Form 3160-3 (March 2012)	bbs	ABS V	90	FORM OMB Expires (	APPROVED No. 1004-0137 Detober 31, 2014	JUR GURF
DEPARTMENT OF THE BURFALLOF LAND MAN		40r 07	. Lo.	5. Lease Serial No. MNM110840	$\mathbf{X}$	
APPLICATION FOR PERMIT TO	DRILL OR	REENTER	ENVE	6. If Indian, Allotee	or Tribe Nar	ne
la. Type of work: DRILL REENTI	ER	RE		7. If Unit or CA Age	eement, Name	and No.
lb. Type of Well: 🔽 Oil Well 🗌 Gas Well 🛄 Other	Sin	gle Zone 🔽 Multi	ple Zone 🦯	K. Lease Name and PHILLY 31 FED C.	Well No. OM 707H	321381
2. Name of Operator EOG RESOURCES INCORPORATED	7371	,	$\langle \langle \rangle$	9. APT Well-No. 30-0.2.9	-44	764 -
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002	3b. Phone No. (71'3)651-7	(include area code) 000	$\langle \ $	10. Field and Pool, or RED'HILLS / WC-	Exploratory 025 S26332	<b>98097</b>
<ol> <li>Location of Well (Report location clearly and in accordance with an At surface LOT 4 / 290 FSL / 1755 FEL / LAT 32.001066 At proposed prod. zone NWNE / 230 FNL / 2010 FEL / LAT</li> </ol>	ny State requireme 62 / LONG -1 532.021036	ents.*) 03.5060457 / LONG -103.5068	986	11. Sec. J. R. M. or F SEC 31 / T26S / R	3lk. and Surve 34E / NMP	y or Area
<ol> <li>Distance in miles and direction from nearest town or post office*</li> <li>27 miles</li> </ol>	/			12. County or Parish LEA	11 N	3. State IM
15. Distance from proposed* location to nearest 230 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of at 1335.19	cres in lease	17. Spacin 236.47	g Unit dedicated to this	well	
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, 420 feet applied for, on this lease, ft.</li> </ol>	19. Proposed	Depth	20. BLM/I FED: N	BIA Bond No. on file M2308		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3350 feet	22 Approxin 03/01/201	nate, date work will sta	rt*	23. Estimated duration 25 days	on in the second s	· .
	24. Attác	hments		•		
<ol> <li>The following, completed in accordance with the requirements of Onsho</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).</li> </ol>	re Oil ànd Gas ( Lands, the	<ol> <li>Bond to cover t Item 20 above).</li> <li>Operator certifi</li> <li>Such other site</li> </ol>	ttached to the he operation cation specific info	is form: ns unless covered by ar prmation and/or plans a	existing bon s may be requ	d on file (see ired by the
25. Signature (Electronic-Submission)	Name Stan V	BLM. (Printed/Typed) Wagner / Ph: (432	)686-3689	<u> </u>	Date 10/12/20	
Title Regulatory Specialsit					1	
Approved by (Signature)	Name Cody	(Printed/Typed) Layton / Ph: (575)	234-5959		Date 04/18/20	18
Title	Office CARLSBAD					

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.

\*(Instructions on page 2) KZ 09/10/16 (Continued on page 2) GCP Dec 05/07/18 DITIONS pproval Date: 04/18/2018

# Review and Appeal Rights

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

Approval Date: 04/18/2018

# 

D.

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

APD ID: 10400022736

**Operator Name: EOG RESOURCES INCORPORATED** 

Well Name: PHILLY 31 FED COM

Well Type: OIL WELL

Submission Date: 10/12/2017

Zip: 77002

Well Number: 707H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

\_\_\_\_\_

Section 1 - General		
APD ID: 10400022736	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 penetrate	ed for production Federal or Indian? FED
Lease number: NMNM110840	Lease Acres: 1335.19	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreeme	ent:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: EOG RESC	DURCES INCORPORATED
Operator letter of designation:		

#### **Operator Info**

#### **Operator Organization Name: EOG RESOURCES INCORPORATED**

Operator Address: 1111 Bagby Sky Lobby2

**Operator PO Box:** 

Operator City: Houston State: TX

Operator Phone: (713)651-7000

**Operator Internet Address:** 

#### Section 2 - Well Information

Well in Master Development Plan? NO	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: 707H	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

Page 1 of 3

Well Name: PHILLY 31 FED COM

Describe other minerals: Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance? Number: 706H/707H Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** PHILLY 31 FED COM Well Class: HORIZONTAL Number of Legs: 1 Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL Describe sub-type: Distance to town: 27 Miles Distance to nearest well: 420 FT Distance to lease line: 230 FT Reservoir well spacing assigned acres Measurement: 236.47 Acres Well plat: Philly 31 Fed Com 707H signed C 102 20171012145923.pdf Well work start Date: 03/01/2018 Duration: 25 DAYS **Section 3 - Well Location Table** Survey Type: RECTANGULAR **Describe Survey Type:** 

Datum: NAD27

Survey number:

Aliquot/Lot/Tract ease Number EW Indicator NS Indicator ongitude. ease Type Elevation EW-Foot Meridian NS-Foot Section -atitude Range County State Twsp <u>T</u> ДD 290 SHL FSL 175 FEL 26S 34E 31 Lot 32.00106 LEA NEW NEW ١F NMNM 335 0 0 103.5060 MEXI MEXI 110840 5 62 0 Leg 4 457 CO CO #1 KOP FEL 50 Lot 32.00041 LEA NEW F 122 FSL 199 26S 34E 31 NEW NMNM 122 3 35 103.5068 MEXI MEXI 110840 887 28 21 Leg 4 206 CO CO 1 #1 PPP FEL 330 FSL 201 Lot 32.00117 NEW NEW F NMNM 127 126 26S 34E 31 LEA 56 110840 931 103.5068 MEXI MEXI 86 69 Leg 0 4 682 CO CO 9 #1

Vertical Datum: NAVD88

#### Well Number: 707H



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

# Drilling Plan Data Report

04/19/2018

- 10 - E

APD ID: 10400022736

Well Type: OIL WELL

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 707H

Submission Date: 10/12/2017

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID I	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	PERMIAN	3350	0	Ö	ALLUVIUM	NONE	No
2	RUSTLER	2561	789	789	ANHYDRITE	NONE	No
3	TOP OF SALT	1956	1394	1394	SALT	NONE	No
4	BASE OF SALT	-296	3646	3646	SALT	NONE	No
5	LAMAR LS	-2032	5382	5382	LIMESTONE	NONE	No
6	BELL CANYON	-2057	5407	5407	SANDȘTONE	NATURAL GAS,OIL	Yes
7	CHERRY CANYON	-3115	6465	6465	SANDSTONE	NATURAL GAS OIL	Yes
8	BRUSHY CANYON	-4645	7995	7995	SANDSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING LIME	-6245	9595	9595	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-7175	10525	10525	SANDSTONE	NATURAL GAS,OIL	Yes
11 -	BONE SPRING 2ND	-7720	11070	11070	SANDSTONE	NATURAL GAS,OIL	Yes
12	BONE SPRING 3RD	-8800	12150	12150	SANDSTONE	NATURAL GAS,OIL	Yes
13	WOLFCAMP	-9196	12546	12546	SHALE	NATURAL GAS,OIL	Yes

#### **Section 2 - Blowout Prevention**

Well Name: PHILLY 31 FED COM

Well Number: 707H

#### Pressure Rating (PSI): 10M

#### Rating Depth: 12713

**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 6-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers 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 707H 10 M Choke Manifold 20170928102122.pdf

Philly 31 FC 707H Co Flex Hose Certification 20170928102122.PDF

Philly\_31\_FC\_707H\_Co\_Flex\_Hose\_Test\_Chart\_20170928102123.pdf

#### **BOP Diagram Attachment:**

Philly\_31\_FC\_707H\_10\_M\_BOP\_Diagram\_20170928102134.pdf

									,													
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	3350	2335	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	Y	0	1000	0	1000	3350	2350	1000	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	3350	-7850	11200	OTH ER	20	OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6

# Section 3 - Casing

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

Well Number: 707H

#### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

Tapered String Spec:

#### Casing Design Assumptions and Worksheet(s):

Philly\_31\_FC\_707H\_BLM\_Plan\_20170928102450.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

**Spec Document:** 

#### **Tapered String Spec:**

Philly\_31\_FC\_707H\_7.625in\_29.70\_P\_110\_FlushMax\_III\_20170928102306.pdf See\_previously\_attached\_Drill\_Plan\_20170928102306.pdf Philly\_31\_FC\_707H\_7.625in\_29.7\_P110EC\_VAM\_SLIJ\_II\_20170928102306.pdf

Casing Design Assumptions and Worksheet(s):

See\_previously\_attached\_Drill\_Plan\_20170928102516.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

#### **Tapered String Spec:**

Philly\_31\_FC\_707H\_5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20170928102418.pdf Philly\_31\_FC\_707H\_5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_20170928102418.pdf See\_previously\_attached\_Drill\_Plan\_20170928102418.pdf

#### Casing Design Assumptions and Worksheet(s):

See\_previously\_attached\_Drill\_Plan\_20170928102534.pdf

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

Well N	umber:	707H
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Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
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 Ib/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 0	2001 7	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.

16

Well Name: PHILLY 31 FED COM

Well Number: 707H

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
815	1170 0	SALT SATURATED	8.8	10							
1170 0	1271 3	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: 7602

Anticipated Surface Pressure: 4805.13

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\_707H\_H2S\_Plan\_Summary\_20170928102924.pdf

Well Name: PHILLY 31 FED COM

Well Number: 707H

#### **Section 8 - Other Information**

Proposed horizontal/directional/multi-lateral plan submission:

Philly\_31\_Fed\_Com\_707H\_Planning\_Report\_20170928102940.pdf Philly\_31\_Fed\_Com\_707H\_Wall\_Plot\_20170928102940.pdf

Other proposed operations facets description:

#### Other proposed operations facets attachment:

Philly\_31\_FC\_707H\_Proposed\_Wellbore\_20170928103004.pdf Philly\_31\_FC\_707H\_Rig\_Layout\_20170928103004.pdf Philly\_31\_FC\_707H\_Wellhead\_Cap\_20170928103004.pdf

 $Philly\_31\_Fed\_Com\_707H\_gas\_capture\_20171011104349.pdf$ 

#### Other Variance attachment:

Page 6 of 6

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Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8\* ID = 4\*

Ends: Flanges Size: 4-1/16\*

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

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# MIDWEST

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# HOSE AND SPECIALTY INC.

IN	ITERNAL	. HYDROST	ATIC TEST	REPOR	Т				
Customer	*	······		P.O. Numb	er:				
CACTUS	-			<b>RIG #123</b>					
				Asset # N	110761				
		HOSE SPECI	ICATIONS						
Туре:	CHOKE LINI	E		Length:	35'				
I.D.	4"	INCHES	<b>O.D</b> .	. 8" INCHE					
WORKING P	RESSURE	TEST PRESSUR	Ē	BURST PRES	SURE				
10,000	PSI	15,000	PSi			<u>PSI</u>			
		COUP	LINGS						
Type of E	Type of End Fitting 4 1/16 10K FLANGE								
Type of Co	oupling:		MANUFACTU	RED BY					
	SWEDGED		MIDWEST HOSE & SPECIALTY						
		PROC	EDURE						
	Hose assembly	, pressure tested w	ith water at ambier	nt temperatura.					
:	TIME HELD AT	TEST PRESSURE	ACTUAL E	URST PRESSU	JRE:				
	1	MIN.			0	PSI			
COMMENTS: SN#90087 M10761 Hose is covered with stainless steel armour cover and wraped with fire resistant vermiculite coated fiberglass									
Date:	6/6/2011	Tested By: BOBBY FINK	Approved: MENDI JACKSON						



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

Tested By: Bobby Fink

Bolly Ze

Approved By: Mendi Jackson

Mendi Jackson



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	Make up loss	s . <u> </u>		
Em	·····	$\dots$	ngt	
D Pin c	ד ritical area	, <b>†</b>	Box critical ar	ea
Pipe Body	Imperia	al	<u>S.I.</u>	
Grade	P110		P110	
Pipe OD ( D )	7 5/8	in	193.68	mm
Weight	29.7	Ib/ft	44.25	kg/m
Actual weight	29.0	lb/ft	43.26	kg/m
	0.375	in	9.53	mm
	0.875		174.03	
Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm
Unit Dia.	6.750	in	1/1.45	mm
Connection				
Box OD (W)	7.625	l in l	193.68	mm
PIN ID	6.875	in	174.63	mm
Pin critical area	4.420	in <sup>2</sup>	2,852	mm <sup>2</sup>
Box critical area	4.424	in <sup>2</sup>	2.854	mm <sup>2</sup>
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 Performan	ce Properties			
Tensile Yield load	563.4	kips	2,506	kN
M.I.Y.P.	7,574	psi	52.2	MPa
Collapse strength	C 070	nei	36.9	MPa

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Issued on: 24 Jan. 2017

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**Connection Data Sheet** 

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

Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sqin.
Grade Type	High Collapse
Min. Yield Strength	110 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	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 PERFORMA	NCES	
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 VALUES	
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 $\mathsf{VAM}^{\textcircled{B}}$ like <code>VAM</code>

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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



Vallourec Group

### See previously attached Drill Plan

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#### 1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	789'
Top of Salt	1,394'
Base of Salt / Top Anhydrite	3,646'
Base Anhydrite	5,382'
Lamar	5,382'
Bell Canyon	5,407'
Cherry Canyon	6,465'
Brushy Canyon	7,995'
Bone Spring Lime	9,595'
1 <sup>st</sup> Bone Spring Sand	10,525'
2 <sup>nd</sup> Bone Spring Shale	10,735'
2 <sup>nd</sup> Bone Spring Sand	11,070'
3 <sup>rd</sup> Bone Spring Carb	11,625'
3 <sup>rd</sup> Bone Spring Sand	12,150'
Wolfcamp	12,546'
TD	12,713'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,465'	Oil
Brushy Canyon	7,995'	Oil
1 <sup>st</sup> Bone Spring Sand	10,525'	Oil
2 <sup>nd</sup> Bone Spring Shale	10,735'	Oil
2 <sup>nd</sup> Bone Spring Sand	11,070'	Oil
3 <sup>rd</sup> Bone Spring Carb	11,625'	Oil
3 <sup>rd</sup> Bone Spring Sand	12,150'	Oil
Wolfcamp	12,546'	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.

1.

# See previously attached Drill Plan

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Hole		Csg				DFmin	DFmin	DF <sub>min</sub>
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	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-	LTC	1.125	1.25	1.60
				110				
9.875"	1,000' –	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'-20,017'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

#### 4. CASING PROGRAM - NEW

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.

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

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

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /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" 20,017'	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,200')

#### **Cementing Program:**

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

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (10,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

#### 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

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

Depth	Туре	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' - 20,017'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

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

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) H<sub>2</sub>S 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 7602 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.

Well Name: PHILLY 31 FED COM

Well Number: 707H

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:

PHILLY31FEDCOM707H\_radius\_20170928142427.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 is located in lot 2 section 31

Production Facilities map:

Well Name: PHILLY 31 FED COM

Well Number: 707H

#### Philly\_31\_Fed\_CTB\_20170928142443.pdf Philly\_31\_Fed\_infrastructure\_20170928142443.pdf

#### Section 5 - Location and Types of Water Supply

#### Water Source Table

Water source use type: OTHER

Describe type:

Source latitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: STATE

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 720000

Source volume (gal): 30240000

Water source and transportation map:

Philly\_31\_Fed\_Com\_water\_and\_caliche\_map\_20170928142556.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:	<b>Completion Method:</b>	
Water well additional information:		

Water source type: RECYCLED

Source longitude:

Source volume (acre-feet): 92.80303

Well Name: PHILLY 31 FED COM

Well Number: 707H

#### 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\_20170928142619.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 containmant attachment:

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

**Disposal type description:** 

Disposal location description: Trucked to NMOCD approved disposal facility

**Reserve Pit** 

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

**Reserve pit liner** 

Reserve pit liner specifications and installation description

**Cuttings Area** 

#### Well Name: PHILLY 31 FED COM

Well Number: 707H

#### Cuttings Area being used? NO

#### Are you storing cuttings on location? YES

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

Cuttings area depth (ft.)

Cuttings area width (ft.)

#### Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

**Section 8 - Ancillary Facilities** 

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

Comments:

Section 9 - Well Site Layout

#### Well Site Layout Diagram:

Philly 31 FC 707H Rig Layout 20170928142815.pdf Philly31FC707H\_padsite\_12\_05\_20171205090423.pdf Philly31FC707H\_wellsite\_12\_05\_20171205090423.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: 706H/707H

#### **Recontouring attachment:**

#### PHILLY31FEDCOM707H\_reclamation\_20170928142834.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.

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

Well Number: 707H

Wellpad long term disturbance (acres): 2.692837	Wellpad short term disturbance (acres): 4.178145
Access road long term disturbance (acres): 0.608815	Access road short term disturbance (acres): 0.608815
Pipeline long term disturbance (acres): 1.894628	Pipeline short term disturbance (acres): 3.1577134
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0
Total long term disturbance: 5.19628	Total short term disturbance: 7.9446735

**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:

Well Name: PHILLY 31 FED COM

Well Number: 707H

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 Managemen	t
Seed Table	
Seed type:	
Seed name:	
Source name:	

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Seed source:

Source address:

**Total pounds/Acre:** 

Proposed seeding season:

Seed Summary Seed Type **Pounds/Acre** 

#### Seed reclamation attachment:

**Operator Contact/Responsible Official Contact Info** 

First Name: Stan

Last Name: Wagner

Phone: (432)686-3689

Email: stan wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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Well Name: PHILLY 31 FED COM

Well Number: 707H

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:

1

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 ROW Type(s): Use APD as ROW?

Well Name: PHILLY 31 FED COM

Well Number: 707H

# **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\_20170928142947.pdf PHILLY31FEDCOM707H\_location\_20170928142948.pdf SUPO\_Philly\_31\_Fed\_Com\_707H\_20170928142949.pdf Philly\_31\_Fed\_Com\_707H\_deficiency\_response\_20171207145002.pdf 4

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

#### [Please See Addendum for further clarification of deficiencies]

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

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

#### **Extension Requests:**

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension prior to the 45<sup>th</sup> calendar day from this notice. 01/14/2018.
- 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.
  - 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 Deborah McKinney at (575) 234-5931.

Sincerely,

Cody Layton Assistant Field Manager

cc: Official File

# ADDENDUM - Incomplete/Deficient

Clarifications

ADDENDUM - Deficient

Surface Comments

- New and Reconstructed Roads Deficiency: Please make sure the plat and SUPO reflect the same distance and the road footage is correct. Corrected plats attached.
- Well Site Layout Deficiency: Please provide cut and fill diagram.

Attached



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

#### **Section 1 - General**

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

#### **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO **Produced Water Disposal (PWD) Location: PWD** surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

04/19/2018



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#### Section 3 - Unlined Pits

#### Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

**Unlined Produced Water Pit Estimated percolation:** 

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

#### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

**PWD surface owner:** 

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

**PWD disturbance (acres):** 

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

UIC Permit attachment:

#### Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

#### Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment: Injection well name:

#### Injection well API number:

PWD disturbance (acres):

#### **PWD disturbance (acres):**

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# **FMSS**

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

#### **Bond Information**

Federal/Indian APD: FED

BLM Bond number: NM2308

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

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:

# Bond Info Data Report

Well Name: PHILLY 31 FED COM

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Well Number: 707H

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	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tra	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QW	DVT
EXIT 3: Leg	30 F	FNL	201 0	FEL	26S	34E	30	Aliquot NWNE	32.02076 04	- 103.5068	LEA	NEW MEXI	NEW MEXI	F	NMNM 122626	- 936	199 17	127 13
#1							_			981		00	CO			3		ı
BHL 2	30 F	FNL	201	FEL	26S	34E	30	Aliquot	32.02103	-	LEA	NEW	NEW	F	NMNM	-	200	127
Leg			0					NWNE	6	103.5068 986		MEXI	MEXI		122626	936 3	17	13

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

04/19/2018

APD ID: 10400022736

**Operator Name: EOG RESOURCES INCORPORATED** 

Well Name: PHILLY 31 FED COM

Well Type: OIL WELL

Submission Date: 10/12/2017

Well Number: 707H

Well Work Type: Drill

# Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PHILLY31FEDCOM707H vicinity 20170928142339.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Philly\_31\_Fed\_infrastructure\_20170928142406.pdf Philly31FC707H\_padsite\_12\_05\_20171205090340.pdf Philly31FC707H\_wellsite\_12\_05\_20171205090341.pdf

New road type: RESOURCE

Length: 1105

Width (ft.): 24

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? NO

Feet

ACOE Permit Number(s):

New road travel width: 24

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

Row(s) Exist? NO

Highlighted data reflects the most recent changes

Show Final Text