Form 3160-3 (June 2015)

Carlsbad Field Office MB No. 1004-0137 Expires: January 31, 201 5 Lease Serial No.

MIN F FULF F

UNITED STATES	U
DEPARTMENT OF THE INTERIO	OR
BUREAU OF LAND MANAGEMI	ENT

DEPARTMENT OF	THE INTERIOR
BUREAU OF LAND	MANAGEMENT

NMNM110836

BUREAU OF EARD WA								
APPLICATION FOR PERMIT TO		6. If Indian, Allotee	or Tribe !	Name				
la. Type of work:	REENTER			7. If Unit or CA Agr	reement. N	Name and No.		
1b. Type of Well:	Other			8. Lease Name and Well No.				
1c. Type of Completion: Hydraulic Fracturing	Single Zone	✓ Multiple Zone		FEARLESS 23 FE	D-COM	1		
_				508H	322	928)		
2. Name of Operator EOG RESOURCES INCORPORATED (7377)				9. API Well No.	5-4	620		
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002	3b. Phone t	No. (include area cod	le)	10. Field and Pool, o	•	itory 3235G I WR R		
Location of Well (Report location clearly and in accordance)				11. Sec., T. R. M. or				
At surface NWNW / 300 FNL / 660 FWL / LAT 32.12		•		SEC 23 / T25S / R				
At proposed prod. zone SWSW / 230 FSL / 330 FWL /			531674					
14. Distance in miles and direction from nearest town or post of 30 miles	office*			12. County or Parish LEA	1	13 State NM		
15. Distance from proposed* 230 feet	16. No of a	cres in lease	17. Spaci	ng Unit dedicated to th	his well			
location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	1160		320					
18. Distance from proposed location*	19. Propose	ed Depth	20. BLM	/BIA Bond No. in file				
to nearest well, drilling, completed, 700 feet applied for, on this lease, it.	10683 feet	/ 20759 feet	FED: NA	M2308				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approx	imate date work will	start*	23. Estimated durati	ion			
3431 feet	12/01/2018	3		25 days				
	24. Atta	chments						
The following, completed in accordance with the requirements (as applicable)	s of Onshore Oi	l and Gas Order No.	I, and the I	lydraulic Fracturing r	ule per 43	CFR 3162.3-3		
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the Item 20 above).	ne operation	ns unless covered by ar	n existing	bond on file (see		
3. A Surface Use Plan (if the location is on National Forest Sy								
SUPO must be filed with the appropriate Forest Service Off	ice).	6. Such other site sp BLM.	pecific info	rmation and/or plans as	may be re	equested by the		
25. Signature	I	(Printed Typed)			Date			
(Electronic Submission)	Stan	Wagner / Ph: (432)	686-3689		03/02/2	018		
Title Regulatory Specialsit								
Approved by (Signature)	Name	c (Printed/Typed)			Date			
(Electronic Submission)	i i	/ Layton / Ph: (575)234-5959 09/10				018		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CARLSBAD**

Conditions of approval, if any, are attached

Assistant Field Manager Lands & Minerals

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

proval Date: 09/10/2018

GCP Rec 09/20/18

19/20/10

(Continued on page 2)

Title

*(Instructions on page 2)

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 I: 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 wen, 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 directionany 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.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 300 FNL / 660 FWL / TWSP: 25S / RANGE: 32E / SECTION: 23 / LAT: 32.1224369 / LONG: -103.6522065 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2740 FNL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 23 / LAT: 32.1157 / LONG: -103.6532 (TVD: 10683 feet, MD: 12886 feet)

PPP: NWNW / 330 FNL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 23 / LAT: 32.1223537 / LONG: -103.6532719 (TVD: 10639 feet, MD: 10759 feet)

BHL: SWSW / 230 FSL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 26 / LAT: 32.0948815 / LONG: -103.6531674 (TVD: 10683 feet, MD: 20759 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov

Review and Appeal Rights

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

(Form 3160-3, page 4)



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: 03/02/2018

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



APD ID: 10400027865 Submission Date: 03/02/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: FEARLESS 23 FED COM

Well Type: OIL WELL

Well Number: 508H

Well Work Type: Drill



Show Final Text

Section 1 - General

APD ID: 10400027865 Tie to previous NOS?

Submission Date: 03/02/2018

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: NMNM110836

Lease Acres: 1160

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: FEARLESS 23 FED COM

Well Number: 508H

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: FEARLESS 23 FED COM Well Number: 508H

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: Number: 507H/508H

Well Class: HORIZONTAL

FEARLESS 23 FED COM Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type: Well sub-Type: INFILL

Describe sub-type:

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Fearless_23_Fed_Com_508H_signed_C_102_20180302075133.pdf

Well work start Date: 12/01/2018 Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD27 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	dvī
SHL Leg #1	300	FNL	660	FWL	258	32E	23	Aliquot NWN W	32.12243 69	- 103.6522 065	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 110836	343 1	0	0
KOP Leg #1	55	FNL	347	FWL	25S	32E	23	Aliquot NWN W	32.12311 63	- 103.6532 143	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 110836	343 1	0	0
PPP Leg #1	330	FNL	330	FWL	258	32E	23	Aliquot NWN W	32.12235 37	- 103.6532 719	LEA	NEW MEXI CO	112	F	NMNM 110836	- 720 8	107 59	106 39

Well Name: FEARLESS 23 FED COM Well Number: 508H

	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	TVD
PPP Leg #1	274 0	FNL	330	FWL	258	32E	23	Aliquot NWS W	32.1157	- 103.6532	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 015913	- 725 2	128 86	106 83
EXIT Leg #1	330	FSL	330	FWL	25 S	32E	26	Aliquot SWS W	32.09515 63	- 103.6531 659	LEA	NEW MEXI CO	' ' - ' '	F	NMNM 108970	- 725 2	206 60	106 83
BHL Leg #1	230	FSL	330	FWL	25S	32E	26	Aliquot SWS W	32.09488 15	- 103.6531 674	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 108970	- 725 2	207 59	106 83

Well Name: FEARLESS 23 FED COM Well Number: 508H

vil sa hydraubadly aparasa and the tem type will be consport with billind dans on bourne and dill pipe dame on tap. All. BOFE/willibe respecting accordance with Onshore/Oil and Oos 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. 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:

Fearless 23 FC 508H 5 M Choke Manifold 20180301101027.pdf

Fearless 23 FC 508H Co Flex Hose Certification 20180301101027.PDF

Fearless_23_FC_508H_Co_Flex_Hose_Test_Chart_20180301101028.pdf

BOP Diagram Attachment:

Fearless_23_FC_508H_5_M_BOP_Diagram_20180301101037.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	750	0	750	3431	2681	750	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	3431	-569	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	4600	4000	4600	-569	-1169	600	HCK -55	40	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
1	PRODUCTI ON	8.75	5.5	NEW	API	N	0	20760	0	10683	3431	-7252	20760	HCP -110	1	OTHER - BTC	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): Fearless 23 FC 508H BLM Plan 20180301101201.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_20180301101220.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_20180301101230.pdf

Well Number: 508H

Operator Name: EOG RESOURCES INCORPORATED

Well Name: FEARLESS 23 FED COM

Well Name: FEARLESS 23 FED COM Well Number: 508H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20180301101239.pdf

Section 4 - Cement

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

SURFACE	Lead	0	750	1075	1.74	13.5	1870	25	Class C	Lead: Class C + 4% Gel + 2% CaCl2 + 0.25 pps Celloflake (TOC @ Surface)
SURFACE	Tail	750	750	385	1.34	14.8	515	25	Class C	Tail: Class C + 2.0% CaCl2
INTERMEDIATE	Lead	0	4600	1150	1.9	12.7	2185	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	4600	4600	200	1.33	14.8	266	25	Class C	Tail: Class C + 0.13% C-20
PRODUCTION	Lead	4100	2076 0	220	3.21	11	706	25	Class H	Lead: 50:50 Poz:H + 5.0% Salt + 3.0% CPT- 45 + 0.4% CPT-503P + 1.0% CPT-19 + 5.0% Gypsum + 0.15% CPT- 20 + 0.15% Citric Acid (TOC @ 4,100')
PRODUCTION	Tail	2076 0	2076 0	850	1.2	14.4	1020	25	Class H	Tail: 50:50 Poz:H + 0.25% CPT-503P +

Well Name: FEARLESS 23 FED COM Well Number: 508H

well number: 506H

String Type	O	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
-------------	---	---------------------	--------	-----------	--------------	-------	---------	-------	---------	-------------	-----------

0.8% CPT-16A + 0.2% CPT-35 + 0.4% CPT-39 + 0.25% CPT-20

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)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
750	4600	WATER-BASED MUD	8.6	8.8							
4600	1068 3	OIL-BASED MUD	8.8	9							
0	750	WATER-BASED MUD	8.6	8.8							

Well Name: FEARLESS 23 FED COM Well Number: 508H

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: 4999

Anticipated Bottom Hole Temperature(F): 170

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

midpled Sungelkersug 2846.74

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Fearless 23 FC 508H H2S Plan Summary 20180301101419.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fearless_23_Fed_Com_508H_Planning_Report_20180301101441.pdf

Fearless_23_Fed_Com_508H_Wall_Plot_20180301101442.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Fearless_23_FC_508H_Proposed_Wellbore_20180301101501.pdf

Fearless_23_FC_508H_Rig_Layout_20180301101501.pdf

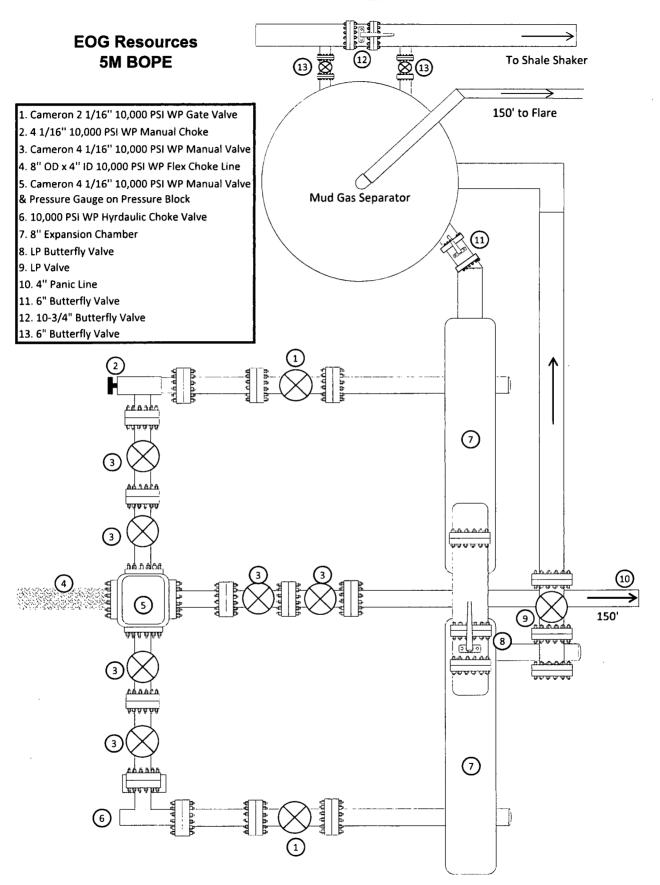
Fearless 23_FC_508H_Wellhead_Cap_20180301101502.pdf

Fearless_23_Fed_Com_GPC_20180302075152.pdf

Fearless 23 FC 508H response 7 23 18 20180723102841.pdf

Other Variance attachment:

Exhibit 1a



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.

11	NTERNAL	HYDROST	ATIC TEST	repor	T					
Custome	r:		*****	P.O. Numb	er:					
CACTUS			·	RIG #123						
		HOSE SPECII	FICATIONS	Asset # N	110761					
Туре:	CHOKE LIN	E		Length:	35'					
I.D.	4"	INCHES	O.D.	8"	INCHES					
WORKING	RESSURE	TEST PRESSUR	E	BURST PRES	SURE					
10,000	PSI	15,000	PSI		PSI_					
		COUP	LINGS							
Type of E	nd Fitting 4 1/16 10K F									
Type of C	Coupling: SWEDGED		MANUFACTU MIDWEST HO		LTY					
		PROC	EDURE							
	Hace aggemble	r pressure tested w	tt. water at ambie	nt tamnarahura						
		TEST PRESSURE	1	SURST PRESSU	RE:					
! 	1	MIN.			0 PSI					
COMMENT	SN#90067 Hose is coveraged with	M10761 ered with stainl fire resistant v	ermiculite coal	ed fiberglass	8					
Date:	6/6/2011	Tested By: BOBBY FINK		Approved:	ACKSON					



Internal Hydrostatic Test Graph

Customer: CACTUS

SALES ORDER# 90067

Hose Specifications

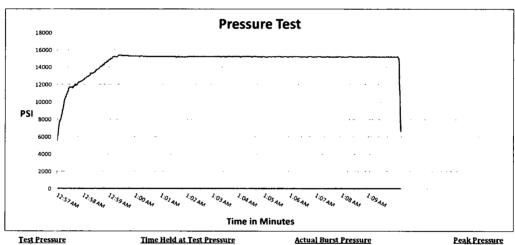
Hose Type C & K I.D. 4" Working Pressure 10000 PSI

Length 35' O.D. **Burst Pressure**

Verification

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

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



Test Pressure 15000 PSI

Time Held at Test Pressure 11 1/4 Minutes

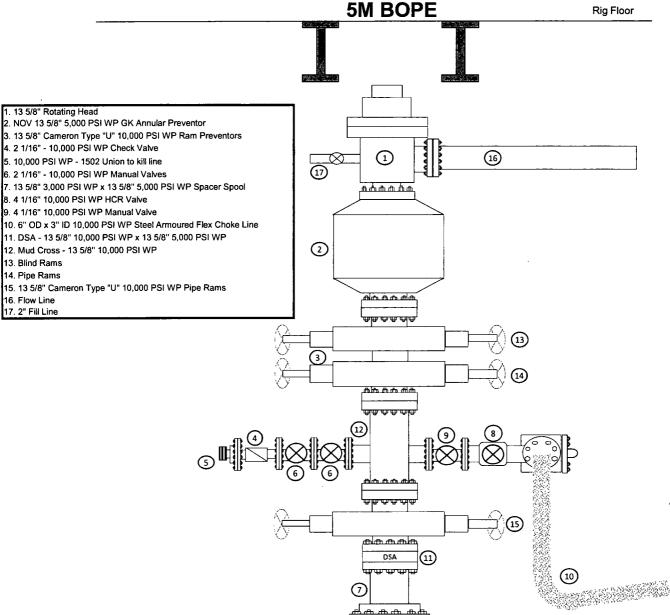
Peak Pressure 15439 PSI

Comments: Hose assembly pressure tested with water at ambient temperature

Approved By: Mendi Jackson

Mendi Jackson

Exhibit 1 EOG Resources



See previously attached Drill Plan

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	723'
Top of Salt	1,076'
Base of Salt / Top Anhydrite	4,535'
Base Anhydrite	4,761'
Lamar	4,761'
Bell Canyon	4,786'
Cherry Canyon	5,766'
Brushy Canyon	7,406'
Bone Spring Lime	8,906'
1 st Bone Spring Sand	9,871'
2 nd Bone Spring Sand	10,426'
TD	10,683'

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

0- 400'	Fresh Water
5,766'	Oil
7,406'	Oil
8,906'	Oil
9,871'	Oil
10,426'	Oil
	7,406' 8,906' 9,871'

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 750' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole		Csg				DF _{min}	DFmin	$\mathbf{DF_{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0 – 750'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 4,600'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-20,760'	5.5"	20#	HCP-110	BTC	1.125	1.25	1.60

Variance is requested to wave any centralizer requirements for the 5-1/2" 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.

Cementing Program:

Depth	No. Sacks	Wt.	Yld Ft³/ft	Mix Water Gal/sk	Slurry Description
13-3/8"	1075	13.5	1.74	9.17	Lead: Class C + 4% Gel + 2% CaCl2 + 0.25 pps Celloflake
750'					(TOC @ Surface)
	385	14.8	1.34	6.35	Tail: Class C + 2.0% CaCl2
9-5/8"	1150	12.7	1.90	9.96	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 +
4,600'					0.75% C-41P (TOC @ Surface)
	200	14.8	1.33	6.32	Tail: Class C + 0.13% C-20
5-1/2"	220	11.0	3.21	19.24	Lead: 50:50 Poz:H + 5.0% Salt + 3.0% CPT-45 + 0.4% CPT-
20,760					503P + 1.0% CPT-19 + 5.0% Gypsum + 0.15% CPT-20 +
					0.15% Citric Acid (TOC @ 4,100')
	850	14.4	1.20	4.81	Tail: 50:50 Poz:H + 0.25% CPT-503P + 0.8% CPT-16A +
					0.2% CPT-35 + 0.4% CPT-39 + 0.25% CPT-20

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 (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 & Gas order No. 2.

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.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 750'	Fresh - Gel	8.6-8.8	28-34	N/c
750' – 4,600'	Fresh-Gel	8.6-8.8	28-34	N/c
4,600' - 20,760'	Oil Base	8.8-9.0	58-68	N/c - 6
Lateral				

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 170 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4999 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

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 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 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 5000 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

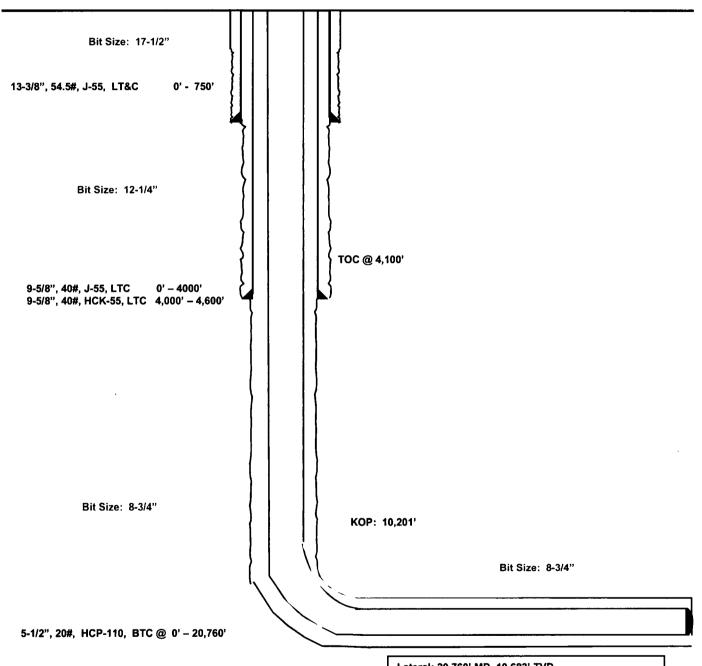
Fearless 23 Fed Com #508H

300' FNL 660' FWL Section 23 T-25-S, R-32-E

Lea County, New Mexico Proposed Wellbore

API: 30-025-****

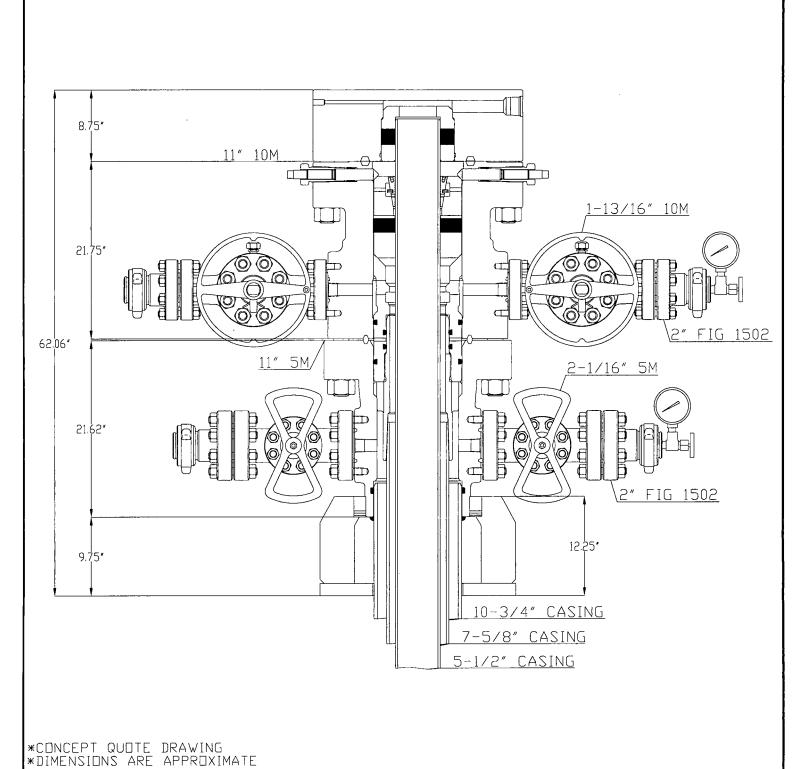
KB: 3,456' GL: 3,431'



Lateral: 20,760' MD, 10,683' TVD
Upper Most Perf:
330' FNL & 330' FWL Sec. 23
Lower Most Perf:
330' FSL & 330' FWL Sec. 26
BH Location: 230' FSL & 330' FWL
Section 26

Section 26 T-25-S, R-32-E

Exhibit 4 **EOG Resources** Well Site Diagram Fearless 23 Fed Com #508H Flare Stack (150') Mud Cleaners -Vent line (Buried) catch tank catch tank **Mud Gas Seperator Choke Manifold** Rig 0 Secondary Wind Direction Indicators V-door Briefing Area 400' Alarms Route of Secondary Egress Access Road Caution / Danger Primary Signs Briefing Personnel Housing Toolpusher Housing Co. Man Housing Area 455'



2/22/17

DATE

Worldwide Expertise - Global Strength

DRAWING NO

WH-16618

DWN

CHK

APP

10-3/4" X 7-5/8" X 5-1/2"

FBD-100 WELLHEAD SYSTEM QUOTE: HOU - 102101

BAY

ΒY

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

Date: 03/01/2018

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

GAS	CA	DTI	IDE.	01	AN

1.7atc. 0.57017201	0	
⊠ Original	•	EOG Resources, Inc. 7377
☐ Amended - Re	ason for Amendment:	

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

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

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Fearless 23 Fed Com 505H	30-025-****	C-23-25S-32E	656 FNL & 2042 FWL	±3500	None Planned	APD Submission
Fearless 23 Fed Com 50611	30-025-****	C-23-25S-32E	669 FNL & 2009 FWI	±3500	None Planned	APD Submission
Fearless 23 Fed Com 50711	30-025-****	D-23-25S-32E	300 FNL & 695 FWL	±3500	None Planned	APD Submission
Fearless 23 Fed Com 508H	30-025-****	D-23-25S-32E	300 FNL & 660 FWL	±3500	None Planned	APD Submission

Gathering System and Pipeline Notification

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

Flowback Strategy

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

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease

United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

620 E. GREENE ST. CARLSBAD, NM 88220 BLM_NM_CFO_APD@BLM.GOV

07/20/2018



In Reply To:
3160 (Office Code)
[NMNM110836]

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 - NMNM110836

Well Name / Number:

FEARLESS 23 FED COM / 508H

Legal Description:

T25S, R32E, SEC 23. NWNW

County, State:

LEA. NM

Date APD Received:

03/02/2018

Dear Operator:

The BLM received your Application for Permit to Drill (APD), for the referenced well, on 03/02/2018. The BLM reviewed the APD package pursuant to part HLD 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 4	5 calendar days of the date of this notice or the BLM will return your APD.)
	Well Plat
/	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]

2.	Missing Necessary Information (The BLM can start, but cannot complete the analysuntil 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, 09/03/2018.
- 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.
 - o 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 Sipra Dahal at (575) 234-5983.

Sincerely.

Cody Layton Assistant Field Manager

cc: Official File

ADDENDUM - Deficient

Engineering Comments

- BOP requirements are not met
 State that a multibowl wellhead will be utilized within any part of Sec. 2. of AFMSS2.

 Sec. 2.
- Bottom hole pressures and hazards inadequate and/or incomplete Submit a BHP and SHP



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



APD ID: 10400027865

Well Type: OIL WELL

Submission Date: 03/02/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: FEARLESS 23 FED COM

Well Number: 508H

Well Work Type: Drill

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

FEARLESS23FC508H vicinity 20180301150014.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:

Fearless 26 Fed Com infrastructure 20180301150051.pdf

FEARLESS23FC508H_padsite_20180301150051.pdf

FEARLESS23FC508H_wellsite_20180301150052.pdf

New road type: RESOURCE

Length: 699

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: FEARLESS 23 FED COM Well Number: 508H

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

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

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: No drainage crossings

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

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

FEARLESS23FC508H_radius_20180301150108.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: Fearless 26 Fed Com CTB located in NE/4 of section 26

Production Facilities map:

Well Name: FEARLESS 23 FED COM Well Number: 508H

Fearless_26_Fed_Com_infrastructure_20180301150146.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

Drill material:

Source volume (gal): 30240000

Water source and transportation map:

Fearless_Water_Map_20180301150236.pdf

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:

Aguifer comments:

Drilling method:

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:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Well Froduction type. Completion method

Water well additional information:

Well Name: FEARLESS 23 FED COM Well Number: 508H

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:

Fearless caliche Map_20180301150253.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 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: FEARLESS 23 FED COM Well Number: 508H

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:

FEARLESS23FC505H_padsite_20180301150315.pdf FEARLESS23FC505H_wellsite_20180301150316.pdf Fearless 23 FC_508H_Rig_Layout_20180301150427.pdf

Comments: Wellsite, Padsite, Rig Layout

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: FEARLESS 23 FED COM

Multiple Well Pad Number: 507H/508H

Recontouring attachment:

FEARLESS23FC508H reclamation 20180301150455.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: FEARLESS 23 FED COM Well Number: 508H

Well pad proposed disturbance

(acres): 0

Road proposed disturbance (acres): 0

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 0

Well pad interim reclamation (acres): 0 Well pad long term disturbance

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Other long term disturbance (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

Other interim reclamation (acres): 0 (acres): 0

Total interim reclamation: 0

Total long term disturbance: 0

Disturbance Comments: All Interim and Final reclamation is planned to be completed within 6 months. Interim within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing.

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

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

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

Existing Vegetation at the well pad attachment:

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

Existing Vegetation Community at the road attachment:

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

Existing Vegetation Community at the pipeline attachment:

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

Existing Vegetation Community at other disturbances attachment:

Operator Name: EOG RESOURCES INCORF	PORATED			
Well Name: FEARLESS 23 FED COM	Well Number: 508H			
Non native seed used? NO				
Non native seed description:				
Seedling transplant description:				
Will seedlings be transplanted for this project	et? NO			
Seedling transplant description attachment:				
Will seed be harvested for use in site reclam	ation? NO			
Seed harvest description:				
Seed harvest description attachment:				
Seed Management				
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/A	cre			
Seed reclamation attachment:				
	Official Country that			
Operator Contact/Responsible	Official Contact Info			
First Name: Stan	Last Name: Wagner			
Phone: (432)686-3689	Email: stan_wagner@eogresources.com			
Seedbed prep:				
Seed BMP:				
Seed method:				
Existing invasive species? NO				

Well Name: FEARLESS 23 FED COM Well Number: 508H

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:

USFS Region:

USFS Forest/Grassland: USFS Ranger District:

Well Name: FEARLESS 23 FED COM

Well Number: 508H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: OnSite meeting conducted 08/30/17

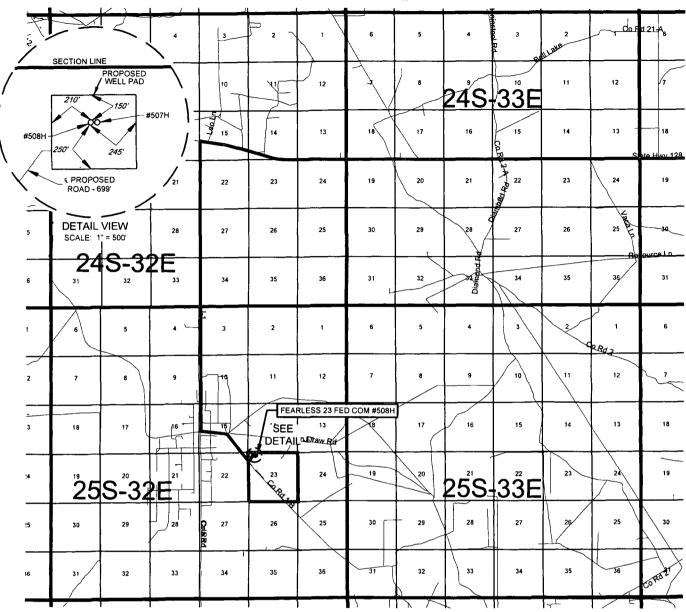
Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

FEARLESS23FC508H_location_20180301150534.pdf SUPO_Fearless_23_Fed_Com_508H_20180301150643.pdf Fearless_23_Fed_Com_GPC_20180302075209.pdf

EXHIBIT 2 VICINITY MAP



Seog resources, inc.

LEASE NAME & WELL NO.: FEARLESS 23 FED COM #508H

 SECTION
 23
 TWP
 25-S
 RGE
 32-E
 SURVEY
 N.M.P.M.

 COUNTY
 LEA
 STATE
 NM

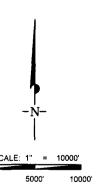
 DESCRIPTION
 300' FNL & 660' FWL

DISTANCE & DIRECTION

FROM INT, OF NM-18 S. & NM-128 W. GO WEST ON NM-128 W ±30,0 MILES, THENCE SOUTH (LEFT) ON ORLA RD/J-1 ±5.7 MILES, THENCE EAST (LEFT) ON COTTON DRAW RD./J-1 ±0.5 MILES, THENCE SOUTH (RIGHT) ON COUNTY RD. 1-B ±0.9 MILES, THENCE NORTHEAST (LEFT) ON A PROPOSED RD. ±699 FEET, TO A POINT ±259 FEET SOUTHWEST OF THE LOCATION.

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 STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY EFET.





1400 EVERMAN
PARKWAY, Ste. 197 - FT. WORTH, TEXAS 76140 TELEPHONE:
(817) 744-7512 - FAX (817) 744-7548
2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Lined pit Monitor description: Lined pit Monitor attachment:

Lined pit bond number: Lined pit bond amount:

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

Is the reclamation bond a rider under the BLM bond?

Additional bond information attachment:



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: PWD disturbance (acres): 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:

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
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 Disso that of the existing water to be protected?	lved Solids (TDS) concentration equal to or less than
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:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	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:	PWD disturbance (acres):
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:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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:



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



APD ID: 10400027865 Submission Date: 03/02/2018

Operator Name: EOG RESOURCES INCORPORATED

Well Name: FEARLESS 23 FED COM Well Number: 508H

Well Type: OIL WELL Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
1	PERMIAN	3431	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2708	723	723	ANHYDRITE	NONE	No
3	TOP OF SALT	2355	1076	1076	SALT	NONE	No
4	BASE OF SALT	-1104	4535	4535	SALT	NONE	No
5	LAMAR LS	-1330	4761	4761	LIMESTONE	NONE	No
6	BELL CANYON	-1355	4786	4786	SANDSTONE	NATURAL GAS,OIL	No
7	CHERRY CANYON	-2335	5766	5766	SANDSTONE	NATURAL GAS,OIL	Yes
8	BRUSHY CANYON	-3975	7406	7406	SANDSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING LIME	-5475	8906	8906	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-6440	9871	9871	SANDSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 2ND	-6995	10426	10426	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10683

Egyi proces. A socilidad vellocal system will be utilized. After upologi 13-35° surioss erang, a 13-56° BOT 1807 by tem with a socilogo year vellocation of both socilogo processors of 5000 personal to 250 personal by a 6000 personal of 5000 personal by a present of 5000 personal of the BOT and restrict in the resonal of the both of the best of the BOT and restrict in the resonal of the both of the both of the BOT and restrict in the required for difficult of the installation installation in the society of the installation installation in the society of the installation installation in the society of the installation of the society of the installation of the society of