Form 3160 -3 (March 2012)

OCD Hobbs ED STATES OF THE INTERIOR O

UNITED STATES

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

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	100	MNM110840
PPLICATION FOR PERMIT TO DRILL OF	R REENTER COLOR	6. If Indian, Allotee or Tribe
Z DRUL DEGNITED		7. If Unit or CA Agreement, Na

APPLICATION FOR PERMIT TO DRI	LL OR REEN HER		\sim	
la. Type of work: DRILL REENTER			7. If Unit or CA Agree	ment, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multiple	e Zone	(8. Lease Name and V PHILLY 31 FED CO	
2. Name of Operator EOG RESOURCES INCORPORATED	7327)		9. APÌ Wèll-No.	44765
4444 B 01 1 011 4 TV 77000	Phone No. (include area code) (3)651-7000		10. Field and Pool, or E RED HILLS / WC-0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4. Location of Well (Report location clearly and in accordance with any State At surface LOT 5 / 290 FSL / 568 FEL / LAT 32.0010686 / LO At proposed prod. zone NENE / 230 FNL / 750 FEL / LAT 32.02	DNG -103.5022177		11, Sec., T. R. M. or BI SEC 31 / T26S / R3	
14. Distance in miles and direction from nearest town or post office* 27 miles			12. County or Parish LEA	13. State
la action to mannet 000 for the	No. of acres in lease	17. Spacing 236.64	Unit dedicated to this w	rell
to nearest well, drilling, completed. 420 feet	Proposed Depth 711 feet \(\sigma 20015 \) feet	20. BLM/B FED: NM	IA Bond No. on file	
3333 feet 03	Approximate date work will start	*	23. Estimated duration25 days	
	. Attachments			
 The following, completed in accordance with the requirements of Onshore Oil Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands SUPO must be filed with the appropriate Forest Service Office). 	4. Bond to cover the Item 20 above). 5. Operator certifica	e operation		existing bond on file (see may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Stan Wagner / Ph: (432)6	86-3689		Date 10/12/2017
Title Regulatory Specialsit				
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)23	34-5959		Date 04/20/2018
Title Supervisor Multiple Resources	Office CARLSBAD			
Application approval does not warrant or certify that the applicant holds legaconduct operations thereon. Conditions of approval, if any, are attached.	al or equitable title to those rights	s in the subj	ect lease which would e	ntitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime 1 States any false, fictitious or fraudulent statements or representations as to any	for any person knowingly and wi matter within its jurisdiction.	illfully to ma	ake to any department o	r agency of the United

*(Instructions on page 2) (Continued on page 2)

CCP Rec 05/07/18 Approval Date: 04/20/2018

INSTRUCTIONS .

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

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

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

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

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

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

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396, 43 CFR 31,60

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: LOT 5 / 290 FSL / 568 FEL / TWSP: 26S / RANGE: 34E / SECTION: 31 / LAT: 32.0010686 / LONG: -103.5022177 (TVD: 0 feet MD: 0 feet)

PPP: LOT 5 / 330 FSL / 750 FEL / TWSP: 26S / RANGE: 34E / SECTION: 31 / LAT: 32.001178 / LONG: -103.5028038 (TVD: 12667 feet MD: 12782 feet)

BHL: NENE / 230 FNL / 750 FEL / TWSP: 26S / RANGE: 34E / SECTION: 30 / LAT: 32.0210421 / LONG: -103.5028333 (TVDP 12701) feet, MD: 20015 feet)

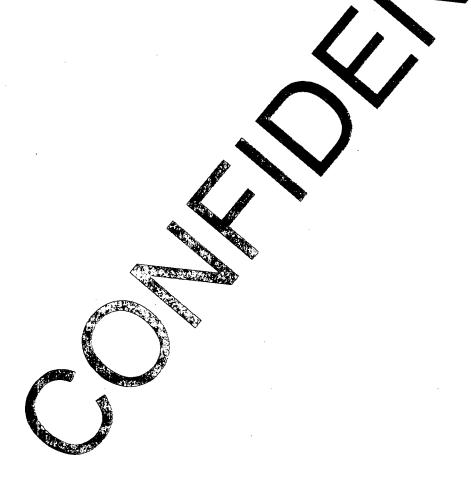
BLM Point of Contact

Name: Katrina Ponder

Title: Geologist

Phone: 5752345969

Email: kponder@blm.gov



Review and Appeal Rights

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





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

Application Data Report

APD ID: 10400022741

Submission Date: 10/12/2017

Highlighted data reflects the most

Operator Name: EOG RESOURCES INCORPORATED

Well Number: 708H

recent changes

Well Name: PHILLY 31 FED COM

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400022741

Tie to previous NOS?

Submission Date: 10/12/2017

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: NMNM110840

Lease Acres: 1335.19

Reservation:

Surface access agreement in place?

Allotted?

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: PHILLY 31 FED COM

Well Number: 708H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: WC-025 S263327G

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

Well Name: PHILLY 31 FED COM

Well Number: 708H

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: 708H/709H

Well Class: HORIZONTAL

PHILLY 31 FED COM Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 27 Miles

Distance to nearest well: 420 FT

Distance to lease line: 230 FT

Reservoir well spacing assigned acres Measurement: 236.64 Acres

Well plat:

Philly_31_Fed_Com_708H_signed_C_102_20171012150227.pdf

Well work start Date: 03/01/2018

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	TVD
SHL	290	FSL	568	FEL	26S	34E	31	Lot	32.00106		LEA		—	F	NMNM	333	0	О
Leg								5	86	103.5022		MEXI	l		110840	3		
#1										177		co	СО					
КОР	50	FSL	736	FEL	26\$	34E	31	Lot	32.00041	-	LEA	NEW	NEW	F	NMNM	-	122	122
Leg								5	58	103.5027		MEXI	MEXI		110840	888	25	19
#1										697		СО	co			6		
PPP	330	FSL	750	FEL	26S	34E	31	Lot	32.00117	_	LEA	NEW	NEW	F	NMNM	-	127	126
Leg								5	8 -	103.5028		MEXI	MEXI		110840	933	82	67
#1										038		co	СО			4		



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

Drilling Plan Data Report 04/23/2018

APD ID: 10400022741

Submission Date: 10/12/2017

Highlighted data reflects the most

recent changes

Operator Name: EOG RESOURCES INCORPORATED
Well Name: PHILLY 31 FED COM

Well Number: 708H

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	Formation
1	PERMIAN	3333	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2546	787	787	ANHYDRITE	NONE	No
3	TOP OF SALT	1941	1392	1392	SALT	NONE	No
4	BASE OF SALT	-311	3644	3644	SALT	NONE	No
5	LAMAR LS	-2047	5380	5380	LIMESTONE	NONE	No
6	BELL CANYON	-2072	5405	5405	SANDSTONE	NATURAL GAS,OIL	Yes
7	CHERRY CANYON	-3130	6463	6463	SANDSTONE	NATURAL GAS,OIL	Yes
8	BRUSHY CANYON	-4660	7993	7993	SANDSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING LIME	-6260	9593	9593	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-7190	10523	10523	SANDSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 2ND	-7735	11068	11068	SANDSTONE	NATURAL GAS,OIL	Yes
12	BONE SPRING 3RD	-8815	12148	12148	SANDSTONE	NATURAL GAS,OIL	Yes
13	WOLFCAMP	-9211	12544	12544	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Well Name: PHILLY 31 FED COM Well Number: 708H

Pressure Rating (PSI): 10M

Rating Depth: 12711

Equipment: The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Department and preventer (5000-psi WP). Both units will be tested in accordance with Onshore Oil & Department and preventer (5000-psi WP). Both units will be tested in accordance with Onshore Oil & Department (5000-psi WP) and 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 & Department (5000-psi WP) and Department (5000-psi WP).

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 10000/ 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 10000/ 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:

Philly_31_FC_708H_10_M_Choke_Manifold_20170928124040.pdf

Philly_31_FC_708H_Co_Flex_Hose_Certification_20170928124040.PDF

Philly_31_FC_708H_Co_Flex_Hose_Test_Chart_20170928124041.pdf

BOP Diagram Attachment:

Philly 31 FC 708H 10 M BOP_Diagram_20170928124057.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	14.7 5	10.75	NEW	API	N	0	815	0	815	3333	2518	815	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	Υ	0	1000	0	1000	3333	2333	1	HCP -110	29.7	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
3	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	11200	0	11200	3333	-7867	11200	OTH ER		OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Wèll Name: PHILLY 31 FED COM

Well Number: 708H

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Philly_31_FC_708H_BLM_Plan_20170928124316.pdf

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Philly_31_FC_708H_7.625in_29.7_P110EC_VAM_SLIJ_II_20170928124357.pdf Philly_31_FC_708H_7.625in_29.70_P_110_FlushMax_III_20170928124357.pdf See previously attached_Drill_Plan_20170928122754.pdf

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20170928122954.pdf

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Philly_31_FC_708H_5.500in_20.00_VST_P110EC_VAM_SFC_20170928124432.pdf
See_previously_attached_Drill_Plan_20170928122854.pdf
Philly_31_FC_708H_5.500in_20.00_VST_P110EC_DWC_C_IS_MS_20170928124432.pdf

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20170928123012.pdf

Well Name: PHILLY 31 FED COM

Well Number: 708H

Se	ction	1 4 -	Cem	ent
	CHOL		OCII	ICIIL

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	815	325	1.73	13.5	562	25	Class C	Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 lb/sx Cello-Flake (TOC@Surface)
SURFACE	Tail		815	815	200	1.34	14.8	268	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sx Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	1170 0	2250	1.38	14.8	3105	25	Class C	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead (TOC @ Surface)
INTERMEDIATE	Tail		1170 0	1170 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		1110	2001 5	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 @ 11,100')

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.

Well Name: PHILLY 31 FED COM

Well Number: 708H

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
815	1170 0	SALT SATURATED	8.8	10							
1170 0	1271 1	OIL-BASED MUD	10	14							
0	815	WATER-BASED MUD	8.6	8.8							

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: 7601

Anticipated Surface Pressure: 4804.58

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:

Philly_31_FC_708H_H2S_Plan_Summary_20170928124846.pdf

Well Name: PHILLY 31 FED COM Well Number: 708H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

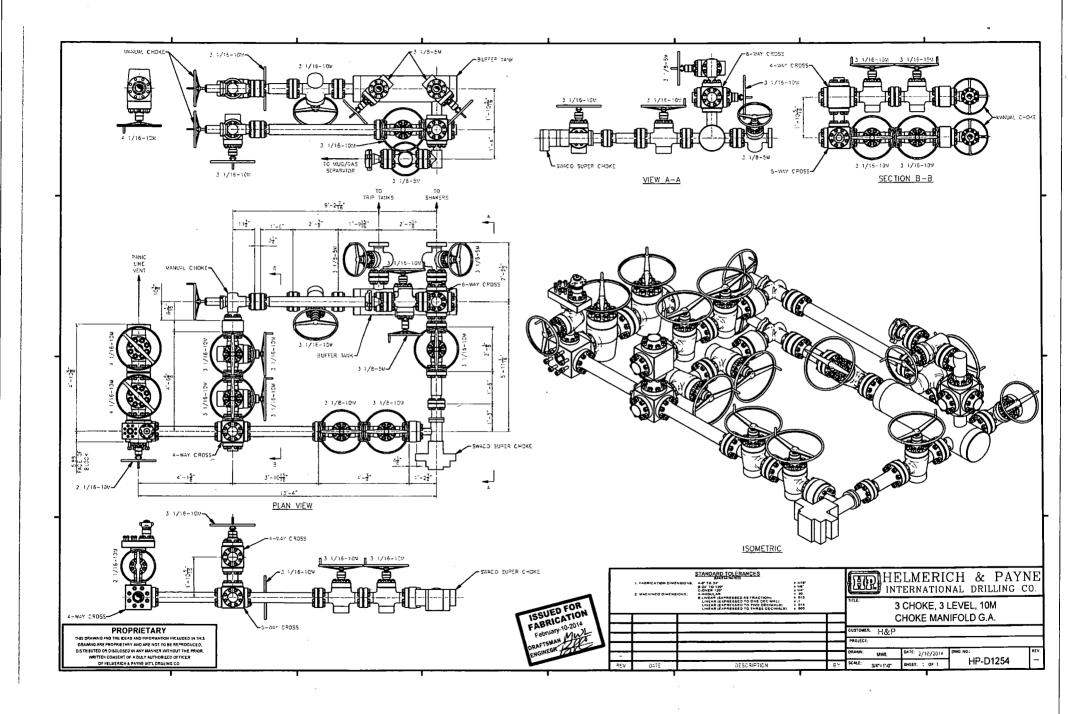
Philly_31_Fed_Com_708H_Wall_Plot_20170928124909.pdf
Philly_31_Fed_Com_708H_Planning_Report_20170928124909.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Philly_31_FC_708H_Proposed_Wellbore_20170928124929.pdf
Philly_31_FC_708H_Rig_Layout_20170928124929.pdf
Philly_31_FC_708H_Wellhead_Cap_20170928124930.pdf
Philly_31_Fed_Com_708H_gas_capture_20171011104509.pdf

Other Variance attachment:



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.

INTERNAL	HYDROST	ATIC TEST	REPOR	T	
Customer:			P.O. Numb		
CACTUS		RIG #123			
	HOOF ODEOU	TOATIONO	Asset # N	110/61	
	HOSE SPECIF	ICATIONS			
Type: CHOKE LIN	E		Length:	35'	
I.D. 4"	INCHES	O.D.	8"	INC	HES
WORKING PRESSURE	TEST PRESSUR	E	BURST PRES	SURE	
10,000 <i>PSI</i>	15,000	PSI			PSI
	COUP	LINGS			
Type of End Fitting 4 1/16 10K F	LANGE				~
Type of Coupling:		MANUFACTU	RED BY		· · · · · · · · ·
SWEDGED		MIDWEST HOS	SE & SPECIA	LTY	
	PROC	EDURE			
Hose assembl	y pressure tested w	ith water at ambier	nt temperature .		
TIME HELD AT	TEST PRESSURE	ACTUAL E	BURST PRESSU	RE:	
i . 1	MIN.			0	PSI
COMMENTS: SN#90067	M10761		-	,	
	ered with staini	ess steel armo	ur cover and		
	fire resistant v				
	ated for 1500 de				
Date: 6/6/2011	Tested By: BOBBY FINK		Approved: MENDI J		ON



Internal Hydrostatic Test Graph

Customer: CACTUS

SALES ORDER# 90067

Hose Specifications

Hose Type C&K <u>I.D.</u>

Working Pressure 10000 PSI

Length 35' <u>O.D.</u> 8"

Burst Pressure Standard Safety Multiplier Applies

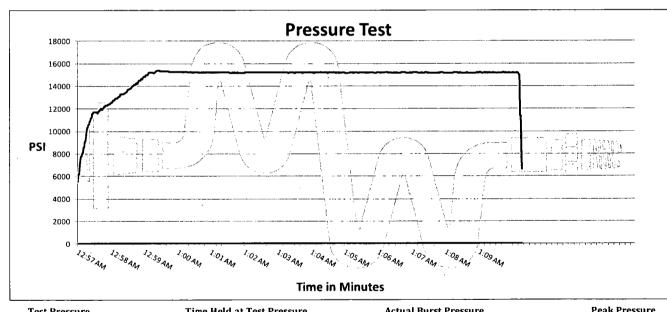
Verification

Type of Fitting 4 1/16 10K <u>Die Size</u> 6.62"

Hose Serial #

Coupling Method Swage Final O.D. 6.68"

Hose Assembly Serial #



Test Pressure 15000 PSI

Time Held at Test Pressure 11 1/4 Minutes

Actual Burst Pressure

Peak Pressure 15439 PSI

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

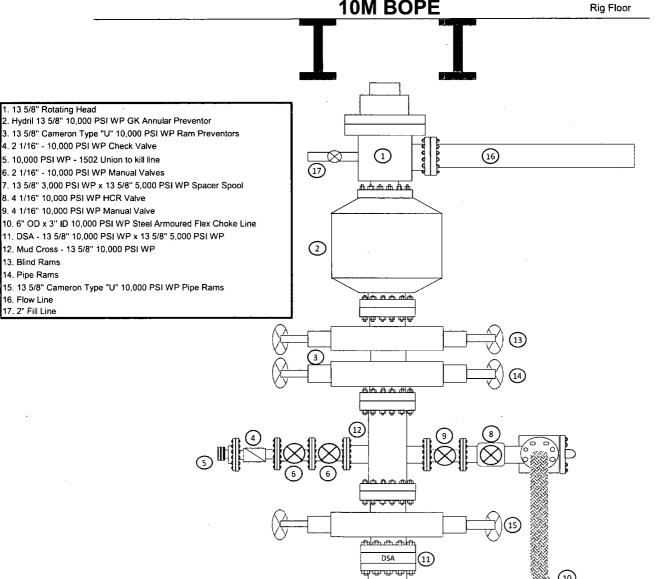
Tested By: Bobby Fink

Approved By: Mendi Jackson

Mendi Jackson

Exhibit 1 **EOG Resources**

10M BOPE



See previously attached Drill Plan



 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

PIPE PROPERTIES							
7.625 in.							
6.875 in.							
8.541 sqin.							
High Collapse							
110 ksi							
140 ksi							
125 ksi							

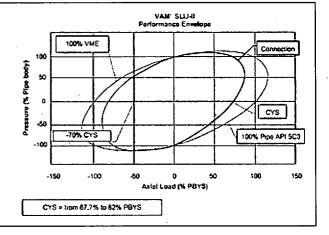
CONNECTION	PROPERTIES
Connection Type	Premium integral semi-flush
Connection OD (nom)	7.711 in.
Connection ID (nom)	6.820 in.
Make-up Loss	4.822 in.
Critical Cross Section	5.912 sqin.
Tension Efficiency	69.2 % of pipe
Compression Efficiency	48.5 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORM	MANCES	
Tensile Yield Strength	651	klb
Compression Resistance	455	klb
Internal Yield Pressure	9470	psi
Uniaxial Collapse Pressure	7890	psi
Max. Bending Capacity	TDB	
Max Bending with Sealability	20	°/100 ft

FIELD TORQUE V	ALUES
Min. Make-up torque	11300 ft.lb
Opti. Make-up torque	12600 ft.lb
Max. Make-up torque	13900 ft.lb

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.



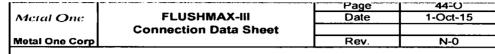
Do you need help on this product? - Remember no one knows $\mathsf{VAM}^{\texttt{®}}$ like VAM

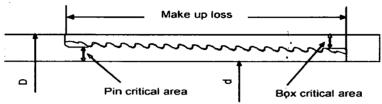
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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com







Pipe Body	<u>Imperial</u>		<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	in ²	5,508	mm ²	
Drift Dia.	6.750	in	171.45	mm	

Connection Box OD (W

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

Note: Operational Max. torque can be applied for high torque application

See previously attached Drill Plan

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	787'
Top of Salt	1,392'
Base of Salt / Top Anhydrite	3,644'
Base Anhydrite	5,380'
Lamar	5,380'
Bell Canyon	5,405'
Cherry Canyon	6,463'
Brushy Canyon	7,993'
Bone Spring Lime	9,593'
1 st Bone Spring Sand	10,523'
2 nd Bone Spring Shale	10,733'
2 nd Bone Spring Sand	11,068'
3 rd Bone Spring Carb	11,523'
3 rd Bone Spring Sand	12,148'
Wolfcamp	12,544'
TD	12,711'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,463'	Oil
Brushy Canyon	7,993'	Oil
1 st Bone Spring Sand	10,523'	Oil
2 nd Bone Spring Shale	10,733'	Oil
2 nd Bone Spring Sand	11,068'	Oil
3 rd Bone Spring Carb	11,523'	Oil
3 rd Bone Spring Sand	12,148'	Oil
Wolfcamp	12,544'	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 815' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 – 815'	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' – 11,700'	7.625"	29.7#	HCP- 110	FlushMax III	1.125	1.25	1.60
6.75"	0'-11,200'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,200'-20,015'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

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

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

Cementing Program:

Depth	No. Sacks	Wt.	Yld Ft³/ft	Mix Water Gal/sk	Slurry Description
10-3/4" 815'	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" 11,700°	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"	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
20,015					0.40% C-17 (TOC @ 11,200')

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	Type	Weight (ppg)	Viscosity	Water Loss
0 – 815'	Fresh - Gel	8.6-8.8	28-34	N/c
815' - 11,700'	Brine	8.8-10.0	28-34	N/c
11,700' – 20,015'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

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

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7601 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.

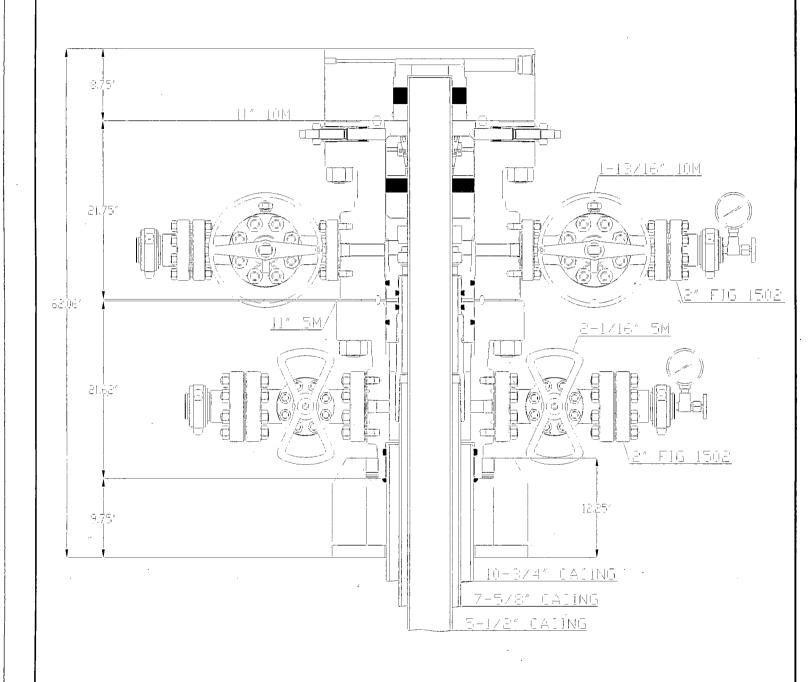
The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

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.



+CONCERT OUDTE DRAWING +DIMENSIONS ARE APPROXIMATE

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

FBD-100 WELLHEAD CYCTEM OUDTE: HDU - 102101

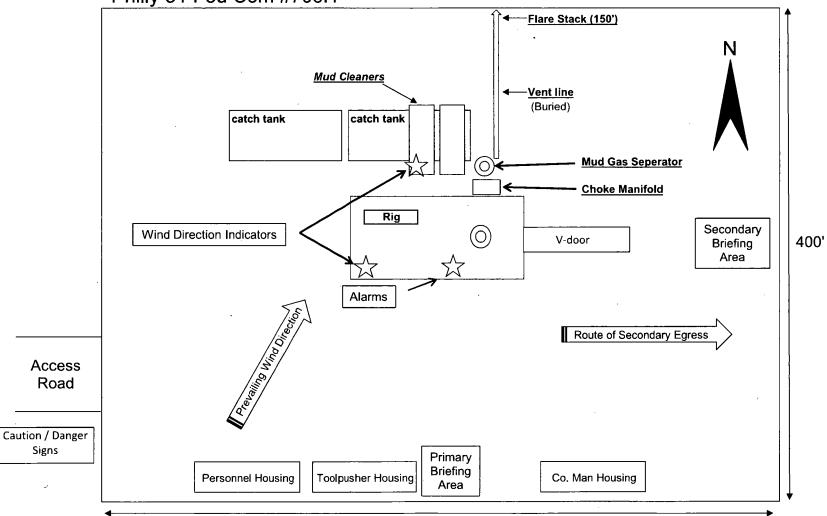
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TRAVING NO WH-16618

Exhibit 4 EOG Resources Philly 31 Fed Com #708H

Well Site Diagram



Well Name: PHILLY 31 FED COM Well Number: 708H

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:

PHILLY31FEDCOM708H radius 20170928143652.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: Philly 31 Fed Com CTB located in lot 2 section 31

Production Facilities map:

Well Name: PHILLY 31 FED COM

Well Number: 708H

Philly_31_Fed_infrastructure_20170928143707.pdf

Philly_31_Fed_CTB_20170928143707.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: STATE

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 720000

Source volume (acre-feet): 92.80303

Source volume (gal): 30240000

Water source and transportation map:

Philly_31_Fed_Com_water_and_caliche_map_20170928143801.jpg

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

Well Name: PHILLY 31 FED COM

Well Number: 708H

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:

Philly_31_Fed_Com_water_and_caliche_map_20170928143816.jpg

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: PHILLY 31 FED COM

Well Number: 708H

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:

Philly_31_FC_708H_Rig_Layout_20170928143544.pdf PHILLY31FEDCOM708H_padsite_20170928143837.pdf PHILLY31FEDCOM708H_wellsite_20170928143838.pdf

Comments: Wellsite, Padsite, Rig Layout

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PHILLY 31 FED COM

Multiple Well Pad Number: 708H/709H

Recontouring attachment:

PHILLY31FEDCOM708H reclamation 20170928143850.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: PHILLY 31 FED COM Well Number: 708H

Wellpad long term disturbance (acres): 2.692837

Access road long term disturbance (acres): 0.465014

Pipeline long term disturbance (acres): 2.7355373

Other long term disturbance (acres): 0

Total long term disturbance: 5.8933883

Wellpad short term disturbance (acres): 4.178145

Access road short term disturbance (acres): 0.465014

Pipeline short term disturbance (acres): 4.5592284

Other short term disturbance (acres): 0

Total short term disturbance: 9.202388

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:

Non native seed used? NO

Non native seed description:

Operator Name: EOG RESOURCES INCORPORATE	ĒD _
Well Name: PHILLY 31 FED COM	Well Number: 708H
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 source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:
Seed Summary	Total pounds/Acre:
Seed Type Pounds/Acre	
;	
Seed reclamation attachment:	
Operator Contact/Responsible Offic	ial 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	
Existing invasive species treatment description:	

Existing invasive species treatment attachment:

Well Name: PHILLY 31 FED COM Well Number: 708H

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

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

Monitoring plan attachment:

Success standards: N/A

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

Well Name: PHILLY 31 FED COM Well Number: 708H

ROW Applications

SUPO Additional Information: OnSite meeting conducted 01/12/17

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Philly_31_Fed_CTB_20170928144023.pdf
PHILLY31FEDCOM708H_location_20170928144024.pdf
SUPO_Philly_31_Fed_Com_708H_20170928144024.pdf
Philly_31_Fed_Com_708H_deficiency_response_20171207145100.pdf

Section 3 - Unlined Pits

Injection PWD discharge volume (bbl/day):

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 Dissolve that of the existing water to be protected?	ed 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 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:

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

PWD Data Report 04/23/2018

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:

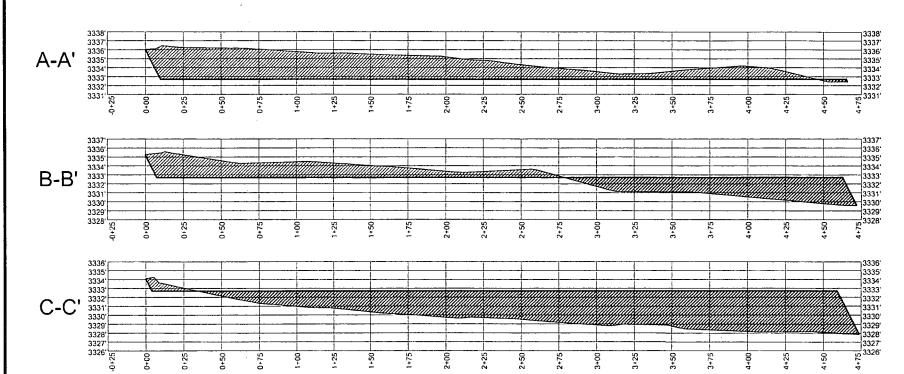
Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

SECTION 31, TOWNSHIP 26-S, RANGE 34-E, N.M.P.M. LEA COUNTY, NEW MEXICO





Horizontal Scale = 1:60 Vertical Scale = 1:10



1400 EVERMAN PARKWAY, Sto. 146 · FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 · FAX (817) 744-7548 TEXAS FIRM REGISTRATION NO. 10042504 WWW.TOPOGRAPHIC.COM

	REVISION:						
PHILLY 31 FED COM #708H & #709H	INT	DATE					
CUT/FILL							
33.71 122							
DATE: 12/06/17							
FILE:CD_PHRLY_31_FED_COM_708_709_CUT_FILL_PLAN							
DRAWN BY: MML							
SHEET: 2 OF 2							

NOTES

- 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
- ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
- I. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EGO RESOURCES, INC. ONLY UTILITIES/BASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY. WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Michael Blake Brown, P.S. No. 18329
DECEMBER 06, 2017
Field note description of even date accompanies this plat.

•Well Name: PHILLY 31 FED COM

Well Number: 708H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
EXIT Leg #1	330	FNL	750	FEL	26S	34E	30	Aliquot NENE	32.02076 7	- 103.5028 329	LEA	NEW MEXI CO	ı	F	NMNM 122626	- 937 8	199 15	127 11
BHL Leg #1	230	FNL	750	FEL	26S	34E	30	Aliquot NENE	32.02104 21	- 103.5028 333	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 122626	- 937 8	200 15	127 11



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

Well Name: PHILLY 31 FED COM

SUPO Data Report

Submission Date: 10/12/2017

Operator Name: EOG RESOURCES INCORPORATED

Highlighted data reflects the most recent changes

Well Number: 708H

Show Final Text

Well Type: OIL WELL

APD ID: 10400022741

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PHILLY31FEDCOM708H_vicinity_20170928143610.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:

Philly 31 Fed infrastructure 20170928143634.pdf

PHILLY31FEDCOM708H_padsite_20170928143634.pdf

PHILLY31FEDCOM708H_wellsite_20170928143635.pdf

New road type: RESOURCE

Length: 844

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