			Q.		MIN PROVED GURP	R
Form 3160-3 (March 2012)	arad	NOBBS OF	2018	FORM AP OMB No. 1 Expires Octol	004-0137	F
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	INTERNA NAGEMEN	D	OF	5. Lease Serial No. NMNM110838		
APPLICATION FOR PERMIT TO			S	Coff Indian, Allotee or	Tribe Name	
la. Type of work: DRILL REENT	TER			7 If Unit or CA Agreem		
Ib. Type of Well: Oil Well Gas Well Other	√ S	ingle Zone 🔲 Multip	ole Zone	8. Lease Name and Wel		
2. Name of Operator EOG RESOURCES INCORPORATED	D (73,71)		9. APT Welt No. 30-025-4	5847	
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002	3b. Phone N (713)651-	0. (include area code) 7000		Ne Field and Pool, or Exp RED HILLS / WC-025	· \ ' / / / / /	
4. Location of Well (Report location clearly and in accordance with a At surface LOT 3 / 2186 FSL / 811 FWL / LAT 32.1148		,	$\overline{\backslash}$	11. Sec., T. R. M. or Blk.a	-	
At proposed prod. zone LOT 4 / 230 FSL / 330 FWL / LAT			525	SEC 19 / T25S / R33E	E / NMP	
14. Distance in miles and direction from nearest town or post office* 40 miles			<u> </u>	12. County or Parish LEA	13. State NM	
15. Distance from proposed* location to nearest 230 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of (1761.04	acres in lease	17. Spacin 240	g Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, 880 feet applied for, on this lease, ft.	19. Propose 12299 fee	d Depth at / 19752 feet	20. BLM/ FED: N	BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3462 feet	22. Approxi 08/01/20	imate date work will sta 18	t*	23. Estimated duration 25 days		
	24. Atta					
The following, completed in accordance with the requirements of Onsh 1. Well plat certified by a registered surveyor.	ore Oil and Gas			is form: ns unless covered by an exi	sting bond on file (see	
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	n Landa tha	Item 20 above). 5. Operator certific	•		0	
SUPO must be filed with the appropriate Forest Service Office).	n Lanus, the	•		ormation and/or plans as ma	y be required by the	
25. Signature (Electronic-Submission)		(Printed/Typed) Wagner / Ph: (432)	686-3689	Da 0	te 2/28/2018	
Title Regulatory Specialsit						
Approved by (Signature) (Electronic Submission)	1	: (Printed/Typed) Layton / Ph: (575)2	34-5959	Da	te 6/22/2018	
Title	Office	· · · · · · · · · · · · · · · · · · ·		<u>l</u> •		
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant hol conduct operations thereon./ Conditions of approval, if any, are attached.		LSBAD itable title to those righ	ts in the sub	ject lease which would entit	le the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as	crime for any p s to any matter v	person knowingly and w within its jurisdiction.	villfully to n	nake to any department or a	gency of the United	
(Continued on page 2)				*(Instruc	tions on page 2)	
6 A Rec 08/06/18			2010	KAC	18	

APPROVED WITH CONDITIONS 05/08/18 APPProval Date: 06/22/2018

· Jouthle

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements, Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

The Privacy Act of 1974 and regulation in 43 CFR 2:48(d) provide that you be furnished the following information in connection with information required by this application.

NOTICES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: LOT 3 / 2186 FSL / 811 FWL / TWSP: 25S / RANGE: 33E / SECTION: 19 / LAT: 32.1148363 / LONG: -103.6172861 (TVD: 0 feet, MD: 0 feet) PPP: LOT 3 / 2312 FSL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 19 / LAT: 32.1151811 / LONG: -103.6188413 (TVD: 12255 feet, MD: 12384 feet) BHL: LOT 4 / 230 FSL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.0949455 / LONG: -103.6188525 (TVD: 12299 feet, MD: 19752 feet)

BLM Point of Contact

Name: Katrina Ponder Title: Geologist Phone: 5752345969 Email: kponder@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Operator Certification Data Report

07/16/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Stan Wagner

Signed on: 02/28/2018

Title: Regulatory Specialsit

Street Address: 5509 Champions Drive

City: Midland

State: TX

State: TX

Zip: 79702

Phone: (432)686-3689

Email address: Stan_Wagner@eogresources.com

Field Representative

Representative Name: James Barwis

Street Address: 5509 Champions Drive

City: Midland

Zip: 79706

Phone: (432)425-1204

Email address: james_barwis@eogresources.com

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Application Data Report

APD ID: 10400027602

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Well Type: OIL WELL

Well Number: 711H

Well Work Type: Drill

Reservation:

Zip: 77002

APD Operator: EOG RESOURCES INCORPORATED

Submission Date: 02/28/2018

Righing Med dener Right Content

Show Final Text

 Section 1 - General

 APD ID:
 10400027602

 Tie to previous NOS?
 Submission Date: 02/28/2018

 BLM Office:
 CARLSBAD

 User:
 Stan Wagner

 Title:
 Regulatory Specialsit

 Federal/Indian APD:
 FED

 Lease number:
 NMNM110838

Allotted?

Federal or Indian agreement:

Agreement number:

Agreement in place? NO

Agreement name:

Keep application confidential? YES

Surface access agreement in place?

Permitting Agent? NO

Operator letter of designation:

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED

Operator Address: 1111 Bagby Sky Lobby2

Operator PO Box:

Operator City: Houston State: TX

Operator Phone: (713)651-7000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: AUDACIOUS 19 FEDERAL

Field/Pool or Exploratory? Field and Pool

Master SUPO name: Master Drilling Plan name: Well Number: 711H Field Name: RED HILLS

Mater Development Plan name:

Well API Number:

Pool Name: WC-025 S253309A UPPER WOLFCAMP

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Desc	ribe c	other	miner	als:					. ·	,								
is the	e prop	osed	well i	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	d? NO	Ne	ew s	surface o	listur	bance	?
Туре	of W	ell Pa	d: MU	LTIPL	E WE	ELL				ple Well P			Nu	ımt	⊳er: 601⊦	 /710	 /711	4
Well	Class	: HOF	RIZON	ITAL						ACIOUS 19 Der of Leg		RAL						
Well	Work	Туре	: Drill															
Well	Type:	OIL	WELL															
Desc	ribe V	Nell T	ype:															
Well	sub-1	уре:	INFILL	-														
Desc	ribe s	sub-ty	pe:									~						
Dista	ince t	o tow	n: 40	Miles			Dis	tance to	o nearest v	vell: 880 F	T	Dist	ance t	o le	ase line:	: 230 I	FT	
Rese	rvoir	well s	pacin	ig ass	ignec	l acre	s Me	asurem	ent: 240 A	cres								
Well	plat:	Au	dacio	us_19	_Fede	eral_7	11H_:	signed_	C_102_20	18022810 ⁻	1840.p	df						
Well	work	start	Date:	08/01	/2018				Durat	ti on: 25 D/	AYS							
[0	4					. . .		٦	•								
	Sec	tion	3 - V	vell	LOCa	ation	i i ai	DIE										
Surv	ey Tyj	pe: RE	ECTA	NGUL	AR													
Desc	ribe S	Survey	/ Туре) :														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88						
Surv	ey nu	mber:																
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	DVT
SHL	218	FSL	811	FWL			19	Lot	32.11483		LEA		NEW	F			0	0
Leg #1	6							3	63	103.6172 861		MEXI CO	CO		110838	2		
KOP	258	FSL	351	FWL	25S	33E	19	Lot	32.11594	-	LEA		NEW	F	NMNM	-	118	118
Leg #1	5							3	17	103.6187 641		MEXI CO	MEXI CO		110838	834 0	21	02
PPP Leg #1	231 2	FSL	330	FWL	25S	33E	19	Lot 3	32.11518 11	- 103.6188 413	LEA		NEW MEXI CO	F	NMNM 110838	- 879 3	123 84	122 55

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

.

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
EXIT Leg #1	330	FSL	330	FWL	25S	33E	30	Lot 4	32.09522 04	- 103.6188 523	LEA	1	NEW MEXI CO	F	NMNM 110838	- 883 7	196 52	122 99
BHL Leg #1	230	FSL	330	FWL	25S	33E	30	Lot 4	32.09494 55	- 103.6188 525	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 110838	- 883 7	197 52	122 99

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Pressure Rating (PSI): 5M

Rating Depth: 12299

Equipment: The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-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 & amp; amp; amp; amp; amp; Gas order No. 2. **Reguesting Variance?** YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint. Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation. **Testing Procedure:** Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 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 intermediate casing shoe.

Choke Diagram Attachment:

Audacious_19_Fed_711H_10_M_Choke_Manifold_20180222115434.pdf

Audacious_19_Fed_711H_Co_Flex_Hose_Certification_20180222115434.PDF

Audacious_19_Fed_711H_Co_Flex_Hose_Test_Chart_20180222115435.pdf

BOP Diagram Attachment:

Audacious_19_Fed_711H_10_M_BOP_Diagram_20180222115452.pdf

Audacious_19_Fed_711H_EOG_BLM_10M_Annular_Variance___4_String_20180222115452.pdf

Section	3 -	Casing
---------	-----	--------

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1110	0	1110	3462	2352	1110	J-55	54.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4000	0	4000	3462	-538	4000	J-55	40	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	4000	4800	4000	4800	-538	-1338	800	HCK -55	40	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	10800	0	10800	3462	-7338	10800	OTH ER		other - Dwc/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Operator Name: EOG RESOURCES INCORPORATED Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
5	INTERMED IATE	8.75	7.625	NEW	API	N	0	11300	0	11300	3462	-7838	11300	HCP -110		other - Fxl	1.12 5	1.25	BUOY	1.6	BUOY	1.6
-	PRODUCTI ON	6.75	5.5	NEW	API	N	10800	19752	10800	12299	-7338	-8837	8952	OTH ER		OTHER - VAM SFC	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1

String Type:SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Audacious_19_Fed_711H_BLM_Plan_20180222115841.pdf

Casing ID: 2

String Type:INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180222115855.pdf

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Casing Attachments

Casing ID: 3

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180222115911.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Audacious_19_Fed_711H_5.500in_20.00_VST_P110EC_DWC_C_IS_MS_20180222115933.pdf

See_previously_attached_Drill_Plan_20180222115933.pdf

Casing ID: 5 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Audacious_19_Fed_711H_7.625in_29.70_P110HC_FXL_20180222120057.pdf

See_previously_attached_Drill_Plan_20180222120059.pdf

Operator Name: EOG RESOURCES INCORPORATED **Well Name:** AUDACIOUS 19 FEDERAL

Well Number: 711H

Casing Attachments

Casing ID: 6

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Audacious_19_Fed_711H_5.500in_20.00_VST_P110EC_VAM_SFC_20180222120122.pdf

See_previously_attached_Drill_Plan_20180222120122.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

INTERMEDIATE	Lead	0	0	0	0	0	0	0	0	0

SURFACE	Lead	0	1110	600	1.73	13.5	1038	25	Class C	Lead: Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 Ib/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail	1110	1110	200	1.34	14.8	268	25	Class C	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead	0	4800	1780	2.2	12.7	3916	25	Class C	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C- 41P (TOC @ Surface)
INTERMEDIATE	Tail	4800	4800	200	1.12	16	224	25	Class C	Tail: Class C + 0.13% C-20

Operator Name: EOG RESOURCES INCORPORATED **Well Name:** AUDACIOUS 19 FEDERAL

Well Number: 711H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
	Lead		4300	1130 0	340	2.72	11.5	924	25	Class C	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,300')
INTERMEDIATE	Tail		1130 0	1130 0	210	1.12	16	235	25	Class H	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
PRODUCTION	Lead		1080 0	1975 2	950	1.26	14.1	1197	25	Class H	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C- 17 (TOC @ 10,800')

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: (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. **Describe the mud monitoring system 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.

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1110	4800	SALT SATURATED	10	10.02							
4800	1130 0	OIL-BASED MUD	8.7	9.4							

Circulating Medium Table

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

MUD		 Top Depth 	Bottom Depth 1110	행수 도 편 WATER-BASED	So Min Weight (Ibs/gal)	🗭 Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
	-	1130	1229	MUD OIL-BASED	10	14				·				-

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open-hole logs are not planned for this well.

List of open and cased hole logs run in the well:

DS

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8953

Anticipated Surface Pressure: 6247.21

Anticipated Bottom Hole Temperature(F): 181

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Audacious_19_Fed_711H_H2S_Plan_Summary_20180222120324.pdf

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Audacious_19_Federal_711H_Planning_Report_20180222120350.pdf

Audacious_19_Federal_711H_Wall_Plot_20180222120350.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Audacious_19_Fed_711H_Proposed_Wellbore_20180222120420.pdf

Audacious_19_Fed_711H_Rig_Layout_20180222120421.pdf

Audacious_19_Fed_711H_Wellhead_Cap_20180222120421.pdf

Audacious_19_Federal_GCP_20180226153907.pdf

Other Variance attachment:

Audacious_19_Fed_711H_EOG_BLM_10M_Annular_Variance___4_String_20180222120431.pdf



Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8* ID = 4*

Ends: Flanges Size: 4-1/16"

WP Rating: 10,000 psi Anchors required by manfacturer: No

MIDWEST

.

HOSE AND SPECIALTY INC.

	NTERNAL	L HYDROST	TATIC TEST	REPOR	Т	
Custome		****		P.O. Numb	er:	
CACTUS				RIG #123		
				Asset # N	110761	
		HOSE SPECI	FICATIONS	· • · •		
Туре:	CHOKE LIN	E		Length:	35'	
I.D.	4"	INCHES	O.D.	8"	INCI	IES
WORKING	PRESSURE	TEST PRESSUR	E	BURST PRES	SURE	
10,000) PSI	15,000	PSI			PSI
		COUP	LINGS	-		
Type of E	End Fitting 4 1/16 10K F					
Type of C	Coupling: SWEDGED		MANUFACTU MIDWEST HOS		LTY	
		PROC	EDURE			
	Hogo secombh	y pressure tested w	the water at embled			
		TEST PRESSURE	4	URST PRESSU	RE:	
	1	MIN.			0	P51
COMMEN	SN#90087 Hose is cov	M10761 ered with stainle fire resistant ve				
	insulation ra	ted for 1500 de	grees complete		eyes	
Date:		Tested By:		Approved:		
	6/6/2011	BOBBY FINK		MENDI J	ACKSO	N



Mondi Jackson

/ _____



10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

12-1/4" Intermediate Hole Section 10M psi requirement									
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP				
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M				
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M				
Jars	6.500″	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M				
DCs and MWD tools	6.500" - 8.000"	Annular	5M	-	-				
Mud Motor	8.000" – 9.625"	Annular	5M _	-	-				
1 st Intermediate casing	9.625″	Annular	5M	-	-				
Open-hole	-	Blind Rams	10M	-	-				

The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-3/4" Intermediate Hole Section 10M psi requirement								
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP			
Drillpipe	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
	4.500"			Lower 3.5 - 5.5" VBR	10M			
HWDP	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
	4.500"			Lower 3.5 - 5.5" VBR	10M			
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M			
				Lower 3.5 - 5.5" VBR	10M			
DCs and MWD tools	6.500" - 8.000"	Annular	5M	-	-			
Mud Motor	6.750" – 8.000"	Annular	5M	· -	-			
2 nd Intermediate casing	7.625″	Annular	5M	-	-			
Open-hole	-	Blind Rams	10M	-	-			

6-3/4" Production Hole Section 10M psi requirement									
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP				
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
				Lower 3.5 - 5.5" VBR	10M				
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
				Lower 3.5 - 5.5" VBR	10M				
DCs and MWD tools	4.750" - 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
				Lower 3.5 - 5.5" VBR	10M				
Mud Motor	4.750" - 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
				Lower 3.5 - 5.5" VBR	10M				
Mud Motor	5.500" - 5.750"	Annular	5M	-	-				
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M				
			•	Lower 3.5 - 5.5" VBR	10M				
Open-hole	- ,	Blind Rams	10M	-	-				

VBR = Variable Bore Ram

•

EOG Resources 13-5/8" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

ii. Pit gain

iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
- c. If impossible to pick up high enough to pull the string clear of the stack:
- d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
- e. Space out drill string with tooljoint just beneath the upper variable bore ram.
- f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
- g. Confirm shut-in
- h. Notify toolpusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

1,025'
1,352'
4,707'
4,948'
4,948'
4,970'
5,998'
7,544'
9,052'
10,001'
10,229'
10,647'
11,064'
11,720'
12,171'
12,299'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	5,998'	Oil
Brushy Canyon	7,544'	Oil
1 st Bone Spring Sand	10,001'	Oil
2 nd Bone Spring Shale	10,229'	Oil
2 nd Bone Spring Sand	10,647'	Oil
3 rd Bone Spring Carb	11,064'	Oil
3 rd Bone Spring Sand	11,720'	Oil
Wolfcamp	12,171'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 1,110' and circulating cement back to surface.

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,110'	13.375"	54.5#	J55	LTC	1.125	1.25	1.60
12.25"	0 - 4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 4,800'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,300'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-10,800'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,800'-19,752'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

4. CASING PROGRAM - NEW

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

Depth	No. Sacks	Wt. ppg	Yld Ft³/ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,110'	600	13.5	1.73	9.13	Lead: Class C + 4.0% Bentonite + 0.6% CD- $32 + 0.5\%$ CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
9-5/8" 4,800'	1780	12.7	2.20	11.64	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	200	16.0	1.12	4.75	Tail: Class C + 0.13% C-20
7-5/8" 11,300'	340	11.5	2.72	15.70	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,300')
	210	16.0	1.12	4.74	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
5-1/2" 19,752'	950	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800')

<u>Cementing Program</u>:

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (10,000-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.

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

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5000/250 psig. The intermediate casing will be tested to 2000 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 intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0-1,110'	Fresh - Gel	8.6-8.8	28-34	N/c
1,110' - 4,800'	Brine	10.0-10.2	28-34	N/c
4,800' - 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' - 19,752'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 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:

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8953 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

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

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

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

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

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

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

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

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

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

	MO-FYI	MO-FXL			
			Date	3-Nov-	16
Metal One	Connection Dat	Connection Data Sheet			
	Geometry.	Imperia	Rev.	0 <u>S.I.</u>	
	Pipe Body		_		
	Grade	P110HC 1		P110HC 1	
	Pipe OD (D)	7 5/8	in	193.68	mm
MO-FXL	Weight	29.70	lb/ft	-44.25	kg/m
	Actual weight	29.04		43.26	kg/m
	Wall Thickness (1)	0.375	in in	9.53	mm
	Pipe ID (d)	6.875	in	174.63	mm
	Pipe body cross section	8.537	in ²	5,508	mm
	Drift Dia.	6.750	in	171.45	mm
			·		
	Connection				
	Box OD (W)	7.625	in i	193.68	<u></u>
	PIN ID	6.875	in	174.63	mm
	Make up Loss	4.219	10	107.16	mm
Box	Box Critical Area	5.714	in ² .	3686	ាាញ
	kai Joint load efficiency	- 70	%	70	%
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	Number of Threads		a // Or	TPI	
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Make	- •				
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up koss	- • Performance Properties	ILC:X7	DSi	74.21	MPa MPa
up loss Pin	 Performance Properties M.I.Y.P. *1 	10.760	psi	74.21	MPa
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Audacious 19 Fed #711H Lea County, New Mexico





488'

*DIMENSIONS ARE APPROXIMATE					<u>-</u>
EUC BECUIBLEC	DWN	BAY	2/22/17		
	СНК			Steelink	DRAWING NO
10-3/4″ X 7-5/8″ X 5-1/2″ FBD-100 WELLHEAD SYSTEM	APP			T TELES	WH-16618
QUDTE: HDU - 102101		BY	DATE	Worldwide Expertise - Global Strength	

*CONCEPT QUOTE DRAWING *DIMENSIONS ARE APPROXIMATE



District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec. NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

Date: 02/26/2018

⊠ 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
Audacious 19 Federal 601H	30-025-****	3-19-258-33E	2186 FSL & 879 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 602H	30-025-****	K-19-25S-33E	2150 FSL & 1459 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 603H	30-025-****	K-19-25S-33E	1832 FSL & 2322 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 706H	30-025-****	K-19-25S-33E	1832 FSL & 2289 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 707H	30-025-*****	K-19-25S-33E	1832 FSL & 2254 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 70811	30-025-****	K-19-25S-33E	2151 FSL & 1426 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 709H	30-025-****	K-19-25S-33E	2153 FSL & 1393 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 710H	30-025-****	3-19-25S-33E	2186 FSL & 846 FWL	±3500	None Planned	APD Submission
Audacious 19 Federal 711H	30-025-****	3-19-25S-33E	2186 FSL & 811 FWL	±3500	None Planned	APD Submission

Gathering System and Pipeline Notification

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

Flowback Strategy

1.1

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

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

12-1/4" Intermediate Hole Section 10M psi requirement						
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP	
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M	
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M	
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M	
DCs and MWD tools	6.500" - 8.000"	Annular	5M	-	-	
Mud Motor	8.000" – 9.625"	Annular	5M	-	-	
1 st Intermediate casing	9.625″	Annular	5M	-	-	
Open-hole	-	Blind Rams	10M	-	-	

The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-3/4" Intermediate Hole Section 10M psi requirement						
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP	
Drillpipe	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
	4.500″			Lower 3.5 - 5.5" VBR	10M	
HWDP	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
	4.500"		j	Lower 3.5 - 5.5" VBR	10M	
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
				Lower 3.5 - 5.5" VBR	10M	
DCs and MWD tools	6.500" - 8.000"	Annular	5M	-	-	
Mud Motor	6.750" – 8.000"	Annular	5M	-	-	
2 nd Intermediate casing	7.625″	Annular	5M	-	-	
Open-hole	-	Blind Rams	10M	-	-	

6-3/4" Production Hole Section 10M psi requirement						
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP	
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
•				Lower 3.5 - 5.5" VBR	10M	
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
				Lower 3.5 - 5.5" VBR	10M	
DCs and MWD tools	4.750" – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
				Lower 3.5 - 5.5" VBR	10M	
Mud Motor	4.750" – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
				Lower 3.5 - 5.5" VBR	10M	
Mud Motor	5.500" – 5.750"	Annular	5M	-	-	
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M	
				Lower 3.5 - 5.5" VBR	10M	
Open-hole	-	Blind Rams	10M	-	-	

VBR = Variable Bore Ram

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2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

ii. Pit gain

iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
- c. If impossible to pick up high enough to pull the string clear of the stack:

d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close

- e. Space out drill string with tooljoint just beneath the upper variable bore ram.
- f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
- g. Confirm shut-in
- h. Notify toolpusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400027602

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

AUDACIOUS19FED711H_vicinity_20180226104229.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

AUDACIOUS19FED711H_padsite_20180226104251.pdf AUDACIOUS19FED711H_wellsite_20180226104252.pdf

AUDACIOUS19FEDCOM_infrastructure_20180226104252.PDF

New road type: RESOURCE

Length: 453 Feet Width (ft.): 24

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. We plan to grade and water twice a year. **New road access plan or profile prepared?** NO

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Show Final Text

SUPO Data Report

Row(s) Exist? NO

Well Work Type: Drill



Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: An adequate amount of topsoil/root zone will be stripped by dozer from the proposed well location and stockpiled along the side of the welllocation as depicted on the well site diagram / survey plat. **Access other construction information:**

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: No drainage crossings

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

AUDACIOUS19FED711H_radius_20180226104303.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Audacious 19 Fed Com CTB located in NE/4 of section 19

Production Facilities map:

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

AUDACIOUS19FEDCOM_infrastructure_20180226104313.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Describe type:

Source latitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: STATE

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 720000

Source volume (gal): 30240000

Water source and transportation map:

Audacious__BTL_19_Fed_Com_Water_Source_and_Caliche_20180226104421.docx

Water source comments:

New water well? NO

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of ac	quifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside di	ameter (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.)):
Well Production type:	Completion Method:	
Water well additional information:		

.

Water source type: RECYCLED

Source longitude:

Source volume (acre-feet): 92.80303

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by "Flipping" the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad.

Construction Materials source location attachment:

Audacious_BTL_19_Fed_Com_Water_Source_and_Caliche_20180226104435.docx

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. After drilling and completion operations; trash, chemicals, salts, frac sand, and other waste material will be removed and disposed of properly at a state approved disposal facility. **Amount of waste:** 0 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Trucked to NMOCD approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility. Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Audacious_19_Fed_711H_Rig_Layout_20180222120509.pdf AUDACIOUS19FED711H padsite 20180226104453.pdf AUDACIOUS19FED711H wellsite 20180226104454.pdf Comments: Wellsite, Padsite, Rig Layout

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: AUDACIOUS 19 FEDERAL

Multiple Well Pad Number: 601H/710H/711H

Recontouring attachment:

AUDACIOUS19FED711H reclamation 20180226104504.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Well pad proposed disturbance (acres): 4.481175	Well pad interim reclamation (acres): 1.35629	Well pad long term disturbance (acres): 3.124885
Road proposed disturbance (acres): 0.249587	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.249587
Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 5.003444 Other proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0. Pipeline interim reclamation (acres): 2.001377 Other interim reclamation (acres): 0	Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 3.002066 Other long term disturbance (acres): 0
Total proposed disturbance: 9.734206	Total interim regionation, 2 257667	Total long term disturbance: 6.376538

Disturbance Comments: All Interim and Final reclamation is planned to be completed within 6 months. Interim within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing. **Reconstruction method:** In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites. **Soil treatment:** Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

Existing Vegetation at the well pad: Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation. **Existing Vegetation Community at the road attachment:**

Existing Vegetation Community at the pipeline: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation. **Existing Vegetation Community at the pipeline attachment:**

Existing Vegetation Community at other disturbances: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation. **Existing Vegetation Community at other disturbances attachment:**

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed St	Total pounds/Acre	
Seed Type	Pounds/Acre	

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Stan

Last Name: Wagner

Phone: (432)686-3689

Email: stan_wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Seed source:

Source address:

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found. Weed treatment plan attachment:

Monitoring plan description: Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: EOG RESOURCES INCORPORATED **Well Name:** AUDACIOUS 19 FEDERAL

Well Number: 711H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: OnSite meeting conducted 12/20/17

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

AUDACIOUS19FED711H_location_20180226104530.pdf SUPO_Audacious_19_Federal_711H_20180226104546.pdf Audacious_19_Federal_GCP_20180226153930.pdf

SHL: 2186 FSL & 811 FWL, Section: 19, T.25S., R.33E. BHL: 230 FSL & 330 FWL, Section: 30, T.25S., R.33E.

Surface Use Plan of Operations

Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

1. Existing Roads

a. The existing access road route to the proposed project is depicted on Audacious 19 Federal 711H vicinity map. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan.

b. The existing access road route to the proposed project does not cross lease or unit boundaries, so a BLM rightof-way grant will not be acquired for this proposed road route.

c. The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.

d. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.

2. New or Reconstructed Access Roads

a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.

b. The length of access road needed to be constructed for this proposed project is about 453 feet.

c. The maximum driving width of the access road will be 24 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. All areas outside of the driving surface will be revegetated.

d. The access road will be constructed with 6 inches of compacted caliche.

e. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. See Road Cross Section diagram below.



EOG Resources, Inc. Audacious 19 Federal 711H SHL: 2186 FSL & 811 FWL, Section: 19, T.25S., R.33E. BHL: 230 FSL & 330 FWL, Section: 30, T.25S., R.33E.



- f. The access road will be constructed with a ditch on each side of the road.
- g. The maximum grade for the access road will be 2 percent.
- h. No turnouts will be constructed on the proposed access road.
- i. No cattleguards will be installed for this proposed access road.
- j. No BLM right-of-way grant is needed for the construction of this access road.
- k. No culverts will be constructed for this proposed access road.
- 1. No low water crossings will be constructed for the access road.
- m. Since the access road is on level ground, no lead-off ditches will be constructed for the proposed access road.

n. Newly constructed or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road.

3. Location of Existing Wells

a. Audacious 19 Federal 711H radius map of the APD depicts all known wells within a one mile radius of the proposed well.

b. There is no other information regarding wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, barrels, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color, Shale Green, from the BLM Standard Environmental Colors chart, unless another color is required in the APD Conditions of Approval.

b. If any type of production facilities are located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.

c. Production from the proposed well will be transported to the production facility named Audacious BTL 19 Fed Com CTB. The location of the facility is as follows: NE/4 of 19-25S-33E.

d. A pipeline to transport production will be installed from the proposed well to the existing production facility.

i. We plan to install a 4 inch buried flex steel pipeline from the proposed well to the offsite production facility. The proposed length of the pipeline will be 4359 feet. The working pressure of the pipeline will be about 125 psi. A 50 feet wide work area will be needed to install the buried pipeline. In areas where

blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.

ii. Audacious BTL 19 Fed Com infrastructure sketch depicts the proposed production pipeline route from the well to the existing production facility.

iii. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation or construction.

Additional Pipeline(s)

We propose to install 1 additional pipeline(s):

1. Buried gas lift gas pipeline:

a. We plan to install a 4 inch buried flex steel pipeline from the proposed well to the central tank battery. The proposed length of the pipeline will be 4359 feet. The working pressure of the pipeline will be about 125 psi. A 50 feet wide work area will be needed to install the buried pipeline. We will need an extra 10 foot wide area near corners to safely install the pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.

b. Audacious BTL 19 Fed Com infrastructure sketch depicts the proposed gas lift gas pipeline route.

c. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

Electric Line(s)

a. No electric line will be applied for with this APD.

5. Location and Types of Water

a. The source and location of the water supply are as follows: Water will be supplied from the frac pond as shown on the attached water source map This location will be drilled using a combination of water mud systems (outlined in the drilling program) The water will be obtained from commercial water stations in the area or recycled treated water and hauled to location by trucks or poly pipelines using existing and proposed roads depicted on the proposed existing access road maps In these cases where a poly pipeline is used to transport fresh water for drilling purposes_ proper authorizations will be secured by the contractor.

b. Audacious BTL 19 Fed Com Water Source and Caliche map depicts the proposed route for a 12 inch poly temporary (<90 days) water pipeline supplying water for drilling operations.

6. Construction Material

a. Caliche will be supplied from pits shown on the attached caliche source map.

Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by "Flipping" the

well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for "Flipping" a well location is as follows:

-An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche.

Subsoil will be removed and stockpiled within the surveyed well pad dimensions.

-Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions.

-Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available).

-Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.

* 🗌

In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

7. Methods for Handling Waste

a. Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.

b. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.

c. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.

d. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

e. The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

a. The following information is presented in the well site survey plat or diagram:

i. reasonable scale (near 1":50')

ii. well pad dimensions

iii. well pad orientation

iv. drilling rig components

v. proposed access road

vi. elevations of all points

vii. topsoil stockpile

viii. reserve pit location/dimensions if applicable

ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)

x. existing structures within the 600' x 600' archaeoligical surveyed area (pipelines, electric lines, well pads, etc

b. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.

c. A title of a well site diagram is Audacious 19 Federal 711H rig layout. This diagram depicts the rig layout.

d. Topsoil Salvaging

i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

Reclamation Objectives

i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.

ii. The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

iii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.

iv. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.

v. Interim reclamation will be performed on the well site after the well is drilled and completed. Audacious 19 Federal 711H reclamation depicts the location and dimensions of the planned interim reclamation for the well site.

Interim Reclamation Procedures (If performed)

1. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.

2. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. The areas planned for interim reclamation will then be recontoured to the original contour if feasible,

or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

4. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

6. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Final Reclamation (well pad, buried pipelines, etc.)

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is federal.

12. Other Information

a. An onsite meeting was conducted 12/20/17.

We plan to use 2, 12-inch lay flat hoses to transport water with an option to use 7, 4-inch poly lines for drilling

and frac operations.

We are asking for 2 associated pipelines all depicted on the attached Audacious BTL 19 Fed Com infrastructure sketch:

One 4-inch flex steel gas lift line per well

One 4-inch flex steel production flowline per well

The well is planned to be produced using gas lift as the artificial lift method.

Produced water will be transported via pipeline to the EOG produced water gathering system.

13. Maps and Diagrams

Audacious 19 Federal 711H vicinity map - Existing Road Audacious 19 Federal 711H radius map - Wells Within One Mile Audacious BTL 19 Fed Com infrastructure sketch - Production Pipeline Audacious BTL 19 Fed Com infrastructure sketch - gas lift gas Pipeline Audacious 19 Federal Water Source and Caliche map - Drilling Water Pipeline Audacious 19 Federal 711H rig layout - Well Site Diagram Audacious 19 Federal 711H reclamation - Interim Reclamation



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location: PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

07/16/2018

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

FAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM2308

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

07/16/2018

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Drilling Plan Data Report

5.0

07/16/2018

APD ID: 10400027602

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 711H

Submission Date: 02/28/2018

Show Final Text

NyMyhisi data Alaria Neo mosi

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	PERMIAN	3462	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2437	1025	1025	ANHYDRITE	NONE	No
3	TOP OF SALT	2110	1352	1352	SALT NONE		No
4	BASE OF SALT	-1245	4707	4707	SALT	NONE	No
5	LAMAR	-1486	4948	4948	LIMESTONE	NONE	No
6	BELL CANYON	-1508	4970	4970	SANDSTONE	NATURAL GAS, OIL	No
7	CHERRY CANYON	-2536	5998	5998	SANDSTONE NATURAL GAS,OIL		No
8	BRUSHY CANYON	-4082	7544	7544	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5590	9052	9052	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-6539	10001	10001	SANDSTONE NATURAL GAS,OIL SANDSTONE NATURAL GAS,OIL SANDSTONE NATURAL GAS,OIL		No
11	BONE SPRING 2ND	-7185	10647	10647			
12	BONE SPRING 3RD	-8258	11720	11720			No
13	WOLFCAMP	-8709	12171	12171	SHALE	NATURAL GAS, OIL	Yes

Section 2 - Blowout Prevention