Form 3160-5 (August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD ARRESTA

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5.	Lease Serial No.
	NMNM103595

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.

abandoned we	II. Use form 3160-3 (APL	O) for such proposals	5.	6. If Indian, Allottee	or Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	tions on reverse side). ¦	7. If Unit or CA/Agre	ement, Name and/or No.
I. Type of Well ☑ Oil Well ☐ Gas Well ☐ Oth	8. Well Name and No. CALI ROLL 24 Ft	EDERAL COM 2H ·			
Name of Operator COG OPERATING LLC	9. API Well No. 30-015-39388-0	00-X1			
3a. Address ONE CONCHO CENTER 600 MIDLAND, TX 79701) W ILLINOIS AVENUE	ea code)	10. Field and Pool, or WILDCAT	Exploratory	
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description)			11. County or Parish,	and State
Sec 24 T26S R25E NENE 330	FNL 430FEL			EDDY COUNT	Y, NM
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, I	REPORT, OR OTHE	R DATA
TYPE OF SUBMISSION		T	YPE OF ACTION		
Notice of Intent	□ Acidize	Deepen	□ Produc	ction (Start/Resume)	■ Water Shut-Off
_	☐ Alter Casing	☐ Fracture Treat	☐ Reclar	nation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New Construct		•	Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Aban	_	orarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	☐ Water	Disposal	•
COG Operating LLC, respectfu original approved APD.	NM OIL CONSE ARTESIA DIST JUN 29 2	RVATION (STRICT)	SEE ATTA CONDITIO	CHED FOR ONS OF APPR	
			U	NMOCD /	PI DOIS
	Electronic Submission #30 For COG OP tted to AFMSS for processi	ERATING LLC, sent to ng by JENNIFER SANC	the Carlsbad HEZ on 06/24/201	5 (15JAS0413SE)	
Name(Printed/Typed) MAYTE X	15150	Title R	EGULATORY AN	A DAD OVE	
Signature (Electronic St	bmission)	Date 0	6/24/2015	APPRUVE	
	THIS SPACE FOR	R FEDERAL OR ST	ATE OFFICE U	SE/	
Approved By		Title		1 2 1 20 X	March M
Conditions of approval, if any, are attached certify that the applicant holds legal or equi which would entitle the applicant to conduc	table title to those rights in the si t operations thereon.	ubject lease Office		CALLSBAD FIELD OFF	EMENT
Title 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent sta	S.C. Section 1212, make it a critements or representations as to	ime for any person knowing any matter within its juriso	gly and willfully to m liction.	ake to any department of a	gency of the United

COG Operating LLC, Cali Roll 24 Federal 2H

COG, Operating, LLC respectfully requests the following modifications to the approved drilling plan based on recently drilled offsets.

Geologic Formations

TVD of target	8070'	Pilot hole depth	NA
MD at TD:	17868'	Deepest expected fresh water:	50'

Casing Program

Hole	Casin	g In	terval	Csg.	Weight	Grade :	Conn.
Size	From		To "	Size	(lbs)		
12.25"	0'	1500	1640'	9-5/8"	36	J55	LTC
, 8.75"	0'		17868'	5-1/2"	17	P110	BTC

Cementing Program

Casing	# Sks	Wt: lb// gal	ft3/	H ₂ 0 gal/sk		Slurry Description
Inter.	345	13.5	1.75	9.2	13	Lead: Class C + 4% Gel + 1% CaCl2
	200	14.8	1.34	6.4	6	Tail: Class C + 1% CaCl2
Prod.	730	10.3	3.52	21.3	75	Lead: Halliburton Tuned Lite w/ 2# kolseal, 1.5# salt, 1/4# D-Air 5000, 1/8# PEF, etc
	2450	14.4	1.25	5.7	22	Tail:50:50:2 H blend (FR, Retarder, FL adds as necessary)

Casing String	Market STOC And Advantage of the Control of the Con	% Excess
Intermediate	0'/	83%
Production	*1340'5	35%
	. /	

^{*}Production cement is designed to overlap into intermediate casing 300'.

Pilot hole depth: NA

KOP: <u>7593'</u>

COG Operating LLC, Cali Roll 24 Federal 2H

N-	Formation integrity test will be performed per Onshore Order #2.							
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or							
ļ	greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in							
ĺ	accordance with Onshore Oil and Gas Order #2 III.B.1.i.							
	· ·							
	•							
	A variance is requested for the use of a flexible choke line from the BOP to Choke							
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.							

Is this a walking operation? Yes. Will walk to and drill Glacier Federal Com 1H after this well.

Will be pre-setting casing? No.

Will well be hydraulically fractured? Yes.

· Attachments

- Revised Directional Plan
- Flex hose certification



COG Operating, LLC

Eddy County, NM (NAD 83) Sec 24, T26S, R25E Cali Roll 24 Federal Com #2H

Wellbore #1

Plan: Design #2

DDC Well Planning Report

25 March, 2015







Compass Database: Company: COG Operating, LLC Eddy County, NM (NAD 83) Project: Sec 24, T26S, R25E Site: Well: Wellbore:

Cali Roll 24 Federal Com #2H Wellbore⁵#1 Design #2

Local Co ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83)

Map System: Geo Datum:

Map Zone:

Design:

US State Plane 1983 North American Datum 1983

System Datum:

Mean Sea Level

New Mexico Eastern Zone

Site Sec 24, T26S, R25E

Site Position:

Northing:

376,201.46 usft

Latitude:

32° 2' 3.327 N

Map

Easting:

538,606.31 usft

Longitude:

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16 "

Grid Convergence:

104° 20' 31.730 W

0.00°

Well Cali Roll 24 Federal Com #2H Well Position +N/-S 0.0 usft Northing: 376,201.46 usft Latitude: 32° 2' 3.327 N +E/-W 0.0 usft Easting: 538,606.31 usft Longitude: 104° 20' 31.730 W 0.0 usft Wellhead Elevation: 0.0 usft **Position Uncertainty** Ground Level: 3,547.0 usft

Wellbore Wellbore #1 Magnetics IGRF2010 5/7/2014 7.57

Design) 2015 Audit Notes: Phase: PLAN Version: Tie On Depth: 0.0 Depth From (TVD) (usft) Vertical Section: (üsft) (usft) (:)0.0 0.0 0.0 179,68

Plan Sections Measured Depth (usft)	inclination (°)	Azimuth	Vertical Depth (usft)	+N/ <u>-</u> Si -(usn)	+E	I/W isft)	Dogleg Rate (7/100usft)	Build Rate (*/100usft)	Turn Rate (*/100usft)	TFO)	Jarget
0.0	. 0.00	0.00	0.0	0.0		0.0	0.00	0.00	0.00	0.00	
7,593.2	0,00	0.00	7,593.2	0.0		0.0	0.00	0.00	0.00	0.00	
8,369.2	93.12	179.68	8,070.0	-503.4		2.8	12.00	12.00	23.16	179.68	
12,872.4	93.12	179.68	7,825.0	-4,999.9	•	27.9	0.00	0.00	0.00	. 0.00	Intermediate Target C
12,957.4	91.42	179.68	7,821.6	-5,084.8		28.4	2.00	-2.00	0.00	179.93	
17,868.2	91.42	179.68	7,700.0	-9,994.0		55.6	0.00	0.00	0.00	0:00	PBHL Cali Roll 24 Fed





Database
Company
Project: Eddy County, N
Site: Sec 24, T26S,
Well Call Roll:24 Fer
Wellbore: Wellbore:#1
Design: Design:#2 COG Operating, LLC Eddy County, NM (NAD 83)

Sec 24, T26S, R25E

Call Roll 24 Federal Com #2H

Local Co-ordinate Reference: TVD Reference:

MD/Reference: North Reference Survey Calculation Method:

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Grid

Design:	#{ Design #2		استعمال أنف والنساب		"我们是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
Planned Survey	17.31	No.	and the second	61 THE T 15 TREET	are the same and t		WE'RE STREET	**: ***	
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		1. 18 2. 4	KELLES SA	The same of the	· 通子的 1000	Vertical		in the S	
Measured			Vertical	Programme of the second se			Doğleğ 🔭	Build'	Turn
Depth 🛬 -	Inclination	Azimuth	• Depth.	+N/S	, te/W	Section	Rate	Rate	Rate
(usft)	(1)	(2)	- (usft)	(usft)	(usft)	(usft)	(°/100üsft);	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler							,		
65.0	0.00	0.00	65.0	0.0	0.0	0,0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0 ·	0.00	0.00	0.00
000.0	0.00	0.00					-,	****	
TOS			•						
389.0	0.00	0.00	389.0	0.0	0.0	· 0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	. 500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	.700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	. 0.00	0.00	0.00
900.0	0.00	0.00	900.0	• 0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	. 0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,10Ô.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	. 0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
BOS (Fletch		0.00	.,		0.0			•,	
1,433.0	0.00	0.00	1,433.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	. 0.00	0.00	1,000.0	,	0.0	0.0	0.00	0.00	. 0.00
LMAR (Top I	Delaware)								
1,620:0	0.00	0.00	1,620.0	0.0	0.0	0.0	0.00	0.00	0.00
BLCN	•								
1,664.0	. 0.00	0.00	1,664.0	0.0	0.0	0.0	, 0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00 -	1,900:0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	. 0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
, 2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
CYCN	5.00	3.50	_,000.0	3.3	3.0	0.0	5.50	0,00	5,00
2,523.0	0.00	0.00	2,523.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	, 0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00 0.00	0.00 0.00	3,100.0 3,200.0	. , 0.0 .	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0 0.0	0.0 0.0	0.00 - 0.00	0.00 0.00	0.00
3,300.0									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	. 0.0	0.0	0.0	0.00	0.00	0.00
BYÇN					•				,
3,632.0	0.00	0.00	3,632.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	3.00	0,000.0	. 0.0	. 0,0	<u></u>	0.00	5.00	0.00





Database: Company: Project:

Site: Well: Compass COG Operating, LLC

Eddy County, NM (NAD 83) Sec 24, T26S, R25E Cali Roll 24 Federal Com #2H

Wellbore #1

Wellbore: Design: Design #2 Local Co-ordinate Reference: TVD/Reference: MD/Reference:

North Reference: Survey Calculation Method:

Grid

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Design:	· · · / Dodgi #2		303-30						
Planned Survey							, , , , , , , , , , , , , , , , , , , 		elle de la la la distribili
Measured			Vertical			Vertical.	Dogleg	Build	Jum *
Depth	Inclination	, Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate.
(usft)	(3)	(°)	(usft)	(usft)	(usft)	(usft):	(°/100usft)	(°/100üsft)	(\$/100usft)
3,900.0		0.00	3,900.0 ′	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0		0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0		0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0 ~	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0		0.00	4,600.0	0.0	0.0	0.0	. 0.00	0.00	0.00
4,700.0	0.00	0.00	4;700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0		0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0		0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Bone Sprg	(BSGL)								*
5,129.0		0.00	5,129.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
U'Avalon S		0.00	3,200.0	. 0.0	0.0	0.0	0.00	, 0.00	0.00
5,236.0		0.00	5,236.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0		0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0		0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0		0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
			-,;						
L Avalon S									
5,553.0		0.00	5,553.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0		0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0		0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0		0.00 0.00	5,800.0 5,900.0	0.0 0.0	0.0	0.0	0.00 0.00	0.00	0.00
5,900.0	0.00		5,900.0		0.0	.0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
FBSG_san	d								
6,017.0		0.00	6,017.0 °	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	. 0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	00,0	0.00	6,700.0	0.0	0.0	0.0	0,00	0.00	0.00
SBSG_san							•		•
6,718.0	0.00	0.00	6,718.0	. 0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	. 0.0	, 0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0 .	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	. 0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 12° / 1		. 3.00	. ,		5.5	0.0	5.50	0.00	0.00
7,593.2	0.00	0.00	7,593.2	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.82	179.68	7,600.0	0.0	0.0	0.0	12.00	12.00	0.00
•									
7,700.0	12.82	179.68	7,699.1	-11.9	0.1	11.9	12.00	12.00	0.00
TBSG_sand									
7,787.3	23.30	179.68	7,782.0	-38.9	0.2	38.9	12.00	12.00	0.00





Compass

Database: Company: COG Operating, LLC Project: Eddy County, NM (NAD 83) Sec 24; T26S, R25E Site:

Cali Roll 24 Federal Com #2H Wellbore #1

Wellbore: Design: Design #2

Well:

Local Co-ordinate Reference: MD Réference:

North Reference: Survey Calculation Method:

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Grid

Planned Survey		,		2	3 4 4 4		9.00 T. 9.0 %		
	A Company	The Control of the		53 4 E 4.41	C. M. J. C. C. S. S. S.	A Part of the state	PROPERTY.		The second second
Measured			Vertical :		1	Vertical)	Doğleğ	Build"	Turn
Depth in	clination)	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	″. Rate⊭ *
(usft)	, (°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft).	(°/100usft), "	(°/100usft)
7,800.0	24.82	179.68	7,793.6	-44.1	0.2	44.1	12.00	12.00	0.00
7,900.0	36.82	179.68	7,879.3	-95.2	0.5	95.2	12.00	12.00	0.00
8,000.0	48.82	179.68	7,952.5	-163.1	0.9	163.1	12.00	12.00	0,00
8,100.0	60.82	179.68	8,010.1	-244.6	1.4	244.6	12.00	12.00	0.00
8,200.0	72.82	179.68	8,049.4	-336.4	1.9	336.4	12.00	12.00	0.00
8,300.0	84.82	179.68	8,068.7	-434.3	2.4	434.3	12.00	12.00	0.00
EOB @ 93.12º In 8,369.2	С/1/9.68° А 93.12	179.68	8,070.0	-503.4	2.8	503.5	12.00	12.00	0.00
8,400.0	93.12	179.68	8,068.3	-534.2	3.0	534.2	0.00	0.00	0.00
		179.68	8,062.8	-634.0	3.5	634.1	0.00	0.00	0.00
8,500.0 8,600.0	93.12 93.12	179.68	8,057.4	-733.9	4.1	733.9	0.00	0.00	0.00
8,700.0	93.12	179.68	8,052.0	-833.7	4.7	833.8	0.00	0.00	0.00
8,800.0	93.12	179.68	8,046.5	-933.6	5.2	933.6	0.00	0.00	0.00
8,900.0	93.12	179.68	8,041.1	-1,033.4	5.8	1,033.5	0.00	0.00	0.00
9,000.0	. 93,12	179.68	8,035.6	-1,133.3	6.3	1,133.3	0.00	0.00	0.00
9,100.0	93.12	179.68	8,030.2	-1,233.2	6.9	1,233.2	0.00	0.00	0.00
9,200.0	93.12	179.68	8,024.8	-1,333.0	7.4	1,333.0	. 0.00	0.00	0.00
9,300.0	93.12 93.12	179.68 179.68	8,019.3 8,013.9	-1,432.9 -1,532.7	8.0 8.6	1,432.9 1,532.7	0.00 0.00	0.00 0.00	0.00 0.00
9,400.0									
9,500.0	93.12	179.68	8,008.4	-1,632.6	9.1	1,632.6	0.00	0.00	0.00
9,600.0 9,700.0	93.12 93.12	179.68 179.68	8,003.0 7,997.6	-1,732.4 -1,832.3	9.7 10.2	1,732.4 1,832.3	0.00 0.00	0.00 0.00	0.00 0.00
9,800.0	93.12	179,68	7,992.1	-1,932.1	10.2	1,932.1	0.00	0.00	0.00
9,900.0	93.12	179.68	7,986.7	-2,032.0	11.3	2,032.0	0.00	0.00	0.00
10,000.0	93.12	179.68	7,981.2	-2,131.8	11.9	2,131.8	0.00	0.00	0.00
10,100.0	93.12	179.68	7,975.8	-2,231.7	12,5	2,231.7	0.00	0.00	0.00
10,200.0	93.12	179,68	7,970.4	-2,331.5	13.0	2,331.5	0.00	0.00	0.00
10,300.0	93.12	179.68	7,964.9	-2,431.4	13.6	2,431.4	0.00	0.00	0.00
10,400.0	93.12	179.68	7,959.5	-2,531.2	14.1	2,531.2	0.00	0.00	0.00
10,500.0	93.12	179.68	7,954.0	-2,631.1	14.7	2,631.1	0.00	0.00	0.00
10,600.0	93.12	179,68	7,948.6	-2,730.9	15.3	2,730.9	0.00	0.00	0.00
10,700.0 10,800.0	93.12 93.12	179.68 179.68	7,943.2 7,937.7	-2,830.8 -2,930.6	15.8 16.4	2,830.8 2,930.7	0.00 0.00	0.00 0.00	0.00 0.00
10,900.0	93.12	179.68	7,937.7	-3,030.5	16.9	3,030.5	0.00	0.00	0.00
11,000.0	93,12	179.68	7,926.9	-3,130.3	17.5	3,130.4	0.00	0.00	0.00
11,100.0	93.12	179.68	7,920.9	-3,230.2	18.0	3,230.2	0.00	0.00	0.00
11,200.0	93.12	179.68	7,916.0	-3,330.0	18.6	. 3,330.1	0.00	0.00	0.00
11,300.0	93.12	179.68	7,910.5	-3,429.9	19.2	3,429.9	0.00	0.00	0.00
11,400.0	93.12	179.68	7,905.1	-3,529.7	19.7	3,529.8	0.00	0.00	0.00
11,500.0	93.12	179.68	7,899.7	-3,629.6	20.3	3,629.6	0.00	0.00	0.00
11,600.0	93.12	179.68	7,894.2	3,729.4	20.8	3,729.5	0.00	0.00	0.00
11,700.0 11,800.0	93,12 93,12	179.68 179.68	7,888.8 7,883.3	-3,829.3 -3,929.1	21. 4 21.9	3,829.3 3,929.2	. 0,00 0.00	0.00 0.00	0.00 0.00
11,800.0	93.12	179.68	7,863.3 7,877.9	-3,929.1 -4,029.0	21.9	3,929.2 4,029.0	0.00	0.00	0.00
·									
12,000.0 12,100.0	93.12 93.12	179.68 179.68	7,872.5 7,867.0	-4,128.8 -4,228.7	23.1 23.6	4,128.9 4,228.7	0.00 0.00	0.00 0.00	0.00 0.00
12,200.0	93.12	179.68	7,861.6	-4,328.5	24.2	4,226.7	0.00	0.00	0.00
12,300.0	93.12	179.68	7,856.1	-4,428.4	24.7	4,428.4	0.00	0.00	0.00
12,400.0	93.12	179.68	7,850.7	-4,528.2	25.3	4,528.3	0.00	0.00	0.00
12,500.0	93.12	179.68	7,845.3	-4,628.1	25.8	4,628.1	0.00	0.00	0.00
12,600.0	93.12	179.68	7,839.8	-4,727.9	26.4	4,728.0	0.00	0.00	0.00
12,700.0	93.12	179.68	7,834.4	-4,827.8	27.0	4,827.8	0.00	0.00	0.00
12,800.0	93.12	179.68	7,828.9	-4,927.6	27.5	4,927.7	0.00	0.00	0.00
Drop 2º / 100'									





Compass Database:

COG Operating, LLC Company: Project: Eddy County, NM (NAD 83) Site: Wellbore: Sec 24, T26S, R25E Cali Roll 24 Federal Com #2H

Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Grid

	Vellbore #1 Design #2					Transfer and the second		na Charagai Charachan an Anna an an Anna an An	
Planned Survey									
Measured			Vertical .			Vertical.	Dogleg	Búild	Turn
Depth Ir (usft)	nclination:	Azimuth (°)	Depth (usft)	+Ñ/-S (üsft)	; ±Ē/-W" √(usft); "	Section (usft)	Râte (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
12,872.4	93.12	179,68	7,825.0	-4,999.9	27.9	5,000.0	0.00	0.00	0.00
12,900.0	92.57	179.68	7,823.6	-5,027.5	28,1	5,027.6	2.00	-2.00	0.00
EOD @ 91.42° Ir	nc						;		•
12,957.4	91.42	179.68	7,821.6	-5,084.8	28.4	5,084.9	2.00	-2.00	0.00
13,000.0	91.42	179.68	7,820.6	-5,127.4	28.6	5,127.5	0.00	0.00	0.00
13,100.0	91.42	179.68	7,818.1	-5,227.4	29.2	5,227.5	0.00	0.00	0.00
13,200.0	91.42	179.68	7,815.6	-5,327.4	29.7	5,327.4	0.00	0.00	0.00
13,300.0	91.42	179.68	7,813.2	-5,427.3	30.3	5,427.4	0.00	0:00	0.00
13,400.0	91.42	179.68	7,810.7	-5,527.3	30.9	5,527.4	0.00	0.00	0.00
13,500.0	91.42	179.68	7,808.2	-5,627.3	31.4	5,627.3	0.00	0.00	0.00
13,600.0	91.42	179.68	7,805.7	-5,727.2	32.0	5,727.3	0.00	0.00	0.00
13,700.0	91.42	179.68	7,803.2	-5,827.2	32.5	5,827.3	0.00	0.00	0,00
						•	•		
13,800.0	91.42	179.68	7,800.8	-5,927.2	33.1	5,927.3	0.00	0.00	0.00
13,900.0	91.42	179.68	7,798.3	-6,027.1	33.6	6,027.2	0.00	0.00	0.00
14,000.0	91.42	179.68	7,795.8	-6,127.1	34.2	6,127.2	0.00	0.00	0.00
14,100.0	91.42	179.68	7,793.3	-6,227.1	34.7		0.00	0.00	0.00
14,200.0	91.42	179.68	7,790.9	-6,327.0	35.3	6,327.1	0.00	0.00	0.00
14,300.0	91.42	179.68	7,788.4	-6,427.0	35.8	6,427.1	0.00	0.00	0.00
14,400.0	91.42	179.68	7,785.9	-6,527.0	36.4	6,527.1	0.00	0.00	0.00
14,500.0	91.42	179.68	7,783.4	-6,626.9	37.0	6,627.0	0.00	0.00	0.00
14,600.0	91.42	179.68	7,781.0	-6,726.9	37.5	6,727.0	0.00	0.00	0.00
14,700.0	91.42	179.68	7,778.5	-6,826.9	38.1	6,827.0	0.00	0.00	0.00
14,800.0	91.42	179.68	7,776.0	-6,926.8	38,6	6,926.9	0.00	0.00	0.00
14,900.0	91.42	179.68	7,773.5	-7,026.8	39.2	7,026.9	0.00	0.00	0.00
15,000.0	91.42	179.68	7,771.0	-7,126.8	39.7	7,126.9	0.00	0.00	0.00
15,100.0	91.42	179.68	7,768.6	-7,226.7	40.3	7,226.9	0.00	0.00	0.00
15,200.0	91.42	179.68	7,766.1	-7,326.7	40.8	7,326.8	0.00	0.00	0.00
15,300.0	91.42	179.68	7,763.6	-7,426.7	41.4	7,426.8	0.00	0.00	0.00
15,400.0	91.42	179.68	7,761.1	-7,526.6	41.9	7,526.8	0.00	0.00	0.00
15,500.0	91.42	179.68	7,758.7	-7,626.6	42.5	7,626.7	0.00	0.00	0.00
15,600.0	91.42	179.68	7,756.2	-7,726.6	43.1	7,726.7	0.00	0.00	0.00
15,700.0	91.42	179.68	7,753.7	-7,826.6	43.6	7,826.7	0.00	0.00	0.00
		170.68	7,751.2	-7,926.5	44.2	7,000,6	0.00	0.00	0.00
15,800.0 15,900.0	91.42	179.68 179.68	7,751.2 7,748.8	-7,926.5 -8,026.5	44.2 44.7	7,926.6 8,026.6	0.00	0.00	0.00
,	91.42 91.42	179.68	7,746.3	-8,026.5 -8,126.5	45.3	8,126.6	0.00	0.00	0.00
16,000.0 16,100.0	91.42	179.68	7,743.8	-8,226.4	45.8	8,226.6	0.00	0.00	0.00
16,200.0	91.42	179.68	7,741.3	-8,326.4	46.4	8,326.5	0.00	0.00	0.00
16,300.0	91.42	179.68	7,738.8	-8,426.4	46.9	8,426.5	0.00	0.00	0.00
16,400.0	91.42	179.68	7,736.4	-8,526.3	47.5	8,526.5	0.00	0,00	0.00
16,500.0	91.42	179.68	7,733.9	-8,626.3	48.0	8,626.4	0.00	0.00	0.00
16,600.0	91.42	179.68	7,731.4	-8,726.3	48.6	8,726.4	0.00	0.00	0.00
16,700.0	91.42	179.68	7,728.9	-8,826.2	49.2	8,826.4	0.00	0.00	0.00
16,800.0	91.42	179.68	7,726.5	-8,926.2	49.7	8,926.3	0.00	0.00	0.00
16,900.0	91.42	179.68	7,724.0	-9,026.2	50.3	9,026.3	0.00	0.00	0.00
17,000.0	91.42	179.68	7,721.5	-9,126.1	50.8	9,126.3	0.00	0.00	0.00
17,100.0	91.42	179.68	7,719.0	-9,226.1	51.4	9,226.2	0.00	0.00	0.00
17,200.0	91.42	179.68	7,716.6	-9,326.1	51.9	9,326.2	0.00	0.00	0.00
17,300.0	91.42	179.68	7,714.1	-9,426.0	52.5	9,426.2	0.00	0.00	0.00
17,400.0	91.42	179.68	7,711.6	-9,526.0	53.0	9,526.2	0.00	0.00	0.00
17,500.0	91.42	179.68	7,709.1	-9,626.0	53.6	9,626.1	0.00	0.00	0.00
17,600.0	91.42	179.68	7,706.6	-9,725.9	54.1	9,726.1	0.00	0.00	0.00
17,700.0	91.42	179.68	7,704.2	-9,825.9	54.7	9,826.1	0.00	0.00	0.00
17,800.0	91.42	179.68	7,701.7	-9,925.9	55.3	9,926.0	0.00	0.00	0.00





Database: Compass

Company: COG Operating, LLC Project: Eddy County, NM (NAD 83) Site: Sec 24, T26S, R25E

Cali Roll 24 Federal Com #2H Well: Wellbore: Wellbore #1 Désign: Design #2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cali Roll 24 Federal Com #2H Well @ 3573.0usft (Scadrill Freedom) Well @ 3573.0usft (Scadrill Freedom)

Grid

Planned Survey						V 19 1 1			
Measured Depth	nclination	zimuth,	Vertical * Depth	+N/-S	+E/-W	Vertical Section	Dogleg	Build Rate	Turn Rate
(usft)	(°)	(°).	(usft)	(usft)	(usft)	(usft)	(°/100usft) (/100usft) , ((°/100usft)
	MD / 7700' TVD		100		4		. :	*	
17,868.2	91.42	179.68	7,700.0	-9,994.0	55.6	9,994.2	0.00	0.00	0.00

Design Targets Target Name 4 hit/miss target Dip Shape	p Angle	Dip Dir:	TVD.	+N/-S (usft)*	+E/-W" (usft)	(üsft)	Easting (usft)	Latttude	Longitude,
PBHL Cali Roll 24 Feder - plan hits target center - Point	, 0.00	. 0.01	7,700.0	-9,994.0	55.6	366,207.43	538,661.94	32° 0' 24.422 N	104° 20' 31.075 W
Intermediate Target Cali - plan hits target center - Point	0.00	0.01	7,825.0	-4,999.9 ;	27.9	371,201.53·	538,634.24	32° 1' 13,846 N	104° 20' 31 401 W

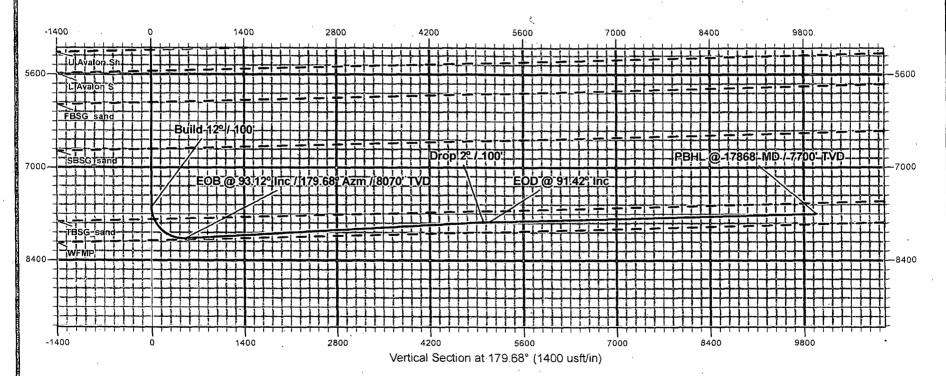
Formations				
Measured Depth	Vertical Depth		Dip Diri Direction:	
(usft)	(usft)	Name	Lithology (f) (f)	
65.0	234.0	Rustler	-1.42 179.68	
. 389.0	558.0	TOS	-1.42 179.68	
. 1,433.0	1,602.0	BOS (Fletcher)	-1.42 179.68	
1,620.0	1,789.0	LMAR (Top Delaware)	-1.42 179.68	
1,664.0	1,833.0	BLCN	-1.42′ 179.68	
2,523.0	2,692.0	CYCN ·	-1.42 179.68	
3,632.0	3,801:0	BYCN	-1.42 179.68	
5,129.0	5,298.0	Bone Sprg (BSGL)	-1.42 179.68	
5,236.0	5,405.0	U Avalon Sh	-1.42 179.68	
5,553.0	5,722.0	L Avalon S	-1.42 179.68	
6,017.0	6,186.0	FBSG_sand	-1.42 179.68	
6,718.0	6,887.0	SBSG_sand	-1.42 179.68	- 1
7,787.3	7,951.0	TBSG_sand	-1.42 179.68	

Plan Annotations				
			Taran Park	
Denth.	Depth	Live Call Coord	inates.	
(usft)	(usft)	(usft)	TE/-VV (usft)	Comment
7.593.2	7,593.2	0.0	0.0	Build 12° / 100'
8.369.2	8.070.0	-503.4	2.8	EOB @ 93.12° Inc / 179.68° Azm / 8070' TVD
12,872.4	7,825.0	-4,999.9	27.9	Drop 2º / 100'
12,957.4	7,821.6	-5,084.8	28.4	EOD @ 91.42° Inc
17,868.2	7,700.0	-9,994.0	55.6	PBHL @ 17868' MD / 7700' TVD



Eddy County, NM (NAD 83) Sec 24, T26S, R25E Cali Roll 24 Federal Com #2H Design #2

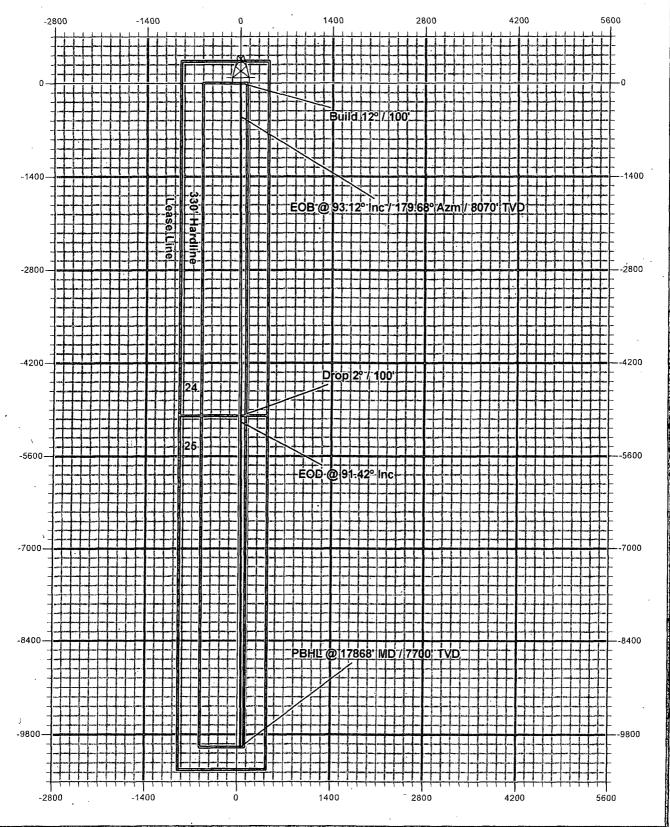






Eddy County, NM (NAD 83) Sec 24, T26S, R25E Cali Roll 24 Federal Com #2H Design #2





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating, LLC

LEASE NO.: | NMNM-104666

WELL NAME & NO.: | Cali Roll 24 Federal Com 2H SURFACE HOLE FOOTAGE: | 0330' FNL & 0430' FEL

BOTTOM HOLE FOOTAGE | 0330' FSL & 0380' FEL Sec. 25, T. 26 S., R. 25 E.

LOCATION: | Section 24, T. 26 S., R. 25 E., NMPM

COUNTY: | Eddy County, New Mexico

Special Requirements:

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.

- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

HIGH CAVE/KARST

Possible sulfur water flows within the Castile formation. Possible loss of circulation in the Delaware. Possible abnormally high pressures in the Wolfcamp.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH. IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.

- 1. The 13-3/8 inch surface casing shall be set at approximately 400 and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 1500 feet (Lamar Limestone), is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3.	The minimum req	uired fill of cement	behind the 5-1/2	inch production	casing is
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Cement should tie-back at least 200 feet into previous casing string.	Operator
shall provide method of verification.	•

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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