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. NMNM139386 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 FALCON 05 FED 610H 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 30-043-21465 3a. Address 3b. Phone No. (include area code) Field and Pool, or Exploratory 10. 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002 (713) 651-7000 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 5/T21N/R4W/NMP At surface SWSW / 663 FSL / 148 FWL / LAT 36.072476 / LONG -107.28779 At proposed prod. zone SWNE / 1383 FNL / 1428 FEL / LAT 36.066858 / LONG -107.275164 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 320.0 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: NM2308 5166 feet / 9193 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 7089 feet 12/31/2020 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 LACEY GRANILLO / Ph: (713) 651-7000 (Electronic Submission) 12/04/2020 Title Contractor Regulatory Specialist Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) DAVE J MANKIEWICZ / Ph: (505) 564-7761 05/25/2021 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.

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.



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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

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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 28 Revised August 1, 2011

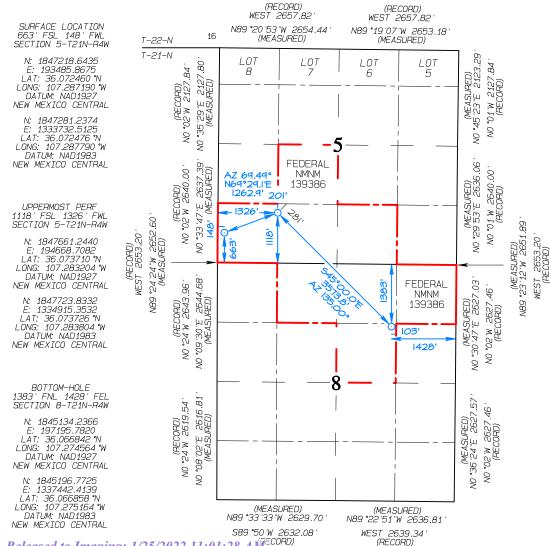
Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-043-2	PI Numbe 1465	Pool Code Pool Name WILDCAT OIL WC 21N4W6;GALLUP							;GALLUP		
⁴Property 332105	Code	⁵Property Name FALCON O5 FED							°Well Number 610H		
70GRID N			*Operator Name *Elevation EOG RESOURCES, INC 7089'							levation	
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	
М	5	21N	4W		663	SOUTH	148	WE	ST	SANDOVAL	
		1	¹ Botto	m Hole	Location :	If Different F	rom Surfac	e			
UL or lot no.	Section	Township	wnship Range Lot Idn Feet from the North/South line Feet from the					East/We	est line	County	
G	8	21N	21N 4W 1383 NORTH 1428 EAST SAND							SANDOVAL	
Dedicated Acres 32	0.00	13 Joint or Infill 14 Consolidation Code 15 Order No.							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

Thereby 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.

Signature Lacey Granillo Date Printed Name lacey_granillo@eogresources.com E-mail Address

Lacey Granille

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: OCTOBER 16, 2020 Date of Survey: JULY 6, 2020

Signature and Seal of Professional Surveyor



DWARDS

Certificate Number

15269

10/22/20

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 <u>Effective May 25, 2021</u>

I. Operator: EOG RESOURCES, INC	OGRID:7377_	Date: _1_/_19_/_22
II. Type: ⊠ Original □ Amendment due to □ 19	.15.27.9.D(6)(a) NMAC □ 19.1	15.27.9.D(6)(b) NMAC □ Other.
If Other, please describe:		
III. Well(s): Provide the following information for	each new or recompleted well	or set of wells proposed to be drilled or proposed t

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil BBL/D	Gas	Produced Water
					MCF/D	BBL/D
FALCON 05 FEDERAL 601H	PENDING	M-5-21N-4W	638 FSL & 88 FWL	279	226	335
FALCON 05 FEDERAL 602H	30-043-21458	M-5-21N-4W	620 FSL & 106 FWL	279	226	335
FALCON 05 FEDERAL 603H	PENDING	M-5-21N-4W	648 FSL & 99 FWL	376	518	413
FALCON 05 FEDERAL 604H	30-043-21459	M-5-21N-4W	631 FSL & 116 FWL	376	518	413
FALCON 05 FEDERAL 605H	30-043-21460	M-5-21N-4W	659 FSL & 109 FWL	279	226	335
FALCON 05 FEDERAL 606H	30-043-21461	M-5-21N-4W	642 FSL & 127 FWL	279	226	335
FALCON 05 FEDERAL 607H	30-043-21462	M-5-21N-4W	670 FSL & 120 FWL	376	518	413
FALCON 05 FEDERAL 608H	30-043-21463	M-5-21N-4W	652 FSL & 137 FWL	376	518	413
FALCON 05 FEDERAL 609H	30-043-21464	M-5-21N-4W	681 FSL & 130 FWL	279	226	335
FALCON 05 FEDERAL 610H	30-043-21465	M-5-21N-4W	663 FSL & 148 FWL	279	226	335

IV. Central Delivery Point Name: Harvest Four Corners LLC [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
FALCON 05 FEDERAL 601H	PENDING	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 602H	30-043-21458	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 603H	PENDING	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 604H	30-043-21459	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 605H	30-043-21460	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 606H	30-043-21461	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 607H	30-043-21462	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23

FALCON 05 FEDERAL 608H	30-043-21463	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 609H	30-043-21464	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23
FALCON 05 FEDERAL 610H	30-043-21465	4/25/23	5/25/23	6/25/23	6/25/23	6/25/23

VI. Separation Equipment:

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

VIII. Best Management Practices:

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

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022								
	Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.							
	☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.							
IX. Anticipated Na	atural Gas Productio	on:						
W	Vell	API	Anticipated Average Natural Gas Rate MCF/D		l Volume of Natural ne First Year MCF			
X. Natural Gas Ga	athering System (NG	GGS):						
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date		num Daily Capacity Segment Tie-in			
production operation the segment or port XII. Line Capacity	ons to the existing or p nion of the natural gas y. The natural gas gat	planned interconnect of t gathering system(s) to v	ocation of the well(s), the antiche natural gas gathering systewhich the well(s) will be community will not have capacity to gettion.	em(s), and the maxinected.	imum daily capacity of			
			at its existing well(s) connect meet anticipated increases in					
☐ Attach Operator's plan to manage production in response to the increased line pressure.								
XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.								

Section 3 - Certifications

Effective May 25, 2021

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:

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Lacey Graníllo
Printed Name: Lacey Granillo
Title: Regulatory Specialist
E-mail Address: lacey_granillo@eogresourcesc.om
Date: 1/19/22
Phone: 575-909-5284
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

EOG Resources, Inc.
FALCON 05 FEDERAL 610H
FLACON PAD
Natural Gas Management Plan

VI. Separation Equipment

Separation equipment will be built on the subject well pad. The anticipated production rates from this well will be accounted for during design/construction to ensure sufficient capacity exists at the surface to capture all produced fluids.

VII. Operational Practices

EOG Resources, Inc., will take the following actions outlined below to comply with 19.15.27.8 NMAC

- 1) EOG Resources, Inc., plans to maximize recovery of natural gas and minimize waste thru venting / flaring.
- 2) EOG Resources, Inc., plans to flare during drilling operations from a location exceeding 100' away from the SHL. The flare will be used to combust natural gas brought to the surface during normal drilling operations. Safety will remain priority #1, and EOG Resources, Inc., will account and report appropriately pertaining to any potential emergency.
- 3) EOG Resources, Inc., plans to flare any natural gas brought to the surface during normal completions operations. During flowback, fluids will immediately flow thru a separator, gas will not be flared/vented unless there's a safety concern with pressures at the surface. Gas is expected to meet pipeline standards; if not, EOG Resources, Inc., will flare for the allowed 60 days or less until the gas meets quality specifications. EOG Resources, Inc., plans to sample the produced gas at a reasonable frequency or upon request from regulatory bodies.
- 4) EOG Resources, Inc., does not plan to flare or vent natural gas except during situations outlined in 19.15.27.8 D. (1-4).
- 5) EOG Resources, Inc., will comply with standards outlined in 19.15.27.8 E. (1-8). EOG Resources, Inc., will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
- 6) The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completion operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, EOG Resources, Inc., will estimate the volume of vented or flared natural gas. Custody transfer measurement equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. Best Management Practices

Pressure maintenance at surface is vital to maintain safe working conditions; venting will be utilized only to depressurize our surface equipment. When maintaining surface or downhole equipment associated with our current production, the well will be shut in to eliminate venting. If maintenance works takes place on the gas gathering side, gas will route to flare to eliminate venting.

WELL LOCATION AND ACREAGE DEDICATION PLAT

Δ, 1	PI Numbe	r		°Pool Cod	е	³Pool Name WILDCAT OIL				
⁴Property	Code		Property Name FALCON 05 FED							11 Number 610H
70GRID N					°Operator EOG RESOUI					levation 7089'
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
М	5	21N	4W		663	SOUTH	148	WES	ST	SANDOVAL
			¹¹ Bottom Hole Location If Different From Surface							
UL or lot no.	Section	Township	Range	Lot Idn Feet from the North/South line Feet				East/Wes	st line	County
G	8	21N	4W		1383	NORTH	1428	EAS	ST	SANDOVAL

1. GEOLOGIC NAME OF SURFACE FORMATION:

Nacimiento

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

	MD	TVD
Pictured Cliffs	1,753'	1,718'
Huerfanito Bentonite	2,049'	1,996'
Mesaverde	2,529'	2,448'
Menefee	3,325'	3,196'
Point Lookout	4,091'	3,919'
Mancos Shale	4,264'	4,087
Gallup	4,830'	4,649'
Horizontal TD	9,193'	5,166'

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

	TVD	
Pictured Cliffs	1,718'	Gas
Mesaverde	2,448'	Gas
Menefee	3,196'	Gas/Oil
Point Lookout	3,919'	Oil
Mancos Shale	4,087	Oil
Gallup	4.649'	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 300' and circulating cement back to surface.



4. CASING PROGRAM - NEW

Hole & Casing String:

Hole	T / 1		Csg	***	G 1		DF _{min}	DF _{min}	DFmin	DF _{min}
Size	Interval	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Joint	Body
	(MD)	(TVD)							Tension	Tension
17.5"	0'-300'	300'	13 3/8"	48#	H-40	STC	1.125	1.25	1.60	1.80
12.25"	0' - 3,435'	3,300'	9 5/8"	36#	J-55	LTC	1.125	1.25	1.60	1.80
8.75"	0'- 5,620'	5,166'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
8.5"	5,620'-	5,166'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
	9,193'									

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:

Come	it Design	5** •			
Donth	No.	Wt.	Yld Ft ³ /sk	Volume Ft ³	Character Description
Depth	Sacks	lb/gal	Ft ^e /SK	r t	Slurry Description
300'	315	14.8	1.34	422	Tail: Class 'C' + 2%PF1(Calcium Chloride) (100% excess)
3,435'	1050	12.8	1.79	1880	Lead: 35:65 Poz C + .02 gal/sk Anti Foam + 1% Extender +
					.13 lb/sk Lost Circulation (TOC @ Surface) (100% excess)
	205	14.8	1.33	273	Tail: Class C + 0.13% Anti Foam
9,193'	375	11.9	2.47	926	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
	750	13	1.48	1110	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' - 3,435'	WBM	8.8-9.4	30-34	N/c	
Vertical					
3,435' – 9,193'	WBM	8.8-9.4	30-34	<10	OBM
Curve/Lateral					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 2525 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.

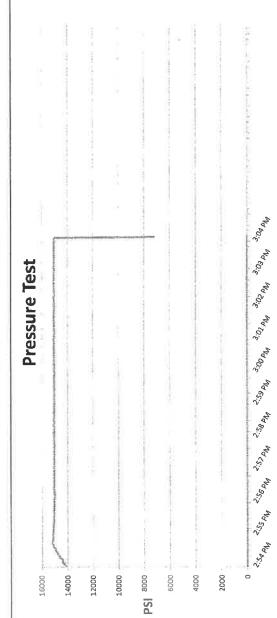
INTERNAL HYDROSTATIC TEST CERTIFICATE								
Customer:			Customer P.C). Number:				
GRA	AND JUNCTION		1787	55				
HOSE SPECIFICATIONS								
Type: CHOKE H								
GRADE E	/ API 7K		Hose Length:	15 FEET				
	4 INCHES	O.D.	6.11	INCHES				
WORKING PRESSURE	TEST PRESSUR	RE	BURST PRESSU	JRE				
10,000 PSI	15,000	PSI	N/A	PSI				
10,000	10,000	1 01	I IVA	rai				
		PLINGS						
Part Number	Stem Lot Nur		Ferrule Lot N	lumber				
E4.0X64WB		9764	N440	, ,				
E4.0X64WB	809	9764	N440	6				
Type of Coupling:		Die Size:						
SWAGE	i-IT	6.62 INCHES						
	PROC	EDURE						
Hose assemb	ly pressure tested w	ith water at ambier	nt temperature					
	T TEST PRESSURE		URST PRESSURE	:				
0.24	4							
9 3/4 Hose Assembly Ser		Hose Serial N	N/A	PSI				
19700		Tiose Serial N	10088					
Comments:			10000					
Date:	Tested:		Approved:	17.				
4/10/2013	Billi	.: Bole K 1	John !	Alex-				

April 10, 2013

Internal Hydrostatic Test Graph

: 197000	Verification	Coupling Method Swage Final O.D. 6.65" Hose Assembly Serial #
Pick Ticket #: 197000	Veri	Type of Fitting 4 1/16 10k Die Size 6.62 Hose Serial # 10088
Grand J	cifications	Length 15' 0.D. 6.11" Burst Pressure Standard Safety Wultiplier Applies
Customer: Grand J	Hose Specification	Hose Type E LD. 4"" Working Pressure 10000 PSI

Midwest Hose & Specialty, Inc.



Actual Burst Pressure Time in Minutes Time Held at Test Pressure 93/4 Minutes Test Pressure 15000 PSI

Tested By: Billy Balak

Peak Pressure 15263 PSI

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

Released to Imaging: 1/25/2022 11:01:28 AM

Approved By. Joshua Dahlem



EOG Resources - Artesia

Sandoval County (NAD83) Falcon Falcon 05 Fed #610H

Lateral

Plan: Plan #1

Standard Planning Report

21 October, 2020

eog resources

EOG Resources

Planning Report

EDM Database:

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

Site:

Well:

Falcon Falcon 05 Fed #610H

Wellbore: Lateral Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Falcon

KB @ 7107.0usft (Planning Rig) KB @ 7107.0usft (Planning Rig)

Minimum Curvature

Project Sandoval County (NAD83)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Central Zone

System Datum:

Mean Sea Level

Falcon Site

Northing: 1,847,256.49 usft Site Position: Latitude: 36° 4' 20.661 N From: Мар Easting: 1,333,672.41 usft Longitude: 107° 17' 16.773 W **Position Uncertainty:** Slot Radius: **Grid Convergence:** -0.61 0.0 usft 13-3/16 "

Well Falcon 05 Fed #610H

Well Position +N/-S 24.7 usft +E/-W 60.1 usft Northing: Easting:

1,847,281.24 usft 1,333,732.51 usft Latitude: Longitude:

36° 4' 20.912 N 107° 17' 16.044 W

Position Uncertainty 0.0 usft Wellhead Elevation: **Ground Level:** 7,089.0 usft

Wellbore Lateral Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2020 10/12/2020 8.67 62.72 49.344.96550633

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) (°) 0 0 24.7 60.1 119.33

Plan Survey Tool Program 10/14/2020 Date

Depth From Depth To

0.0

(usft) (usft) Survey (Wellbore) 9,193.4

Plan #1 (Lateral)

MWD

Tool Name

OWSG MWD - Standard

Remarks

Plan Sections Vertical Dogleg Build Measured Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) (°) **Target** 0.00 0.00 0.0 0.00 0.0 24.7 60.1 0.00 0.00 0.00 500.0 0.00 0.00 500.0 24.7 60.1 0.00 0.00 0.00 0.00 1,492.3 19.85 47.29 1,472.6 140.2 185.1 2.00 2.00 0.00 47.29 3.877.3 19.85 47.29 3.715.9 689.3 780.1 0.00 0.00 0.00 0.00 4,869.6 4,688.5 804.7 905.1 0.00 0.00 360 00 2 00 -2 00 180 00 5,619.6 90.00 135.00 5,166.0 467.2 1,242.7 12.00 12.00 18.00 135.00 9,193.4 90.00 135.00 5,166.0 -2,059.7 3,770.0 0.00 0.00 0.00 0.00 [F05F#610H]PBHL

EOG Resources

Planning Report

beog resources

Database: EDM

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

Site: Falcon

Well: Falcon 05 Fed #610H

Wellbore: Lateral Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Falcon

KB @ 7107.0usft (Planning Rig) KB @ 7107.0usft (Planning Rig)

Grid

ned 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	24.7	60.1	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	24.7	60.1	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	24.7	60.1	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	24.7	60.1	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	24.7	60.1	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	24.7	60.1	0.0	0.00	0.00	0.00
BEGIN 2*/1	00' NUDGE								
600.0	2.00	47.29	600.0	25.9	61.4	0.5	2.00	2.00	0.00
700.0	4.00	47.29	699.8	29.5	65.2	2.2	2.00	2.00	0.00
800.0	6.00	47.29	799.5	35.4	71.6	4.8	2.00	2.00	0.00
900.0	8.00	47.29	898.7	43.7	80.6	8.6	2.00	2.00	0.00
1,000.0	10.00	47.29	997.5	54.3	92.1	13.4	2.00	2.00	0.00
1,100.0	12.00	47.29	1,095.6	67.2	106.1	19.3	2.00	2.00	0.00
1,200.0	14.00	47.29	1,193.1	82.5	122.6	26.2	2.00	2.00	0.00
1,300.0	16.00	47.29	1,193.1	100.0	141.7	34.2	2.00	2.00	0.00
1,400.0	18.00	47.29	1,385.3	119.9	163.1	43.2	2.00	2.00	0.00
1,492.3	19.85	47.29	1,472.6	140.2	185.1	52.5	2.00	2.00	0.00
1,500.0 1,600.0	19.85	47.29	1,479.8	141.9	187.0	53.3	0.00	0.00	0.00
1,600.0	19.85	47.29	1,573.9	165.0	212.0	63.7	0.00	0.00	0.00
1,753.2	19.85 19.85	47.29 47.29	1,667.9 1,718.0	188.0 200.2	236.9 250.2	74.2 79.8	0.00 0.00	0.00 0.00	0.00 0.00
Pictured CI		47.29	1,7 16.0	200.2	250.2	79.0	0.00	0.00	0.00
Fictured Ci									
1,800.0	19.85	47.29	1,762.0	211.0	261.9	84.7	0.00	0.00	0.00
1,900.0	19.85	47.29	1,856.1	234.0	286.8	95.1	0.00	0.00	0.00
2,000.0	19.85	47.29	1,950.1	257.1	311.8	105.6	0.00	0.00	0.00
2,048.8	19.85	47.29	1,996.0	268.3	323.9	110.7	0.00	0.00	0.00
Huerfanito		47.00	0.044.0	200.4	220.7	440.4	0.00	0.00	0.00
2,100.0	19.85	47.29	2,044.2	280.1	336.7	116.1	0.00	0.00	0.00
2,200.0	19.85	47.29	2,138.2	303.1	361.7	126.6	0.00	0.00	0.00
2,300.0	19.85	47.29	2,232.3	326.1	386.6	137.0	0.00	0.00	0.00
2,400.0	19.85	47.29	2,326.4	349.2	411.6	147.5	0.00	0.00	0.00
2,500.0	19.85	47.29	2,420.4	372.2	436.5	158.0	0.00	0.00	0.00
2,529.3	19.85	47.29	2,448.0	378.9	443.8	161.0	0.00	0.00	0.00
Mesaverde									
2,600.0	19.85	47.29	2,514.5	395.2	461.5	168.4	0.00	0.00	0.00
2,700.0	19.85	47.29	2,608.6	418.2	486.4	178.9	0.00	0.00	0.00
2,800.0	19.85	47.29	2,702.6	441.3	511.3	189.4	0.00	0.00	0.00
2,900.0	19.85	47.29	2,796.7	464.3	536.3	199.8	0.00	0.00	0.00
3,000.0	19.85	47.29	2,890.7	487.3	561.2	210.3	0.00	0.00	0.00
3,100.0	19.85	47.29	2,984.8	510.4	586.2	220.8	0.00	0.00	0.00
3,200.0	19.85	47.29	3,078.9	533.4	611.1	231.2	0.00	0.00	0.00
3,300.0	19.85	47.29	3,172.9	556.4	636.1	241.7	0.00	0.00	0.00
3,324.5	19.85	47.29	3,196.0	562.1	642.2	244.3	0.00	0.00	0.00
Menefee									
3,400.0	19.85	47.29	3,267.0	579.4	661.0	252.2	0.00	0.00	0.00
3,500.0	19.85	47.29	3,361.0	602.5	686.0	262.6	0.00	0.00	0.00
3,600.0	19.85	47.29	3,455.1	625.5	710.9	273.1	0.00	0.00	0.00
3,700.0	19.85	47.29	3,549.2	648.5	735.9	283.6	0.00	0.00	0.00
3,800.0	19.85	47.29	3,643.2	671.5	760.8	294.0	0.00	0.00	0.00
3,877.3	19.85	47.29	3,715.9	689.3	780.1	302.1	0.00	0.00	0.00
3,900.0				694.5		304.5		-2.00	0.00
4,000.0	19.39 17.39	47.29 47.29	3,737.3 3,832.2	694.5 715.9	785.7 808.9	304.5 314.2	2.00 2.00	-2.00 -2.00	0.00
4,090.5	15.58	47.29 47.29	3,919.0	733.3	827.7	322.1	2.00	-2.00 -2.00	0.00

eog resources

EOG Resources

Planning Report

Database: EDM

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

Site: Falcon

Well: Falcon 05 Fed #610H

Wellbore: Lateral Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Falcon

KB @ 7107.0usft (Planning Rig) KB @ 7107.0usft (Planning Rig)

Grid

		FIAII # I								
d Surv	/ev									
Meas	sured	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	sft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
•	,	()	()	(,	(doit)	(uoit)	()	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,	(
	nt Lookou									
	4,100.0	15.39	47.29	3,928.1	735.1	829.6	322.9	2.00	-2.00	0.00
2	4,200.0	13.39	47.29	4,025.0	751.9	847.9	330.6	2.00	-2.00	0.00
4	4,263.6	12.12	47.29	4,087.0	761.4	858.2	334.9	2.00	-2.00	0.00
Man	icos									
4	4,300.0	11.39	47.29	4,122.7	766.5	863.6	337.2	2.00	-2.00	0.00
4	4,400.0	9.39	47.29	4,221.0	778.7	876.9	342.8	2.00	-2.00	0.00
	4,500.0	7.39	47.29	4,319.9	788.6	887.6	347.3	2.00	-2.00	0.00
4	4,600.0	5.39	47.29	4,419.3	796.2	895.8	350.7	2.00	-2.00	0.00
4	4,700.0	3.39	47.29	4,519.0	801.3	901.4	353.1	2.00	-2.00	0.00
	4,800.0	1.39	47.29	4,618.9	804.2	904.5	354.3	2.00	-2.00	0.00
	4,830.1	0.79	47.29	4,649.0	804.6	904.9	354.5	2.00	-2.00	0.00
Тор	Gallup									
•	4,869.6	0.00	360.00	4,688.5	804.7	905.1	354.6	2.00	-2.00	0.00
	2 12*/100'									
	4,875.0	0.65	135.00	4,693.9	804.7	905.1	354.6	12.02	12.02	0.00
	4.900.0	3.65	135.00	4,718.9	804.1	905.8	355.5	12.00	12.00	0.00
	4,900.0 4,925.0	6.65	135.00	4,743.8	802.5	903.6	357.7	12.00	12.00	0.00
	4,950.0	9.65	135.00	4,768.5	800.0	909.9	361.1	12.00	12.00	0.00
	4,975.0	12.65	135.00	4,793.1	796.6	913.3	365.8	12.00	12.00	0.00
	5,000.0	15.65	135.00	4,817.3	792.2	917.6	371.6	12.00	12.00	0.00
						922.8				
	5,025.0 5,050.0	18.65 21.65	135.00 135.00	4,841.2 4,864.6	787.0 780.9	922.8 928.9	378.7 387.0	12.00 12.00	12.00 12.00	0.00 0.00
	5,030.0 5,075.0	24.65	135.00	4,887.6	774.0	935.9	396.5	12.00	12.00	0.00
	5,075.0 5,100.0	27.65	135.00	4,910.1	766.2	943.7	407.1	12.00	12.00	0.00
	5,125.0	30.65	135.00	4,931.9	757.6	952.3	418.8	12.00	12.00	0.00
	5,150.0	33.65	135.00	4,953.1	748.2	961.7	431.6	12.00	12.00	0.00
	5,130.0 5,175.0	36.65	135.00	4,973.5	738.0	971.9	445.5	12.00	12.00	0.00
	5,200.0	39.65	135.00	4,993.2	727.1	982.8	460.4	12.00	12.00	0.00
	5,225.0	42.65	135.00	5,012.0	715.5	994.4	476.2	12.00	12.00	0.00
	5,250.0	45.65	135.00	5,029.9	703.2	1,006.7	493.0	12.00	12.00	0.00
	5,275.0	48.65	135.00	5,046.9	690.2	1,019.7	510.6	12.00	12.00	0.00
	5,275.0 5,300.0	51.65	135.00	5,062.9	676.6	1,019.7	529.1	12.00	12.00	0.00
	5,325.0	54.65	135.00	5,077.9	662.5	1,033.2	548.3	12.00	12.00	0.00
	5,350.0	57.65	135.00	5,091.9	647.8	1,062.1	568.3	12.00	12.00	0.00
	5,375.0	60.65	135.00	5,104.7	632.6	1,077.2	589.0	12.00	12.00	0.00
	5,400.0	63.65	135.00	5,116.4	617.0	1,092.9	610.3	12.00	12.00	0.00
	5,400.0 5,425.0	66.65	135.00	5,126.9	601.0	1,108.9	632.1	12.00	12.00	0.00
	5,420.0 5,450.0	69.65	135.00	5,136.2	584.6	1,125.3	654.5	12.00	12.00	0.00
	5,475.0	72.65	135.00	5,144.2	567.8	1,142.1	677.2	12.00	12.00	0.00
	5,500.0	75.65	135.00	5,151.1	550.8	1,159.1	700.4	12.00	12.00	0.00
	5,525.0	78.65	135.00	5,156.6	533.6	1,176.3	723.9	12.00	12.00	0.00
	5,525.0 5,550.0	78.65 81.65	135.00	5,156.6 5,160.9	533.6 516.2	1,176.3	723.9 747.6	12.00	12.00	0.00
	5,530.0 5,575.0	84.65	135.00	5,163.9	498.6	1,193.7	747.0	12.00	12.00	0.00
	5,600.0	87.65	135.00	5,165.6	481.0	1,228.9	795.5	12.00	12.00	0.00
	5,619.6	90.00	135.00	5,166.0	467.1	1,242.8	814.3	11.99	11.99	0.00
		EOC 5620' MD (,						
•	-	•	,	E 400 0	440.0	1 200 0	004.0	0.00	0.00	0.00
	5,700.0	90.00	135.00	5,166.0	410.3	1,299.6	891.8 988.0	0.00	0.00	0.00
	5,800.0 5,900.0	90.00 90.00	135.00 135.00	5,166.0 5,166.0	339.6 268.9	1,370.3 1,441.0	1,084.3	0.00 0.00	0.00 0.00	0.00 0.00
	5,900.0 6,000.0	90.00	135.00	5,166.0	198.2	1,511.8	1,180.6	0.00	0.00	0.00
	6,100.0	90.00	135.00	5,166.0	127.5	1,511.6	1,100.0	0.00	0.00	0.00
	6,200.0	90.00	135.00	5,166.0	56.8	1,653.2	1,373.2	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database: EDM

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

Falcon 05 Fed #610H

Site: Falcon

Well:

Wellbore: Lateral Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Falcon

KB @ 7107.0usft (Planning Rig) KB @ 7107.0usft (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)
6,300.0	90.00	135.00	5,166.0	-13.9	1,723.9	1,469.5	0.00	0.00	0.00
6,400.0	90.00	135.00	5,166.0	-84.6	1,794.6	1,565.8	0.00	0.00	0.00
6,500.0	90.00	135.00	5,166.0	-155.3	1,865.3	1,662.0	0.00	0.00	0.00
6,600.0	90.00	135.00	5,166.0	-226.0	1,936.1	1,758.3	0.00	0.00	0.00
6,700.0	90.00	135.00	5,166.0	-296.8	2,006.8	1,854.6	0.00	0.00	0.00
6,800.0	90.00	135.00	5,166.0	-367.5	2,077.5	1,950.9	0.00	0.00	0.00
6,900.0	90.00	135.00	5,166.0	-438.2	2,148.2	2,047.2	0.00	0.00	0.00
7,000.0	90.00	135.00	5,166.0	-508.9	2,218.9	2,143.5	0.00	0.00	0.00
7,100.0	90.00	135.00	5,166.0	-579.6	2,289.6	2,239.8	0.00	0.00	0.00
7,200.0	90.00	135.00	5,166.0	-650.3	2,360.4	2,336.0	0.00	0.00	0.00
7,300.0	90.00	135.00	5,166.0	-721.0	2,431.1	2,432.3	0.00	0.00	0.00
7,400.0	90.00	135.00	5,166.0	-791.7	2,501.8	2,528.6	0.00	0.00	0.00
7,500.0	90.00	135.00	5,166.0	-862.4	2,572.5	2,624.9	0.00	0.00	0.00
7,600.0	90.00	135.00	5,166.0	-933.1	2,643.2	2,721.2	0.00	0.00	0.00
7,700.0	90.00	135.00	5,166.0	-1,003.8	2,713.9	2,817.5	0.00	0.00	0.00
7,800.0	90.00	135.00	5,166.0	-1,074.5	2,784.6	2,913.7	0.00	0.00	0.00
7,900.0	90.00	135.00	5,166.0	-1,145.2	2,855.4	3,010.0	0.00	0.00	0.00
8,000.0	90.00	135.00	5,166.0	-1,215.9	2,926.1	3,106.3	0.00	0.00	0.00
8,100.0	90.00	135.00	5,166.0	-1,286.6	2,996.8	3,202.6	0.00	0.00	0.00
8,200.0	90.00	135.00	5,166.0	-1,357.3	3,067.5	3,298.9	0.00	0.00	0.00
8,300.0	90.00	135.00	5,166.0	-1,428.0	3,138.2	3,395.2	0.00	0.00	0.00
8,400.0	90.00	135.00	5,166.0	-1,498.7	3,208.9	3,491.5	0.00	0.00	0.00
8,500.0	90.00	135.00	5,166.0	-1,569.4	3,279.7	3,587.7	0.00	0.00	0.00
8,600.0	90.00	135.00	5,166.0	-1,640.2	3,350.4	3,684.0	0.00	0.00	0.00
8,700.0	90.00	135.00	5,166.0	-1,710.9	3,421.1	3,780.3	0.00	0.00	0.00
8,800.0	90.00	135.00	5,166.0	-1,781.6	3,491.8	3,876.6	0.00	0.00	0.00
8,900.0	90.00	135.00	5,166.0	-1,852.3	3,562.5	3,972.9	0.00	0.00	0.00
9,000.0	90.00	135.00	5,166.0	-1,923.0	3,633.2	4,069.2	0.00	0.00	0.00
9,100.0	90.00	135.00	5,166.0	-1,993.7	3,704.0	4,165.5	0.00	0.00	0.00
9,193.4	90.00	135.00	5,166.0	-2,059.7	3,770.0	4,255.4	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
[F05F#610H]PBHL - plan hits target cent - Point	0.00 er	0.00	5,166.0	-2,059.7	3,770.0	1,845,196.77	1,337,442.41	36° 4' 0.689 N	107° 16' 30.589 W
[F05F#610H]FTP - plan hits target cent - Point	0.00 er	360.00	5,166.0	467.2	1,242.8	1,847,723.64	1,334,915.16	36° 4' 25.411 N	107° 17' 1.696 W

beog resources

EOG Resources

Planning Report

Database: EDM

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

Site: Falcon

Well: Falcon 05 Fed #610H

Wellbore: Lateral Design: Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Falcon

KB @ 7107.0usft (Planning Rig) KB @ 7107.0usft (Planning Rig)

Grid

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,753.2	1,718.0	Pictured Cliffs				
	2,048.8	1,996.0	Huerfanito Bentonite				
	2,529.3	2,448.0	Mesaverde				
	3,324.5	3,196.0	Menefee				
	4,090.5	3,919.0	Point Lookout				
	4,263.6	4,087.0	Mancos				
	4,830.1	4,649.0	Top Gallup				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	rdinates +E/-W (usft)	Comment
500.0	500.0	24.7	60.1	BEGIN 2*/100' NUDGE
4,869.6	4,688.5	804.7	905.1	KOP 12*/100'
5,619.6	5,166.0	467.1	1,242.8	[F05F#610H]EOC 5620' MD (5166' TVD)
9,193.4	5,166.0	-2,059.7	3,770.0	[F05F#610H]EOL 9193' MD (5166' TVD)

Received by OCD: 1/20/2022 3:54:34 PM

DESIGN TARGET DETAILS

+N/-S

467.2

-2059.7

TVD

5166.0

5166.0

Name [F05F#610H]FTP

- plan hits target center [F05F#610H]PBHL

- plan hits target center

Project:Sandoval County (NAD83)

Site: Falcon

Well: Falcon 05 Fed #610H

Wellbore: Lateral Design: Plan #1 **Ground Elevation 7089.0**

Northing 1847281.24 **Easting 1333732.51**

BEGIN 2*/100' NUDGE

330-

440

KB @ 7107.0usft (Planning Rig)

PROJECT DETAILS: Sandoval County (NAD83)

Geodetic System: US State Plane 1983

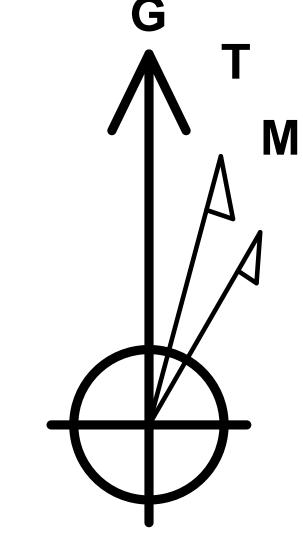
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Central Zone

System Datum: Mean Sea Level





KOP 12*/100'

[F05F#610H]EOC 5620' MD (5166' TVD)

Azimuths to Grid North True North: 0.61° Magnetic North: 9.28°

Magnetic Field Strength: 49345.0nT Dip Angle: 62.72° Date: 10/12/2020 Model: IGRF2020

SECTION DETAILS

Northing

1847723.64

1845196.77

+E/-W

1242.8

3770.0

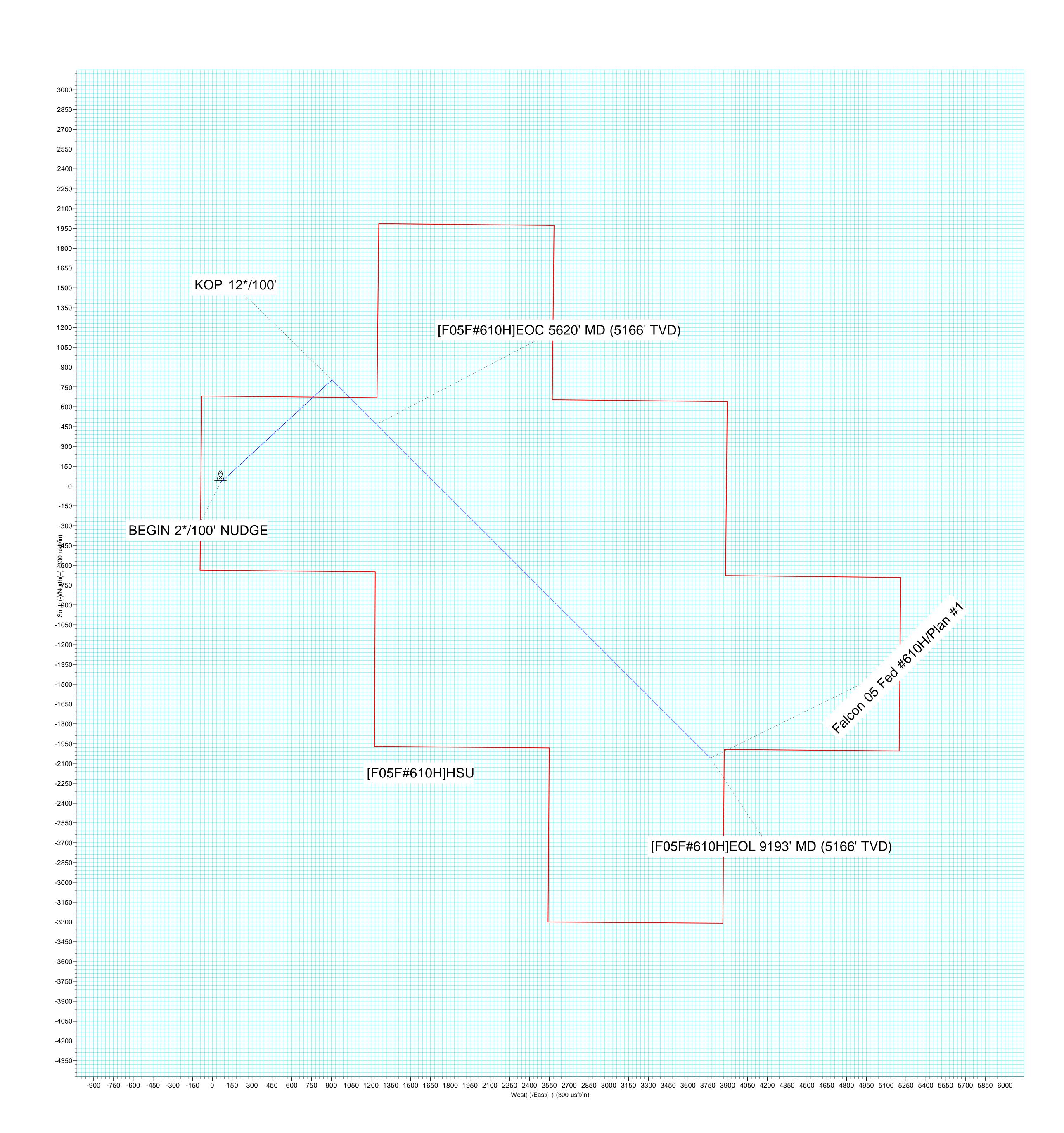
Page 21 of 28

Easting

1334915.16

1337442.41

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
3 6 6						-	•		
1	0.0	0.00	0.00	0.0	24.7	60.1	0.00	0.00	0.0
2	500.0	0.00	0.00	500.0	24.7	60.1	0.00	0.00	0.0
3	1492.3	19.85	47.29	1472.6	140.2	185.1	2.00	47.29	52.5
4	3877.3	19.85	47.29	3715.9	689.3	780.1	0.00	0.00	302.1
5	4869.6	0.00	360.00	4688.5	804.7	905.1	2.00	180.00	354.6
6	5619.6	90.00	135.00	5166.0	467.2	1242.7	12.00	135.00	814.3
7	9193.4	90.00	135.00	5166.0	-2059.7	3770.0	0.00	0.00	4255.4



[F05F#610H]EOL 9193' MD (5166' TVD)



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

#610H FALCON 05 FED

Lease: NMNM139386

SH: SW1/4SW1/4 Section 05, T.21 N., R.4 W.

Sandoval County, New Mexico

BH: SW1/4NE1/4 Section 08, T.21 N., R.4 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.

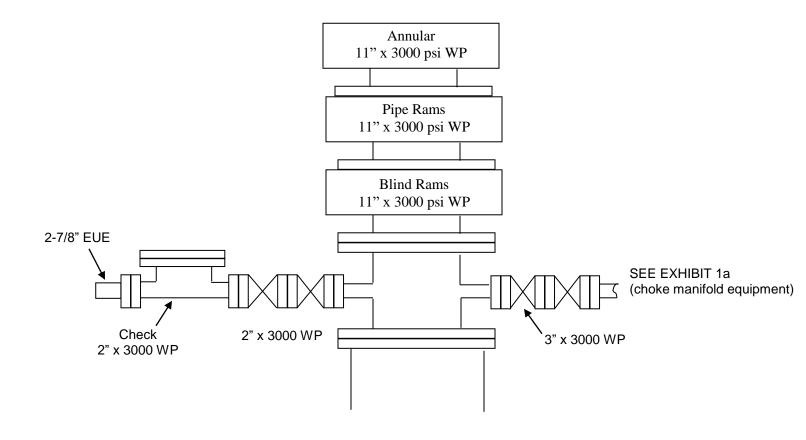
VII. PHONE NUMBERS

- 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:

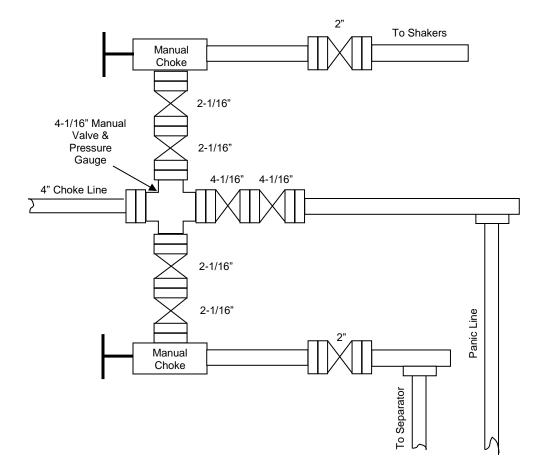
Virgil Lucero (505) 793-1836 Joe Killins (505) 564-7736

EXHIBIT 1

EOG Resources 3000 PSI BOPE



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



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 74035

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	74035
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Bottom of surface casing must be set at 320' or deeper.	1/24/2022
kpickford	Notify OCD 24 hours prior to casing & cement	1/24/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/24/2022
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	1/24/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	1/24/2022
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	1/24/2022