Form 3160-3 March 2012) DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	INTERIOR	HOBBS JAN 2 REENRECT	2 2018	Expires C 5. Lease Serial No. NMNM02965A	APPROVED to. 1004-0137 totober 31, 2014 	
la. Type of work: DRILL REENTE				7 If Unit or CA Agre	ement, Name and No).
Ib. Type of Well: Oil Well Gas Well Other	∕ √ Sir	ngle Zone 🔲 Multip	ole Zone	8. Lease Name and V BARLOW 34 FED		780
2. Name of Operator EOG RESOURCES INCORPORATED	(7377)		9. API Well No.	114701	
3a. Address	3b. Phone No.	(include area code)		10. Field and Pool, or I	- T 8 27/	<u> </u>
1111 Bagby Sky Lobby2 Houston TX 77002	(713)651-7	000		RED HILLS / WC-0	25 S263327G	
4. Location of Well (Report location clearly and in accordance with an				11. Sec., T. R. M. or B	lk. and Survey or Are	a
At surface SWNE / 300 FSL / 1615 FEL / LAT 32.00108 At proposed prod. zone NESE / 2410 FSL / 1293 FEL / LAT			8096	SEC 34 / T26S / R	33E / NMP	
 4. Distance in miles and direction from nearest town or post office* 35 miles 				12. County or Parish LEA	13. State NM	<u> </u>
 Distance from proposed* location to nearest groperty or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of a 2174.12	cres in lease	17. Spacin 160	g Unit dedicated to this v	vell	
 Distance from proposed location* to nearest well, drilling, completed, 332 feet applied for, on this lease, ft. 	19. Proposed 12319 feet	1 Depth t / 17001 feet	20. BLM/ FED: NI	BIA Bond No. on file M2308		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3318 feet	22. Approxit 01/01/201	mate date work will star 8	<u>(</u> rt*	23. Estimated duration 25 days	n	
	24. Attac	hments				
he following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, must be a	ttached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 		Item 20 above).	•	ns unless covered by an	existing bond on file	e (see
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	5. Operator certific 6. Such other site BLM.		ormation and/or plans as	may be required by	the
25. Signature (Electronic Submission)		(Printed/Typed) Wagner / Ph: (432)	686-3689	· .	Date 08/01/2017	
Regulatory Specialsit					•	
Approved by (Signature) (Electronic Submission)		(Printed/Typed) / Ballard / Ph: (575)234-2235	5	Date 01/08/2018	
îitle	Office		,			
Natural Resource Specialist Application approval does not warrant or certify that the applicant hold		_SBAD table title to those righ	ts in the sul	oject lease which would e	ntitle the applicant to)
onduct operations thereon. Conditions of approval, if any, are attached.						
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a clates any false, fictitious or fraudulent statements or representations as	rime for any po to any matter w	erson knowingly and v vithin its jurisdiction.	villfully to n	nake to any department o	r agency of the Unit	ted
(Continued on page 2)		· · · · · · · · · · · · · · · · · · ·		*(Inst	ructions on pag	e 2)

Approval Date: 01/08/2018

Do sided

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)

Additional Operator Remarks

Location of Well

SHL: SWNE / 300 FSL / 1615 FEL / TWSP: 26S / RANGE: 33E / SECTION: 34 / LAT: 32.0010832 / LONG: -103.5568426 (TVD: 0 feet, MD: 0 feet)
 PPP: SENE / 330 FSL / 1290 FEL / TWSP: 26S / RANGE: 33E / SECTION: 34 / LAT: 32.0011657 / LONG: -103.5557942 (TVD: 12275 feet, MD: 12397 feet)
 BHL: NESE / 2410 FSL / 1293 FEL / TWSP: 26S / RANGE: 33E / SECTION: 27 / LAT: 32.0138074 / LONG: -103.5558096 (TVD: 12319 feet, MD: 17001 feet)

BLM Point of Contact

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: 5752345934 Email: pperez@blm.gov

(Form 3160-3, page 3)

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.

Approval Date: 01/08/2018

VAFMSS

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

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: 08/01/2017

Operator Certification Data Report

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		Application	Data Report
BUREAU OF LAND MANAGEMENT	دیکار میں میں ایرون کا میں میں ایرون کا میں اور ایرون کا ایرون کا ایرون کا ایرون کا ایرون کا ایرون کا ایرون کا ایرون کا ایرون کا ایر	A THE PARTY	
APD ID: 10400013359	Submission	n Date: 08/01/2017	Highlighted data
Operator Name: EOG RESOURCES INCO	DRPORATED		reflects the most recent changes
Well Name: BARLOW 34 FED COM	Well Numb	er: 712H	Show Final Text
Well Type: OIL WELL	Well Work	Type: Drill	
Section 1 - General APD ID: 10400013359	Tie to previous NOS?	Submi	ssion Date: 08/01/2017
BLM Office: CARLSBAD	User: Stan Wagner	Title: Regula	tory Specialsit
Federal/Indian APD: FED	Is the first lease penetra	ted for production Feder	al or Indian? FED
Lease number: NMNM02965A	Lease Acres: 2174.12		
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agreen	nent:	- -
Agreement number:			. · · ·
Agreement name:			

Keep application confidential? NO

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: BARLOW 34 FED COM

Field/Pool or Exploratory? Field and Pool

Mater Development Plan name: Master SUPO name: Master Drilling Plan name: Well Number: 712H

Field Name: RED HILLS

APD Operator: EOG RESOURCES INCORPORATED

Zip: 77002

Well API Number:

Pool Name: WC-025 S263327G

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: BARLOW 34 FED COM

Well	Num	ber:	712H
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·. ·/				
. · · ·				
Describe other minerals:				
s the proposed well in a Helium produc	ction area? N	Use Existing Well Pad?	P NO	New surface disturbance?
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name	e:	Number: 710H/711H/712H
Well Class: HORIZONTAL		BARLOW 34 FED COM Number of Legs: 1		• .
Well Work Type: Drill				
Well Type: OIL WELL				
Describe Well Type:				r.
Vell sub-Type: INFILL				
Describe sub-type:				
Distance to town: 35 Miles	Distance to ne	arest well: 332 FT	Distanc	e to lease line: 300 FT
Reservoir well spacing assigned acres	Measurement	: 160 Acres		
Well plat: Barlow_34_Fed_com_712H	l_signed_C_10	2_08-01-2017.pdf		
Well work start Date: 01/01/2018		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	ŤVD Č
SHL Leg #1	300	FSL	161 5	FEL	26S	33E	34	Aliquot SWNE	32.00108 32	- 103.5568 426	LĘA	í	NEW MEXI CO	F 、	NMNM 02965A	331 8	0	0
KOP Leg #1	53	FSL	130 9	FEL	26S	33E	34	Aliquot SENE	32.00040 05	- 103.5558 637	LEA		NEW MEXI CO		NMNM 02965A	- 850 8	118 36	118 26
PPP Leg #1	330 -	FSL	129 0	FEL	26S	33E	34	Aliquot SENE	32.00116 57	- 103.5557 942	LEA		NEW MEXI CO		NMNM 02965A	- 895 7	123 97	122 75

Well Name: BARLOW 34 FED COM

Well Number: 712H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QM	DVT
EXIT Leg #1	231 0	FSL	129 3	FEL	26S	33E	27	Aliquot NESE	32.01353 25	- 103.5558 092	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 121490	- 900 1	169 01	123 19
BHL Leg #1	241 0	FSL	129 3	FEL	26S	33E	27	Aliquot NESE	32.01380 74	- 103.5558 096	LEA	NEW MEXI CO		F	NMNM 121490	- 900 1	170 01	123 19

.

Page 3 of 3

Well Name: BARLOW 34 FED COM

Well Number: 712H

Pressure Rating (PSI): 10M

Rating Depth: 12319

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 (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 and 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 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.

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 5000/ 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 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.

Choke Diagram Attachment:

Barlow_34_Fed_Com_711H_10_M_Choke_Manifold_07-25-2017.pdf

Barlow_34_Fed_Com_711H_Co_Flex_Hose_Certification_07-25-2017.PDF

Barlow_34_Fed_Com_711H_Co_Flex_Hose_Test_Chart_07-25-2017.pdf

BOP Diagram Attachment:

Barlow_34_Fed_Com_711H_10_M_BOP_Diagram_07-25-2017.pdf

Section	3 -	Ca	sing
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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	14.7 5	10.75	NEW	API	N	0	874	0	874	3318	2444	874	J-55	40.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
2	INTERMED IATE	9.87 5	7.625	NEW	API	Y	0	1000	0	1000	3318	2318	1000	HCP -110	29.7	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	INTERMED IATE	9,87 5	7.625	NEW	API	N	1000	3000	1000	3000	2318	318		OTH ER		OTHER - SLIJ II	1.12 5	1.25	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	10900	0	10900	3318	-7582	10900	P- 110		OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Well Name: BARLOW 34 FED COM

Well Number: 712H

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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	INTERMED IATE	8.75	7.625	NEW	API	N	3000	11400	3000	11400	318	-8082	8400	HCP -110		OTHER - Flushmax III	1	1.25	BUOY	1.6	BUOY	1.6
6	PRODUCTI ON	6.75	5.5	NEW	APi	N	10900	17001	10900	12319	-7582	-9001	6101	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):

Barlow_34_Fed_Com_712H_BLM_Plan_07-25-2017.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

See_previously_attached_Drill_Plan_07-25-2017.pdf Barlow_34_Fed_Com_712H_7.625in_29.7_P110EC_VAM_SLIJ_II_07-25-2017.pdf Barlow_34_Fed_Com_712H_7.625in_29.70_P_110_FlushMax_III_07-25-2017.pdf

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_07-25-2017.pdf

Well Name: BARLOW 34 FED COM

Well Number: 712H

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_20171002131949.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Barlow_34_Fed_Com_712H_5.5in_20.00_VST_P110EC_VAM_SFC_07-25-2017.pdf Barlow_34_Fed_Com_712H_5.5in_20.00_VST_P110EC_DWC_C_IS_MS_07-25-2017.pdf See_previously_attached_Drill_Plan_07-25-2017.pdf

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_07-25-2017.pdf

Casing ID: 5 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See previously attached Drill Plan 20171002131934.pdf

Well Name: BARLOW 34 FED COM

Well Number: 712H

Casing Attachments

Casing ID: 6

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20171002131917.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
· · ·		1				1	1	1	1		· · · ·
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
· · · · · · · · · · · · · · · · · · ·		I		1		I <u></u>	1_,,,,	I <u></u>	L	I	· • • • • • • • • • • • • • • • • • • •
INTERMEDIATE	Lead		0	0	0	0	0	0	0	0	0
_	_I			1	1		I	1	<u>}</u>	1	
SURFACE	Lead		0 .	874	325	1.73	13.5	562	25	Class C	Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 Ib/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		874	874	200	1.34	14.8	268	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	1140 0	2250	1.38	14.8	3105	25	Class C	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead. (TOC @ surface)
											Page 5 of 8

Well Name: BARLOW 34 FED COM

Well Number: 712H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1140 0	1140 0	550	1.2	14.4	660	25	Class H	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped conventionally
PRODUCTION	Lead		1090 0	1700 1	850	1.26	14.1	1071	25	Class H	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C- 17 (TOC @ 10,900')

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.

	Circ	ulating Mediu	ım Ta	able							•
Top Depth	Bottom Depth	Mud Type	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
874	1140 0	SALT SATURATED	8.8	10							
1140 0	1231 •9	OIL-BASED MUD	10	14							
0	874	WATER-BASED MUD	8.6	8.8							2

Well Name: BARLOW 34 FED COM

Well Number: 712H

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: 8968

Anticipated Surface Pressure: 6257.82

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:

Barlow_34_Fed_Com_712H_H2S_Plan_Summary_07-25-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Barlow_34_Fed_Com_712H_Planning_Report_07-25-2017.pdf Barlow_34_Fed_Com_712H_Wall_Plot_07-25-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Barlow_34_Fed_Com_712H_Proposed_Wellbore_07-25-2017.pdf Barlow_34_Fed_Com_712H_Rig_Layout_07-25-2017.pdf Barlow_34_Fed_Com_712H_Wellhead_Cap_07-25-2017.pdf Barlow_34_Fed_com_712H_gas_capture_08-01-2017.pdf Barlow_34_FC_712H_deficiency_response_20171002132525.pdf Barlow 34 FC_712_2nd_deficiency_response_20171006100704.pdf

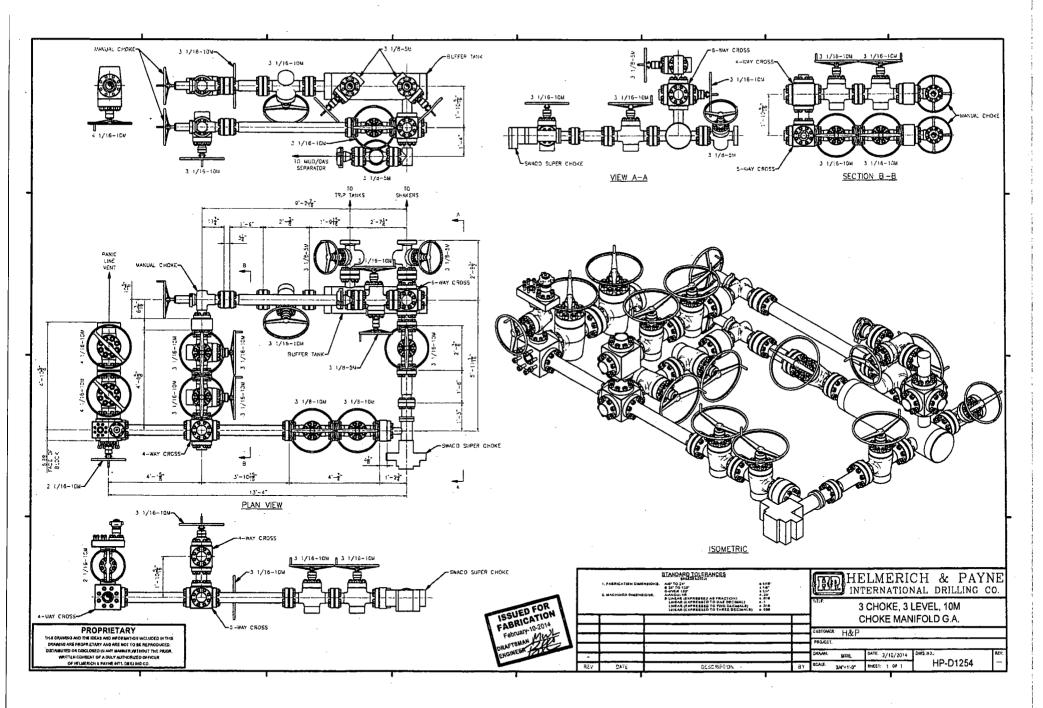
Other Variance attachment:

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Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8" ID = 4"

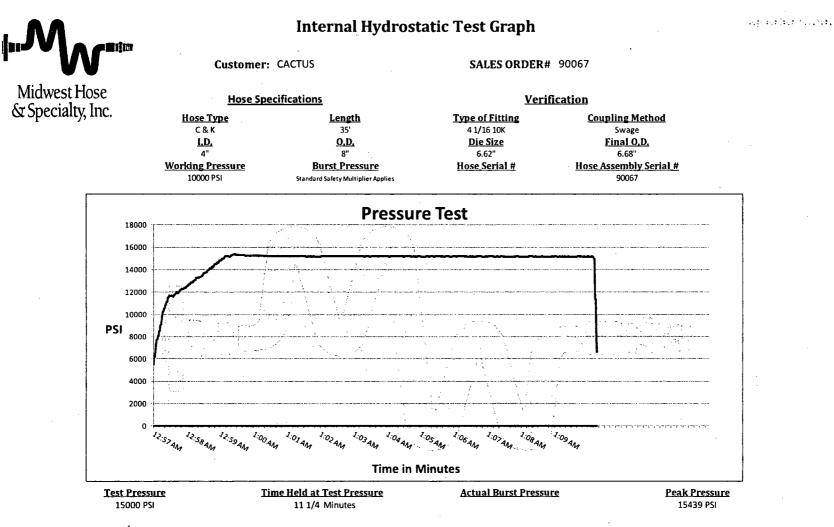
Ends: Flanges Size: 4-1/16"

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

MIDWEST

HOSE AND SPECIALTY INC.

INT	ERNAL	HYDROST	ATIC TEST	REPOR	π
Customer:	· · · · · · · · · · · ·			P.O. Numi	ber:
CACTUS				RIG #12	
				Asset # I	v10761
		HOSE SPECI	FICATIONS		
Туре: Сн	IOKE LIN	E		Length:	35'
I.D.	4"	INCHES	0.D.	8"	INCHES
WORKING PRE	SSURE	TEST PRESSUR	ц П	BURST PRES	BSURE
10,000	PSI	15,000	PSI		PSI
		COUP	LINGS		
Type of End 4 1	Fitting /16 10K F	LANGE			
Type of Cou	pling:		MANUFACTU	RED BY	*****
SV	EDGED		MIDWEST HOS	SE & SPECI	ALTY
		PROC	EDURE		
Ho	se assembl	, pressure tested w	ith water at ambier	nt temperature	•
		TEST PRESSURE	1	URST PRESS	
	1	MIN.			0 <i>PSI</i>
COMMENTS:					
	#90067				
		ered with stain! I fire resistant v			
		ated for 1500 de			
Date:	/2011	Tested By: BOBBY FINK	groos complete	Approved:	JACKSON

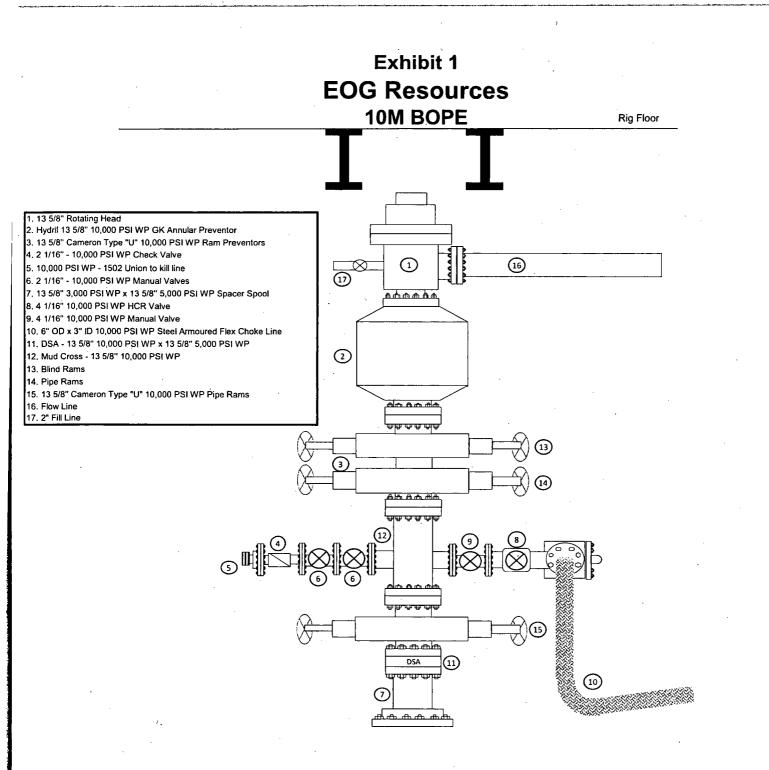


Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Approved By: Mendi Jackson

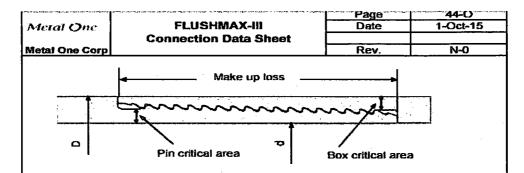
Mendi Jackson



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Issued on: 24 Jai	n. 2017 .		٦		
OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	VM 110 HC	6.750 in.	VAM® SLIJ-II
	PIPEPROPERM	ES	·····	CONNECTION PR	<u>Operaties</u>
Nominal OD Nominal ID Nominal Cross S Grade Type Min. Yield Stren Max. Yield Stren Min. Ultimate Te Min. Ultimate Te Tensile Yield Str Compression Re Internal Yield Pression Re	gth gth nsile Strength NNEGIMON (PERFOR ength isistance	7.625 6.875 8.541 High Collapse 110 140 125 200 200 200 200 200 200 200 200 200 2	in. Connection C sqin. Connection II Make-up Los Critical Cross Ksi Tension Effic Compression Internal Press	DD (nom) D (nom) s s Section iency b Efficiency sure Efficiency ssure Efficiency FIELD TOROUS D torque p torque	4.822 in. 5.912 sqin. 69.2 % of pipe 48.5 % of pipe 100 % of pipe 100 % of pipe
all casing applie high performa sealability. VAM® SLIJ-II stringent tests p history in the wo	apacity h Sealability a semi-flush integral cations. It combines ances in tension, o has been validated protocols, and has ar rrld's most prolific HP	a near flush design compression and according to the n excellent perform HT wells. need help on this proc <i>uk@</i> <i>dubai@</i> <i>nigeria</i>	on for h with d gas most hance -150	china(baku(singapor	50 100 150
Other Connection	Over 1 4 Data Sheets are ava	et an and the second second second as the second as	available worldwide 24/7 fo services.com	r Rig Site Assistance	
Vallourec G	roun			\bigvee	valloure

t



Pipe Body	Imperial		<u>S.I.</u>	
Grade	P110		P110	
Pipe OD (D)	7 5/8	in	193.68	mm
Weight	29.7	lb/ft	44.25	kg/m
Actual weight	29.0	lb/ft	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	in²	5,508	
Drift Dia.	6.750	in	171.45	៣៣

Connection

Box OD (W)	7.625	in	193.68	mm	
PIN ID	6.875	in	174.63	mm	
Pin critical area	4.420	in ²	2,852	mm ²	
Box critical area	4.424	in ²	2,854	mm ²	
Joint load efficiency	60	%	60	%	
Make up loss	3.040	in	77.22	mm	
Thread taper	1/16 (3/4 in per ft)				
Number of threads		5 thread	per in.		

Connection Performance Properties

Tensile Yield load	563.4	kips	2,506	kN
M.I.Y.P.	7,574	psi	52.2	MPa
Collapse strength	5,350	psi	36.9	MPa

Note M.I.Y.P. = Minimum Internal Yield Pressure of the connection

Torque Recommended

Min.	8,700	ft-lb	11,700	N-m
Opti.	9,700	ft-lb	13,100	N-m
Max.	10,700	ft-lb	14,500	N-m
Operational Max.	23,600	ft-lb	32.000	N-m

1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

849'
1,262'
4,797'
5,034'
5,034'
5,058'
6,169'
7,738'
9,265'
10,247'
10,467'
10,756'
11,287'
11,821'
12,273'
12,319'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,169'	Oil
Brushy Canyon	7,738'	Oil
^{1st} Bone Spring Sand	10,247'	Oil
2 nd Bone Spring Shale	10,467'	Oil
2 nd Bone Spring Sand	10,756'	Oil
3 rd Bone Spring Carb	11,287'	Oil
3 rd Bone Spring Sand	11,821'	Oil
Wolfcamp	12,273'	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 10.75" casing at 874' and circulating cement back to surface.

1.

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 874'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0 – 1,000'	7.625"	29.7#	HCP- 110	LTC	1.125	1.25	1.60
9.875"	1,000' – 3,000'	7.625"	29.7#	P-110EC	SLIJ II	1.125	1.25	1.60
8.75"	3,000' 11,400'	7.625"	29.7#	HCP- 110	FlushMax III	1.125	1.25	1.60
6.75"	0' – 10,900'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,900'-17,001'	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.

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 874'	325	13.5	1.73	9.13	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	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,400'	250	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead (TOC @ Surface)
	2000	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead
	550	14.4	1.20	4.81	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped Conventionally
5-1/2" 17,001'	850	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 @ 10,900')

Cementing Program:

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.

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 5,000/250 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 - 874'	Fresh - Gel	8.6-8.8	28-34	N/c
874' 11,400'	Brine	8.8-10.0	28-34	N/c
11,400' – 17,001'	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.

3.

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 7366 psig (based on 11.5 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. 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 10-3/4" 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.

See previously attached Drill Plan

2. Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

[Please See Addendum for further clarification of deficiencies]

NOTE: The BLM will return your APD package to you, unless you correct all deficiencies identified above (item 1) within 45 calendar days.

• The BLM will not refund an APD processing fee or apply it to another APD for any returned APD.

Extension Requests:

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension prior to the 45th calendar day from this notice, 11/11/2017.
- The BLM will consider the extension request if you can demonstrate your diligence (providing reasons and examples of why the delay is occurring beyond your control) in attempting to correct the deficiencies and can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an extension, the BLM will return the APD as incomplete after the 45 calendar days have elapsed.
 - The BLM will determine whether to grant an extension beyond the required 45 calendar days and will document this request in the well file. If you fail to submit deficiencies by the date defined in the extension request, the BLM will return the APD.

APDs remaining Incomplete:

- If the APD is still not complete, the BLM will notify you and allow 10 additional business days to submit a written request to the BLM for an extension. The request must describe how you will address all outstanding deficiencies and the timeframe you request to complete the deficiencies.
 - The BLM will consider the extension request if you can prove your diligence (providing reasons and examples of why the delay is occurring) in attempting to correct the deficiencies and you can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an additional extension, the BLM will return the APD as incomplete.

If you have any questions, please contact Priscilla Perez at (575) 234-5934.

Sincerely,

Cody Layton Assistant Field Manager

cc: Official File

ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

Surface Comments

- Plans for Surface Reclamation Deficiency: Please provide a reclamation diagram.

Attached Pg 10 SUPO Plan

Engineering Comments

 Casing design information is inadequate and/or incomplete Submit correct casing program because casing program in APD do not match drilling plan casing program.

Submit correct hole sizes because hole sizes in APD do not match drilling plan casing program.

- Cementing design information is inadequate and/or incomplete Submit the correct depth for the each casing depth of the cement in the APD.
- Bottom hole pressures and hazards inadequate and/or incomplete ABHP in section 7 is not sufficient for the Max MW in section 5. Submit BHP and SHP.

Corrected

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.

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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
0-874'	Fresh - Gel	8.6-8.8	28-34	N/c
874' - 11,400'	Brine	8.8-10.0	28-34	N/c
11,400' - 17,001'	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.

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- (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 7366 psig (based on 11.5 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:

4.

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. 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.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE ST.



CARLSBAD, NM 88220



10/06/2017

Attn: STAN WAGNER EOG RESOURCES INCORPORATED 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002

Re: Receipt and Acceptability of Application for Permit to Drill (APD)

FEDERAL - NMNM02965A

Well Name / Number: Legal Description: County, State: Date APD Received:

BARLOW 34 FED COM / 712H **T26S, R33E, SEC 34, SWNE** LEA, NM 08/01/2017

Dear Operator:

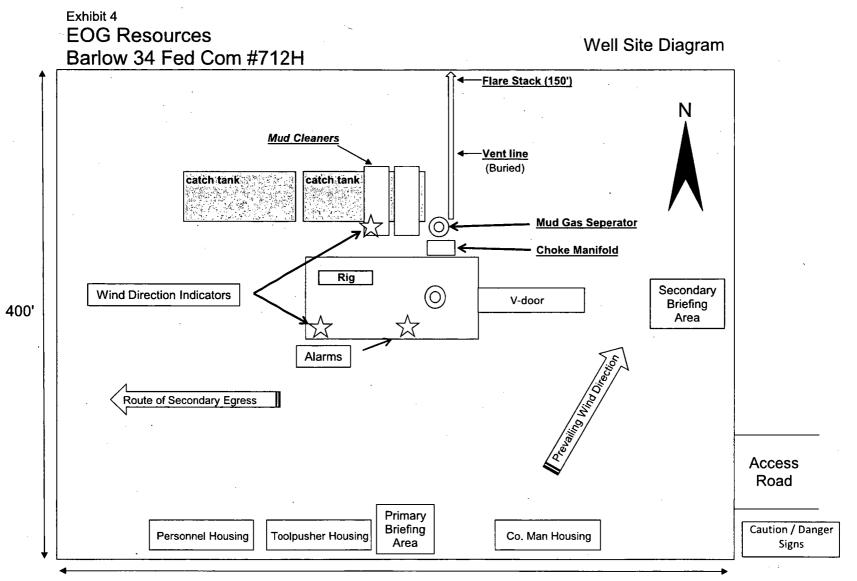
This is the subsequent deficiency letter pursuant to Onshore Oil and Gas Order, Number 1, Section III.E.2.a.

The BLM received your initial Application for Permit to Drill (APD), for the referenced well, on 10/02/2017. The BLM reviewed the revised APD package pursuant to part III.B.2 of Onshore Oil and Gas Order No.1 and it is:

1. Incomplete/Deficient (The BLM cannot process the APD until you submit the identified items within 45 calendar days of the date of the original notice or the BLM will return your APD.)

	Well Plat					
\checkmark	Drilling Plan					
	Surface Use Plan of Operations (SUPO)					
	Certification of Private Surface Owner Access Agreement					
	Bonding					
	Onsite (The BLM has scheduled the onsite to be on) This requirement is exempt of the 45-day timeframe to submit deficiencies. This requirement will be satisfied on the date of the onsite.					
	Other					

[Please See Addendum for further clarification of deficiencies]





·····					
	· ·		· · · · ·	· .	
21.75					<u>0M</u>
62.06*					FIG 1502
9.75″			10-3/4" 7-5/8" C 5-1/2" CA		<u>5 1502</u>
*CONCEPT QUDTE *DIMENSIONS ARE	DRAWING Approximate	DWN BAY			
10-3/4" X 7 FBD-100 WEL	SLIONULIS -578" X 5-172" LUHEAD SYSTEM DU - 102101	CHK APF BY	DATE Worl	dwide Expertise - Global Strength	drawing no WH-16618

2. Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

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[Please See Addendum for further clarification of deficiencies]

NOTE: The BLM will return your revised APD package to you, unless you correct all deficiencies identified above (item 1) within 45 calendar days of the original deficiency notice.

• The BLM will not refund an APD processing fee or apply it to another APD for any returned APD.

Extension Requests:

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension before to the 45th calendar day from this original deficiency notice, 11/20/2017.
- The BLM will consider the extension request if you can demonstrate your diligence (providing reasons and examples of why the delay is occurring beyond your control) in attempting to correct the deficiencies and can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an extension, the BLM will return the APD as incomplete after the original 45 calendar days have elapsed.
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APDs remaining Incomplete:

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If you have any questions, please contact Priscilla Perez at (575) 234-5934.

Sincerely,

Cody Layton Assistant Field Manager

cc: Official File

ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

Surface Comments

- Plans for Surface Reclamation Deficiency: Please provide a reclamation diagram.

Attached.

Engineering Comments

- Bottom hole pressures and hazards inadequate and/or incomplete ABHP in section 7 is not sufficient for the Max MW in section 5. Corrected Submit BHP and SHP. 10/4/2017 Second Request

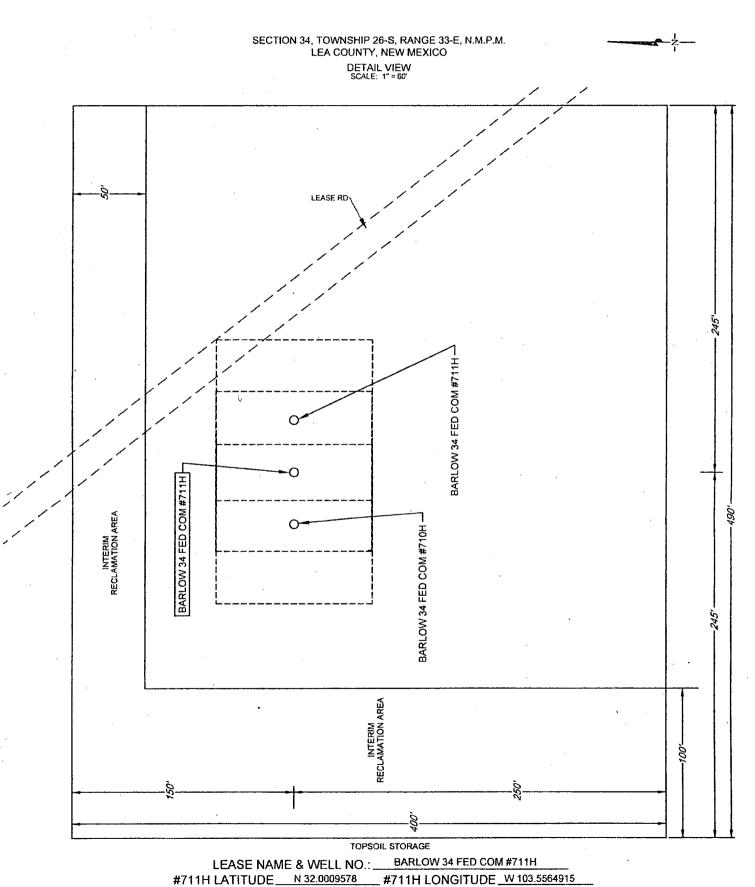


EXHIBIT 2C RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SASURVEYEDIS_MIDIANDIBARION_34_FED_COUNTINAL_PRODUCTSLC_BARLON_34_FED_COM_711H DWG_352017 53931 PM_crass

EOG RESOURCES, INC. BARLOW 34 FED COM NO. 712H

5. 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.
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Open-hole logs are not planned for this well.

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The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8968 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:

1.

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.

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VAFMSS

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

APD ID: 10400013359

Operator Name: EOG RESOURCES INCORPORATED

Well Name: BARLOW 34 FED COM

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BARLOW34FEDCOM712H_vicinity_08-01-2017.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:

Barlow_34_Fed_Com_infrastructure_08-01-2017.pdf BARLOW34FEDCOM712H_padsite_08-01-2017.pdf BARLOW34FEDCOM712H_wellsite_08-01-2017.pdf

New road type: RESOURCE

Length: 742

Width (ft.): 24

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? NO

Feet

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

Page 1 of 10

SUPO Data Report

Highlighted data reflects the most

recent changes

Show Final Text

Submission Date: 08/01/2017

Row(s) Exist? NO

Well Number: 712H

Well Work Type: Drill

Well Name: BARLOW 34 FED COM

Well Number: 712H

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 well location 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:

BARLOW34FEDCOM712H_radius_08-01-2017.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: Barlow 34 Fed Com central tank battery located in the NW/4 of section 34-26S-33E Production Facilities map:

Well Name: BARLOW 34 FED COM

Well Number: 712H

Barlow_34_Fed_Com_infrastructure_08-01-2017.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: FEDERAL

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: FEDERAL

New Water Well Info

Water source volume (barrels): 0

Source volume (gal): 0

Water source and transportation map:

Barlow_34_Fed_Com_Water_Source_and_Caliche_Map_08-01-2017.pdf

Water source comments:

New water well? NO

Well latitude:	atitude: Well Longitude:	
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aqu	uifer:
Aquifer comments:		•
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside dia	meter (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): 0

Well Name: BARLOW 34 FED COM

Well Number: 712H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: 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 permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location attachment:

Barlow_34_Fed_Com_Water_Source_and_Caliche_Map_08-01-2017.pdf

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.)

Well Name: BARLOW 34 FED COM

Well Number: 712H

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

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 depth (ft.)

Cuttings area width (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:

Barlow 34 Fed Com 712H Rig Layout 07-25-2017.pdf BARLOW34FEDCOM710H_712H_CUT_FILL_08-01-2017.PDF BARLOW34FEDCOM712H_padsite_08-01-2017.pdf BARLOW34FEDCOM712H_wellsite_08-01-2017.pdf Comments: Exhibit 2A-Wellsite & Exhibit 2B-Padsite Rig Layout Exhibit 4

			ORATED

Well Name: BARLOW 34 FED COM

Well Number: 712H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: BARLOW 34 FED COM Multiple Well Pad Number: 710H/711H/712H

Recontouring attachment:

BARLOW34FEDCOM712H_reclamation_20171006100301.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.

Wellpad long term disturbance (acres): 3.133609Wellpad short term disturbance (acres): 4.499541Access road long term disturbance (acres): 0.408815Access road short term disturbance (acres): 0.408815Pipeline long term disturbance (acres): 1.2823691Pipeline short term disturbance (acres): 2.137282Other long term disturbance (acres): 0Other short term disturbance (acres): 0Total long term disturbance: 4.8247933Total short term disturbance: 7.045638

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:**

Well Name: BARLOW 34 FED COM

Well Number: 712H

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:**

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:

Seed source:

Source address:

Proposed seeding season:

Total pounds/Acre:

Seed Summary					
Seed Type	Pounds/Acre				

Seed reclamation attachment:

Well Name: BARLOW 34 FED COM

Well Number: 712H

Operator Contact/Responsible Official Contact Info

First Name: Stan

Phone: (432)686-3689

Last Name: Wagner

Email: stan_wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

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:

Well Name: BARLOW 34 FED COM

Well Number: 712H

USFS Forest/Grassland:	

USFS Ranger District:

Email:

Fee Owner: Oliver Kiehne

Phone: (575)399-9281

Fee Owner Address: P.O. Box 135 Orla, TX 79770

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: surface use agreement

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Use APD as ROW?

Right of Way needed? NO ROW Type(s):

ROW Applications

SUPO Additional Information: An onsite meeting was conducted 2/16/17. Poly lines are planned to transport water for operations. Will truck if necessary. See attached SUPO Plan. **Use a previously conducted onsite?** NO

Previous Onsite information:

Other SUPO Attachment

BARLOW34FEDCOM710H_712H_CUT_FILL_08-01-2017.PDF SUPO_Barlow_34_Fed_Com_712H_08-01-2017.pdf BARLOW34FEDCOM712H_location_08-01-2017.pdf Barlow_34_FC_712_2nd_deficiency_response_20171006100732.pdf



United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE ST. CARLSBAD, NM 88220

In Reply To: 3160 (Office Code) [NMNM02965A]

10/06/2017

Attn: STAN WAGNER EOG RESOURCES INCORPORATED 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002

Re: Receipt and Acceptability of Application for Permit to Drill (APD)

FEDERAL - NMNM02965A

Well Name / Number: Legal Description: County, State: Date APD Received: BARLOW 34 FED COM / 712H T26S, R33E, SEC 34, SWNE LEA, NM 08/01/2017

Dear Operator:

This is the subsequent deficiency letter pursuant to Onshore Oil and Gas Order, Number 1, Section III.E.2.a.

The BLM received your initial Application for Permit to Drill (APD), for the referenced well, on 10/02/2017. The BLM reviewed the revised APD package pursuant to part III.B.2 of Onshore Oil and Gas Order No.1 and it is:

1. Incomplete/Deficient (*The BLM cannot process the APD until you submit the identified items within 45 calendar days of the date of the original notice or the BLM will return your APD.*)

	Well I	Plat	
\checkmark	Drillir	ng Plan	
<	Surfac	e Use Plan of Operations (SUPO)	
		Certification of Private Surface Owner Access Agree	eement
	Bondi	ng	
	Onsite	: (The BLM has scheduled the onsite to be on)
		This requirement is exempt of the 45-day timeframe deficiencies. This requirement will be satisfied on t	
	Other		

[Please See Addendum for further clarification of deficiencies]

2. Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

[Please See Addendum for further clarification of deficiencies]

NOTE: The BLM will return your revised APD package to you, unless you correct all deficiencies identified above (item 1) within 45 calendar days of the original deficiency notice.

• The BLM will not refund an APD processing fee or apply it to another APD for any returned APD.

Extension Requests:

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension before to the 45th calendar day from this original deficiency notice, 11/20/2017.
- The BLM will consider the extension request if you can demonstrate your diligence (providing reasons and examples of why the delay is occurring beyond your control) in attempting to correct the deficiencies and can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an extension, the BLM will return the APD as incomplete after the original 45 calendar days have elapsed.
 - The BLM will determine whether to grant an extension beyond the required 45 calendar days and will document this request in the well file. If you fail to submit deficiencies by the date defined in the extension request, the BLM will return the APD.

APDs remaining Incomplete:

• If the APD is still not complete, the BLM will notify you and allow 10 additional business days following the end of the original 45 calendar day period to submit a written request to the BLM for an extension. The request must describe how you will address all outstanding deficiencies and the timeframe you request to complete the deficiencies.

• The BLM will consider the extension request if you can prove your diligence (providing reasons and examples of why the delay is occurring) in attempting to correct the deficiencies and you can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an additional extension, the BLM will return the APD as incomplete.

If you have any questions, please contact Priscilla Perez at (575) 234-5934.

Sincerely,

Cody Layton Assistant Field Manager ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

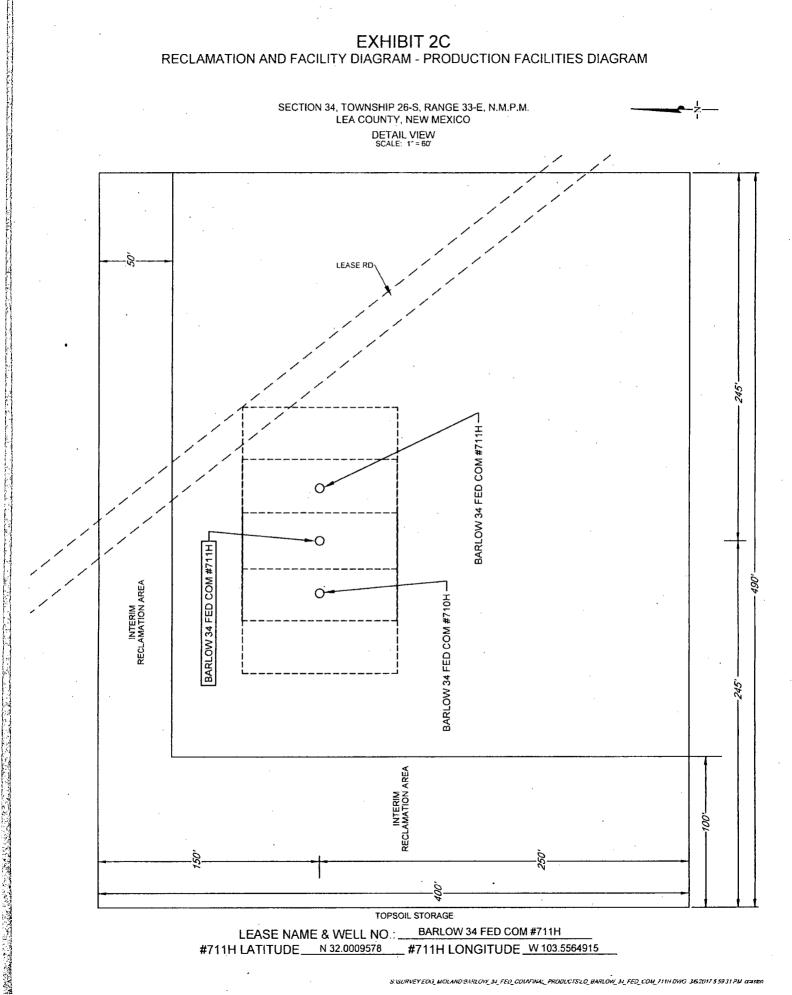
Surface Comments

- Plans for Surface Reclamation Deficiency: Please provide a reclamation diagram.

Attached

Engineering Comments

- Bottom hole pressures and hazards inadequate and/or incomplete ABHP in section 7 is not sufficient for the Max MW in section 5. Corrected Submit BHP and SHP. 10/4/2017 Second Request



SISURVEY EOG MIDLANDISARLOW 34 FED_COMPUTAL_PRODUCTSLO_BARLOW_34_FED_COM_111H DWG_36201755931 PM_ccaston

EOG RESOURCES, INC. BARLOW 34 FED COM NO. 712H

5. 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 8968 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:

1.

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. 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.

FAFMSS

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

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:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well name: Injection well API number:

VAFMSS

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

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:



In Reply To: 3160 (Office Code) [NMNM02965A]

United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE ST. CARLSBAD, NM 88220 BLM_NM_CF0_APD@BLM.GOV

09/27/2017

Attn: STAN WAGNER EOG RESOURCES INCORPORATED IIII BAGBY SKY LOBBY2 HOUSTON, TX 77002

Re: Receipt and Acceptability of Application for Permit to Drill (APD)

FEDERAL - NMNM02965A

Well Name / Number:BARLOW 34 FED COM / 712HLegal Description:T26S, R33E, SEC 34, SWNE

County, State: Date APD Received: T26S, R33E, SEC 34, SWNE LEA, NM 08/01/2017

Dear Operator:

The BLM received your Application for Permit to Drill (APD), for the referenced well, on 08/01/2017. The BLM reviewed the APD package pursuant to part III.D of Onshore Oil and Gas Order No.1 and it is:

1. Incomplete/Deficient (*The BLM cannot process the APD until you submit the identified items within 45 calendar days of the date of this notice or the BLM will return your APD.*)

	Well Plat
\checkmark	Drilling Plan
\checkmark	Surface Use Plan of Operations (SUPO)
	Certification of Private Surface Owner Access Agreement
	Bonding
	Onsite (The BLM has scheduled the onsite to be on)
	This requirement is exempt of the 45-day timeframe to submit deficiencies. This requirement will be satisfied on the date of the onsite.
	Other

[Please See Addendum for further clarification of deficiencies]

FAFMSS Drilling Plan Data Report 01/17/2018 U.S. Department of the Interior BUREAU OF LAND MANAGEMENT APD ID: 10400013359 Submission Date: 08/01/2017 Highlighted data reflects the most **Operator Name: EOG RESOURCES INCORPORATED** recent changes Well Number: 712H Well Name: BARLOW 34 FED COM Show Final Text 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	Formatior
1	PERMIAN	3318	Ö	Ő	ANHYDRITE	NONE	No
2	RUSTLER	2469	849	849	ANHYDRITE	NONE	No
3	TOP SALT	2056	1262	1262	SALT	NONE	No
4	BASE OF SALT	-1479	4797	4797	SALT	NONE	No
5	LAMAR	-1716	5034	5034	LIMESTONE	NONE	No
6	BELL CANYON	-1740	5058	5058	SANDSTONE	NATURAL GAS,OIL	No
7	CHERRY CANYON	-2851	6169	6169	SANDSTONE	NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4420	7738	7738	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5947	9265	9265	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-6929	10247	10247	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 2ND	-7438	10756	10756	SANDSTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-8503	11821	11821	SANDSTONE	NATURAL GAS,OIL	No
13	WOLFCAMP	-8955	12273	12273	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention