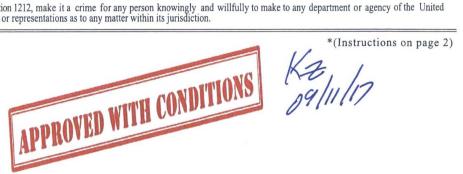
Auge				9		
Form 3160 -3 (March 2012) UNITED STATES		HOBBS SEP 11	2017	FORM OMB N Expires C 5. Lease Serial No.	APPROVE No. 1004-013 October 31, 20	7
DEPARTMENT OF THE I	NTERIOR			NMNM122622	b .	
DEPARTMENT OF THE I BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	DRILL OR	REENTERCE	IVE	6. If Indian, Allotee	or Tribe N	lame
la. Type of work: DRILL REENTE	ER				1 and	me and No.
lb. Type of Well: 🗹 Oil Well 🔲 Gas Well 🛄 Other	🖌 Sin	gle Zone 🔲 Multip	le Zone	8. Lease Name and OPHELIA 22 FED		н (319569)
2. Name of Operator EOG RESOURCES INCORPORATED			AR.	9. API Well No. 70-029	-44	-006
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002	3b. Phone No. (713)651-7	(include area code)	A A	10. Field and Pool, or I RED HILLS / WC-0		
4. Location of Well (Report location clearly and in accordance with an	y State requireme	ents.*)	A.	11. Sec., T. R. M. or B	lk. and Surv	vey or Area
At surface NWNW / 200 FNL / 644 FWL / LAT 32.03567 At proposed prod. zone SWNW / 2411 FNL / 330 FWL / LA		ALL STREET	7652	SEC 22 / T26S / R	33E / NM	P
 Distance in miles and direction from nearest town or post office* 22.5 miles 				12. County or Parish LEA		13. State NM
15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a 1640	cres in lease	17. Spacin 240	g Unit dedicated to this	well	
 Distance from proposed location* to nearest well, drilling, completed, 663 feet applied for, on this lease, ft. 	19. Proposed 12395 feet	Depth / 19839 feet	20. BLM/	BIA Bond No. on file M2308		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3294 feet	22. Approxim 08/01/201	nate date work will star 7	ť*	23. Estimated duration 25 days	on	
	24. Attac	hments				
The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, must be at	tached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	ne operatio	ns unless covered by an	existing b	ond on file (see
 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the	 Operator certific Such other site s BLM. 		ormation and/or plans as	s may be re	quired by the
25. Signature (Electronic Submission)	Name Stan V	(Printed/Typed) Nagner / Ph: (432)	686 <mark>-</mark> 3689		Date 03/28/2	2017
Title Regulatory Specialsit						
Approved by (Signaure) (Electronic Submission)		(Printed/Typed) Layton / Ph: (575)2	34-5959		Date 08/31/2	2017
Title Supervisor Multiple Resources	Office	.SBAD				
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.			ts in the sub	oject lease which would o	entitle the a	pplicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as			villfully to n	nake to any department of	or agency (of the United

(Continued on page 2)

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Application Data Report

09/05/2017

APD ID: 10400012450 Operator Name: EOG RESOURCES INCORPORATED Well Name: OPHELIA 22 FED COM Well Type: OIL WELL

Submission Date: 03/28/2017

- A Martin Aller

Well Number: 704H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400012450	Tie to previous NOS?	Submission Date: 03/28/2017
BLM Office: CARLSBAD	User: Stan Wagner	Title: Regulatory Specialsit
Federal/Indian APD: FED	Is the first lease penetra	ted for production Federal or Indian? FED
Lease number: NMNM122622	Lease Acres: 1640	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreen	nent:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: EOG RES	SOURCES INCORPORATED
Operator letter of designation:		

Operator Info

Operator Organization Name: EOO	G RESOURCES INCORPORATED	
Operator Address: 1111 Bagby Sk	Zip: 77002	
Operator PO Box:		ZIP. 17002
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: OPHELIA 22 FED COM	Well Number: 704H	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 Number: 704H

Describe other minerals: Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance? Number: 704H/705H Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: **OPHELIA 22 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: 22.5 Miles Distance to nearest well: 663 FT Distance to lease line: 200 FT Reservoir well spacing assigned acres Measurement: 240 Acres Well plat: Ophelia_22_Fed_Com_704H_signed_C_102_03-28-2017.pdf Well work start Date: 08/01/2017 Duration: 25 DAYS

Section 3 - Well Location Table

FWL 26S

FWL 26S

33E 22

33E 22

Aliquot

NWN

Aliquot

NWN

W

W

KOP 52

Leg

#1 PPP

Leg

#1

330

FNL

FNL

348

330

Surve	ey Tyj	pe: RE	ECTA	NGUL	AR													
Desc	ribe S	urvey	/ Туре	e:														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88						
Surve	ey nu	mber:																
	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 Leg #1	200	FNL	644	FWL	26S	33E	22	Aliquot NWN W	32.03567 09	- 103.5666 389	LEA		NEW MEXI CO	F	NMNM 122622	329 4	0	0

32.03608

32.03531

24

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Page 2 of 3

119

123

51

08

119

15

124

70

NEW F

NEW F

NMNM

NMNM

122622

122622 861

4

905

7

LEA

LEA

103.5675

103.5676

895

438

NEW

CO

NEW

CO

MEXI MEXI

MEXI MEXI

CO

CO

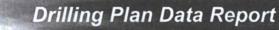
Well Name: OPHELIA 22 FED COM

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Well Number: 704H

	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	231 1	FNL	330	FWL	26S	33E	27	Aliquot SWN W	32.01534 98	- 103.5676 515	LEA	NEW MEXI CO		F	FEE	- 910 1	197 39	123 95
BHL Leg #1	241 1	FNL	330	FWL	26S	33E	27	Aliquot SWN W	32.01507 44	- 103.5676 52	LEA	NEW MEXI CO		F	FEE	- 910 1	198 39	123 95





09/05/2017

APD ID: 10400012450

Operator Name: EOG RESOURCES INCORPORATED

Well Name: OPHELIA 22 FED COM

Well Type: OIL WELL

Submission Date: 03/28/2017

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Well Number: 704H

Section 1 - Geologic Formations

Formation	Formation Name	Floyetion	True Vertical		Lithelesies	Minorel Decourses	Producing
ID 17706	PERMIAN	Elevation 3294	Depth 0	Depth 0	Lithologies	Mineral Resources	No
17746	RUSTLER	2480	814	814	ANHYDRITE	NONE	No
17718	TOP SALT	2147	1147	1147	SALT	NONE	No
17722	BASE OF SALT	-1476	4770	4770	SALT	NONE	No
17719	LAMAR	-1726	5020	5020	LIMESTONE	NONE	No
15332	BELL CANYON	-1756	5050	5050	SANDSTONE	NATURAL GAS,OIL	. No
15316	CHERRY CANYON	-2806	6100	6100	SANDSTONE	NATURAL GAS,OIL	. No
17713	BRUSHY CANYON	-4364	7658	7658	SANDSTONE	NATURAL GAS,OIL	. No
17721	BONE SPRING LIME	-5934	9228	9228	LIMESTONE	NONE	No
17770	FIRST BONE SPRING SAND	-6875	10169	10169	SANDSTONE	NATURAL GAS,OIL	. No
17737	BONE SPRING 2ND	-7380	10674	10674	SANDSTONE	NATURAL GAS,OIL	. No
17738	BONE SPRING 3RD	-8456	11750	11750	SANDSTONE	NATURAL GAS,OIL	. No
17709	WOLFCAMP	-9101	12395	12395	SHALE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Well Name: OPHELIA 22 FED COM

Well Number: 704H

Pressure Rating (PSI): 10M

Rating Depth: 12395

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

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement maximize cement bond and zonal isolation.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 5000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 5000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

Choke Diagram Attachment:

10M_Choke_Manifold_07-10-2017.pdf

BOP Diagram Attachment:

10M_BOPE_07-10-2017.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	840	0	840	3294	2454	840	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	N	0	1000	0	1000	3294	2294	1000	HCP -110	29.7	LTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
3	INTERMED IATE	9.87 5	7.625	NEW	API	N	1000	3000	1000	3000	2294	294	2000	OTH ER	29.7	OTHER - SLIJ II	1.12 5	1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	10900	0	10900	3294	-7606	10900	OTH ER		OTHER - DWC/C-IS MS	1.12 5	1.25	BUOY	1.6	BUOY	1.6
5	INTERMED IATE	8.75	7.625	NEW	API	N	3000	11400	3000	11400	294	-8106	8400	HCP -110	29.7			1.25	BUOY	1.6	BUOY	1.6
6	PRODUCTI ON	6.75	5.5	NEW	API	N	10900	19839	10900	12395	-7606	-9101	8939	OTH ER		OTHER - VAM SFC	1.12 5	1.25	BUOY	1.6	BUOY	1.6

Section 3 - Casing

Page 2 of 7

Well Name: OPHELIA 22 FED COM

Well Number: 704H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf

Well Number: 704H

Casing	Attachments
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asing Attachments
Casing ID: 4 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf
Casing ID: 5 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf
Casing ID: 6 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf

Section 4 - Cement

Well Name: OPHELIA 22 FED COM

Well Number: 704H

	1										
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	.0	0	0	0		0	0
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
INTERMEDIATE	Lead		0	0	0	0	0	0		0	0
SURFACE	Lead		0	840	325	1.73	13.5	562	25	Class C	Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		840	840	200	1.34	14.8	268	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	1140 0	2250	1.38	14.8	3105	25	Class C	Class C + 5% Gypsum + 3% CaCl2 pumped via bradenhead (TOC@surface)
INTERMEDIATE	Tail		1140 0	1140 0	550	1.2	14.4	660	25	Class H	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped conventionally
PRODUCTION	Lead		1090 0	1983 9	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 @ 10900')

Well Number: 704H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: (A) A Kelly cock will be kept in the drill string at all times. (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times. (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD. **Describe the mud monitoring system utilized:** An electronic pit volume totalizer (PVT) will be utilized on the circulating system to monitor pit volume, flow rate, pump pressure and stroke rate.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
840	1140 0	SALT SATURATED	8.8	10							
1140 0	1983 9	OIL-BASED MUD	10	14							
0	840	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

Well Number: 704H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7412

Anticipated Surface Pressure: 4685.1

Anticipated Bottom Hole Temperature(F): 181

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Ophelia_22_Fed_Com_704H_H2S_Plan_Summary_03-28-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Ophelia_22_Fed_Com_704H_Planning_Report_03-28-2017.pdf Ophelia_22_Fed_Com_704H_Wall_Plot_03-28-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Ophelia_22_Fed_Com_704H_5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_03-28-2017.pdf Ophelia_22_Fed_Com_704H_7.625in_29.7_P110EC_VAM_SLIJ_II_03-28-2017.pdf Ophelia_22_Fed_Com_704H_5.500in_20.00_VST_P110EC_VAM_SFC_Spec_Sheet_03-28-2017.pdf Ophelia_22_Fed_Com_704H_7.625in_29.70_P_110_FlushMax_III_Spec_Sheet_03-28-2017.pdf Ophelia_22_Fed_Com_704H_BLM_Plan_03-28-2017.pdf Ophelia_22_Fed_Com_704H_Proposed_Wellbore_03-28-2017.pdf Ophelia_22_Fed_Com_704H_Rig_Layout_03-28-2017.pdf

Other Variance attachment:

Ophelia_22_Fed_Com_704H_Co_Flex_Hose_Certification_03-28-2017.PDF Ophelia_22_Fed_Com_704H_Co_Flex_Hose_Test_Chart_03-28-2017.pdf





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 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):



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 09/05/2017

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SUPO Data Report

09/05/2017

APD ID: 10400012450 Operator Name: EOG RESOURCES INCORPORATED Well Name: OPHELIA 22 FED COM Well Type: OIL WELL

Submission Date: 03/28/2017

Well Number: 704H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES Existing Road Map: OPHELIA_22_FED_COM_704H_vicinity_map_03-23-2017.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:				
Ophelia_22_Fed_infrastructure_sketch_03-23-2017.pdf OPHELIA_22_FED_COM_704H_well_site_03-23-2017.pdf New road type: RESOURCE					
	Length: 120	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

New road access plan attachment:

Well Name: OPHELIA 22 FED COM

Well Number: 704H

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

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

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: No drainage crossings

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

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES Attach Well map: OPHELIA_22_FED_COM_704H_radius_map_03-23-2017.pdf Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT Estimated Production Facilities description: Production Facilities description: Ophelia 22 Fed Com central tank battery located in NW/4 of section 22 Production Facilities map: Ophelia 22 Fed infrastructure_sketch_03-23-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Describe type:

Source latitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: FEDERAL

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 0

Source volume (acre-feet): 0

Water source type: RECYCLED

Source longitude:

Water source and transportation map:

Ophelia_22_Fed_Com_Water_Source_and_Caliche_Map_03-23-2017.pdf

Water source comments:

Source volume (gal): 0

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 a	quifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside d	iameter (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:		
State appropriation permit:		
Additional information attachment:		

Well Number: 704H

Section 6 - Construction Materials

Construction Materials description: Caliche will be supplied from pits shown on the attached caliche source map. Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by "Flipping" the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for "Flipping" a well location is as follows: * -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. * In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location attachment:

Ophelia_22_Fed_Com_Water_Source_and_Caliche_Map_03-23-2017.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. After drilling and completion operations; trash, chemicals, salts, frac sand, and other waste material will be removed and disposed of properly at a state approved disposal facility. **Amount of waste:** 0 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

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

Disposal location description: Trucked to NMOCD approved disposal facility

Reserve Pit

Reserve pit width (ft.)

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Well Name: OPHELIA 22 FED COM

Well Number: 704H

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

OPHELIA 22 FED COM 704H well site 03-23-2017.pdf OPHELIA_22_FED_COM_704H_pad_site_03-23-2017.pdf Ophelia_22_Fed_Com_704H_Rig_Layout_03-28-2017.pdf Comments: Exhibit 2A-Wellsite & Exhibit 2B-Padsite Rig Layout Exhibit 4

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

OPHELIA 22 FED COM 704H interim reclamation 03-23-2017.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: OPHELIA 22 FED COM	Well Number: 704H
	Wellpad long term disturbance (acres): 2.852388	Wellpad short term disturbance (acres): 4.178145
	Access road long term disturbance (acres): 0.066116	Access road short term disturbance (acres): 0.066116
	Pipeline long term disturbance (acres): 0.28236914	Pipeline short term disturbance (acres): 0.47061524
	Other long term disturbance (acres): 0	Other short term disturbance (acres): 0
	Total long term disturbance: 3.2008731	Total short term disturbance: 4.714876

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:

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

Well Name: OPHELIA 22 FED COM

Well Number: 704H

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type: Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed source:

Source address:

Seed Type

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

Pounds/Acre

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:

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

Well Number: 704H

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: Wilitary Local Office: USFWS Local Office: Other Local Office:

USFS Forest/Grassland:

USFS Ranger District:

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

 Phone: (575)399-9281
 Email:

 Surface use plan certification: NO
 Email:

 Surface use plan certification document:
 Surface access agreement or bond: Agreement

 Surface Access Agreement Need description: surface use agreement
 Surface Access Bond BLM or Forest Service:

 BLM Surface Access Bond number:
 USFS Surface access bond number:

Well Number: 704H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: An onsite meeting was conducted 02/16/17. Poly lines are planned to transport water for operations. Will truck if necessary. See attached SUPO Plan. **Use a previously conducted onsite?** NO

Previous Onsite information:

Other SUPO Attachment

Ophelia_22_Fed_infrastructure_sketch_03-23-2017.pdf OPHELIA_22_FED_COM_704H_705H_SITE_03-23-2017.PDF OPHELIA_22_FED_COM_704H_COMBINED_03-23-2017.PDF SUPO_Ophelia_22_Fed_Com_704H_03-23-2017.pdf Ophelia_22_Fed_Com_704H_signed_C_102_03-28-2017.pdf Ophelia_22_FC_704_deficiency_response_06-15-2017.pdf