# OCD Hobbs

Form 3160-3 (March 2012)  UNITED STATES DEPARTMENT OF THE IN	D Ho	HOBBS	OCD	FORM OMB N Expires O	APPROVED to 1004-0137 october 31, 2014	1
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	GEMENT	VbK a	ENE	MMNM121958  If Indian, Allotee	or Tribe Name	7
la. Type of work: DRILL REENTER	₹	14 m				
lb. Type of Well: Oil Well Gas Well Other	Sin	ngle Zone 🔲 Multip	le Zone	k. Lease Name and أ DOMINATOR 25 F,		, <b>09</b> 7H
2. Name of Operator COG OPERATING LLC 229/3:	7)			9. API Well-No.	44729	
COO MARKET N Midle of TV 70704	b. Phone No (432)683-7	(include area code)	BOBE	Field and Pool, or I		94
4. Location of Well (Report location clearly and in accordance with any	-		W.	11. Sec.√r. R. M. or B	lk. and Survey or Area	
At surface SESW / 280 FSL / 2614 FWL / LAT 32.095025				SEC 25 / T25S / R	33E / NMP	
At proposed prod. zone NENW / 200 FNL / 2500 FWL / LAT  14. Distance in miles and direction from nearest town or post office*  19 miles	32.108214	7 LONG -103:5265	26	12. County or Parish LEA	13. State	
15. Distance from proposed*	16. No. of a	cres in lease	17. Spacing	g Unit dedicated to this v		
18. Distance from proposed location* to nearest well, drilling, completed, 719 feet applied for, on this lease, ft.	19: Proposed 12595 fee	t \17478 feet		BIA Bond No. on file  MB000215		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3338 feet	22 Approxi 03/01/201	mate date work will star	rt* '\'	23. Estimated duration 30 days	n .	
	24. Attac	chments				_
The following, completed in accordance with the requirements of Onshore  1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office).	v	4. Bond to cover the ltem 20 above).  5. Operator certification.	ne operation	s form:  ns unless covered by an  ormation and/or plans as	•	
25. Signature (Electronic-Submission)	II.	(Printed/Typed) e Reyes / Ph: (575)	748-6945		Date 12/08/2017	
Title Regulatory Analyst				<b>_</b>		
Approved by (Signature)  (Electronic Submission)	I	(Printed/Typed) Layton / Ph: (575)2	34-5959		Date 04/09/2018	
Title Supervisor Multiple Resources	Office CARI	LSBAD				
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equi	table title to those righ	ts in the sub	ject lease which would e	entitle the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crit States any false, fictitious or fraudulent statements or representations as to	me for any p any matter v	erson knowingly and v vithin its jurisdiction.	villfully to m	ake to any department o	or agency of the Unite	:d
(Continued on page 2)  OCP Rec 4/30/18  ADDROV	KD WI'	TH CONDITI	ONS	*(Inst	ructions on page	2)

Approval Date: 04/09/2018

#### 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: SESW / 280 FSL / 2614 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095025 / LONG: -103.525968 ( TVD: 0 feet)MD: 0 feet )

PPP: SENW / 2640 FNL / 2500 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.101508 / LONG: -103.526525 (TVD: 12614 feet) MD: 15000 feet )

PPP: SESW / 330 FSL / 2500 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095162 / LONG: -103.526523 ( TVD: 2000 feet) MD: 2000 feet )

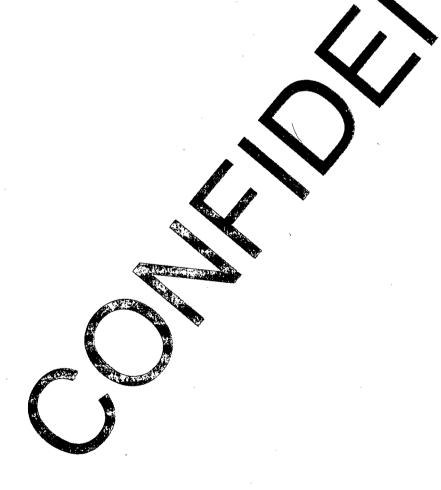
BHL: NENW / 200 FNL / 2500 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108214 / LONG: -103.526526 (TVD: 12595 feet, MD: 17478 feet )

## **BLM Point of Contact**

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@blm.gov



(Form 3160-3, page 3)

**Approval Date: 04/09/2018** 

# **Review and Appeal Rights**

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





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

# ©perator Certification Data Report 04/13/2018

# **Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Mayte Reyes

Signed on: 12/07/2017

Title: Regulatory Analyst

Street Address: 2208 W Main Street

City: Artesia

State: NM

**Zip:** 88210

Phone: (575)748-6945

Email address: Mreyes1@concho.com

### Field Representative

Representative Name: Rand French

Street Address: 2208 West Main Street

City: Artesia

State: NM

**Zip:** 88210

Phone: (575)748-6940

Email address: rfrench@concho.com



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

# **Application Data Report**

Submission Date: 12/08/2017

Highlighted data reflects the most

recent changes

Well Number: 707H

Show Final Text

Well Type: OIL WELL

APD ID: 10400025343

Well Work Type: Drill

#### Section 1 - General

Well Name: DOMINATOR 25 FEDERAL COM

APD ID:

10400025343

**Operator Name: COG OPERATING LLC** 

Tie to previous NOS?

Submission Date: 12/08/2017

**BLM Office: CARLSBAD** 

**User:** Mayte Reves

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM121958

Lease Acres: 360

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO** 

APD Operator: COG OPERATING LLC

Operator letter of designation:

## **Operator Info**

**Operator Organization Name: COG OPERATING LLC** 

Operator Address: 600 West Illinois Ave

**Operator PO Box:** 

Zip: 79701

**Operator City: Midland** 

State: TX

Operator Phone: (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

# 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: DOMINATOR 25 FEDERAL COM

Well Number: 707H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

**Pool Name: WOLFCAMP** 

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

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

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: 105H, 305H, 405H,

DOMINATOR 25 FEDERAL COM606H, 708H AND 707H

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill Well Type: OIL WELL

**Describe Well Type:** 

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 19 Miles

Distance to nearest well: 719 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat:

COG\_Dominator\_707H\_C102\_20171208064203.pdf

Well work start Date: 03/01/2018

**Duration: 30 DAYS** 

### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

**Vertical Datum: NAVD88** 

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	280	FSL	261 4	FWL	258	33E	25	Aliquot SESW	32.09502 5	- 103.5259 68	LEA	1	NEW MEXI CO	F	NMNM 121958	333 8	0	0
KOP Leg #1	280	FSL	261 4	FWL	258	33E	25	Aliquot SESW	32.09502 5	- 103.5259 68	LEA	l .	NEW MEXI CO	F	NMNM 121958	333 8	0	0
PPP Leg #1	330	FSL	250 0	FWL	258	33E	25	Aliquot SESW	32.09516 2	- 103.5265 23	LEA	1	NEW MEXI CO	F	NMNM 121958	133 8	200 0	200 0

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP	264	FNL	250	FWL	25S	33E	25	Aliquot	32.10150	-	LEA	l		F	NMNM	-	150	126
Leg	0		0					SENW	8	103.5265		l	MEXI		114987	927	00	14
#1				ŀ						25		СО	СО	L		6		
EXIT	330	FNL	225	FWL	25S	33E	25	Aliquot	32.10785	-	LEA	NEW	NEW	F	NMNM	-	173	125
Leg			0		1		١	NENW	7	103.5265		MEXI			121958	925	00	96
#1										26		co	СО			8		
BHL	200	FNL	250	FWL	25S	33E	25	Aliquot	32.10821	-	LEA	NEW	NEW	F	NMNM	-	174	125
Leg			0					NENW	4 ,	103.5265			MEXI	}	121958	925	78	95
#1			1							26		co	co			7		



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

# Drilling Plan Data Report 04/13/2018

APD ID: 10400025343

Submission Date: 12/08/2017

Highlighted data

reflects the most recent changes

Well Number: 707H

**Show Final Text** 

Well Name: DOMINATOR 25 FEDERAL COM

**Operator Name: COG OPERATING LLC** 

Well Type: OIL WELL

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation			True Vertica	al Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	UNKNOWN	3338	0	0		NONE	No
2	RUSTLER	2254	1084	1084		NONE	No
3	TOP SALT	1914	1424	1424	SALT	NONE	No
4	BASE OF SALT	-1568	4906	4906	ANHYDRITE	NONE	No
5	LAMAR	-1828	5166	5166	LIMESTONE	NATURAL GAS,OIL	No
6	BELL CANYON	1865	5203	5203		NONE	No
7	CHERRY CANYON	-2851	6189	6189		NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4488	7826	7826		NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5976	9314	9314	SANDSTONE	NATURAL GAS,OIL	No
10	UPPER AVALON SHALE	-6172	9510	9510	SHALE	NATURAL GAS,OIL	No
11		-6376	9714	9714		NATURAL GAS,OIL	No
12	BONE SPRING 1ST	-7006	10344	10344		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7481	10819	10819		NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-8583	11921	11921	<del></del>	NATURAL GAS,OIL	No
15	WOLFCAMP	-9031	12369	12369		NATURAL GAS,OIL	Yes
16	STRAWN	-10977	14315	14315		NATURAL GAS,OIL	No

# **Section 2 - Blowout Prevention**

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

Pressure Rating (PSI): 10M

Rating Depth: 12595

Equipment: Annular, Blind Ram, Pipe Ram. Accessories to the BOP equipment will include a Kelly cock and floor safety

valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. 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.

#### **Choke Diagram Attachment:**

COG\_Dominator\_707H\_10M\_Choke\_20171208064819.pdf

### **BOP Diagram Attachment:**

COG\_Dominator\_707H\_10M\_BOP\_20171208064825.pdf

COG\_Dominator\_707H\_Flex\_Hose\_20171208064833.pdf

Pressure Rating (PSI): 5M

Rating Depth: 11821

**Equipment:** Annular, Blind Ram, Pipe Ram. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. 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.

#### **Choke Diagram Attachment:**

COG\_Dominator\_707H\_5M\_Choke\_20171208064859.pdf

### **BOP Diagram Attachment:**

COG\_Dominator\_707H\_5M\_BOP\_20171208064905.pdf

 $COG\_Dominator\_707H\_Flex\_Hose\_20171208064913.pdf$ 

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

# **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	13.5	10.75	NEW	API	N	0	1100	0	1100	-8653	-9678	1100	N-80		OTHER - BTC	4.86	1.2	DRY	20.5 9	DRY	20.5 9
	INTERMED IATE	9.87 5	7.875	NEW	API	Y	0	11821	0	11821	-8653	- 20153	11821	P- 110	l	OTHER - BTC	1.28	1.04	DRY	3.09	DRY	3.09
	PRODUCTI ON	6.75	5.0	NEW	API	N	0	17478	0	17478	1	- 21064	17478	P- 110		OTHER - BTC	1.85	1.92	DRY	3.22	DRY	3.22

## **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $COG\_Dominator\_707H\_CasingRpt\_20171208064954.pdf$ 

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

## **Casing Attachments**

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

 $COG\_Dominator\_707H\_CasingRpt\_20171208065001.pdf$ 

Casing Design Assumptions and Worksheet(s):

COG\_Dominator\_707H\_CasingRpt\_20171208065008.pdf

Casing ID: 3

String Type: PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $COG\_Dominator\_707H\_CasingRpt\_20171208065102.pdf$ 

# **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1100	160	1.75	13.5	280	50	Lead: Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1100	250	1.34	14.8	335	50	Tail: Class C	2% CaCl2
INTERMEDIATE	Lead		0	1182 1	970	3.6	10.3	3492	50	Tuned Light Blend	As needed
INTERMEDIATE	Tail		0	1182 1	250	1.08	16.4	270	50	Tail: Class H	As needed.
PRODUCTION	Lead		0	1747 8	150	2.5	11.9	375	35	Lead: 50:50:10 H Blend	As needed

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	1747 8	660	1.24	14.4	818	35	Tail: 50:50:2 Class H Blend	As needed

# **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:** Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

# **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1182 1	1747 8	OIL-BASED MUD	10.5	12							ОВМ
0	1100	OTHER : FW Gel	8.6	8.8		-					FW Gel
1100	1182 1	OTHER : Brine Diesel Emulsion	8.4	9							Brine Diesel Emulsion

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

# Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CNL,GR

Coring operation description for the well:

None planned

## **Section 7 - Pressure**

**Anticipated Bottom Hole Pressure: 7860** 

**Anticipated Surface Pressure:** 5084.92

Anticipated Bottom Hole Temperature(F): 180

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:

COG\_Dominator\_707H\_H2S\_SUP\_20171208065404.pdf COG\_Dominator\_707H\_H2S\_Schem\_20171208065411.pdf

# **Section 8 - Other Information**

### Proposed horizontal/directional/multi-lateral plan submission:

COG\_Dominator\_707H\_DirectRpt\_20171208065435.pdf COG\_Dominator\_707H\_AC\_Rpt\_20171208065442.PDF

Other proposed operations facets description:

**Drilling Program Attached** 

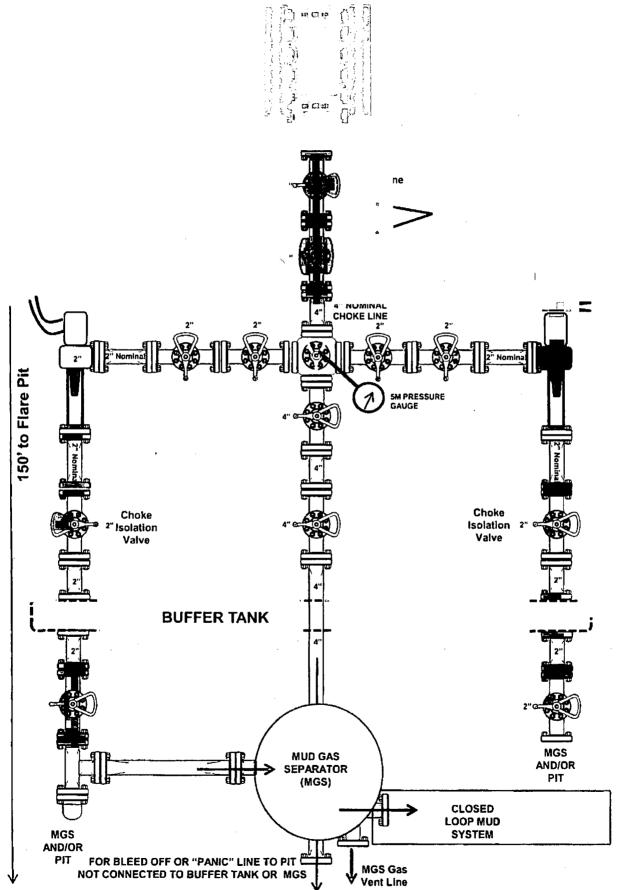
#### Other proposed operations facets attachment:

COG\_Dominator\_707H\_Drill\_Rpt\_20171208065427.pdf

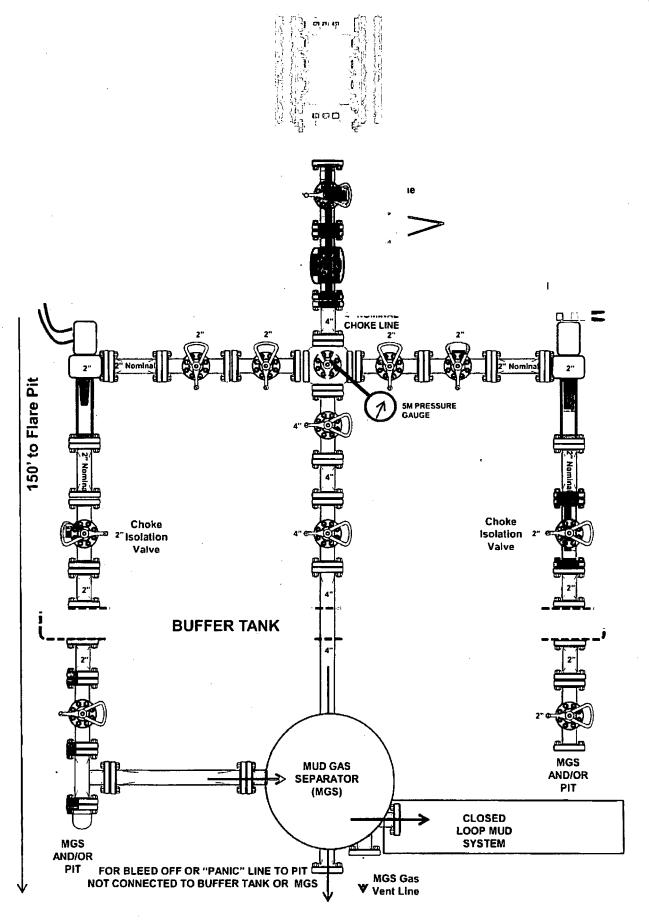
#### Other Variance attachment:

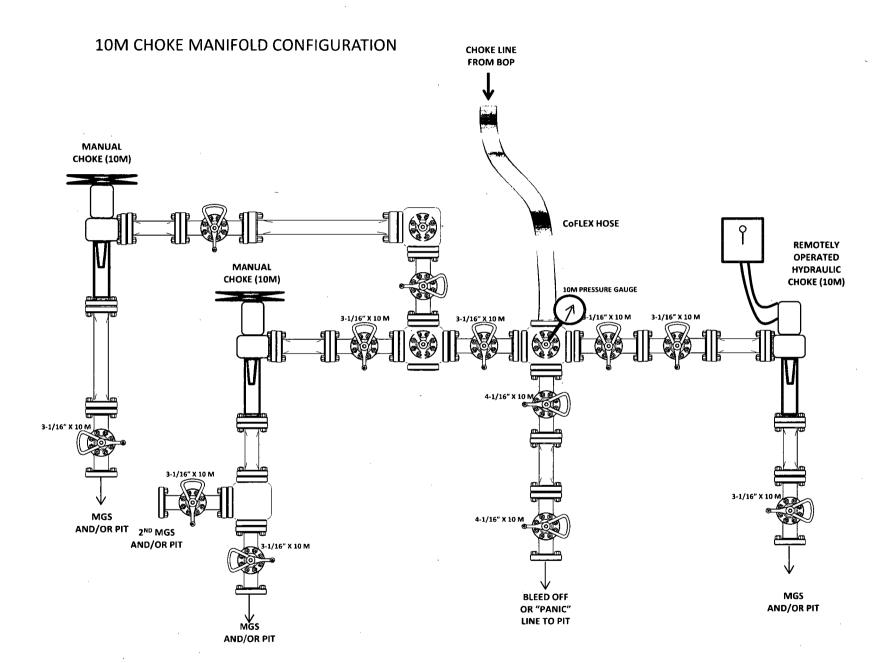
COG\_6.75\_5M\_Variance\_WCP\_20171205152749.pdf



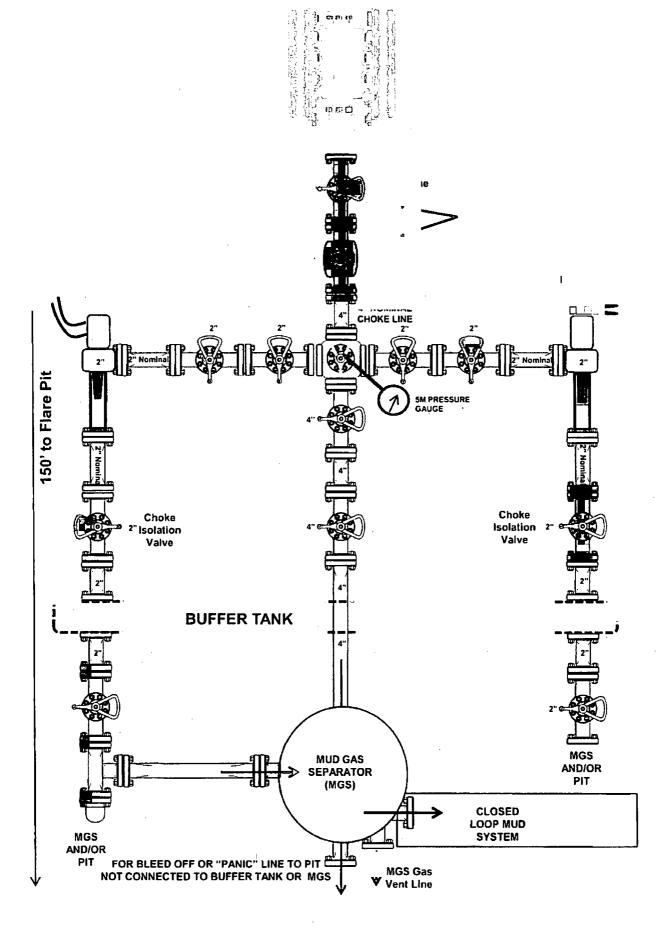


# **CLOSED LOOP)**

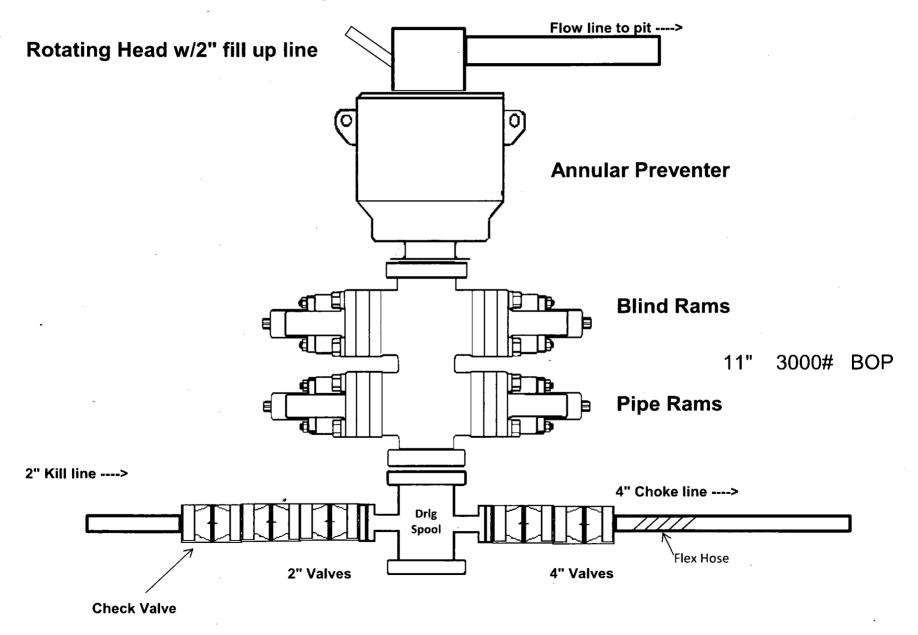




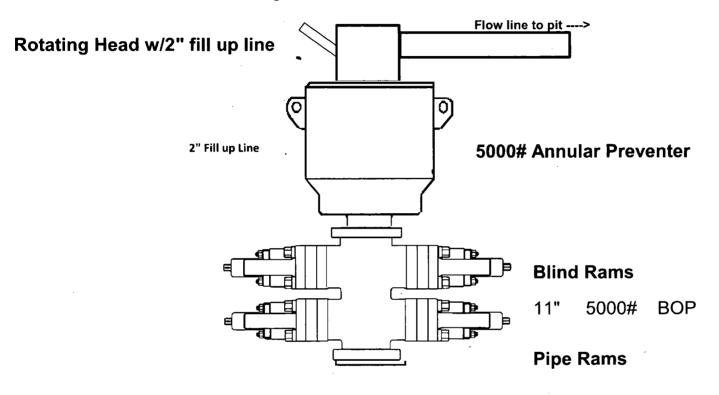
# **CLOSED LOOP)**

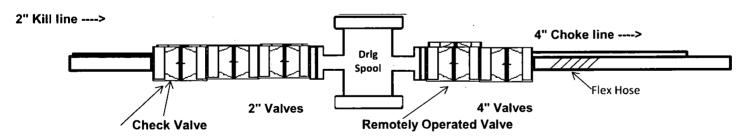


# 3,000 psi BOP Schematic

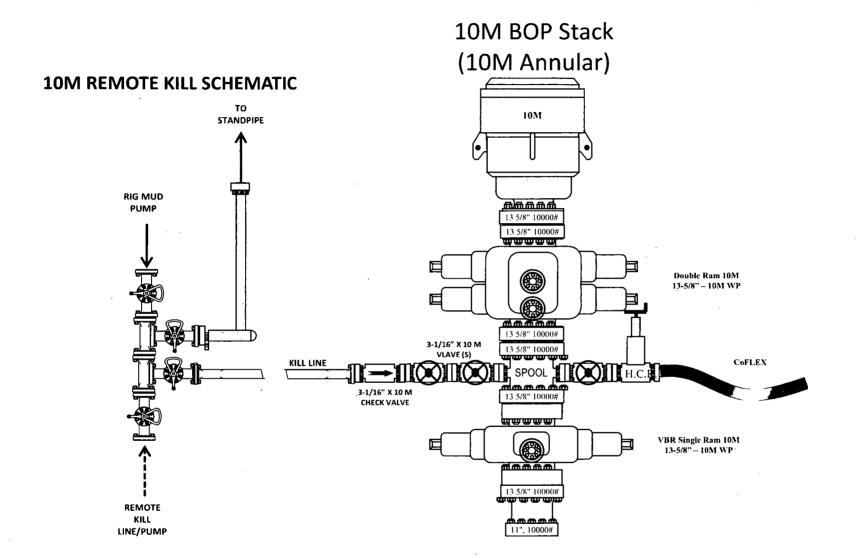


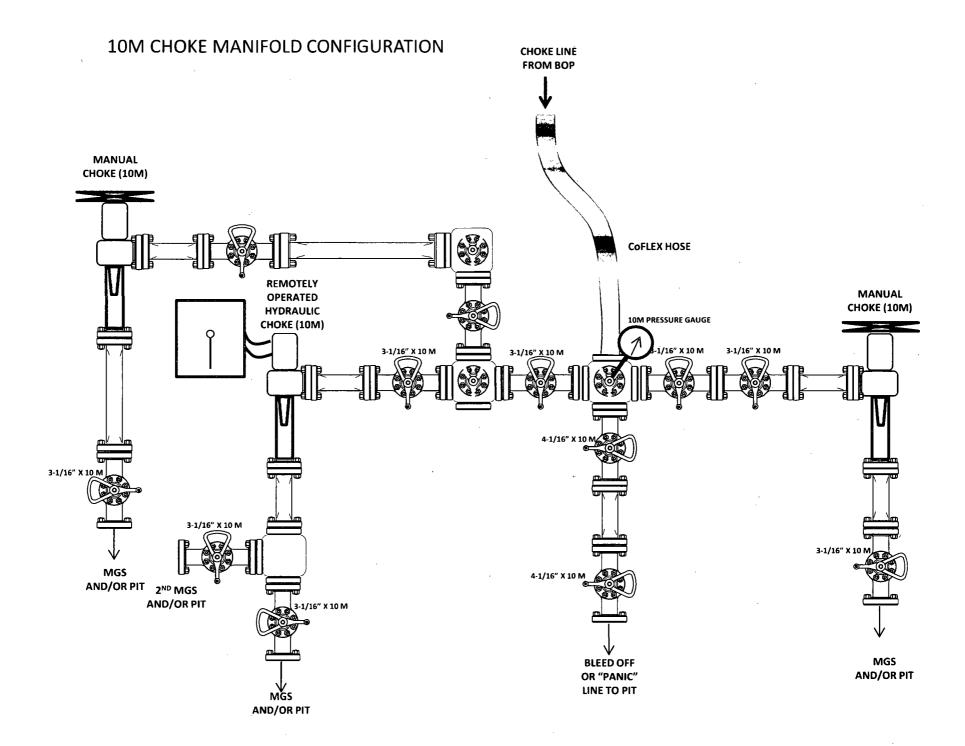
# 5,000 psi BOP Schematic





# **10M BOP Stack**







#### ContiTech

QUALITY CONTROL	No.: QC-DB- 351 / 2016
	Page: 1 / 88
Hose No.:	Revision: 0
72879	Date: 05. September 2016.
	Prepared by : Nohut Ni Esla
,	Appr. by:

# CHOKE AND KILL HOSE

id.: 3" 69 MPa x 13,72 m (45 ft)

# **DATA BOOK**

Purchaser: SCANDRILL

Purchaser Order No.: 143799

ContiTech Rubber Order No.: 543951

ContiTech Oil & Marine Corp. Order No.:

4500795683 COM880841

NOT DESIGNED FOR WELL TESTING



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 351 / 2016

Page:

5/88

# ContiTech

QUAL INSPECTION A	ITY CON		ATE		CERT.	No:	1050		
PURCHASER:	ContiTech	Oil & Marine (	Corp.		P.O. Nº		4500795683		
CONTITECH RUBBER order N°	543951	HOSE TYPE:	3"	ID	•	Choke ar	d Kill Hose		
HOSE SERIAL Nº:	72879	NOMINAL / AC	TUAL L	ENGTH:		13,72 ו	m / 13,80 m		
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	)O psi	Duration:	60	min	
Pressure test with water at ambient temperature		See attachm	ient ( '	1 page	·)				
COUPLINGS Type	3	Serial	N°		Qu	ality	Heat N°	.* =\.	
3" coupling with		258	7		AISI	4130	J5251	<u> </u>	
3 1/16" 10K API Swivel FI	ange end				AISI	4130	036809		
Hub					AISI	4130	J6433		
3" coupling with		258	4		AISI	4130	J5251		
3 1/16" 10K API b.w. Fla	nge end				AISI	4130	62580		
Not Designed For We	ell Testin	<b>g</b>		A	PI Spe		d Edition– FS perature rate:		
WE CERTIFY THAT THE ABOVE						'H THE TERM	IS OF THE ORDER		
INSPECTED AND PRESSURE TE STATEMENT OF CONFORMITY: conditions and specifications of ti accordance with the referenced sta	We hereby on the above Purchards, codes	certify that the abo	ve items that these and mee	/equipme e items/e t the relev	nt supplied quipment vant accep	were fabricat	ed inspected and te	sted in	
30. August 2016.	Inspector		Quality Control  ContiTech Rubber Industrial Kft. Quality Control Dept  (1)  (2)  (3)  (4)					•>	

# COG Operating LLC, Columbus Federal Com 21H

# **Casing Program**

Hole	ole Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF	SF
Size	From	To		(lbs)			Col	Burst	Tension
13.5"	0'	1025'	10 3/4"	45.5	L80	STC	5.14	.86	14.7
9 7/8"	0'	11,500'	7 5/8"	29.7	HCP110	BTC	1.125	1.27	2.74
6 3/4"	0'	22,397'	5.5"	23	P110	Ultra SF	1.95	1.95	2.5
				BLM M	inimum Sa	fety Factor	1.125	1.125	1.6 Dry
									1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

- Burst SF on Surf is 0.86 > 0.7.
- 5.5" Ultra SF connection OD = 5.65".

# COG Operating LLC, Columbus Federal Com 21H

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- 5.5" Ultra SF connection OD = 5.65".

# **Casing Program**

	Casing Interval			Weight			SF		SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	SF Burst	Body
13.5"	0	1110	10.75"	45.5	N80	BTC	4.86	1.20	20.59
9.875"	0	11821	7.875"	29.7	P110	BTC	1.28	1.04	3.09
6.75"	0	11321	5.5"	23	P110	ВТС	1.85	1.92	3.22
6.75"	11321	17,478	5"	18	P110	втс	1.85	1.92	3.22
				BLM Minimum Safety Factor			1,125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

### **Casing Program**

	l Int	ising erval		Weight			SF	SF Burst	SF
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The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

# 1. Geologic Formations

TVD of target	12,595' EOL	Pilot hole depth	NA
MD at TD:	17,478'	Deepest expected fresh water:	142'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1084	Water	
Top of Salt	1424	Salt	
Base of Salt	4906	Salt	
Lamar	5166	Salt Water	
Bell Canyon	5203	Salt Water	
Cherry Canyon	6189	Oil/Gas	
Brushy Canyon	7826	Oil/Gas	
Bone Spring Lime	9314	Oil/Gas	
U. Avalon Shale	9510	Oil/Gas	
L. Avalon Shale	9714	Oil/Gas	
1st Bone Spring Sand	10344	Oil/Gas	
2nd Bone Spring Sand	10819	Oil/Gas	
3rd Bone Spring Sand	11921	Oil/Gas	
Wolfcamp	12369	Target Oil/Gas	
Strawn	· 14315	Not Penetrated	

## 2. Casing Program

Hala Siaa	Ca		Weight		Conn.	SF	SE D	SF	
Hole Size	From	To	Csg. Size	(lbs)	(lbs)		Collapse	SF Burst	Body
13.5"	0	1110	10.75"	45.5	N80	втс	4.86	1.20	20.59
9.875"	0	11821	7.875"	29.7	P110	втс	1.28	1.04	3.09
6.75"	0	11321	5.5"	23	P110	втс	1.85	1.92	3.22
6.75"	11321	17,478	5"	18	P110	втс	1.85	1.92	3.22
				BLM Min	imum Sal	fety Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 500' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	<u> </u>
ls 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
	1
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

# 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	160	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suri.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Intor	970	10.3	3.6	21.48	- 16	Tuned Light Blend
Inter.	250	16.4	1.08	4.32	8	Tail: Class H
Drad	150	11.9	. 2.5	19	72	Lead: 50:50:10 H Blend
Prod	660	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 <sup>st</sup> Intermediate	0'	50%
Production	11,321'	35% OH in Lateral (KOP to EOL)

### 4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		x	Tested to:
			Ann	ular	х	2500 psi
			Blind	Ram	х	
9-7/8"	13-5/8"	5M	Pipe Ram		х	5M
			Double Ram			
			Other*			
			Annular		x	50% testing pressure
6-3/4"	13-5/8"	10M	Blind Ram		х	
			Pipe Ram		Х	10M
			Double Ram		х	
			Other*			

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.					
X	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.					
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.					
	N Are anchors required by manufacturer?					
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.					

# 5. Mud Program

	Depth	T	Weight	Viscosity	Water Loss	
From	То	Туре	(ppg)	Viscosity		
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C	
Surf csg	9-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C	
7-5/8" Int shoe	Lateral TD	ОВМ	10.5 - 12	35-45	<20	

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

# 6. Logging and Testing Procedures

Logging, Coring and Testing.			
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.		
Y	No Logs are planned based on well control or offset log information.		
N ·	Drill stem test? If yes, explain.		
N	Coring? If yes, explain.		

Additional logs planned		Interval		
N	Resistivity	Pilot Hole TD to ICP		
N	Density	Pilot Hole TD to ICP		
Y	CBL	Production casing (If cement not circulated to surface)		
Υ	Mud log Intermediate shoe to TD			
N	PEX			

# 7. Drilling Conditions

Condition	Specify what type and where?		
BH Pressure at deepest TVD	7860 psi at 12595' TVD		
Abnormal Temperature	NO 180 Deg. F.		

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present	
Y	H2S Plan attached	

# 8. Other Facets of Operation

Υ	Is it a walking operation?
N	Is casing pre-set?

х	H2S Plan.
· x	BOP & Choke Schematics.
X	Directional Plan



# 1. Component and Preventer Compatibility Table

The table below covers drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. Combined with the mud program, the below documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drill pipe	4.5"	Upper 4.5-7" VBR Lower 4.5-7" VBR	10M
HWDP	4.5"		
Jars	4.875" - 5"		
Drill collars and MWD tools	4.75" - 5"		
Mud Motor	4.75"-5.875"		
Production casing	5.5" & 5"		
ALL	0- 13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart.

### 2. Well Control and Shut-In Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are minimum tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The maximum pressure at which well control is transferred from the annular to another compatible ram is 2500 psi.

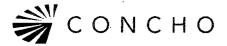
### Drilling:

- 1. Sound the alarm (alert rig crew)
- 2. Space out the drill string
- 3. Shut down pumps and stop the rotary
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm the well is shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data
  - Time of shut-in
  - SIDPP and SICP
  - Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

# **Tripping:**

- 1. Sound alarm (alert rig crew)
- 2. Stab full opening safety valve and close the valve
- 3. Space out the drill string
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data:

# Well Control Plan For 10M MASP Section of Wellbore



- Time of shut-in
- SIDPP and SICP
- Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

# **Running Casing**

- 1. Sound alarm (alert rig crew)
- 2. Stab crossover and valve and close the valve
- 3. Shut-in the well with annular with HCR and choke in closed position
- 4. Confirm shut-in
- 5. Notify contractor and company representatives
- 6. Read and record the following data
  - Time of shut-in
  - SIDPP and SICP
  - Pit gain
- 7. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 8. Prepare for well kill operation

# No Pipe in Hole (Open Hole)

- 1. At any point when pipe or BHA are not in BOP stack, well will be shut in with blind rams, HCR will be open and choke will be closed. If pressure increase is observed:
- 2. Sound alarm (alert crew)
- 3. Confirm shut-in
- 4. Notify contractor and company representatives
- 5. Read and record the following data
  - Time of shut-in
  - Time of pressure increase
  - SICP
- 6. Prepare for well kill operation

# Pulling BHA through BOP Stack

- 1. Prior to pulling last joint/stand of drillpipe through the stack, perform a flow check. If well is flowing:
  - a. Sound alarm (alert crew)
  - b. Stab full opening safety valve and close the valve
  - c. Space out drill string with tooljoint just beneath the upper pipe ram.
  - d. Shut-in the well with upper pipe ram with HCR and choke in closed position
  - e. Confirm shut-in
  - f. Notify contractor and company representatives
  - g. Read and record the following data
    - Time of shut-in
    - SIDPP and SICP
    - Pit gain
  - h. Prepare for well kill operation.



### 2. With BHA in the stack:

- a. If possible to pick up high enough, pull BHA clear of the stack
  - i. Follow "Open Hole" procedure above
- b. If impossible to pick up high enough to pull BHA clear of the stack:
  - i. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
  - ii. Space out drill string with tooljoint just beneath the upper pipe ram.
  - iii. Shut-in the well with upper pipe ram with HCR and choke in closed position
  - iv. Confirm shut-in
  - v. Notify contractor and company representatives
  - vi. Read and record the following:
    - Time of shut-in
    - SIDPP and SICP
    - Pit gain
  - vii. Prepare for well kill operation.

#### 3. Well Control Drills

Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below are minimum tasks for respective well control drills.

## Drilling/Pit:

Responsible Party
Company Representative / Rig Manager
Driller
Company Representative / Rig Manager
Driller / Crew





# Tripping Pit Drills (either in the hole or out of the hole)

Action	Responsible Party
Initiate Drill	
<ul> <li>Lift Flow Sensor or Pit Float to indicate a kick</li> <li>Immediately record start time</li> </ul>	Company Representative / Rig Manager
Recognition  • Driller recognizes indicator	
<ul> <li>Suspends tripping operations</li> <li>Conduct Flow Check</li> </ul>	Driller
Initiate Action  • Sound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager
Reaction	
<ul> <li>Position tool joint above rotary and set slips</li> <li>Stab FOSV and close valve</li> <li>Driller moves to BOP remote and stands by</li> <li>Crew is at their assigned stations</li> <li>Time is stopped</li> </ul>	Driller / Crew
Record time and drill type in the Drilling Report	

# Choke

Action	Responsible Party
<ul> <li>Have designated choke operator on station at the choke panel</li> <li>Close annular preventer</li> <li>Pressure annulus up 200-300 psi</li> <li>Pump slowly to bump the float and obtain SIDPP</li> <li>At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP.</li> <li>Allow time for the well to stabilize. Mark and record circulating drillpipe pressure.</li> <li>Measure time lag on drillpipe gauge after choke adjustments.</li> <li>Hold casing pressure constant as pumps are slowed down while choke is closed.</li> <li>Record time and drill type in the Drilling Report</li> </ul>	Company Man / Rig Manager & Rig Crew



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

SUPO Data Report

**APD ID:** 10400025343

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

Submission Date: 12/08/2017

Highlighted data reflects the most

recent changes

**Show Final Text** 

Well Work Type: Drill

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

COG\_Dominator\_Existing\_Rd\_20171121094216.pdf

**Existing Road Purpose: ACCESS** 

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:** 

COG\_Dominator\_707H\_Roads\_20171208065512.pdf

New road type: TWO-TRACK

Length: 11277.3

Feet

Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

**ACOE Permit Number(s):** 

New road travel width: 14

**New road access erosion control:** Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned. Re routing access road around proposed well location.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

# **Drainage Control**

New road drainage crossing: OTHER

Drainage Control comments: None necessary.

Road Drainage Control Structures (DCS) description: None needed.

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:

COG\_Dominator\_707H\_1Mile\_Data\_20171208065534.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:** Production will be sent to the Dominator 25 Federal CTB 2 facility. A surface flow line of approximately 57.8' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 2 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 2 to the multiple well pad that includes the Dominator 25 Federal Com #105H, #305H, #405H, #606H; #708H and #707H wells. The surface Gas Lift Gas pipe of approximately 57.8' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road.

**Production Facilities map:** 

COG\_Dominator\_CTB\_2\_20171205083713.pdf

COG\_Dominator 707H Flowlines 20171208065550.pdf

COG\_Dominator\_707H\_Prod\_Facil\_20171208065559.pdf

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

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

## **Water Source Table**

Water source use type: INTERMEDIATE/PRODUCTION CASING

Water source type: OTHER

Describe type: Brine Water.

Source latitude:

Source longitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT, PRIVATE

CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: TRUCKING,TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 15000 Source volume (acre-feet): 1.9333965

Source volume (gal): 630000

Water source use type: STIMULATION, SURFACE CASING Water source type: OTHER

Describe type: Fresh Water.

Source datum:

Source datum:

Source latitude:

Water source permit type: PRIVATE CONTRACT, PRIVATE

CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE, PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 225000 Source volume (acre-feet): 29.000946

Source volume (gal): 9450000

### Water source and transportation map:

COG Dominator Frac Pond 20171127081721.pdf

COG\_Dominator\_707H\_BrineH2O\_20171208065617.pdf

COG\_Dominator\_707H\_FreshH2O\_20171208065624.pdf

**Water source comments:** Fresh water will be obtained from the C-01285 Dinwiddle Cattle Co Water Well located in Section 5, T26S, R36E. The water will be stored in the proposed Dominator 25 Federal Frac Pond located in section 25, T25S. R33E. Brine water will be obtained from the Malaga II Brine station located in Section 12. T23S. R28E.

New water well? NO

# **New Water Well Info**

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

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:

State appropriation permit:

Additional information attachment:

## Section 6 - Construction Materials

Construction Materials description: Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be purchased from approved BLM federal pit located in Section 23. T25S. R33E.

**Construction Materials source location attachment:** 

# Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil and water during drilling and completion operations

Amount of waste: 6000

Waste disposal frequency: One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 250

gallons

Waste disposal frequency: Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal

facility

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 125 pc

pounds

Waste disposal frequency: Weekly

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a

trash container and disposed of properly at a state approved disposal facility

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an 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**

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Roll off cuttings containers on tracks

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

Well Name: DOMINATOR 25 FEDERAL COM Well Number: 707H

Cuttings area liner specifications and installation description

# **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: YES

**Ancillary Facilities attachment:** 

COG Dominator 707H GCP 20171208065823.pdf

Comments: GCP Attached

# Section 9 - Well Site Layout

# Well Site Layout Diagram:

COG\_Dominator\_CTB\_2\_20171128113705.pdf

COG\_Dominator\_707H\_Flowlines\_20171208065836.pdf

COG\_Dominator\_707H\_Prod\_Facil\_20171208065845.pdf

Comments: Production will be sent to the Dominator 25 Federal CTB 2 facility. A surface flow line of approximately 57.8' of 3.5" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will follow the road to the facility at the Dominator 25 Federal CTB 2 location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Dominator 25 Federal CTB 2 to the multiple well pad that includes the Dominator 25 Federal Com #105H, #305H, #405H, #606H, #708H and #707H wells. The surface Gas Lift Gas pipe of approximately 57.8' under a maximum pressure of 125 psi will be installed no farther than 10 feet from the edge of the road.

#### Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DOMINATOR 25 FEDERAL COM

Multiple Well Pad Number: 105H, 305H, 405H, 606H, 708H AND

707H

#### Recontouring attachment:

**Drainage/Erosion control construction:** Due to the flat topography of this location and the stockpiling of the topsoil on the east side of the location, no erosion control is necessary.

Drainage/Erosion control reclamation: Reclaim the east side 80'.

Well pad proposed disturbance

(acres): 3.67

Road proposed disturbance (acres):

2.9

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0.01

Other proposed disturbance (acres):

22.96

Total proposed disturbance: 29.54

Well pad interim reclamation (acres):

0.73

Road interim reclamation (acres): 2.9

Powerline interim reclamation (acres):

Ω

Pipeline interim reclamation (acres):

0.01

Other interim reclamation (acres): 0

Total interim reclamation: 3.64

Well pad long term disturbance

(acres): 2.94

Road long term disturbance (acres):

2.9

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0.01

Other long term disturbance (acres):

22.96

Total long term disturbance: 28.81

Reconstruction method: New construction of pad.

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

Topsoil redistribution: East.

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

**Existing Vegetation Community at the road attachment:** 

Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland

**Existing Vegetation Community at the pipeline attachment:** 

Existing Vegetation Community at other disturbances: N/A

**Existing Vegetation Community at other disturbances attachment:** 

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

# **Seed Management**

# **Seed Table**

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

**Seed Summary** 

**Seed Type** 

Pounds/Acre

Total pounds/Acre:

#### Seed reclamation attachment:

# **Operator Contact/Responsible Official Contact Info**

First Name: Rand

Last Name: French

Phone: (432)254-5556

Email: rfrench@concho.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: N/A

Weed treatment plan attachment:

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COG\_Dominator\_707H\_Closed\_Loop\_20171208065858.pdf

# 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:** 

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 707H

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):

**ROW Applications** 

**SUPO Additional Information:** 

Use a previously conducted onsite? YES

**Previous Onsite information**: Onsite completed on 10/5/2017 by Rand French (COG); Gerald Herrera (COG) and Jeff Robertson (BLM).

**Other SUPO Attachment** 

COG\_Dominator\_707H\_Certif\_20171208065915.pdf



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

# PWD Data Report 04/13/2018

## 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 3 - Unlined Pits

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options?  $\ensuremath{\mathsf{NO}}$ 

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 Dissorthat of the existing water to be protected?	olved 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 disturbance (acres): 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:



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

# Bond Info Data Report 04/13/2018

# **Bond Information**

Federal/Indian APD: FED

**BLM Bond number: NMB000215** 

**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: