Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018	
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA		5. Lease Serial No. NMNM139402	
APPLICATION FOR PERMIT TO DF	RILL OR REENTER	6. If Indian, Allotee or Tribe Name	
1a. Type of work: Image: Constraint of the second seco	ENTER	7. If Unit or CA Agreement, Name a	nd No.
1b. Type of Well: ✓ Oil Well Gas Well Other	er	8. Lease Name and Well No.	
1c. Type of Completion: Hydraulic Fracturing Sin	gle Zone 🖌 Multiple Zone	TALLADEGA 14 FED	
2. Name of Operator EOG RESOURCES INCORPORATED		9. API Well No. 30-043-21369	
	3b. Phone No. (include area code) (713) 651-7000	10. Field and Pool, or Exploratory WILDCAT/OIL WC 21N4W6;GA	LLUP
4. Location of Well (Report location clearly and in accordance with		11. Sec., T. R. M. or Blk. and Survey SEC 14/T21N/R5W/NMP	or Area
At surface SWNE / 2123 FNL / 2445 FEL / LAT 36.0506		SEC 14/12 IN/RSW/NWF	
At proposed prod. zone NESW / 2415 FSL / 2389 FWL / L 14. Distance in miles and direction from nearest town or post offic 20 miles		12. County or Parish 13. St SANDOVAL NM	ate
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of acres in lease 17. Spaci 520.0	ng Unit dedicated to this well	
to nearest well, drilling, completed,	19. Proposed Depth 20. BLM. 5016 feet / 11935 feet FED: NN	/BIA Bond No. in file //2308	
	22. Approximate date work will start* 10/31/2020	23. Estimated duration 60 days	
	24. Attachments		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the H	Hydraulic Fracturing rule per 43 CFR 3	3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	I Lands, the 5. Operator certification.	ns unless covered by an existing bond o rmation and/or plans as may be requested	[*]
25. Signature (Electronic Submission)	Name (Printed/Typed) LACEY GRANILLO / Ph: (713) 65	Date 09/29/2020	
Title Contractor Regulatory Specialist			
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) DAVE J MANKIEWICZ / Ph: (505)	Date 564-7761 01/14/2021	
Title AFM-Minerals	Office Farmington Field Office		
Application approval does not warrant or certify that the applicant 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, ma of the United States any false, fictitious or fraudulent statements or			or agency



*(Instructions on page 2)

Entered - KMS NMOCD

(Continued on page 2)

Received-bytOCD: 2/23/2021 3:52:23 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

State of New Mexico Energy, Minerals & Natural Resources Department

South St. Francis Drive

OIL CONSERVATION DIVISION

Santa Fe, NM 87505

1220

Submit one copy to Appropriate District Office

AMENDED REPORT

District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT ²Pool Code ³Pool Name 'API Number 30-043-21369 98350 WILDCAT OIL WC 21N4W6;GALLUP [®]Well Number ⁴Property Code 'Property Name 330006 TALLADEGA 14 FED 605H 'OGRID No. Elevation [°]Operator Name 7377 EOG RESOURCES. INC 7150 ¹⁰ Surface Location UL or lot no Section Township Feet from the County Range Lot Idr North/South line Feet from the East/West line NORTH 5W G 14 21N 2123 2445 EAST SANDOVAL 11 Bottom Hole Different Surface Location If From Range UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 5W 2389 WEST К 10 21N 2415 SOUTH SANDOVAL Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No 520.00 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 (RECORD) N89 °45 W 2624.82 (RECORD, N89 °45 W 2624.82 N89 °35 '47 "W 2623.08 N89 °45 W 5254.26 ' (RECORD) N89 °29'51"W 2636.59 (CALCULATED) N89 *08 '37 'W 5249.30 ' (MEASURED) 16 (MEASURED) (CALC) (RECORD) 38 UPPERMOST PERF 2187' FNL 1880' FWL SECTION 14-T21N-R5W SURFACE LOCATION 2123' FNL 2445' FEL SECTION 14-T21N-R5W 17 OPERATOR CERTIFICATION (RECORD) NO *25 E 2619.21 5 '31''E 2622.. (MEASURED) " UPERATUR 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. 5245.84 5251.62 (MEASURED) N: 1839352.3796 E: 179315.1136 LAT: 36.050428 N N: 1839401.7220 E: 180230.2762 LAT: 36.050592 *N LONG: 107.331743 *W DATUM: NAD1927 NEW MEXICO CENTRAL (RECORD) E: 179315.1136 LAT: 36.050428 *N LONG: 107.334837 *W DATUM: NAD1927 NEW MEXICO_CENTRAL FEDERAL Ļυ **5**5 NMNM .43 °34 Έ 8 139401 .18 5254.63 .88 10 8 101 5258.1 N: 1839415.0068 E: 1319561.7468 1839464.3413 N: Lacey Granillo 9/29/20 N01 *10 '29 "E 2621.14 (MEASURED) 2389 N: 1639464.3413 E: 1320476.9085 LAT: 36.050608 *N LONG: 107.332345 *W DATUM: NAD1983 NEW MEXICO_CENTRAL (RECORD) NO °25'E 2619.21 FEDERAL 36.050444 °N 107.335438 °W °24 '54 "E LAT: Ļυ Signature Date NMNM ×5.7 LONG: 48 Lacey Granillo DATUM: NAD1983 NEW MEXICO CENTRAL 139401 ş Printed Name lacey_granillo@eogresources.com 2415 فراهوم ر Τ 101 (RECORD) N89 °33 W 2620.53 (RECORD) E-mail Address N89 °33 W 2620.53 ¹⁸ SURVEYOR CERTIFICATION °59'20''W 2623.92 (MEASURED) N89 °06 '29 ''W 2615.86 (CALCULATED) N88 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. S89 *51 W 5240.40 ' (RECORD) (RECORD) (MEASURED) •37'49"E 2621.46 N89 *31 '29 "W 5235.65 ' (CALC) NO *37'14"E 2619.07 (CALCULATED) (RECORD) NO °02'E 2625.81 2187 2123 266.92° 36°54.9'W 96.5' Date Revised: SEPTEMBER 24, 2020 .11 (MEASURED) Date of Survey: JUNE 22, 2020 (RECORD) 2629. Signature and Seal of Professional Surveyor BOTTOM-HOLE 2415' FSL 2389' FWL SECTION 10-T21N-R5W FEDERAL EDWARDS Åå JASON NMNM NORTH 1880 С. 8 42 139402 5229.40 MEXICO 2445' 43 (JE/W 5238. 15 Δ 1844005.9454 N: E: 174661.4453 LAT: 36.063067 °N LONG: 107.350755 °W DATUM: NAD1927 8 43 "E 2625.44 (MEASURED) FEDERAL (RECORD) PROFESSIONAL M. 20. Schleyon μı .81 (MEASURED) NO °38 '45 "E 2632.07 NMNM .60 (RECORD) •02 E 2625.6 139402 96. 8 NEW MEXICO CENTRAL 2629.11 9 N: E: 1844068.6667 1314908.1047 LAT: 36.063083 *N LONG: 107.351357 *W DATUM: NAD1983 NEW MEXICO CENTRAL .48 2 \$ NORTH ASON DWARDS (MEASURED) N89 °20 '01 ''W 2617.23 (MEASURED) N89 °23'07 "W 2612.56 (MEASURED) (MEASURED) N88 \$50 50 W 2629.25 N89 °03 '13 "W 2617.76 Certificate Number 15269 N89 °53 W 2619.87 N89 °30 W 2620.86 N89 °53 W 2619.87' N89 °30 W 2620.86 Released to Imaging: 3/1/2021 11(25945 AM (RECORD)

(RECORD)

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

 \boxtimes Original

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

□ Amended - Reason for Amendment:

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (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
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - $\circ \quad \ \ \, \text{Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines}$

			WELL L	OCATIO	N AND AC	REAGE DEDIC	ATION PLA	Т		
۵ [°]	PI Number	r		² Pool Cod	e		³ Pool Nam	e		
							WILDCAT (DIL		
<pre> *Property</pre>	Code				Property	/ Name			°We	11 Number
					TALLADEGA	A 14 FED			1	605H
'OGRID N	NO.				*Operator	Name			°E	levation
7377	7				EOG RESOU	RCES, 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	est line	County
G	14	21N	5W		2123	NORTH	2445	EA	ST	SANDOVAL
		- 1	¹ Botto	m Hole	Location I	f Different F	rom Surfac	e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
К	10	21N	5W		2415	SOUTH	2389	WE	ST	SANDOVAL

1. GEOLOGIC NAME OF SURFACE FORMATION:

Nacimiento

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

	MD	TVD
Pictured Cliffs	1,528'	1,515'
Huerfanito Bentonite	1,826'	1,807'
Mesaverde	2,351'	2,224'
Menefee	3,034'	2,992'
Point Lookout	3,830'	3,772'
Mancos Shale	3,957'	3,897'
Gallup	4,527'	4,462'
Horizontal TD	11,935'	5,016'

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

	TVD	
Pictured Cliffs	1,515'	Gas
Mesaverde	1,807'	Gas
Menefee	2,992'	Gas/Oil
Point Lookout	3,772'	Oil
Mancos Shale	3,897'	Oil
Gallup	4,462'	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 Size	Interval (MD)	Interval (TVD)	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Joint Tension	DF _{min} Body Tension
17.5"	0'-300'	300'	13 3/8"	48#	H-40	STC	1.125	1.25	1.60	1.80
12.25"	0'-3,144'	3,100'	9 5/8"	36#	J-55	LTC	1.125	1.25	1.60	1.80
8.75"	0'- 5,354'	5,016'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
8.5"	5,354'-	5,016'	5 ½"	17#	P-110	BTC	1.125	1.25	1.60	1.80
	11,935'									

Hole & Casing String:

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.

Centen	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)
3,144'	945	12.8	1.79	1692	Lead: 35:65 Poz C + .02 gal/sk Anti Foam + 1% Extender + .13 lb/sk Lost Circulation (TOC @ Surface) (100% excess)
	210	14.8	1.33	279	Tail: Class C + 0.13% Anti Foam
11,935'	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
	1375	13	1.48	2035	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)

Cement Design:

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.

2.

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	Туре	Weight (ppg)	Viscosity	Water Loss	Comments
0 – 300'	Fresh Water	8.6-8.8	28-32	N/c	
300' - 3,144'	WBM	8.8-9.4	30-34	N/c	
Vertical					
3,144' – 11,935'	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 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.

4.



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.

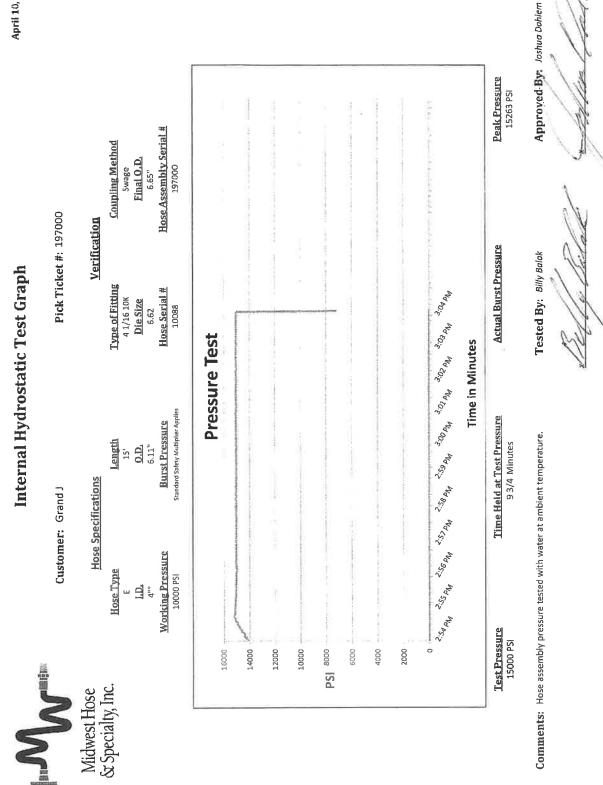
Production: Well will produce up production tubing into production and storage facilities.



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	Midwe			
	& Specia	alty, Inc.		
INTERNAL I	HYDROST	ATIC TEST	CERTIFICA	TE
Customer: GRAN			Customer P.O. 178755	
	HOSE SPECI	FICATIONS	1 110100	
Type: CHOKE HC GRADE E	DSE			
I.D. 4	INCHES		Hose Length:	
WORKING PRESSURE	TEST PRESSUR	O.D. RE	6.11 // BURST PRESSUR	NCHES E
10,000 PSI	15,000	PSI	N/A	PSI
Part Number	COUF Stem Lot Nur	PLINGS	Toronto 1 - 4 M	
E4.0X64WB E4.0X64WB	809	9764	Ferrule Lot Nu N4406	
Type of Coupling:	009	9764 Die Size:	N4406	
SWAGE-I	Т		6.62 INCHES	
	PROC	EDURE		
	pressure tested w TEST PRESSURE	•	<u>nt temperature</u> . 3URST PRESSURE:	
9 3/4	MIN,	AUTORE	N/A	PSI
Hose Assembly Seria 197000		Hose Serial I		
Comments:			10000	
Date: 4/10/2013	Tested: Billi	: Bale K	Approved:	Un-
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EOG Resources - Artesia

Sandoval County (NAD83) Talladega Talladega 14 Fed #605H

Lateral

Plan: Plan #1

Standard Planning Report

29 September, 2020

e og re	source	S			ning Report				
Database: Company: Project: Site: Well: Wellbore: Design:	EDM EOG Resources Sandoval County Talladega Talladega 14 Fed Lateral Plan #1	(NAD83)		T N N	ocal Co-ordinate R VD Reference: ID Reference: Iorth Reference: urvey Calculation I		KB @ 7168.0u	i 14 Fed #605H isft (Planning Rig) isft (Planning Rig) rature	
Project	Sandoval County	(NAD83)							
Map System: Geo Datum: Map Zone:	US State Plane 198 North American Dat New Mexico Centra	um 1983		Sy	stem Datum:		Mean Sea Level		
Site	Talladega								
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:		1,839,442.97 ust 1,320,455.86 ust 13-3/16	t Longitude:			36° 3' 1.975 N 107° 19' 56.694 W -0.64 °
Well	Talladega 14 Fed #	#605H							
Well Position Position Uncertainty	+N/-S +E/-W	21.4 usft 21.0 usft 0.0 usft	Northing: Easting: Wellhead Elev	vation:	1,839,464 1,320,476	6.91 usft L	atitude: .ongitude: Ground Level:		36° 3' 2.189 N 107° 19' 56.440 W 7,150.0 usft
Wellbore	Lateral								
Magnetics	Model Name		Sample Date		Declination (°)	Dij	p Angle (°)	Field Stre (nT)	-
	IGRF20	020	9/1/2020		8.70)	62.70	49,337	.93808580
Design	Plan #1								
Audit Notes:									
Version:			Phase:	PLAN		Tie On Depth:		0.0	
Vertical Section:		(ւ	rom (TVD) Jsft)		+N/-S (usft)	+E/-W (usft)		irection (°)	
			0.0		0.0	0.0		309.58	

Plan S	urvey Tool Progr	am	Date 9/29/2020		
C	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	11,935.0	Plan #1 (Lateral)	MWD 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	
1,066.4	11.33	236.18	1,062.7	-31.1	-46.4	2.00	2.00	0.00	236.18	
4,037.4	11.33	236.18	3,975.8	-355.8	-531.2	0.00	0.00	0.00	0.00	
4,603.7	0.00	360.00	4,538.5	-386.9	-577.5	2.00	-2.00	0.00	180.00	
5,353.7	90.00	315.00	5,016.0	-49.3	-915.2	12.00	12.00	-6.00	315.00	
11,935.0	90.00	315.00	5,016.0	4,604.3	-5,568.8	0.00	0.00	0.00	0.00	[T14F#605H]PBHI

9/29/2020 1:46:43PM

Released to Imaging: 3/1/2021 11:25:45 AM



Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Talladega 14 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7168.0usft (Planning Rig)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7168.0usft (Planning Rig)
Site:	Talladega	North Reference:	Grid
Well:	Talladega 14 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
BEGIN 2*/10		0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	236.18	600.0	-1.0	-1.4	0.5	2.00	2.00	0.00
700.0	4.00	236.18	699.8	-3.9	-5.8	2.0	2.00	2.00	0.00
800.0	6.00	236.18	799.5	-8.7	-13.0	4.5	2.00	2.00	0.00
900.0	8.00	236.18	898.7	-15.5	-23.2	8.0	2.00	2.00	0.00
1,000.0	10.00	236.18	997.5	-24.2	-36.2	12.4	2.00	2.00	0.00
1,066.4	11.33	236.18	1,062.7	-31.1	-46.4	15.9	2.00	2.00	0.00
1,100.0	11.33	236.18	1,095.7	-34.7	-51.9	17.8	0.00	0.00	0.00
1,200.0	11.33	236.18	1,193.7	-45.7	-68.2	23.4	0.00	0.00	0.00
1,300.0	11.33	236.18	1,291.8	-56.6	-84.5	29.0	0.00	0.00	0.00
1,400.0	11.33	236.18	1,389.8	-67.5	-100.8	34.7	0.00	0.00	0.00
1,500.0	11.33	236.18	1,487.9	-78.5	-117.1	40.3	0.00	0.00	0.00
1,527.7	11.33	236.18	1,515.0	-81.5	-121.6	41.8	0.00	0.00	0.00
Pictured Clif									
1,600.0	11.33	236.18	1,585.9	-89.4	-133.4	45.9	0.00	0.00	0.00
1,700.0	11.33	236.18	1,684.0	-100.3	-149.8	51.5	0.00	0.00	0.00
1,800.0	11.33	236.18	1,782.0	-111.3	-166.1	57.1	0.00	0.00	0.00
1,825.5	11.33	236.18	1,807.0	-114.0	-170.2	58.5	0.00	0.00	0.00
Huerfanito B									
1,900.0	11.33	236.18	1,880.1	-122.2	-182.4	62.7	0.00	0.00	0.00
2,000.0	11.33	236.18	1,978.1	-133.1	-198.7	68.3	0.00	0.00	0.00
2,100.0	11.33	236.18	2,076.2	-144.1	-215.0	73.9	0.00	0.00	0.00
2,200.0	11.33	236.18	2,174.2	-155.0	-231.4	79.5	0.00	0.00	0.00
2,250.8	11.33	236.18	2,224.0	-160.5	-239.6	82.4	0.00	0.00	0.00
Mesaverde									
2,300.0	11.33	236.18	2,272.3	-165.9	-247.7	85.2	0.00	0.00	0.00
2,400.0	11.33	236.18	2,370.3	-176.8	-264.0	90.8	0.00	0.00	0.00
2,500.0	11.33	236.18	2,468.4	-187.8	-280.3	96.4	0.00	0.00	0.00
2,600.0	11.33	236.18	2,566.4	-198.7	-296.6	102.0	0.00	0.00	0.00
2,700.0	11.33	236.18	2,664.5	-209.6	-312.9	107.6	0.00	0.00	0.00
2,800.0	11.33	236.18	2,762.5	-220.6	-329.3	113.2	0.00	0.00	0.00
2,900.0	11.33	236.18	2,860.6	-231.5	-345.6	118.8	0.00	0.00	0.00
3,000.0	11.33	236.18	2,958.7	-242.4	-361.9	124.4	0.00	0.00	0.00
3,034.0	11.33	236.18	2,992.0	-246.2	-367.5	126.3	0.00	0.00	0.00
Menefee									
3,100.0	11.33	236.18	3,056.7	-253.4	-378.2	130.0	0.00	0.00	0.00
3,200.0	11.33	236.18	3,154.8	-264.3	-394.5	135.7	0.00	0.00	0.00
3,300.0	11.33	236.18	3,252.8	-275.2	-410.9	141.3	0.00	0.00	0.00
3,400.0	11.33	236.18	3,350.9	-286.2	-427.2	146.9	0.00	0.00	0.00
3,500.0	11.33	236.18	3,448.9	-297.1	-443.5	152.5	0.00	0.00	0.00
3,600.0	11.33	236.18	3,547.0	-308.0	-459.8	158.1	0.00	0.00	0.00
3,700.0	11.33	236.18	3,645.0	-319.0	-476.1	163.7	0.00	0.00	0.00
3,800.0	11.33	236.18	3,743.1	-329.9	-492.5	169.3	0.00	0.00	0.00
3,829.5	11.33	236.18	3,772.0	-333.1	-497.3	171.0	0.00	0.00	0.00
Point Looko	ut								
3,900.0	11.33	236.18	3,841.1	-340.8	-508.8	174.9	0.00	0.00	0.00
3,957.0	11.33	236.18	3,897.0	-347.1	-518.1	178.1	0.00	0.00	0.00

9/29/2020 1:46:43PM

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Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Talladega 14 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7168.0usft (Planning Rig)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7168.0usft (Planning Rig)
Site:	Talladega	North Reference:	Grid
Well:	Talladega 14 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #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)
Mancos									
4,000.0	11.33	236.18	3,939.2	-351.8	-525.1	180.5	0.00	0.00	0.00
4,037.4	11.33	236.18	3,975.8	-355.8	-531.2	182.6	0.00	0.00	0.00
4,100.0	10.07	236.18	4,037.4	-362.3	-540.8	186.0	2.00	-2.00	0.00
4,200.0	8.07	236.18	4,136.1	-371.1	-554.0	190.5	2.00	-2.00	0.00
4,300.0	6.07	236.18	4,235.3	-377.9	-564.2	194.0	2.00	-2.00	0.00
4,400.0	4.07	236.18	4,334.9	-382.9	-571.5	196.5	2.00	-2.00	0.00
4,500.0	2.07	236.18	4,434.8	-385.9	-576.0	198.0	2.00	-2.00	0.00
4,527.2	1.53	236.18	4,462.0	-386.3	-576.7	198.3	2.00	-2.00	0.00
Gallup									
4,603.7	0.00	236.18	4,538.5	-386.9	-577.5	198.6	2.00	-2.00	0.00
KOP 12*/100'									
4,625.0	2.55	315.00	4,559.8	-386.6	-577.9	199.0	11.98	11.97	370.04
4,650.0	5.55	315.00	4,584.7	-385.3	-579.1	200.8	12.00	12.00	0.00
4,675.0	8.55	315.00	4,609.5	-383.1	-581.3	203.9	12.00	12.00	0.00
4,700.0	11.55	315.00	4,634.1	-380.1	-584.4	208.2	12.00	12.00	0.00
1 725 0	11 EF			-376.1	-588.4	213.8	12.00		0.00
4,725.0	14.55 17.55	315.00 315.00	4,658.5					12.00	
4,750.0	17.55	315.00	4,682.5	-371.2 -365.4	-593.3 -599.0	220.7	12.00	12.00	0.00
4,775.0	20.55	315.00	4,706.1			228.8	12.00	12.00	0.00
4,800.0	23.55	315.00	4,729.3	-358.8	-605.7	238.2	12.00	12.00	0.00
4,825.0	26.55	315.00	4,751.9	-351.3	-613.2	248.7	12.00	12.00	0.00
4,850.0	29.55	315.00	4,774.0	-343.0	-621.5	260.4	12.00	12.00	0.00
4,875.0	32.55	315.00	4,795.4	-333.9	-630.6	273.2	12.00	12.00	0.00
4,900.0	35.55	315.00	4,816.1	-324.0	-640.5	287.2	12.00	12.00	0.00
4,925.0	38.55	315.00	4,836.1	-313.3	-651.1	302.2	12.00	12.00	0.00
4,950.0	41.55	315.00	4,855.2	-301.9	-662.5	318.2	12.00	12.00	0.00
4,975.0	44.55	315.00	4,873.5	-289.9	-674.6	335.2	12.00	12.00	0.00
5,000.0	47.55	315.00	4,890.8	-277.2	-687.3	353.1	12.00	12.00	0.00
5,025.0	50.55	315.00	4,907.2	-263.8	-700.7	371.9	12.00	12.00	0.00
5,050.0	53.55	315.00	4,922.6	-249.9	-714.6	391.5	12.00	12.00	0.00
5,075.0	56.55	315.00	4,936.9	-235.4	-729.1	411.9	12.00	12.00	0.00
5,100.0	59.55	315.00	4,950.1	-220.4	-744.1	433.0	12.00	12.00	0.00
5,125.0	62.55	315.00	4,962.2	-204.9	-759.5	454.8	12.00	12.00	0.00
5,150.0	65.55	315.00	4,973.2	-189.0	-775.4	477.2	12.00	12.00	0.00
5,175.0	68.55	315.00	4,982.9	-172.7	-791.7	500.1	12.00	12.00	0.00
5,200.0	71.55	315.00	4,991.4	-156.1	-808.3	523.5	12.00	12.00	0.00
5,225.0	74.55	315.00	4,998.7	-139.2	-825.2	547.3	12.00	12.00	0.00
5,250.0	77.55	315.00	5,004.7	-122.1	-842.4	571.4	12.00	12.00	0.00
5,275.0	80.55	315.00	5,009.5	-104.7	-859.7	595.9	12.00	12.00	0.00
5,300.0	83.55	315.00	5,012.9	-87.2	-877.3	620.5	12.00	12.00	0.00
5,325.0	86.55	315.00	5,015.1	-69.6	-894.9	645.3	12.00	12.00	0.00
5,350.0	89.55	315.00	5,016.0	-51.9	-912.5	670.2	12.00	12.00	0.00
5,353.7	90.00	315.00	5,016.0	-49.3	-915.1	673.9	12.00	12.00	0.00
	EOC 5354' MD (- ,						
5,400.0	90.00	315.00	5,016.0	-16.6	-947.9	720.0	0.01	0.01	0.00
5,500.0	90.00	315.00	5,016.0	54.1	-1,018.6	819.5	0.00	0.00	0.00
5,600.0	90.00	315.00	5,016.0	124.8	-1,089.3	919.1	0.00	0.00	0.00
5,700.0	90.00	315.00	5,016.0	195.6	-1,160.0	1,018.6	0.00	0.00	0.00
5,800.0	90.00	315.00	5,016.0	266.3	-1,230.7	1,118.2	0.00	0.00	0.00
5,900.0	90.00	315.00	5,016.0	337.0	-1,301.4	1,217.7	0.00	0.00	0.00
6,000.0	90.00	315.00	5,016.0	407.7	-1,372.1	1,317.3	0.00	0.00	0.00
6,100.0	90.00	315.00	5,016.0	478.4	-1,442.9	1,416.8	0.00	0.00	0.00
6,200.0	90.00	315.00	5,016.0	549.1	-1,513.6	1,516.4	0.00	0.00	0.00

Released to Imaging: 3/1/2021 11:25:45 AM



Planning Report

Database):	EDM	Local Co-ordinate Reference:	Well Talladega 14 Fed #605H
Company	/ :	EOG Resources - Artesia	TVD Reference:	KB @ 7168.0usft (Planning Rig)
Project:		Sandoval County (NAD83)	MD Reference:	KB @ 7168.0usft (Planning Rig)
Site:		Talladega	North Reference:	Grid
Well:		Talladega 14 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore	:	Lateral		
Design:		Plan #1		

Planned Survey

5.300.0 90.00 915.00 5016.0 918.8 -1.583.0 1.151.5 0.00 0.00 0.00 6.500.0 90.00 315.00 5.016.0 932.2 -1.728.7 1.815.1 0.00 0.00 0.00 6.500.0 90.00 315.00 5.016.0 932.0 -1.728.4 1.914.4 0.00 0.00 0.00 6.500.0 90.00 315.00 5.016.0 92.7 -1.857.1 2.014.2 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.148.5 -2.013.3 0.00 0.00 0.00 7.100.0 90.00 315.00 5.016.0 1.125.2 -2.201.4 2.511.5 0.00 0.00 0.00 7.200.0 90.00 315.00 5.016.0 1.325.2 -2.201.4 2.511.5 0.00 0.00 0.00 7.200.0 90.00 315.00 5.016.0 1.383.1 -2.235.5 2.910.1 0.00 0.00 0.00	Measured Depth Ind (usft)	clination (°)	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 90.00 315.00 5.016.0 650.5 -1.655.0 1.715.5 1.815.1 0.00 0.00 6,600.0 90.00 315.00 5.016.0 632.0 -1.726.4 1.914.6 0.00 0.00 0.00 6,600.0 90.00 315.00 5.016.0 973.4 -1.937.4 2.113.7 0.00 0.00 0.00 6,800.0 90.00 315.00 5.016.0 1.141.8 -2.008.5 2.213.3 0.00 0.00 0.00 7,000.0 90.00 315.00 5.016.0 1.141.8 -2.073.3 2.312.8 0.00 0.00 0.00 7,000.0 90.00 315.00 5.016.0 1.326.9 -2.281.4 2.411.4 0.00 0.00 0.00 7,000.0 90.00 315.00 5.016.0 1.328.9 -2.382.1 2.411.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <	6.300.0	90.00	315.00	5.016.0	619.8	-1.584.3	1,615.9	0.00	0.00	0.00
6,600.0 90.00 315.00 5,016.0 761.2 -1,726.7 1,815.1 0.00 0.00 0.00 6,600.0 90.00 315.00 5,016.0 902.7 -1,867.1 2,014.2 0.00 0.00 0.00 6,800.0 90.00 315.00 5,016.0 907.4 -1,977.8 2,113.7 0.00 0.00 0.00 7,000.0 90.00 315.00 5,016.0 1,144.8 -2,073.3 2,218.8 0.00 0.00 0.00 7,000.0 90.00 315.00 5,016.0 1,325.9 -2,220.7 2,211.9 0.00 0.00 0.00 0.00 7,400.0 90.00 315.00 5,016.0 1,326.9 -2,221.1 2,111.0 0.00										
6.600.0 90.00 315.00 5.016.0 832.0 -1.786.4 1.914.6 0.00 0.00 0.00 6.700.0 90.00 315.00 5.016.0 97.4 -1.987.8 2.113.7 0.00 0.00 0.00 7.700.0 90.00 315.00 5.016.0 1.148.5 -2.076.5 2.213.3 0.00 0.00 0.00 7.700.0 90.00 315.00 5.016.0 1.1285.2 -2.220.7 2.511.9 0.00 0.00 0.00 7.400.0 90.00 315.00 5.016.0 1.286.9 -2.291.4 2.611.5 0.00 0.00 0.00 7.400.0 90.00 315.00 5.016.0 1.486.3 -2.426.1 2.711.0 0.00										
				,						
6.800.0 90.00 315.00 5.016.0 972.4 -1.937.8 2.113.7 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.148.5 -2.005.5 2.213.3 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.148.5 -2.150.0 2.412.4 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.325.9 -2.2214.2 2.010 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.325.9 -2.422.8 2.810.6 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.680.5 -2.422.8 2.810.6 0.00 0.00 0.00 7.800.0 80.00 315.00 5.016.0 1.680.5 -2.574.2 3.082.7 0.00 0.00 0.00 7.800.0 80.00 315.00 5.016.0 1.682.6 -2.867.1 3.407.9 0.00 0.00 0.0										
6.900.0 90.00 315.00 5.016.0 1,044.1 -2.008.5 2.213.2 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1,114.8 -2.073.3 2.312.8 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.268.2 -2.201.4 2.511.8 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.3676.2 -2.382.1 2.610.6 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.699.8 -2.374.2 3.006.7 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.699.8 -2.674.2 3.006.7 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.699.8 -2.674.2 3.006.7 0.00 0.00 0.00 7.000.0 90.00 315.00 5.016.0 1.781.2 -2.716.7 3.206.8 0.00 0.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
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	11,400.0	90.00	315.00	5,016.0	4,226.1	-5,190.5	6,693.2	0.00	0.00	0.00
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Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Talladega 14 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7168.0usft (Planning Rig)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7168.0usft (Planning Rig)
Site:	Talladega	North Reference:	Grid
Well:	Talladega 14 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral	-	
Design:	Plan #1		

Planned 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)
11,700.0	90.00	315.00	5,016.0	4,438.2	-5,402.7	6,991.8	0.00	0.00	0.00
11,800.0	90.00	315.00	5,016.0	4,508.9	-5,473.4	7,091.4	0.00	0.00	0.00
11,900.0	90.00	315.00	5,016.0	4,579.6	-5,544.1	7,190.9	0.00	0.00	0.00
11,935.0	90.00	315.00	5.016.0	4,604.3	-5,568.8	7,225.7	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#605H]FTP - plan hits target cente - Point	0.00 er	360.00	5,016.0	-49.3	-915.1	1,839,415.03	1,319,561.77	36° 3' 1.600 N	107° 20' 7.577 W
[T14F#605H]PBHL - plan hits target cente - Point	0.00 er	360.00	5,016.0	4,604.3	-5,568.8	1,844,068.67	1,314,908.10	36° 3' 47.099 N	107° 21' 4.884 W

ormations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,527.7	1,515.0	Pictured Cliffs				
	1,825.5	1,807.0	Huerfanito Bentonite				
	2,250.8	2,224.0	Mesaverde				
	3,034.0	2,992.0	Menefee				
	3,829.5	3,772.0	Point Lookout				
	3,957.0	3,897.0	Mancos				
	4,527.2	4,462.0	Gallup				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
()		(usit)	(usit)	
500.0	500.0	0.0	0.0	BEGIN 2*/100' NUDGE
4,603.7	4,538.5	-386.9	-577.5	KOP 12*/100'
5,353.7	5,016.0	-49.3	-915.1	[T14F#605H]EOC 5354' MD (5016' TVD)
11,935.0	5,016.0	4,604.3	-5,568.8	[T14F#605H]EOL 11935' MD (5016' TVD)

Released to Imaging: 3/1/2021 11:25:45 AM

4604.3

TVD

5016.0

5016.0

Name [T14F#605H]FTP - plan hits target center [T14F#605H]PBHL - plan hits target center

Project:Sandoval County (NAD83) Site: Talladega Well: Talladega 14 Fed #605H Wellbore: Lateral Design: Plan #1 **Ground Elevation 7150.0** Northing 1839464.34 Easting 1320476.91 KB @ 7168.0usft (Planning Rig)

PROJECT DETAILS: Sandoval County (NAD83)

+N/-S +E/-W -49.3 -915.1

1839415.03 -5568.8 1844068.67

1319561.77 1314908.10

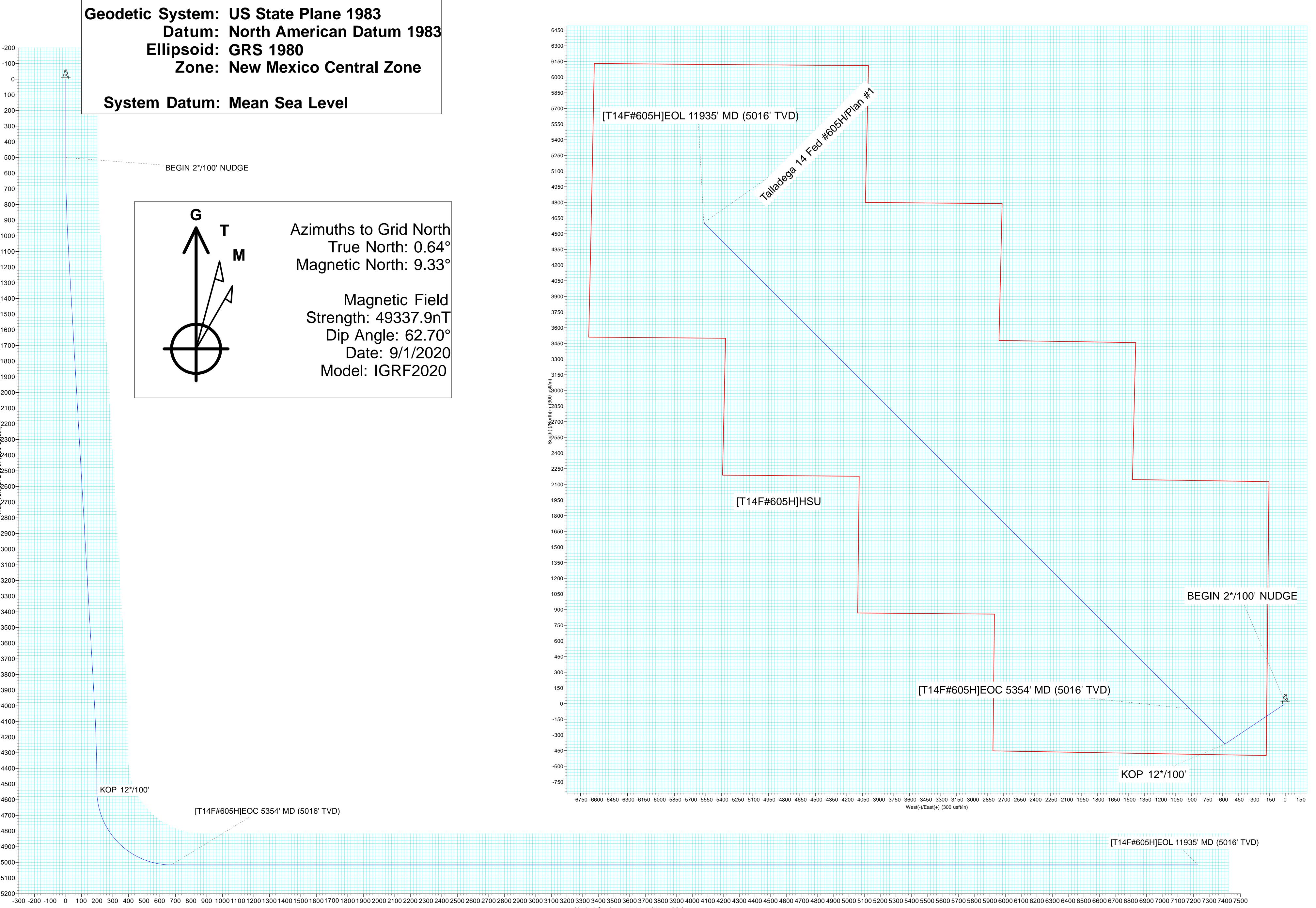
Easting

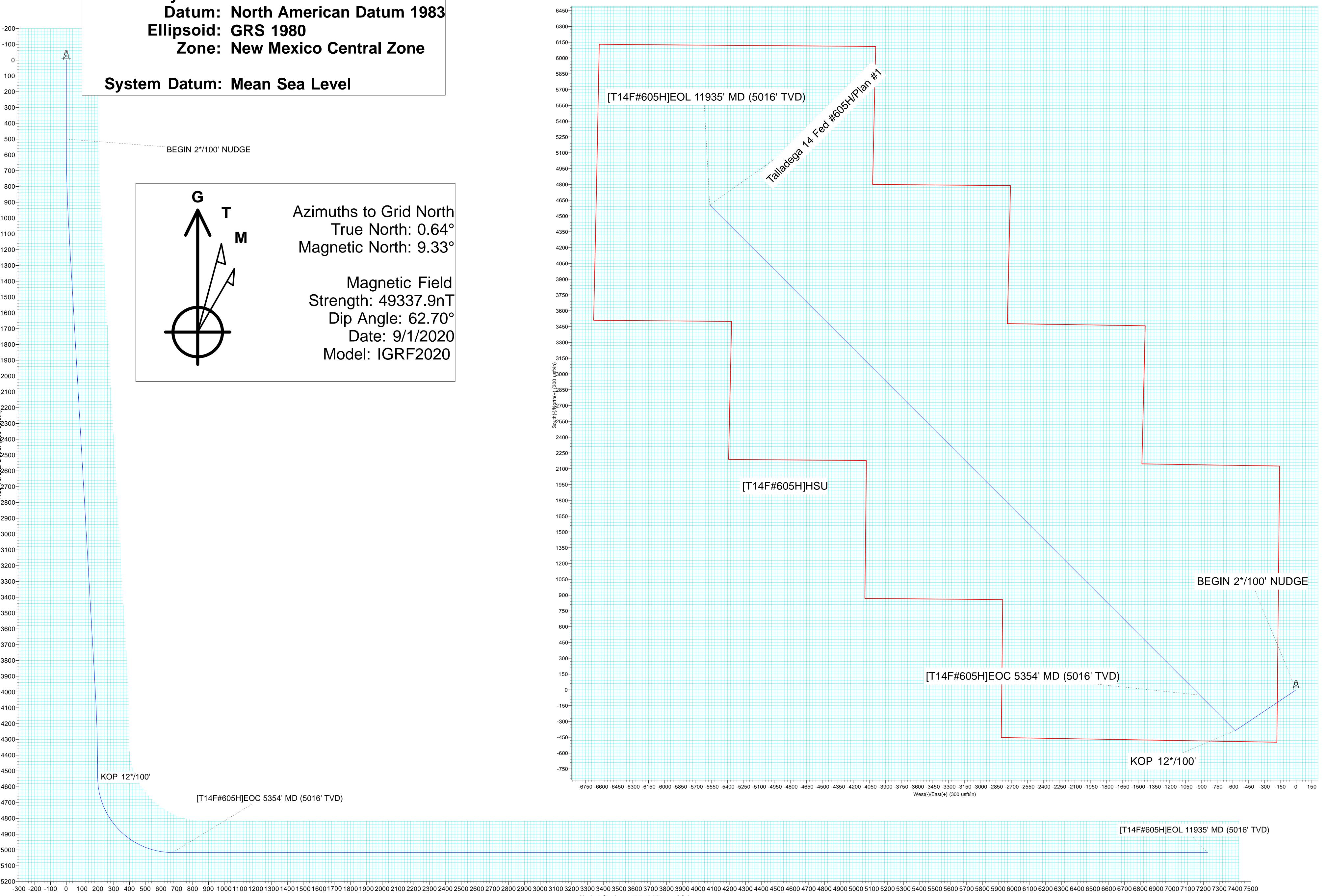


SECTION DETAILS

Northing

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	1066.4	11.33	236.18	1062.7	-31.1	-46.4	2.00	236.18	15.9
4	4037.4	11.33	236.18	3975.8	-355.8	-531.2	0.00	0.00	182.6
5	4603.7	0.00	360.00	4538.5	-386.9	-577.5	2.00	180.00	198.6
6	5353.7	90.00	315.00	5016.0	-49.3	-915.2	12.00	315.00	673.9
7	11935.0	90.00	315.00	5016.0	4604.3	-5568.8	0.00	0.00	7225.7





Vertical Section at 309.58° (200 usft/in)

Received by OCD: 2/23/2021 3:52:23 PM



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, Inc.
#605H Talladega 14 Fed
Lease: NMNM0139402 Unit:
SH: SW¼NE¼ Section 14, T.21 N., R.5 W.
BH: NE¼SW¼ Section 10, 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:

 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.
 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.
 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.
approval with the Bureau of Land Management, Farmington District Office, Branch of Reservoir Management, 6251 College Blvd. Suite A, Farmington, New Mexico 87402.
F. \square The use of co-flex hose is authorized contingent upon the following: 1 From the POP to the choice manifold; the co-flex hose must be helded on both and and
1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

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.

I. <u>GENERAL</u>

- 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. <u>REPORTING REQUIREMENTS</u>

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. <u>CHANGE OF PLANS OR ABANDONMENT</u>

- 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

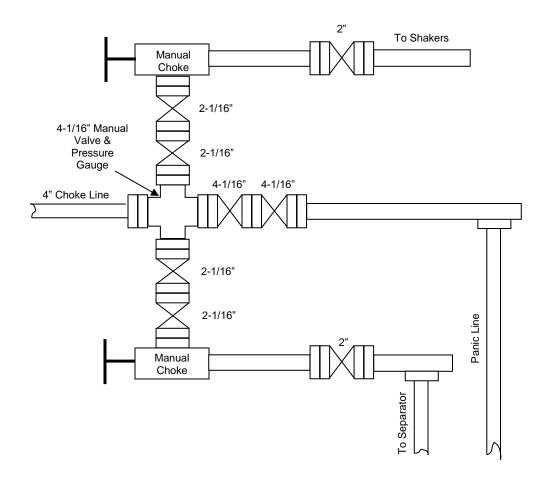
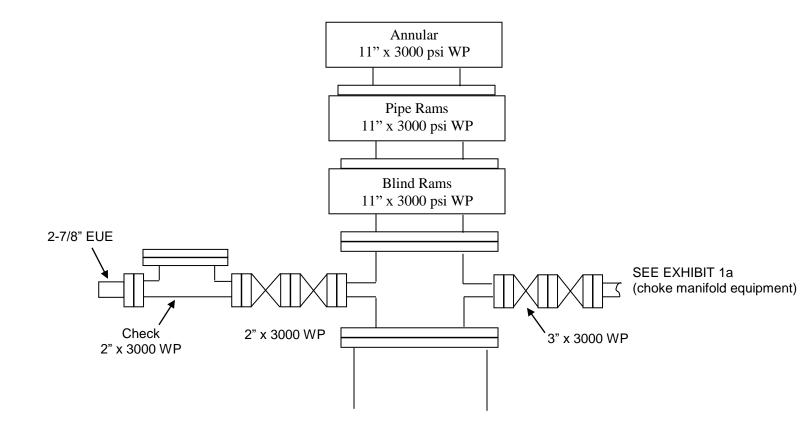


EXHIBIT 1

EOG Resources 3000 PSI BOPE



District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

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

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 COMMENTS

Action 18654

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

COMMENTS								
Operator:					OGRID:	Action Number:	Action Type:	
EOG RESOURC	CES INC	P.O. Box 2267	Midland, TX79702		7377	18654	FORM 3160-3	
Created By	C	Comment				Comment Date		
kpickford KP GEO Review 2/24/2021		21				02/24/2021		

CONDITIONS

Action 18654

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 <u>District IV</u> 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 OF APPROVAL

Operator:				0)GRID:	Action Number:	Action Type:		
E	OG RESOURCES INC	P.O. Box 2267	Midland, TX79702		7377	18654	FORM 3160-3		
OCD	Condition								
Reviewer									
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	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								