Carlabas Mana

FORM APPROVED OMB No. 1004-0137 Expires October 31 2014

UNITED STATES DEPARTMENT OF THE INTE	ERIOR DE VINCE	Sp. Lease Serial No.),
BUREAU OF LAND MANAGE	EMENT WILL	6. If Indian, Allot	<u> </u>
APPLICATION FOR PERMIT TO DRI	LL OR REENTER	6. It indian, Anot	ee or tribe ivanie
la. Type of work: ✓ DRILL REENTER		7. If Unit or CA A	greement, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	8. Lease Name an AUDACIOUS 19	d'Well No. 322229 FEDERAL 603H
2. Name of Operator EOG RESOURCES INCORPORATED	7377)	9. API Well No.	- 45041
4444 5 4 64 4 44 644 4 554 556 6	Phone No. finclude area code) (3)651-7000	10. Field and Pool, of RED HILLS / WO	or Exploratory 7 9 9 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
4. Location of Well (Report location clearly and in accordance with any State	e requirements.*)	11. Sec., T. R. M. or	Blk and Survey or Area
At surface NESW / 1832 FSL / 2322 FWL / LAT 32.1138682	/ LONG -103.6124041	SEC 19 / T25S /	R33E / NMP
At proposed prod. zone SESW / 230 FSL / 2310 FWL / LAT 32.	0949506 / LONG -103.612		
14. Distance in miles and direction from nearest town or post office* 40 miles		12. County or Parish LEA	13. State NM
location to managet 220 fe -4	No. of acres in lease	17 Spacing Unit dedicated to thi 240	s well
18. Distance from proposed location*	Proposed Depth	20. BLM/BIA Bond No. on file	
	145 feet / 19610 feet	FED: NM2308	
	Approximate date work will star	t* 23. Estimated durate 25 days	ion
	Attachments	25 days	
The following, completed in accordance with the requirements of Onshore Oil		to should be this Comme	
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the litem 20 above).	ne operations unless covered by	an existing bond on file (see
 A Surface Use Plan (if the location is on National Forest System Lands SUPO must be filed with the appropriate Forest Service Office). 		ation specific information and/or plans	as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Stan Wagner / Ph: (432)	686-3689	Date 02/28/2018
Title Regulatory Specialsit			
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)2	34-5959	Date 06/22/2018
Title	Office		, , , , , , , , , , , , , , , , , , ,
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant holds leg-	CARLSBAD	ts in the subject lease which would	dentitle the annlicant to
conduct operations thereon.) Conditions of approval, if any, are attached.	aror equitable title to those righ	is in the subject lease which would	зенине не аррисансто
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime states any false, fictitious or fraudulent statements or representations as to any	for any person knowingly and v	villfully to make to any departmen	t or agency of the United
(Continued on page 2) Rec 08/06/18	countil	1/	structions on page 2)

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pproval Date: 06/22/2018

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.

NOTICES

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.

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)

Approval Date: 06/22/2018

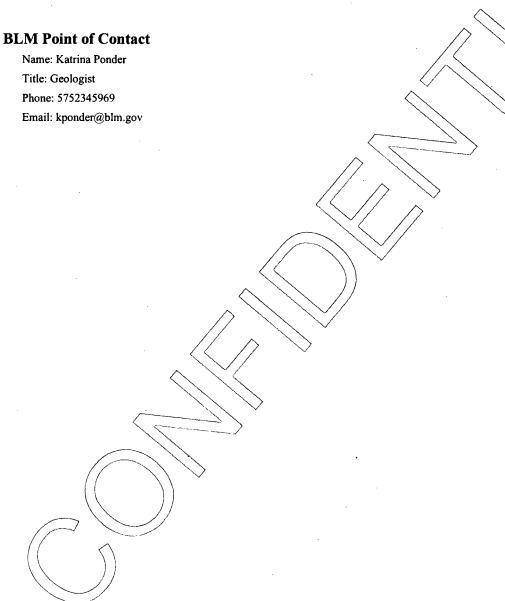
Additional Operator Remarks

Location of Well

1. SHL: NESW / 1832 FSL / 2322 FWL / TWSP: 25S / RANGE: 33E / SECTION: 19 / LAT: 32.1138682 / LONG: -103.6124041 (TVD: 0 feet, MD: 0 feet)

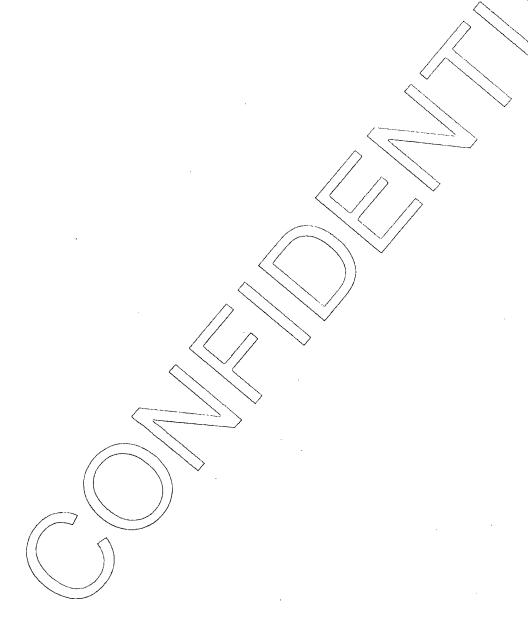
PPP: NESW / 2310 FSL / 2310 FWL / TWSP: 25S / RANGE: 33E / SECTION: 19 / LAT: 32.1151817 / LONG: -103.6124463 (-TVD: 12101 feet, MD: 12244 feet)

BHL: SESW / 230 FSL / 2310 FWL / TWSP: 25S / RANGE: 33E / SECTION: 30 / LAT: 32.0949506 / LONG: -103.6124589 (TVD: 12145 feet, MD: 19610 feet)



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

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

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

State: TX

Zip: 79706

Phone: (432)425-1204

Email address: james_barwis@eogresources.com



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

Application Data Report

APD ID: 10400027347 Submission Date: 02/28/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400027347

Tie to previous NOS?

Submission Date: 02/28/2018

BLM Office: CARLSBAD

User: Stan Wagner

Title: Regulatory Specialsit

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM110838

Lease Acres: 1761.04

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: EOG RESOURCES INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED

Operator Address: 1111 Bagby Sky Lobby2

Zip: 77002

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

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: WC-025 S253235G

LWR BS

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

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: **AUDACIOUS 19 FEDERAL** Number: 603H/706H/707H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL **Describe Well Type:**

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 40 Miles

Distance to nearest well: 880 FT

Distance to lease line: 230 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat:

Audacious_19_Federal_603H_signed_C_102_20180228101252.pdf

Well work start Date: 08/01/2018

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

													_					
	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
SHL Leg #1	183 2	FSL	232 2	FWL	258	33E	19	Aliquot NESW	32.11386 82	- 103.6124 041	LEA	1	NEW MEXI CO	F	NMNM 110838	345 1	0	0
KOP Leg #1	258 5	FSL	230 6	FWL	258	33E	19	Aliquot NESW	32.11593 95	- 103.6124 421		1	NEW MEXI CO		NMNM 110838	- 817 4	116 58	116 25
PPP Leg #1	231 0	FSL	231 0	FWL	258	33E	19	Aliquot NESW	32.11518 17	- 103.6124 463			NEW MEXI CO	F	NMNM 110838	- 865 0	122 44	121 01

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

	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	231 0	FWL	258	33E	30	Aliquot SESW	32.09522 55	- 103.6124 587	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 110838	- 869 4	195 10	121 45
BHL Leg #1	230	FSL	231 0	FWL	25S	33E	30	Aliquot SESW	32.09495 06	- 103.6124 589	LEA	NEW MEXI CO	111	F	NMNM 110838	- 869 4	196 10	121 45

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

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 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_603H_10_M_Choke_Manifold_20180215134216.pdf

Audacious_19_Fed_603H_Co_Flex_Hose_Certification_20180215134216.PDF

Audacious_19_Fed_603H_Co_Flex_Hose_Test_Chart_20180215134217.pdf

BOP Diagram Attachment:

Audacious_19_Fed_603H_10_M_BOP_Diagram_20180215134235.pdf

Audacious_19_Fed_603H_EOG_BLM_10M_Annular_Variance___4_String_20180215134235.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	3451	2341	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	3451	-549	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	-549	-1349	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	3451	-7349	10800	OTH ER		OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6
- 1	INTERMED IATE	8.75	7.625	NEW	API	N	0	11300	0	11300	3451	-7849	11300	HCP -110	29.7	OTHER - FXL	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	N	10800	19610	10800	12145	-7349	-8694		OTH ER	20	OTHER - VAM SFC	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing Attachments Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Audacious_19_Fed_603H_BLM_Plan_20180215134820.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_20180215134836.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): See_previously_attached_Drill_Plan_20180215134926.pdf

Well Number: 603H

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Operator Name: EOG RESOURCES INCORPORATED Well Name: AUDACIOUS 19 FEDERAL Well Number: 603H **Casing Attachments** Casing ID: 4 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Audacious 19 Fed 603H 5.500in 20.00 VST P110EC DWC C IS MS 20180215134944.pdf See previously attached Drill Plan_20180215134944.pdf Casing ID: 5 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Audacious_19_Fed_603H_7.625in_29.70_P110HC_FXL_20180215135010.pdf See_previously_attached_Drill_Plan_20180215135010.pdf Casing ID: 6 String Type: PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:**

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180215135029.pdf

Audacious_19_Fed_603H_5.500in_20.00_VST_P110EC_VAM_SFC_20180215135029.pdf

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

Section	4 - C	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
				<u> </u>		•					
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
		I		1	<u>I</u>	I	ı				
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 lb/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
INTERMEDIATE	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	1961 0	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')

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4800	1130 0	OIL-BASED MUD	8.7	9.4							
0	1110	WATER-BASED MUD	8.6	8.8							
1110	4800	SALT SATURATED	10	10.02	·						·
1130 0	1214 5	OIL-BASED MUD	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

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8841

Anticipated Surface Pressure: 6169.1

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_603H_H2S_Plan_Summary_20180215135237.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Audacious_19_Federal_603H_Wall_Plot_20180215135322.pdf

Audacious 19 Federal 603H Planning Report 20180215135322.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Audacious_19_Fed_603H_Proposed_Wellbore_20180215135346.pdf

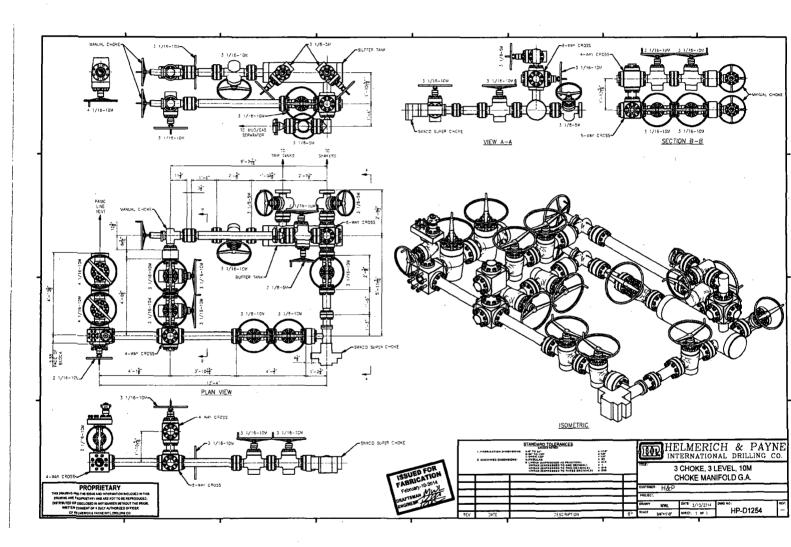
Audacious_19_Fed_603H_Rig_Layout_20180215135347.pdf

Audacious_19_Fed_603H_Wellhead_Cap_20180215135347.pdf

Audacious_19_Federal_GCP_20180226153338.pdf

Other Variance attachment:

Audacious 19 Fed 603H EOG BLM 10M Annular Variance 4 String 20180215135358.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.

INTERNA	L HYDROST	ATIC TEST	REPOR	T	
Customer:			P.O. Numl	oer:	
CACTUS			RIG #12:	3	
			Asset # I	M1076	i
	HOSE SPECII	FICATIONS			
Type: CHOKE LIN	(E		Length:	35'	l
I.D. 4	" INCHES	O.D.	8"	INC	CHES
WORKING PRESSURE	TEST PRESSUR	E	BURST PRE	SSURE	
10,000 <i>PSI</i>	15,000	PSI			PSI_
	COUP	LINGS			
Type of End Fitting 4 1/16 10K	FLANGE				
Type of Coupling:		MANUFACTU	RED BY	• • • • • • • • • • • • • • • • • • • •	
SWEDGED		MIDWEST HOS	SE & SPECIA	ALTY	
	PROC	EDURE			
Hose assemb	ly pressure tested w	ith water at ambier	nt temperature		
	T TEST PRESSURE		SURST PRESS		
	MIN.			0	PSI
wraped wit	M10761 vered with staini h fire resistant v rated for 1500 de	ermiculite cost	ed fiberglas	.	
Date: 6/6/2011	Tested By: BOBBY FINK		Approved: MENDI	-	ON

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

SALES ORDER# 90067

Customer: CACTUS

Hose Specifications

Hose Type C & K LD. 4"

Working Pressure 10000 PSI

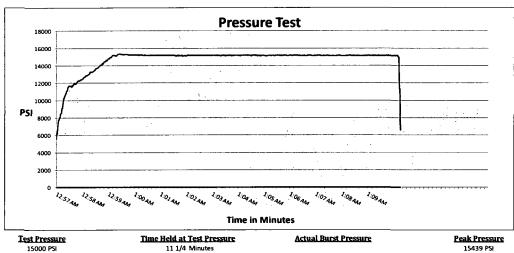
O.D.

Burst Pressure

Verification

Type of Fitting 4 1/16 10K Die Size 6.62" Hose Serial #

Coupling Method Swage Final O.D. 6.68" Hose Assembly Serial # 90067



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

Tested By: Bobby Fink

Approved By: Mendi Jackson

satisfactor accepts

Mendi Jackson

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

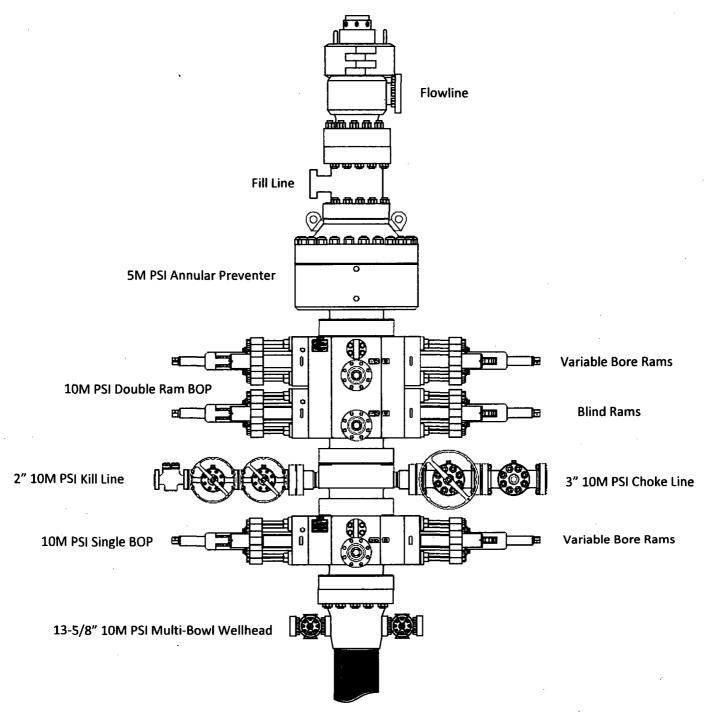
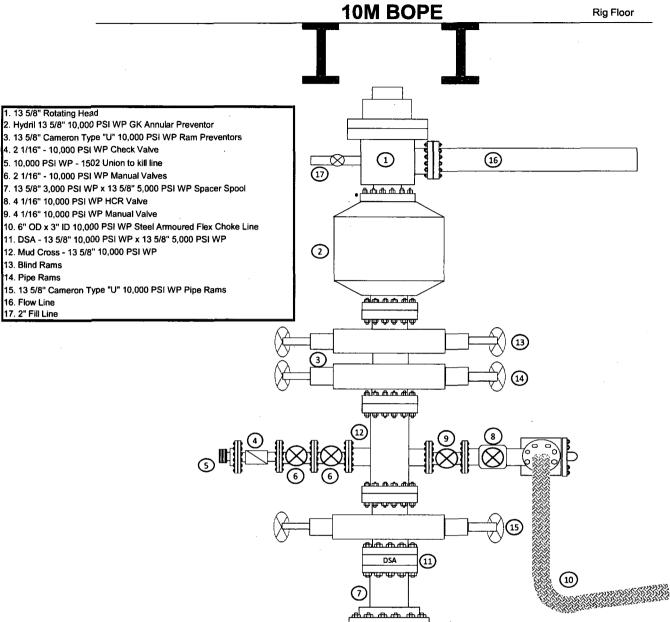


Exhibit 1 EOG Resources



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

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.

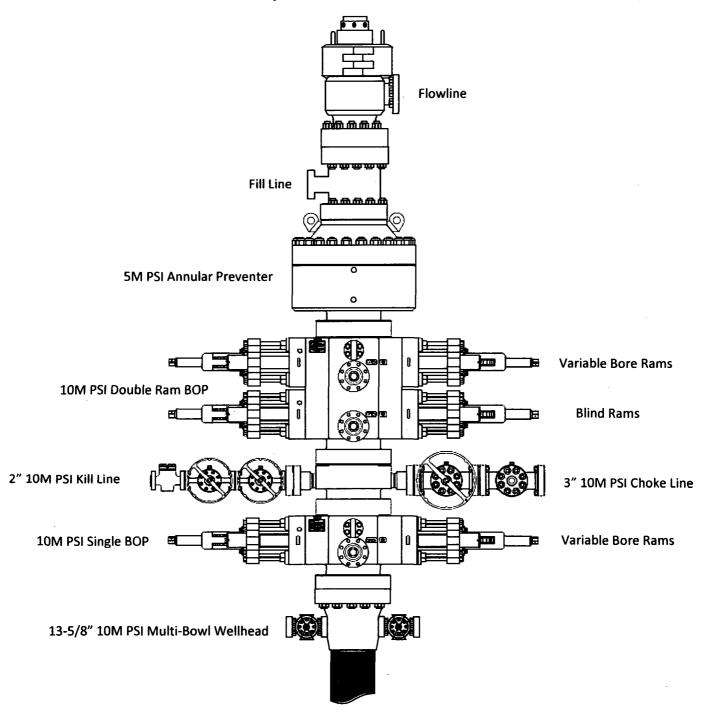
12-1/4" Intermediate Hole Section 10M psi requirement										
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP					
Drillpipe	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M					
	4.500"			Lower 3.5 - 5.5" VBR	10M					
HWDP	5.000" or	Annular	5M	Upper 3.5 - 5.5" VBR	10M					
	4.500"			Lower 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	8.000" - 9.625"	Annular	5M	-	-					
1 st Intermediate casing	9.625"	Annular	5M	+	· -					
Open-hole	-	Blind Rams	10M	-	-					

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

etal One Corp.	MO-FXL		Page	MCTF	
	MOSTAL		Date	3-Nov-	16
Metal One	Connection Data	Sheet			
			Rev.	0	
	Géometry		_		
		<u>Imperia</u>	1	<u>S.I.</u>	
•	Pipe Body				
	Grade :	P110HG*1	4.5	P110HC 1	\$34.5 X E
	Pipe OD (D)	7 5/8	in	193.68	mm
MO-FXL	Weight*, A. G.P.	29.70	lb/ft	44/25 /	kg/m
	Actual weight	29.04		43.26	kg/m
	Wall Thickness (t)	0.375	in ·	9.53	mm
	Pipe ID (d)	6.875	in	174.63	mm
	Pipe body cross section	8.537	in ²	5,508	mm²
	Drift Dia.	6.750	in	171.45	mm
	Connection				
- Constitution in the cons	Connection Box (OD) (W)		32.50	402.60	14-2-4-2-1
	PIN ID	7:625	· in	193.68	mm
T SE	Make up Loss	6.875 4.219	in Sin	174.63 107.16	mm
	Box Critical Area			2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	mm
Box	5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5.714	in ²	3686	mm²
critical	Joint load efficiency	70	%	70	% **
	Throad Tonor	4	14014	7" ~~ # 1	
area area	Thread Taper Number of Threads			2" per ft) TP	
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1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,018'
Top of Salt	1,356'
Base of Salt	4,711'
Base Anhydrite	4,952'
Lamar	4,952'
Bell Canyon	4,974'
Cherry Canyon	6,002'
Brushy Canyon	7,548'
Bone Spring Lime	9,082'
1 st Bone Spring Sand	10,050'
2 nd Bone Spring Shale	10,224'
2 nd Bone Spring Sand	10,501'
3 rd Bone Spring Carb	11,034'
3 rd Bone Spring Sand	11,738'
TD	12,145'

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

Upper Permian Sands	0- 400'	Fresh Wate
Cherry Canyon	6,002'	Oil
Brushy Canyon	7,548'	Oil
1 st Bone Spring Sand	10,050'	Oil
2 nd Bone Spring Shale	10,224'	Oil
2 nd Bone Spring Sand	10,501'	Oil
3 rd Bone Spring Carb	11,034'	Oil
3 rd Bone Spring Sand	11,738'	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.

4. CASING PROGRAM - NEW

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'-19,610'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

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.

Cementing Program:

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')
i	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" 19,610'	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')

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' – 19,610'	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 8841 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.



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



APD ID: 10400027347

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

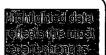
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Well Type: OIL WELL

Submission Date: 02/28/2018

Well Number: 603H

Well Work Type: Drill



Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

AUDACIOUS19FED603H_vicinity_20180226095624.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

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:

AUDACIOUS19FED603H_padsite_20180226095649.pdf

AUDACIOUS19FEDCOM_infrastructure_20180226095650.PDF

AUDACIOUS19FED603H_wellsite_20180226095650.pdf

New road type: RESOURCE

Length: 2423

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

Well Name: AUDACIOUS 19 FEDERAL

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.

Well Number: 603H

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:

AUDACIOUS19FED603H_radius_20180226095701.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: 603H

AUDACIOUS19FEDCOM infrastructure 20180226095716.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

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 (acre-feet): 92.80303

Source volume (gal): 30240000

Water source and transportation map:

Audacious__BTL_19_Fed_Com_Water_Source_and_Caliche_20180226095834.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 aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (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:

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

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_20180226095849.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 containment 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: 603H

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 603H Rig Layout 20180215135439.pdf

AUDACIOUS19FED603H_padsite_20180226095911.pdf

AUDACIOUS19FED603H wellsite_20180226095912.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: 603H/706H/707H

Recontouring attachment:

AUDACIOUS19FED603H_reclamation_20180226095926.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: 603H

Well pad proposed disturbance

(acres): 4.481175

Road proposed disturbance (acres):

1.334986

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 3.034894

Other proposed disturbance (acres): 0

Other proposed disturbance (acres).

Total proposed disturbance: 8.851055

Well pad interim reclamation (acres):

1.35629

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

0

Pipeline interim reclamation (acres):

1.213958

Other interim reclamation (acres): 0

Total interim reclamation: 2.570248

Well pad long term disturbance

(acres): 3.124885

Road long term disturbance (acres):

1.334986

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 1.820937

Other long term disturbance (acres): 0

Total long term disturbance: 6.280808

Disturbance Comments: All Interim and Final reclamation is planned to be completed within 6 months. Interim 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 andscape. 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: 603H		
Non native seed used? NO				
Non native seed description:	:			
Seedling transplant descript	ion:			
Will seedlings be transplante	ed for this project? NO			
Seedling transplant descript	ion attachment:			
Will seed be harvested for us	se in site reclamation?	NO		
Seed harvest description:				
Seed harvest description att	achment:			
Seed Managemen	t			
Seed Table				
Seed type:		Seed source:		
Seed name:				
Source name:		Source address:		
Source phone:				
Seed cultivar:				
Seed use location:				
PLS pounds per acre:		Proposed seeding season:		
Seed Summary		Total pounds/Acre:		
Seed Type	Pounds/Acre			
Seed reclamation attachmen	ıt:			
Operator Contact/l	Responsible Offici	al 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

Well Name: AUDACIOUS 19 FEDERAL

Well Number: 603H

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: W	ELL 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:

Well Name: AUDACIOUS 19 FEDERAL Well Number: 603H

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

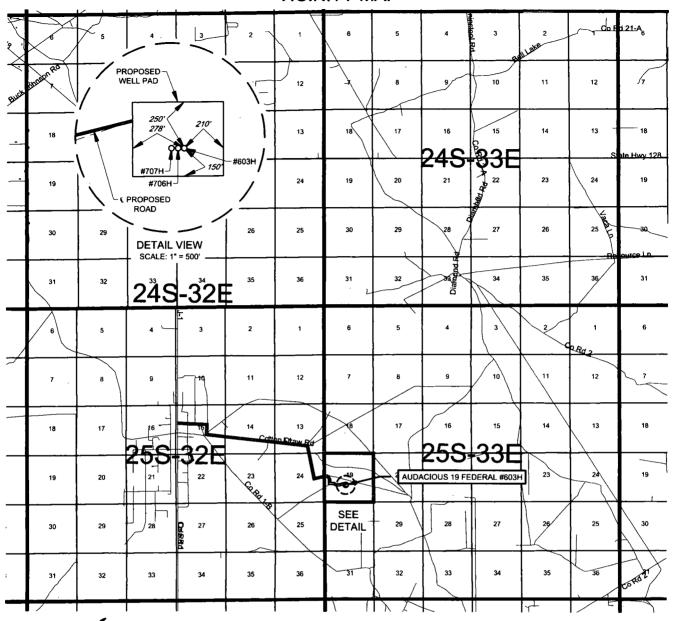
Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

SUPO_Audacious_19_Federal_603H_20180226100024.pdf AUDACIOUS19FED603H_location_20180226100051.pdf Audacious_19_Federal_GCP_20180226153357.pdf

EXHIBIT 2 VICINITY MAP

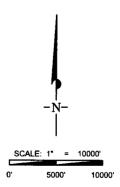


Seog resources, inc.

LEASE NAME & WELL NO.:	AUDACIOUS 19 FEDERAL #603H					
SECTION 19 TWP 25-S COUNTY LEA			N.M.P.M.			
DESCRIPTION	1832' FSL & 2322' FWL					
DISTANCE & DIRECTION FROM INT. OF COTTON DRAW F	D 8 (L1) OD	IA PD COEM	RT ON			
COTTON DRAW RD. ±3.9 MILES.						
PROPOSED RD. ±0.5 MILES, TO						

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.





1400 EVERMAN PARKWAY, Ste. 146 - FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 - FAX (817) 744-7548 2903 MORTH BIG SPRING - MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM

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 603H 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 right-of-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.

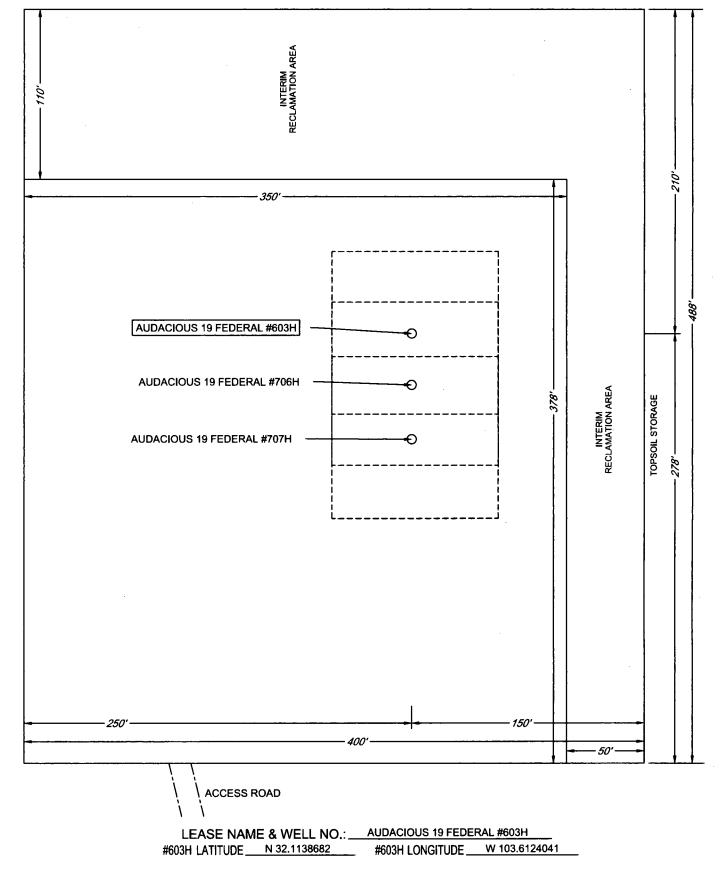
2. New or Reconstructed Access Roads

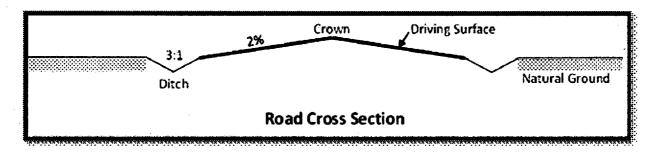
- a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 2423 feet.
- c. The maximum driving width of the access road will be 24 feet. The maximum width 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.

EXHIBIT 2C RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 19, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M. LEA COUNTY, NEW MEXICO DETAIL VIEW SCALE: 1" = 80"







- 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 603H 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 2644 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

SHL: 1832 FSL & 2322 FWL, Section: 19, T.25S., R.33E.

BHL: 230 FSL & 2310 FWL, Section: 30, T.25S., R.33E.

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 2644 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

SHL: 1832 FSL & 2322 FWL, Section: 19, T.25S., R.33E.

BHL: 230 FSL & 2310 FWL, Section: 30, T.25S., R.33E.

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 603H 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 603H 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

SHL: 1832 FSL & 2322 FWL, Section: 19, T.25S., R.33E.

BHL: 230 FSL & 2310 FWL, Section: 30, T.25S., R.33E.

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 603H vicinity map - Existing Road

Audacious 19 Federal 603H 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 603H rig layout - Well Site Diagram

Audacious 19 Federal 603H reclamation - Interim Reclamation



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

Drilling Plan Data Report

07/20/2018

APD ID: 10400027347

Submission Date: 02/28/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: AUDACIOUS 19 FEDERAL

Well Type: OIL WELL

Well Number: 603H

Well Work Type: Drill

Show Final Text



Section 1 - Geologic Formations

Formation			True Vertical	Measured	4 - 4		Producing
ÎD	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	_
1	PERMIAN	3451	Ö	Ó	ALLUVIUM	NONE	No
2	RUSTLER	2433	1018	1018	ANHYDRITE	NONE	No
3	TOP OF SALT	2095	1356	1356	SALT	NONE	No
4	BASE OF SALT	-1260	4711	4711	SALT	NONE	No
5	LAMAR	-1501	4952	4952	LIMESTONE	NONE	No
6	BELL CANYON	-1523	4974	4974	SANDSTONE	USEABLE WATER	No
7	CHERRY CANYON	-2551	6002	6002	SANDSTONE	NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4097	7548	7548	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5631	9082	9082	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-6599	10050	10050	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 2ND	-7050	10501	10501	SANDSTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-8287	11738	11738	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12145

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; amp; Gas order No. 2.

Requesting 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



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):



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

Bond Info Data Report

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?

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: