Form 3160 -3 (March 2012) UNITEI DEPARTMENT BUREAU OF L/ APPLICATION FOR PER Ia. Type of work: DRILL	OCD	Hobh	5°	018	FORM OMB Expires	1 APPROVEE No. 1004-0137 October 31, 20	
	OF THE INTER	RIOR A	PR 30	NE	5. Lease Serial No.	$\overline{\boldsymbol{\boldsymbol{\boldsymbol{\sum}}}}$	
APPLICATION FOR PER	RMIT TO DRIL	L OR REEN	RECE		6. If Indian, Alloted	e or Tribe N	ame
Ia. Type of work: I DRILL	REENTER		-		7. If Unit or CA Age	reement, Nan	ne and No.
	<u> </u>	Single Zone	Multipl	e Zone	8. Lease Name and DOMINATOR 25 9. APP Well-No.		COM 708H
·····	2-29/37)			\square	30025-	- 44	730
3a. Address 600 West Illinois Ave Midland TX 75		nonc No. (include a 2)683-7443	rea code)	BOACK	10. Field and Pool, or WILDCAT / WOLF		(98094
 Location of Well (Report location clearly and in according At surface SESW / 280 FSL / 2642 FWL / LA At proposed prod. zone NENW / 200 FNL / 225 	T 32.095025 / LC	ONG -103.5260			11. Sec., T. R. M. or 1 SEC 25 / T25S / F		-
14. Distance in miles and direction from nearest town or p 19 miles	ost office*	//			12. County or Parish LEA	1	13. State NM
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 	16. N 360	No of acres in leas	e	17. Spacin 160	g Unit dedicated to this	well	<u> </u>
 Distance from proposed location* to nearest well, drilling, completed, 738 feet applied for, on this lease, ft. 		Proposed Depth 14 feet / 17667	\checkmark		BIA Bond No. on file 18000215		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3338 feet		Approximate, date v 01/20/18	vork will start	*	23. Estimated durati 30 days	on	
//		Attachments					
 The following, completed in accordance with the requirem Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National F SUPO must be filed with the appropriate Forest Service 	orest System Lands,	4. Bon Item the 5. Ope	d to cover th 1 20 above). rator certifica th other site s	e operation	s form: ns unless covered by a prmation and/or plans a		·
25. Signature (Electronic Submission)		Name (Printed/T Mayte Reyes		748-6945		Date 12/08/2	017
Title Regulatory Analyst							
Approved by (Signature) (Electronic Submission)		Name (Printed/1 Cody Layton /		34-5959		Date 04/09/2	2018
Title Supervisor Multiple Resources	:	Office CARLSBAD				-	
Application approval does not warrant or certify that the a conduct operations thereon.) Conduct operations thereon.)	applicant holds legal	or equitable title	to those right	s in the sub	ject lease which would	entitle the ap	oplicant to

ontinued on page 2)	04/30/18	- 01/6	*(Instructions on page 2)
	(appAVE)	WITH CONDITIONS	04/04/18
	APPNOVAL Approval E	Date: 04/09/2018	h N

Don't here

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.

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.

NOTIČES

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service 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)

Approval Date: 04/09/2018

Additional Operator Remarks

Location of Well

SHL: SESW / 280 FSL / 2642 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095025 / LONG: -103.526064 (TVD: 0 feet, MD: 0 feet, MD: 15200 feet)
 PPP: SENW / 2640 FNL / 2250 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.101508 / LONG: -103.527332(TVD: 12736 feet, MD: 15200 feet)
 PPP: SESW / 330 FSL / 2250 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.095162 / LONG: -103.52733 (TVD: 1500 feet, MD: 1500 feet)
 BHL: NENW / 200 FNL / 2250 FWL / TWSP: 25S / RANGE: 33E / SECTION: 25 / LAT: 32.108214 / LONG: -103.52733 (TVD: 12714 feet, MD: 17667 feet)

BLM Point of Contact

Name: Sipra Dahal Title: Legal Instruments Examiner Phone: 5752345983 Email: sdahal@blm.gov

Review and Appeal Rights

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

FMSS

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



Operator Certification

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

NAME: Mayte Reyes

Title: Regulatory Analyst

Street Address: 2208 W Main Street

City: Artesia

State: NM

State: NM

Phone: (575)748-6945

Email address: Mreyes1@concho.com

Field Representative

Representative Name: Rand French

Street Address: 2208 West Main Street

City: Artesia

Phone: (575)748-6940

Email address: rfrench@concho.com

Signed on: 12/07/2017

Zip: 88210

Zip: 88210

FMSS

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

APD ID: 10400025338

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

Submission Date: 12/08/2017

Well Number: 708H Well Work Type: Drill Highlighted data reflects the most recent changes

04/17/2018

Show Final Text

Section 1 - General		
APD ID: 10400025338	Tie to previous NOS?	Submission Date: 12/08/2017
BLM Office: CARLSBAD	User: Mayte Reyes	Title: Regulatory Analyst
Federal/Indian APD: FED	Is the first lease penetra	ted 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 agreen	nent:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: COG OPE	ERATING LLC
Operator letter of designation:		
Operator Info		
Operator Organization Name: COG OPER	ATING 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 nam	e:
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: 708H	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

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#1

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

_		_		_						•								
			miner					_										_
						-	uctio	n area?	N Use E						surface d			
Туре	ofW	ell Pa	d: MU	LTIPL	.E WE	LL				Die Well Pa NATOR 25					er: 105H 708H At			ъ́Н,
Well	Class	: HOF	RIZON	ITAL						per of Leg				,				
Well	Work	Туре	: Drill															
Well	Type	OIL	NELL															
Desc	ribe V	Vell T	ype:															
Well	sub-T	ype:	EXPL	ORAT	ORY	(WILE	CAT)										
Desc	ribe s	ub-ty	pe:															
Dista	ance t	o tow	n: 19	Miles			Dis	tance to	nearest v	veli : 738 F	Т	Dist	ance t	o le	ase line	: 200 I	FT	
Rese	ervoir	well s	spacin	ıg ass	ignec	l acre	s Me	asurem	ent: 160 A	cres								
Well	plat:	СС	DG_Do	ominat	tor_70	08H_C	:102_	201712	07160940.	pdf								
Well	work	start	Date:	03/01	/2018				Durat	ion: 30 DA	AYS							
	Sec	tion	3 - V	Vell	Loca	atior	Tal	ole										
Surv	ey Ty	pe: RI	ECTAI	NGUL	AR				,									
Desc	ribe S	Survey	у Туре	e:														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88			χ.			
Surv	ey nu	mber:																
		[[<u></u>			_				L			<u> </u>
		tor		tor				t/Tra							mber			
	oot	NS Indicator	oot	EW Indicator		e	5	Aliquot/Lot/Tract	de de	tude	₹		lian	Type	Lease Number	tion		
	NS-Foot	IS In	EW-Foot	N I	Twsp	Range	Section	Alique	Latitude	Longitude	County	State	Meridian	ease Type	ease	Elevation	QW	
SHL	280	FSL	264	FWL	25S	33E	25	Aliquot	32.09502		LEA	NEW		F		333	 0	0
Leg			2					SESW		103.5260			MEXI		121958	8		
#1	000		004		050	005	05	Alignet	22.00500	64		CO	CO			222		
KOP Leg	280	FSL	264 2	FWL	255	33E	25	Aliquot SESW	32.09502 5	- 103.5260	LEA		NEW MEXI		NMNM 121958		0	0
#1										64		со	со					
PPP	330	FSL		FWL	25S	33E	25	Aliquot	32.09516	1	LEA	1	NEW	1	NMNM	183	150	15
Leg #1			0					SESW	2	103.5273 3		CO	MEXI CO		121958	ŏ	0	0

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

						-	: :											
	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	TVD
PPP Leg #1	264 0	FNL	225 0	FWL	25S	33E	25	Aliquot SENW	32.10150 8	- 103.5273 32	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 114987	- 939 8	152 00	127 36
EXIT Leg #1	330	FNL	225 0	FWL	25S	33E	25	Aliquot NENW	32.10785 7	- 103.5273 34	LEA	l	NEW MEXI CO	F	NMNM 121958	- 937 7	175 00	127 15
BHL Leg #1	200	FNL	225 0	FWL	25S	33E	25	Aliquot NENW	32.10821 4	- 103.5273 34	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 121958	- 937 6	176 67	127 14

FAFMSS

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

Drilling Plan Data Report

APD ID: 10400025338

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

04/17/2018

Show Final Text

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Well Number: 708H Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	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		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

Page 1 of 7

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

Pressure Rating (PSI): 10M Rating Depth: 12714

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_708H_10M_Choke_20171207161600.pdf

BOP Diagram Attachment:

COG_Dominator_708H_Flex_Hose_20171207161436.pdf

COG_Dominator_708H_10M_BOP_20171207161606.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_708H_5M_Choke_20171207161459.pdf

BOP Diagram Attachment:

COG Dominator 708H 5M BOP 20171207161505.pdf

COG_Dominator_708H_Flex_Hose_20171207161512.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

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		- 20153	11821	Р- 110		OTHER - BTC	1.28	1.03	DRY	3.09	DRY	3.09
_	PRODUCTI ON	6.75	5.0	NEW	API	N	0	17667	0	17667	-8653	- 21064	17667	P- 110		OTHER - BTC	1.83	1.9	DRY	3.19	DRY	3.19

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Dominator_708H_CasingRpt_20171207161646.pdf

4	
Operator Name: COG OPERATING	LLC
Well Name: DOMINATOR 25 FEDE	RAL COM Well Number: 708H
Casing Attachments	
	g Type:INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
COG_Dominator_708H_C	asingRpt_20171207161654.pdf
Casing Design Assumptions a	nd Worksheet(s):
COG_Dominator_708H_C	asingRpt_20171207161659.pdf
Casing ID: 3 String	g Type:PRODUCTION
Inspection Document:	
Spec Document:	

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

, COG_Dominator_708H CasingRpt_20171207161751.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	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	1766 7	170	2.5	11.9	425	35	Lead: 50:50:10 H Blend	As needed

Page 4 of 7

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	1766 7	670	1.24	14.4	830	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

[·	t)				1	
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gał)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (Ibs/100 sqft)	НЧ	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1182 1	1766 7	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

Circulating Medium Table

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

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: 7935

Anticipated Surface Pressure: 5133.08

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_708H_H2S_Schem_20171207161947.pdf COG_Dominator_708H_H2S_SUP_20171207161953.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Dominator_708H_AC_Rpt_20171207162014.PDF COG_Dominator_708H_DirectRpt_20171207162030.pdf

Other proposed operations facets description:

Drilling Program Attached

Other proposed operations facets attachment:

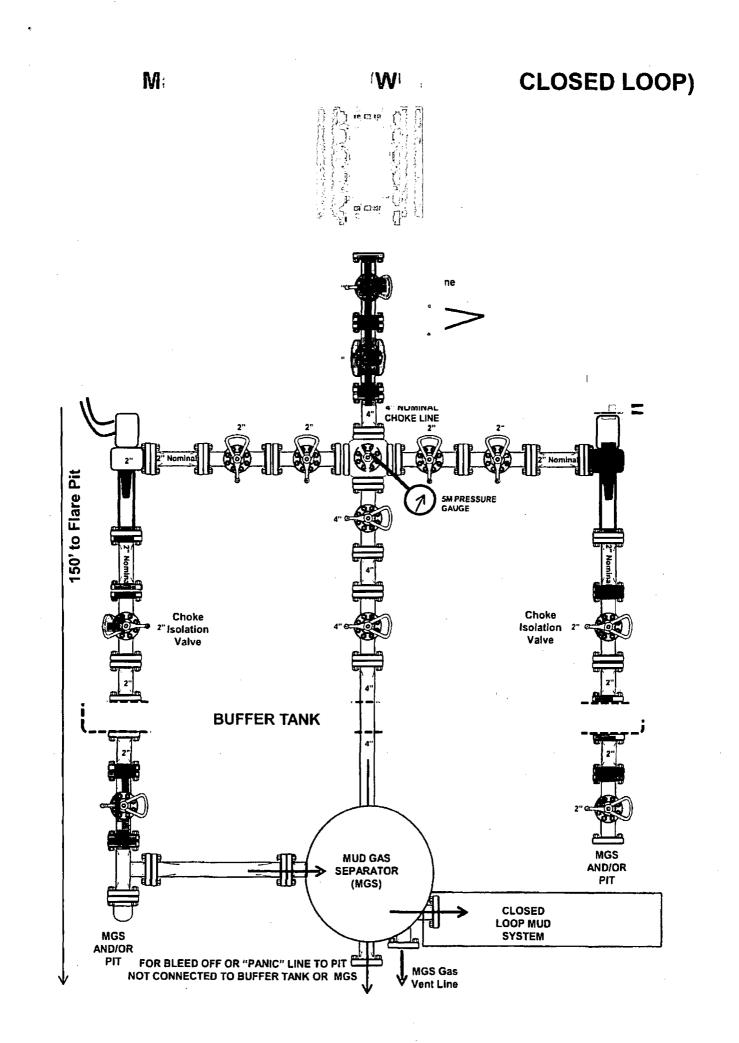
COG_Dominator_708H_Drill_Rpt_20171207162039.pdf

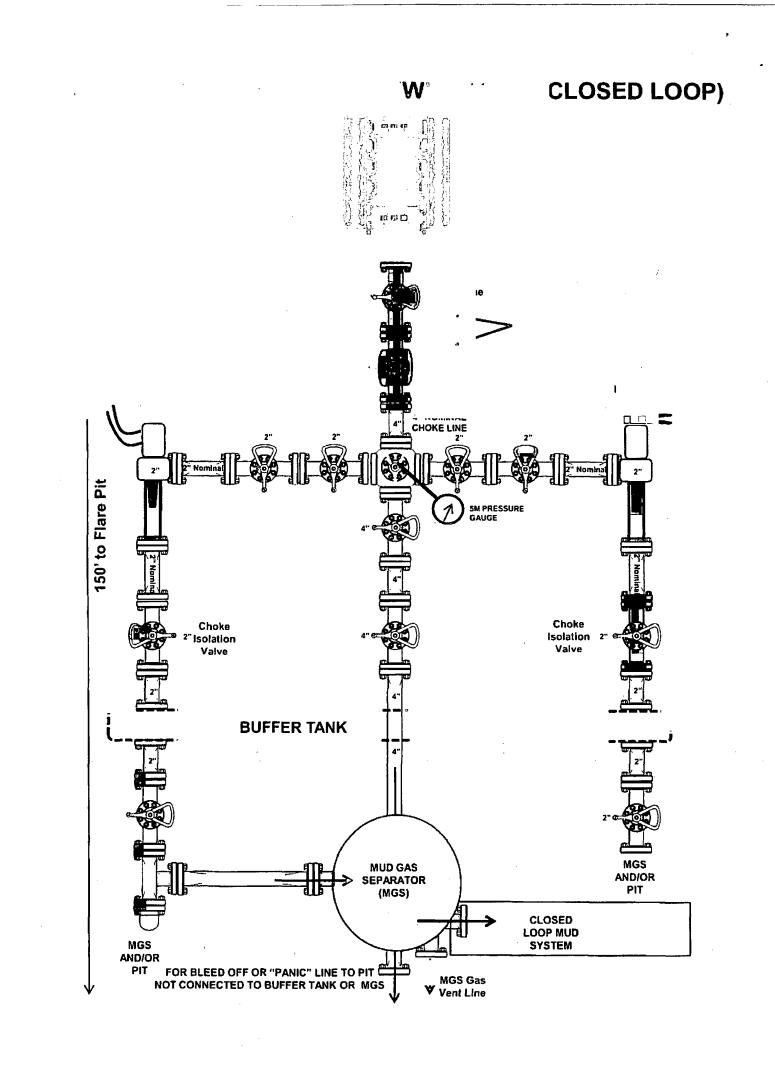
Other Variance attachment:

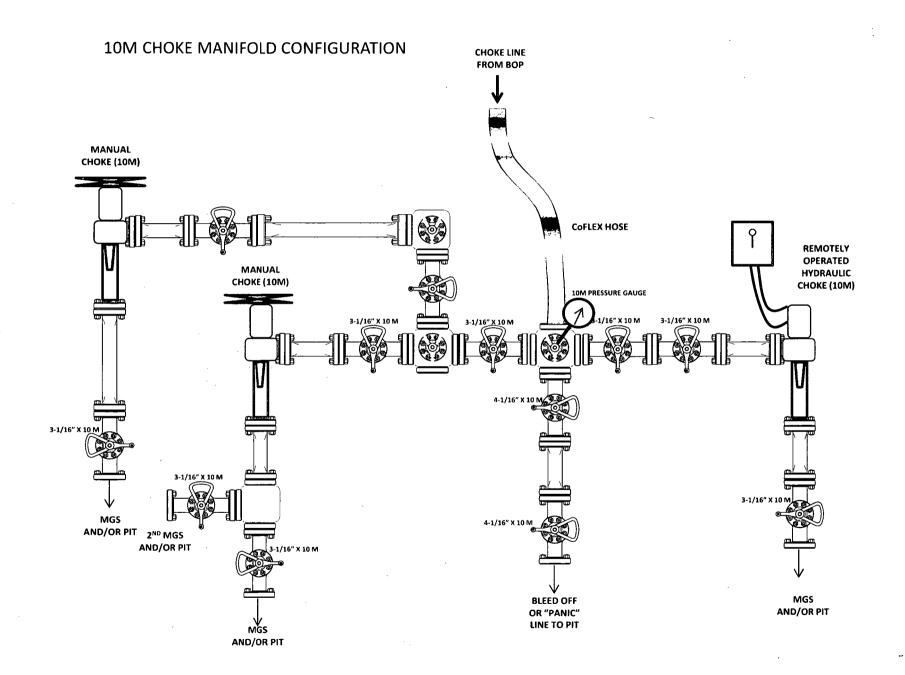
COG_6.75_5M_Variance_WCP_20171205152749.pdf

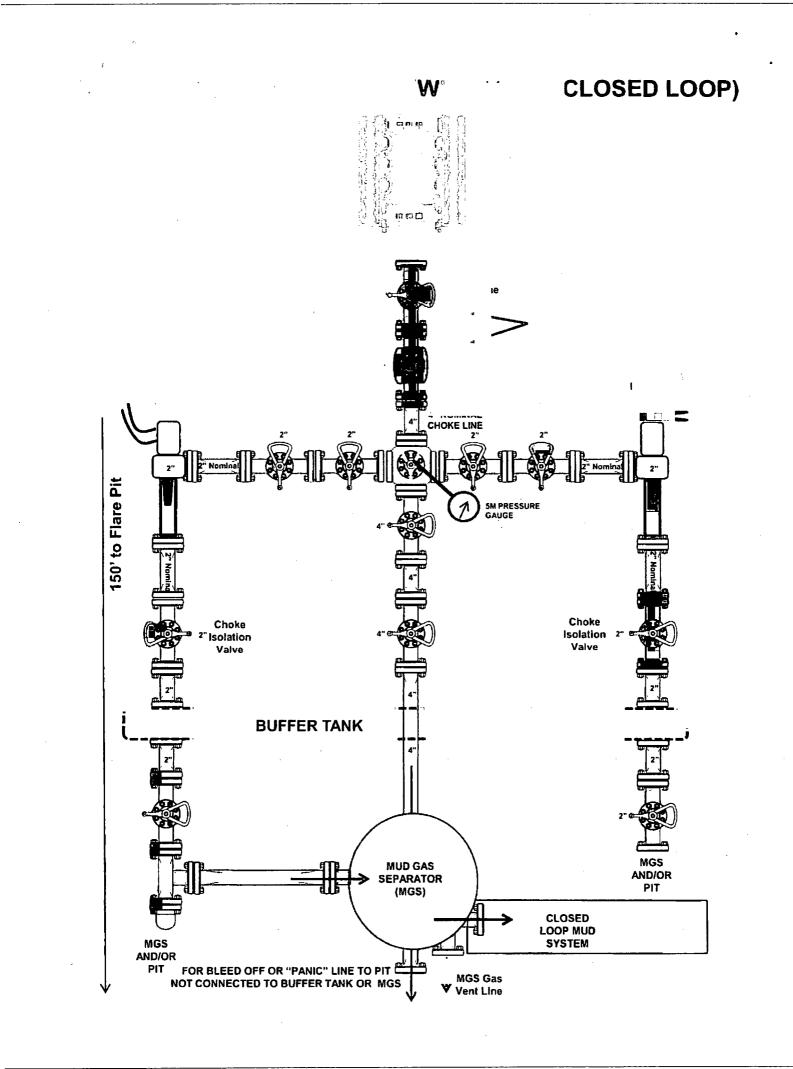
. .

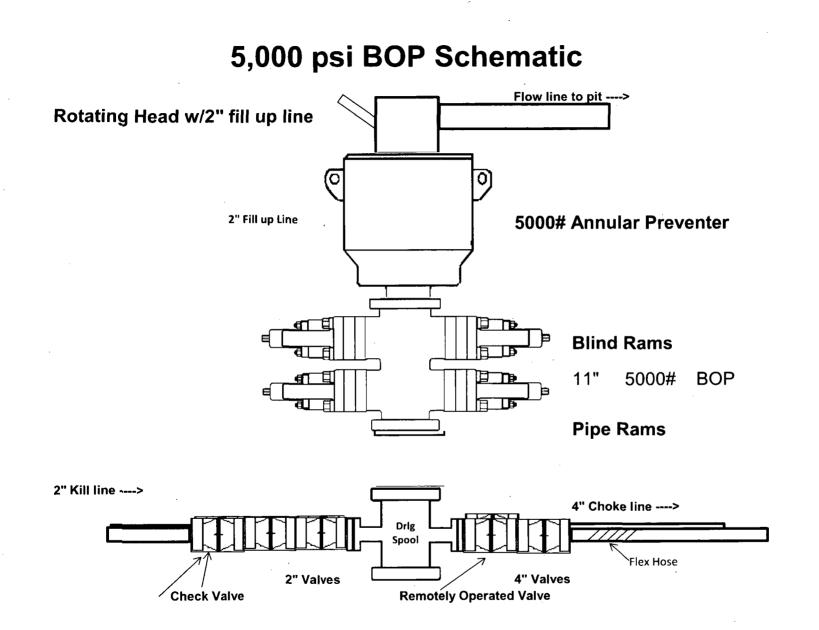
. .



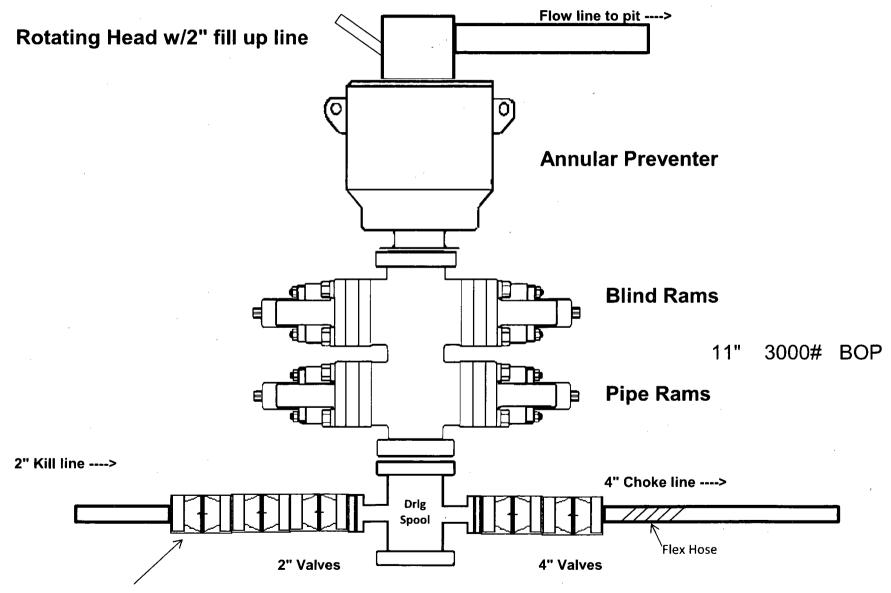








3,000 psi BOP Schematic



Check Valve

1. Geologic Formations

TVD of target	12,714' EOL	Pilot hole depth	NA
MD at TD:	17,667'	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

	Int	ising erval	0	Weight	Weight (Ibs) Grade	Grade Conn.	SF	SF Burst	SF
Hole Size	From	То	Csg. Size	(lbs)			Collapse		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	BTC	1.28	1.03	3.09
6.75"	0	11321	5.5"	23	P110	BTC	1.83	1.90	3.19
6.75"	11321	17,667	5"	18	P110	втс	1.83	1.90	3.19
				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.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
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).	Y
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 rd 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?	
Is 2 nd string set 100' to 600' below the base of salt?	
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	YId ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Curf	160	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Surf. 250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2	
Inter	970	10.3	3.6	21.48	16	Tuned Light Blend
Inter.	250	16.4	1.08	4.32	8	Tail: Class H
Prod	170	11.9	2.5	19	72	Lead: 50:50:10 H Blend
FIOU	670	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	тос	% Excess	
Surface	0'	50%	
1 st Intermediate	0'	50%	
Production	11,321'	35% OH in Lateral (KOP to EOL)	

4. Pressure Control Equipment

NI	A variance is requested for the use of a diverter on the surface casing.
IN	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*			
			Ann	ular	x	50% testing pressure
6-3/4"	13-5/8"	10M	Blind	Ram	х	
			Pipe	Ram	х	10M
			Double	e 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	
From	То	Туре	(ppg)	viscosity	Water Loss
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	OBM	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

Г

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.				
Ν	Drill stem test? If yes, explain.				
Ν	Coring? If yes, explain.				

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

٦

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7935 psi at 12714' 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	ls casing pre-set?

X	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"		
HWDP	4.5"		
Jars	4.875" - 5"	Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75" - 5"	Lower 4.5-7" VBR	10101
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:



- 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:

Action	Responsible Party
Initiate Drill	
 Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time 	Company Representative / Rig Manager
Recognition	
 Driller and/or Crew recognizes indicator Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary Conduct flow check 	Driller •
Initiate ActionSound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager
Reaction	
 Driller moves BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report 	Driller / Crew



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

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

Choke

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

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

APD ID: 10400025338

Operator Name: COG OPERATING LLC

Well Name: DOMINATOR 25 FEDERAL COM

Well Type: OIL WELL

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_708H_Roads_20171207162056.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:

Highlighted data reflects the most recent changes

04/17/2018

Show Final Text

Submission Date: 12/08/2017

Well Number: 708H Well Work Type: Drill

SUPO Data Report

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

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_708H_1Mile_Data_20171207162109.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_708H_Flowlines_20171207162124.pdf

COG_Dominator_708H_Prod_Facil_20171207162131.pdf

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

Water Source Table	
Water source use type: INTERMEDIATE/PRODUCTION CASING	Water source type: OTHER
Describe type: Brine Water.	
Source latitude:	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 latitude:	Source longitude:
Source datum:	
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	

COG_Dominator_Frac_Pond_20171127081721.pdf COG_Dominator_708H_BrineH2O_20171207162152.pdf COG_Dominator_708H_Fresh_H2O_20171207162202.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:

Operator Name: COG OPERATING LLC Vell Name: DOMINATOR 25 FEDERAL COM	Well Number: 708H
Est. depth to top of aquifer(ft): Aquifer comments: Aquifer documentation:	Est thickness of aquifer:
/ell depth (ft):	Well casing type:
ell casing outside diameter (in.):	Well casing inside diameter (in.):
ew water well casing?	Used casing source:
rilling method:	Drill material:
rout material:	Grout depth:
asing length (ft.):	Casing top depth (ft.):
ell Production type:	Completion Method:
ater well additional information:	
te appropriation permit:	
ditional 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 barrels

Waste disposal frequency : One Time Only

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

Safe containmant 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: 708H

Safe containmant 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 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 containmant 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

WCuttings area 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 cutting	s 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?	

Page 5 of 10

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: YES

Ancillary Facilities attachment:

COG_Dominator_708H_GCP_20171207162220.pdf

Comments: GCP Attached

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG_Dominator_CTB_2_20171128113705.pdf

COG_Dominator_708H_Flowlines_20171207162233.pdf

COG_Dominator_708H_Prod_Facil_20171207162241.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): 0 Pipeline interim reclamation (acres): 0.01 Other interim reclamation (acres): 0 Total interim reclamation: 3.64	(acres): 2.94 Road long term disturbance (acres):
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------

Reconstruction method: New construction of pad.

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

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 name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Seed source:

Source address:

Proposed seeding season:

Well Name: DOMINATOR 25 FEDERAL COM

Well Number: 708H

Seed Summary
Seed Type Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Rand

Phone: (432)254-5556

Last Name: French

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_708H_Closed_Loop_20171207162252.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: 708H

State Local Office: Military Local Office: USFWS Local Office: Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Use APD as ROW?

Section 12 - Other Information

Right of Way needed? NO

ROW Type(s):

ROW Applications

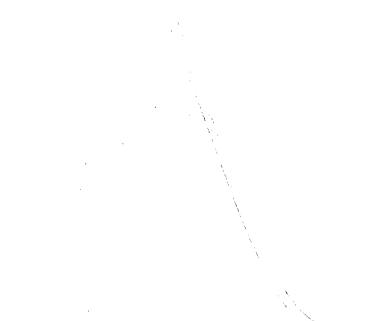
SUPO Additional Information:

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).

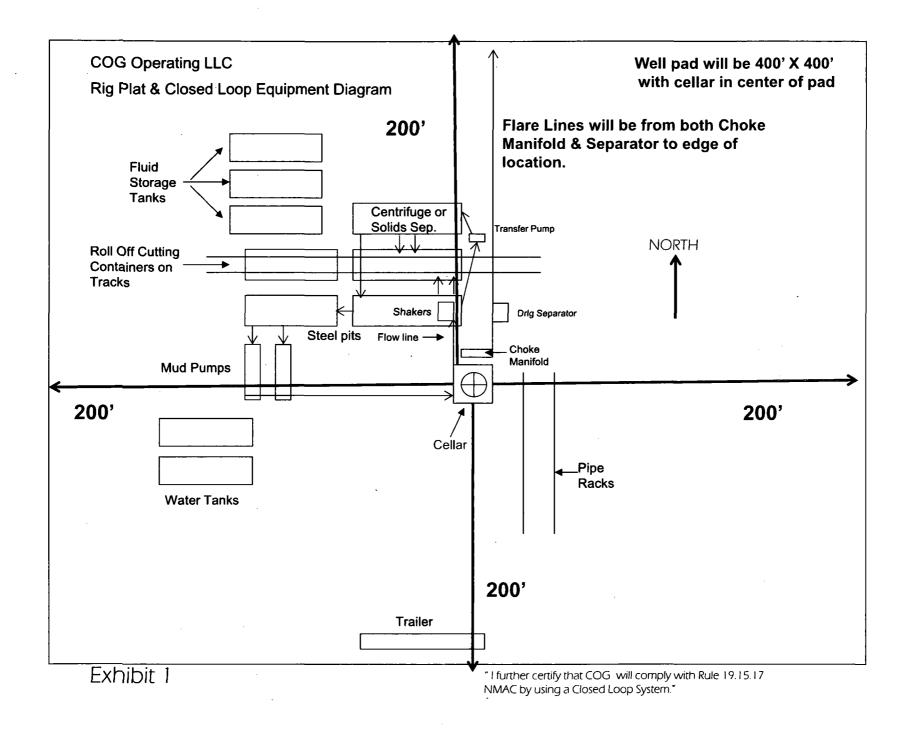
Other SUPO Attachment

COG_Dominator_708H_Certif_20171207162310.pdf



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× 2.



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ERATOR CERTIFICATION

Inder my direct supervision, have inspected the drill site and I am familiar with the conditions that presently exist; that I and Federal laws applicable to this operation; that the statements e, to the best of my knowledge, true and correct; and that the work s proposed herein will be performed in conformity with this APD inditions under which it is approved. I also certify that I, or COG ble for the operations conducted under this application. These provisions of 18 U.S.C. 1001 for the filing of false statements.

ed this

t, Artesia, NM 88210

ove signatory): Rand French E-mail: <u>ncho.com</u>



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

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

PWD Data Report

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):

finjection 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):

FMSS

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

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:

04/17/2018

Bond Info Data Report