.8	398.4	2.17	-2.17	0.00
	3,900.0	25.55	223.59	3,397.6	-1,154.2	-1,098.7	410.0	2.17	-2.17	0.00
1	4,000.0	23.38	223.59	3,488.6	-1,184.2	-1,127.2	420.6	2.17	-2.17	0.00
li	4,100.0	21.21	223.59	3,581.2	-1,211.6	-1,153.4	430.4	2.17	-2.17	0.00
	4,200.0	19.05	223.59	3,675.0	-1,236.6	-1,177.1	439.2	2.17	-2.17	0.00

EOG Resources eog resources

Planning Report

Database: Company:

EDM

EOG Resources - Artesia Sandoval County (NAD83)

Project: Site:

Well:

Talladega

Wellbore: Design:

Talladega 14 Fed #602H Lateral

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Talladega 14 Fed #602H KB @ 7168.0usft (Planning Rig) KB @ 7168.0usft (Planning Rig)

ign:	Plan #1								
nned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
4,300.0 4,301.9	16.88 16.84	223.59 223.59	3,770.2 3,772.0	-1,258.9 -1,259.3	-1,198.4 -1,198.8	447.2 447.3	2.17 2.17	-2.17 -2.17	0.00 0.00
Point Lookou		225.59	5,112.0	-1,203.5	-1,190.0	447.5	2.17	-2.17	0.00
4,400.0 4,431.6	14.72 14.03	223.59 223.59	3,866.4 3,897.0	-1,278.6 -1,284.3	-1,217.2 -1,222.6	454.2 456.2	2.17 2.17	-2.17 -2.17	0.00 0.00
Mancos		220.00	0,001.0	1,20 110	.,	.00.2			0.00
4,500.0 4,600.0 4,700.0	12.55 10.39 8.22	223.59 223.59 223.59	3,963.6 4,061.6 4,160.2	-1,295.7 -1,310.1 -1,321.8	-1,233.4 -1,247.1 -1,258.3	460.2 465.3 469.5	2.17 2.17 2.17	-2.17 -2.17 -2.17	0.00 0.00 0.00
4,800.0	6.05	223.59	4,259.5	-1,330.8	-1,266.8	472.7	2.17	-2.17	0.00
4,900.0	3.89	223.59	4,359.1	-1,337.1	-1,272.8	474.9	2.17	-2.17	0.00
5,000.0	1.72	223.59	4,458.9	-1,340.6	-1,276.2	476.2	2.17	-2.17	0.00
5,003.1	1.66	223.59	4,462.0	-1,340.7	-1,276.2	476.2	2.17	-2.17	0.00
Gallup 5,079.6	0.00	0.00	4,538.5	-1,341.5	-1,277.0	476.5	2.16	-2.16	0.00
KOP 12*/100'	0.00	0.00	.,555.5	.,5	.,	5.5	25	23	0.00
5,100.0	2.45	135.00	4,558.9	-1,341.8	-1,276.7	476.9	12.02	12.02	0.00
5,125.0	5.45	135.00	4,583.9	-1,343.0	-1,275.5	478.6	12.00	12.00	0.00
5,150.0	8.45	135.00	4,608.7	-1,345.2	-1,273.3	481.5	12.00	12.00	0.00
5,175.0	11.45	135.00	4,633.3	-1,348.2	-1,270.3	485.7	12.00	12.00	0.00
5,200.0	14.45	135.00	4,657.7	-1,352.2	-1,266.3	491.2	12.00	12.00	0.00
5,225.0	17.45	135.00	4,681.7	-1,357.0	-1,261.5	497.9	12.00	12.00	0.00
5,250.0	20.45	135.00	4,705.3	-1,362.8	-1,255.7	505.8	12.00	12.00	0.00
5,275.0	23.45	135.00	4,728.5	-1,369.4	-1,249.1	514.9	12.00	12.00	0.00
5,300.0	26.45	135.00	4,751.2	-1,376.8	-1,241.7	525.1	12.00	12.00	0.00
5,325.0	29.45	135.00	4,773.3	-1,385.1	-1,233.4	536.5	12.00	12.00	0.00
5,350.0	32.45	135.00	4,794.7	-1,394.2	-1,224.3	549.0	12.00	12.00	0.00
5,375.0	35.45	135.00	4,815.4	-1,404.1	-1,214.4	562.6	12.00	12.00	0.00
5,400.0	38.45	135.00	4,835.4	-1,414.7	-1,203.8	577.2	12.00	12.00	0.00
5,425.0	41.45	135.00	4,854.6	-1,426.1	-1,192.4	592.8	12.00	12.00	0.00
5,450.0	44.45	135.00	4,872.9	-1,438.1	-1,180.4	609.4	12.00	12.00	0.00
5,475.0	47.45	135.00	4,890.3	-1,450.8	-1,167.7	626.8	12.00	12.00	0.00
5,500.0	50.45	135.00	4,906.7	-1,464.2	-1,154.4	645.2	12.00	12.00	0.00
5,525.0	53.45	135.00	4,922.1	-1,478.1	-1,140.4	664.3	12.00	12.00	0.00
5,550.0	56.45	135.00	4,936.4	-1,492.6	-1,126.0	684.2	12.00	12.00	0.00
5,575.0	59.45	135.00	4,949.7	-1,507.5	-1,111.0	704.8	12.00	12.00	0.00
5,600.0	62.45	135.00	4,961.8	-1,523.0	-1,095.5	726.1	12.00	12.00	0.00
5,625.0	65.45	135.00	4,972.8	-1,538.9	-1,079.7	747.9	12.00	12.00	0.00
5,650.0	68.45	135.00	4,982.6	-1,555.1	-1,063.4	770.3	12.00	12.00	0.00
5,675.0	71.45	135.00	4,991.2	-1,571.7	-1,046.8	793.1	12.00	12.00	0.00
5,700.0	74.45	135.00	4,998.5	-1,588.6	-1,029.9	816.3	12.00	12.00	0.00
5,725.0	77.45	135.00	5,004.6	-1,605.8	-1,012.8	839.9	12.00	12.00	0.00
5,750.0	80.45	135.00	5,009.4	-1,623.1	-995.4	863.8	12.00	12.00	0.00
5,775.0	83.45	135.00	5,012.8	-1,640.6	-977.9	887.8	12.00	12.00	0.00
5,800.0	86.45	135.00	5,015.0	-1,658.3	-960.3	912.1	12.00	12.00	0.00
5,825.0	89.45	135.00	5,015.9	-1,675.9	-942.6	936.3	12.00	12.00	0.00
5,829.6	90.00	135.00	5,016.0	-1,679.2	-939.4	940.8	11.91	11.91	0.00
	EOC 5830' MD (
5,900.0	90.00	135.00	5,016.0	-1,729.0	-889.6	1,009.3	0.00	0.00	0.00
6,000.0	90.00	135.00	5,016.0	-1,799.7	-818.9	1,106.5	0.00	0.00	0.00
6,100.0	90.00	135.00	5,016.0	-1,870.4	-748.2	1,203.8	0.00	0.00	0.00
6,200.0	90.00	135.00	5,016.0	-1,941.1	-677.5	1,301.0	0.00	0.00	0.00

EOG Resources Planning Report



eog resources

EDM Database:

Company: EOG Resources - Artesia Project: Sandoval County (NAD83)

Site: Talladega

Talladega 14 Fed #602H Wellbore: Lateral Design: Plan #1

Well:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Talladega 14 Fed #602H KB @ 7168.0usft (Planning Rig) KB @ 7168.0usft (Planning Rig)

esign:	FIGIT#1								
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)
6,400.0	90.00	135.00	5,016.0	-2,082.5	-536.1	1,495.5	0.00	0.00	0.00
6,500.0	90.00	135.00	5,016.0	-2,153.3	-465.4	1,592.7	0.00	0.00	0.00
6,600.0	90.00	135.00	5,016.0	-2,224.0	-394.7	1,690.0	0.00	0.00	0.00
6,700.0	90.00	135.00	5,016.0	-2,294.7	-324.0	1,787.2	0.00	0.00	0.00
6,800.0	90.00	135.00	5.016.0	-2,365.4	-253.3	1,884.4	0.00	0.00	0.00
6,900.0	90.00	135.00	5,016.0	-2,436.1	-182.6	1,981.7	0.00	0.00	0.00
7,000.0	90.00	135.00	5,016.0	-2,506.8	-111.9	2,078.9	0.00	0.00	0.00
7,100.0	90.00	135.00	5,016.0	-2,577.6	-41.2	2,176.2	0.00	0.00	0.00
7,200.0	90.00	135.00	5,016.0	-2,648.3	29.5	2,273.4	0.00	0.00	0.00
7,300.0	90.00	135.00	5,016.0	-2,719.0	100.3	2,370.6	0.00	0.00	0.00
7,400.0	90.00	135.00	5,016.0	-2,789.7	171.0	2,467.9	0.00	0.00	0.00
7,500.0	90.00	135.00	5,016.0	-2,860.4	241.7	2,565.1	0.00	0.00	0.00
7,600.0 7,700.0	90.00 90.00	135.00 135.00	5,016.0 5,016.0	-2,931.1 3,001.0	312.4	2,662.4	0.00	0.00	0.00
			5,016.0	-3,001.9	383.1	2,759.6	0.00	0.00	0.00
7,800.0	90.00	135.00	5,016.0	-3,072.6	453.8	2,856.8	0.00	0.00	0.00
7,900.0	90.00	135.00	5,016.0	-3,143.3	524.5	2,954.1	0.00	0.00	0.00
8,000.0	90.00	135.00	5,016.0	-3,214.0	595.2	3,051.3	0.00	0.00	0.00
8,100.0	90.00	135.00	5,016.0	-3,284.7	665.9	3,148.6	0.00	0.00	0.00
8,200.0	90.00	135.00	5,016.0	-3,355.4	736.6	3,245.8	0.00	0.00	0.00
8,300.0	90.00	135.00	5,016.0	-3,426.2	807.3	3,343.0	0.00	0.00	0.00
8,400.0	90.00	135.00	5,016.0	-3,496.9	878.0	3,440.3	0.00	0.00	0.00
8,500.0	90.00	135.00	5,016.0	-3,567.6	948.7	3,537.5	0.00	0.00	0.00
8,600.0	90.00	135.00	5,016.0	-3,638.3	1,019.4	3,634.8	0.00	0.00	0.00
8,700.0	90.00	135.00	5,016.0	-3,709.0	1,090.1	3,732.0	0.00	0.00	0.00
8,800.0	90.00	135.00	5,016.0	-3,779.7	1,160.8	3,829.2	0.00	0.00	0.00
8,900.0	90.00	135.00	5,016.0	-3,850.5	1,231.5	3,926.5	0.00	0.00	0.00
9,000.0	90.00	135.00	5,016.0	-3,921.2	1,302.2	4,023.7	0.00	0.00	0.00
9,100.0	90.00	135.00	5,016.0	-3,991.9	1,372.9	4,121.0	0.00	0.00	0.00
9,200.0	90.00	135.00	5,016.0	-4,062.6	1,443.6	4,218.2	0.00	0.00	0.00
9,300.0	90.00	135.00	5,016.0	-4,133.3	1,514.3	4,315.4	0.00	0.00	0.00
9,400.0	90.00	135.00	5,016.0	-4,204.0	1,585.1	4,412.7	0.00	0.00	0.00
9,500.0	90.00	135.00	5,016.0	-4,274.8	1,655.8	4,509.9	0.00	0.00	0.00
9,600.0	90.00	135.00	5,016.0	-4,345.5	1,726.5	4,607.2	0.00	0.00	0.00
9,700.0	90.00	135.00	5,016.0	-4,416.2	1,797.2	4,704.4	0.00	0.00	0.00
9,800.0	90.00	135.00	5,016.0	-4,486.9	1,867.9	4,801.6	0.00	0.00	0.00
9,900.0	90.00	135.00	5,016.0	-4,557.6	1,938.6	4,898.9	0.00	0.00	0.00
10,000.0	90.00	135.00	5,016.0	-4,628.3	2,009.3	4,996.1	0.00	0.00	0.00
10,100.0	90.00	135.00	5,016.0	-4,699.1	2,080.0	5,093.4	0.00	0.00	0.00
10,200.0	90.00	135.00	5,016.0	-4,769.8	2,150.7	5,190.6	0.00	0.00	0.00
10,300.0	90.00	135.00	5,016.0	-4,840.5	2,221.4	5,287.8	0.00	0.00	0.00
10,400.0	90.00	135.00	5,016.0	-4,911.2	2,221.4	5,385.1	0.00	0.00	0.00
10,500.0	90.00	135.00	5,016.0	-4,981.9	2,362.8	5,482.3	0.00	0.00	0.00
10,600.0	90.00	135.00	5,016.0	-5,052.6	2,433.5	5,579.6	0.00	0.00	0.00
10,700.0	90.00	135.00	5,016.0	-5,123.4	2,504.2	5,676.8	0.00	0.00	0.00
				-5,194.1					0.00
10,800.0 10,900.0	90.00 90.00	135.00 135.00	5,016.0 5,016.0	-5,194.1 -5,264.8	2,574.9 2,645.6	5,774.0 5,871.3	0.00 0.00	0.00 0.00	0.00
11,000.0	90.00	135.00	5,016.0	-5,204.6 -5,335.5	2,716.3	5,968.5	0.00	0.00	0.00
11,100.0	90.00	135.00	5,016.0	-5,406.2	2,710.3	6,065.8	0.00	0.00	0.00
11,200.0	90.00	135.00	5,016.0	-5,476.9	2,767.0	6,163.0	0.00	0.00	0.00
11,300.0	90.00	135.00	5,016.0 5,016.0	-5,547.7	2,928.4	6,260.2	0.00	0.00	0.00
11,400.0 11,500.0	90.00	135.00 135.00	5,016.0 5,016.0	-5,618.4 5,680.1	2,999.1	6,357.5 6,454.7	0.00	0.00	0.00
11,500.0	90.00		5,016.0 5,016.0	-5,689.1	3,069.8	6,454.7 6,552.0	0.00	0.00	0.00
	90.00	135.00		-5,759.8	3,140.6		0.00	0.00	0.00
11,700.0	90.00	135.00	5,016.0	-5,830.5	3,211.3	6,649.2	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database: EDM
Company: EOG Reso
Project: Sandoval 0

r: EOG Resources - Artesia Sandoval County (NAD83) Talladega

Well: Talladega 14 Fed #602H
Wellbore: Lateral
Design: Plan #1

Site:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Talladega 14 Fed #602H KB @ 7168.0usft (Planning Rig) KB @ 7168.0usft (Planning Rig)

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,800.0	90.00	135.00	5,016.0	-5,901.2	3,282.0	6,746.4	0.00	0.00	0.00
11,900.0	90.00	135.00	5,016.0	-5,972.0	3,352.7	6,843.7	0.00	0.00	0.00
12,000.0	90.00	135.00	5,016.0	-6,042.7	3,423.4	6,940.9	0.00	0.00	0.00
12,100.0	90.00	135.00	5,016.0	-6,113.4	3,494.1	7,038.2	0.00	0.00	0.00
12,200.0	90.00	135.00	5,016.0	-6,184.1	3,564.8	7,135.4	0.00	0.00	0.00
12,300.0	90.00	135.00	5,016.0	-6,254.8	3,635.5	7,232.6	0.00	0.00	0.00
12,400.0	90.00	135.00	5,016.0	-6,325.5	3,706.2	7,329.9	0.00	0.00	0.00
12,500.0	90.00	135.00	5,016.0	-6,396.3	3,776.9	7,427.1	0.00	0.00	0.00
12,600.0	90.00	135.00	5,016.0	-6,467.0	3,847.6	7,524.4	0.00	0.00	0.00
12,700.0	90.00	135.00	5,016.0	-6,537.7	3,918.3	7,621.6	0.00	0.00	0.00
12,800.0	90.00	135.00	5,016.0	-6,608.4	3,989.0	7,718.8	0.00	0.00	0.00
12,900.0	90.00	135.00	5,016.0	-6,679.1	4,059.7	7,816.1	0.00	0.00	0.00
13,000.0	90.00	135.00	5,016.0	-6,749.8	4,130.4	7,913.3	0.00	0.00	0.00
13,023.1	90.00	135.00	5,016.0	-6,766.2	4,146.8	7,935.8	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[T14F#602H]PBHL - plan hits target cent - Point	0.00 eer	360.00	5,016.0	-6,766.2	4,146.8	1,832,659.24	1,324,620.44	36° 1' 55.351 N	107° 19' 5.077 W
[T14F#602H]FTP - plan hits target cent - Point	0.00 er	360.00	5,016.0	-1,679.2	-939.4	1,837,746.26	1,319,534.28	36° 2' 45.096 N	107° 20' 7.685 W

mations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,541.7	1,515.0	Pictured Cliffs				
	1,867.0	1,807.0	Huerfanito Bentonite				
	2,377.7	2,224.0	Mesaverde				
	3,427.8	2,992.0	Menefee				
	4,301.9	3,772.0	Point Lookout				
	4,431.6	3,897.0	Mancos				
	5,003.1	4,462.0	Gallup				

Plan Annotations					
Measure	ed Vertical	Local C	oordinates		
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
50	0.0 500	.0 0.0	0.0	BEGIN 2*/100' NUDGE	
5,07	9.6 4,538	.5 -1,341.5	-1,277.0	KOP 12*/100'	
5,82	9.6 5,016	.0 -1,679.2	-939.4	[T14F#602H]EOC 5830' MD (5016' TVD)	
13,02	23.1 5,016	.0 -6,766.2	4,146.8	[T14F#602H]EOL 13023' MD (5016' TVD)	

DESIGN TARGET DETAILS

Name
[T14F#602H]FTP
- plan hits target center
[T14F#602H]PBHL

Jon bits target center

TVD

5016.0

- plan hits target center

Project:Sandoval County (NAD83)

Site: Talladega

Well: Talladega 14 Fed #602H

Wellbore: Lateral
Design: Plan #1
Ground Elevation 7150.0
Northing 1839425.43
Easting 1320473.67

KB @ 7168.0usft (Planning Rig)

PROJECT DETAILS: Sandoval County (NAD83)

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

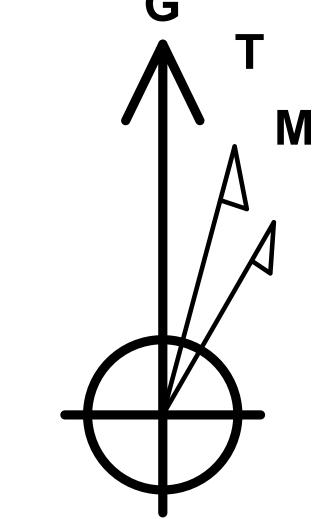
Ellipsoid: GRS 1980

Zone: New Mexico Central Zone

System Datum: Mean Sea Level

BEGIN 2*/100' NUDGE

500



Azimuths to Grid North
True North: 0.64°
Magnetic North: 9.33°

Magnetic Field Strength: 49337.9nT Dip Angle: 62.70° Date: 9/1/2020 Model: IGRF2020



+N/-S

-1679.2

-6766.2

+E/-W

-939.4

4146.8

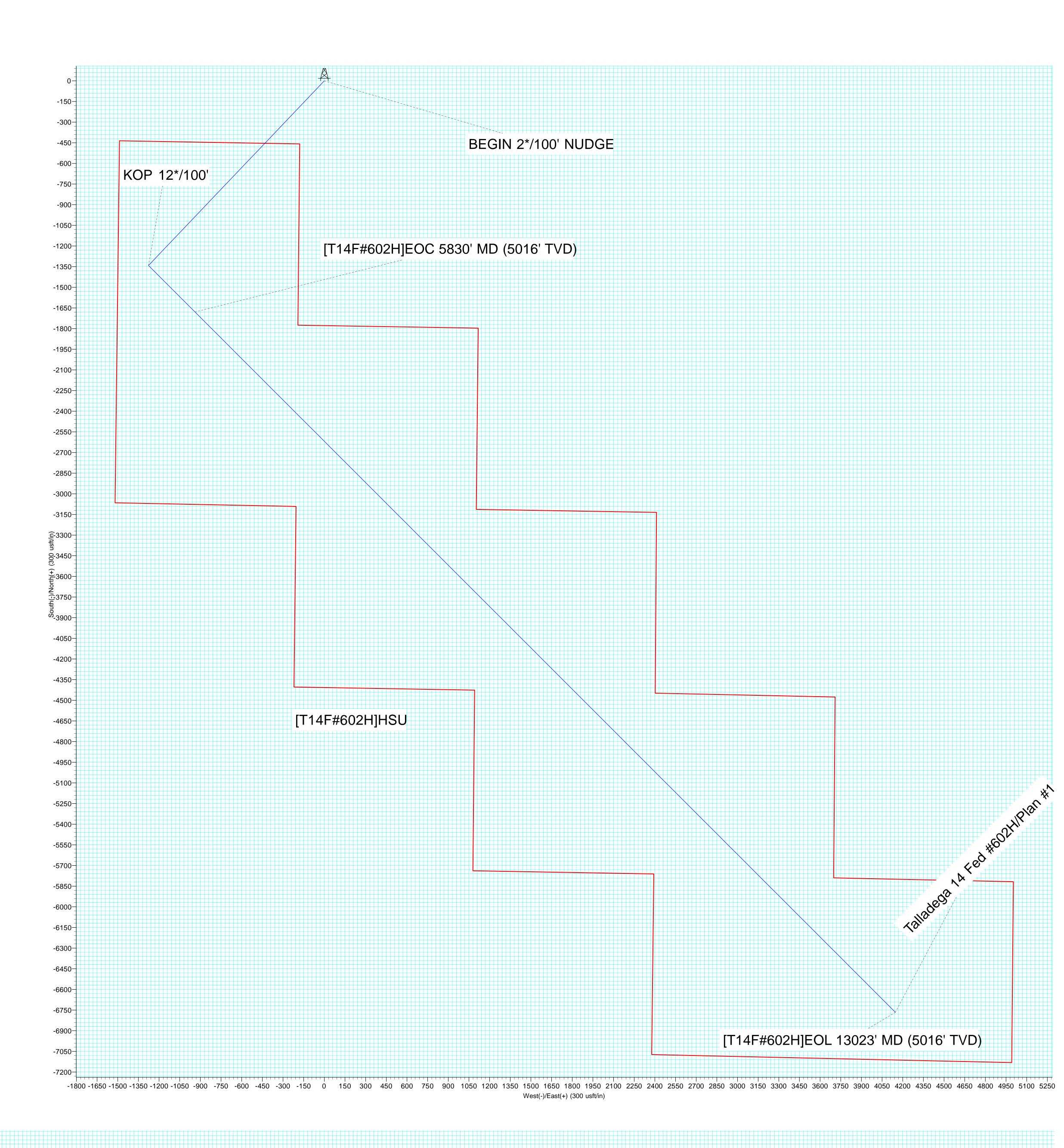
SECTION DETAILS

Northing

1837746.26

1832659.24

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0
3	2602.7	45.54	223.59	2388.2	-574.0	-546.4	2.17	223.59	203.9
4	2976.9	45.54	223.59	2650.3	-767.5	-730.6	0.00	0.00	272.6
5	5079.6	0.00	0.00	4538.5	-1341.5	-1277.0	2.17	180.00	476.5
6	5829.6	90.00	135.00	5016.0	-1679.1	-939.4	12.00	135.00	940.8
7	13023.1	90.00	135.00	5016.0	-6766.2	4146.8	0.00	0.00	7935.8



[T14F#602H]EOC 5830' MD (5016' TVD)

KOP 12*/100'

[T14F#602H]EOL 13023' MD (5016' 7

Page 17 of 25

Easting

1319534.28

1324620.44

 $Rel_{2} \Omega_{10}



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Farmington District Office 6251 College Blvd, Suite A Farmington, New Mexico 87402

In Reply Refer To: 3162.3-1(NMF0110)

* EOG RESOURCES INCORPORATED

#602H Talladega 14 Fed

Lease: NMNM139402

SH: SW1/4NE1/4 Section 14, T.21 N., R.5 W.

Sandoval County, New Mexico

BH: NE1/4SW1/4 Section 24, T.21 N., R.5 W.

Sandoval County, New Mexico

*Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

A. Note all surface/drilling conditions of approval attached.
B. The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
C. Test the surface casing to a minimum of psi for 30 minutes.
D. Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.
E. Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, Farmington District Office, Branch of Reservoir Management, 6251 College Blvd. Suite A, Farmington, New Mexico 87402. The effective date of the agreement must be prior to any sales.
F. \(\subseteq \) The use of co-flex hose is authorized contingent upon the following: 1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to at Virgil Lucero at 505-793-1836.
- G. The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.
- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all time, unless the well is secured with blowout preventers or cement plugs.
- J. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed.
 - 1 .Original and three copies on Federal and an Original and five copies on Indian leases of Sundry Notice (Form 3150-5), giving complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of any and all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include; size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the manner in which the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report (Form 3160-4) will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log, if cement is not circulated to surface.

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of *Days or 50 MMCF following its (completion)(recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the first gas to surface.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any changes of plans required in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.F.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.F. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.
- B. Emergency program changes after hours contact:

Virgil Lucero (505) 793-1836 Joe Killins (505) 564-7736 John Hoffman (505) 564-7742

EXIBIT 1a
EOG Resources, Inc.
3M Choke Manifold Equipment

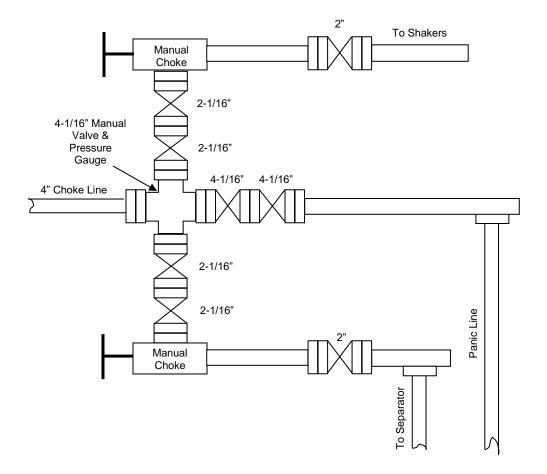
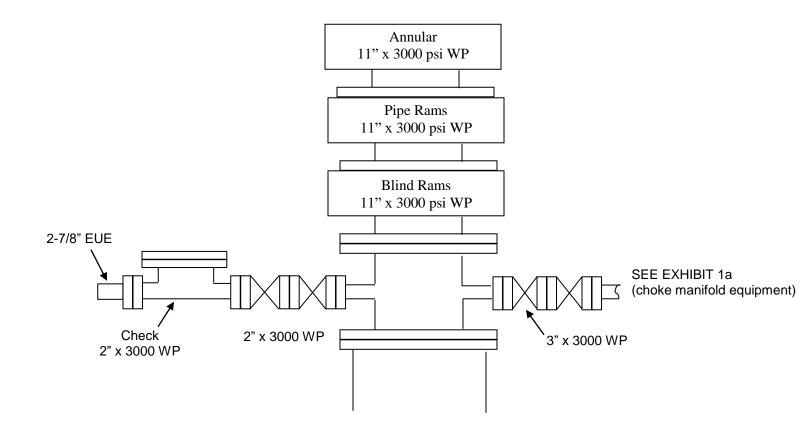


EXHIBIT 1

EOG Resources 3000 PSI BOPE



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

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**

COMMENTS

Action 24969

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	24969	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/22/2021	04/22/2021

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

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 24969

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	24969	FORM 3160-3

OCD Reviewer	Condition
kpickford	Surface Casing is required go to 320'
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	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
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	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