Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

13-1256

5. Lease Serial No. NMNM013814

Do not use th	is form for proposals to drill or to	L		<u> </u>			
abandoned we	II. Use form 3160-3 (APD) for suc	ch proposals.		6. If Indian, Allottee	or Tribe Name		
SUBMIT IN TRI	PLICATE - Other instructions on	reverse side.		7. If Unit or CA/Agre	ement, Name and/or No.		
1. Type of Well				8. Well Name and No	FEDERAL COM2H		
☐ Oil Well ☐ Gas Well ☐ Oth 2. Name of Operator	her Contact: KELLY J	· ·		9. API Well No.	EBETIAE OOM ZIT		
COG OPERATING LLC	E-Mail: kholly@concho.com	HOLLY	•	30-015-41100			
3a. Address ONE CONCHO CENTER 600 MIDLAND, TX 79701		e No. (include area code 2-685-4384	(2)	10. Field and Pool, or Exploratory LOCO HILLS; GLORIETA YESO			
4. Location of Well (Footage, Sec., 7		11. County or Parish,	and State				
Sec 6 T17S R30E Mer NMP N	NWNW 1140FNL 305FWL		,	EDDY COUNT	Y, NM		
12. CHECK APP	ROPRIATE BOX(ES) TO INDICA	TE NATURE OF	NOTICE, RE	PORT, OR OTHE	R DATA		
TYPE OF SUBMISSION		ТҮРЕ О	FACTION .				
Notice of Intent	☐ Acidize ☐	Deepen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off		
	☐ Alter Casing ☐	Fracture Treat	Reclama	tion	■ Well Integrity		
☐ Subsequent Report	☐ Casing Repair ☐	New Construction	□ Recomp	lete	☑ Other Change to Original A		
☐ Final Abandonment Notice	-	Plug and Abandon	-	rily Abandon	PD		
	Convert to Injection	Plug Back	☐ Water D	isposal			
SHL: 850 FNL & 130 FEL, Lot BHL: 973 FNL & 330 FEL, Lot Attached is the revised C-102	ully requests permission to change to 1, Section 1, T17S, R29E	n, H2S Diagram, Ri	g Layout and	Accepte No to this R	MOCD 1		
Ena OK 5/23/1	3 <i>C</i> RW			·	JUL 12 2013		
14. Thereby certify that the foregoing is Name(Printed/Typed) KELLY J	Electronic Submission #208160 ver For COG OPERATING Committed to AFMSS for process	G LLC, sent to the C sing by KURT SIMMO	arlsbad	2013 ()	OCD ARTESIA		
Name (1 raded/1 yped) KELL 1 3 1	TOLLT	THE PERMI	TING IECH				
Signature (Electronic S	Submission)	Date 05/21/2	2013				
	THIS SPACE FOR FEDE	RAL OR STATE	OFFICE US	6E			
Approved By Muss	Done	Fitle Title	ELD MA	NAGER	Date 7/10/13		
	d. Approval of this notice does not warrant uitable title to those rights in the subject leased operations thereon.		CARLSBA	D FIELD OFFICE			
	U.S.C. Section 1212, make it a crime for an statements or representations as to any matt			ke to any department or	agency of the United		

District 1.
1625 N. French Dr., Hobbs, NM 88240
Phone. (573) 193-6161 Fax: (575) 393-0720
District II
81 S. Fera, St. Artena, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Enzos Road, Arten, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fa, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa-Fe; NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

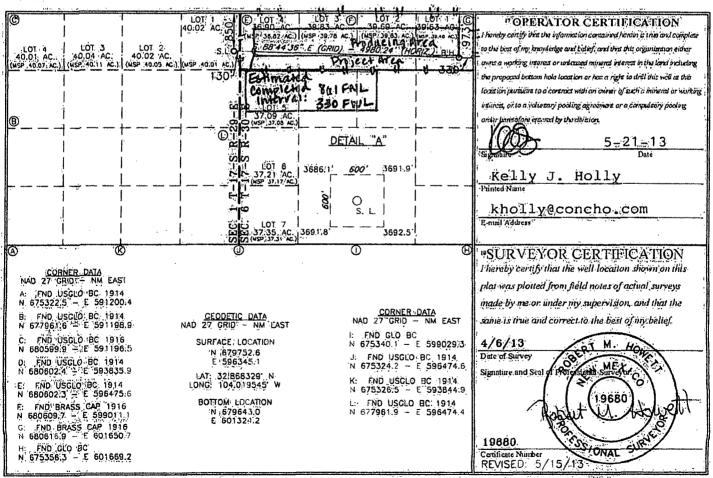
WELL LOGATION AND ACREAGE DEDICATION PLAT

	APT Numbe			² Pool Code		² Pool Name					
	5_411	U,U	<u>ئىيت جات</u>	96718		Loco Hills; Glorieta Yeso					
Property			m	THE TAKES	Property N		°w	Well Number			
39626			-1 ₁	MELVE	PACK FED	*	B.		2H.		
'оско 22913	, 1			⁹ Elevation, 3691.							
			· · · · · · · · · · · · · · · · · · ·	,	"Surface L	ocation		· · · · · · · · · · · · · · · · · · ·			
UL or lot no.	Section	Township	Runge	Lot Idn	Feet from the	North/South line	Feet from the	Enst/West line	County		
1	. 1	17-S 29-E 850 NORTH 130 EAST							EDDY		
		**	" Bott	om Hole	Location If	Different From	Surface				
UL or lot no.	Section	Township	Runge	Lot Idn	Feet from the	The second of the second secon	Peet from the	East/West line	(County		
	_	تہ کیا	lacida lacida lacida la companya la compan								

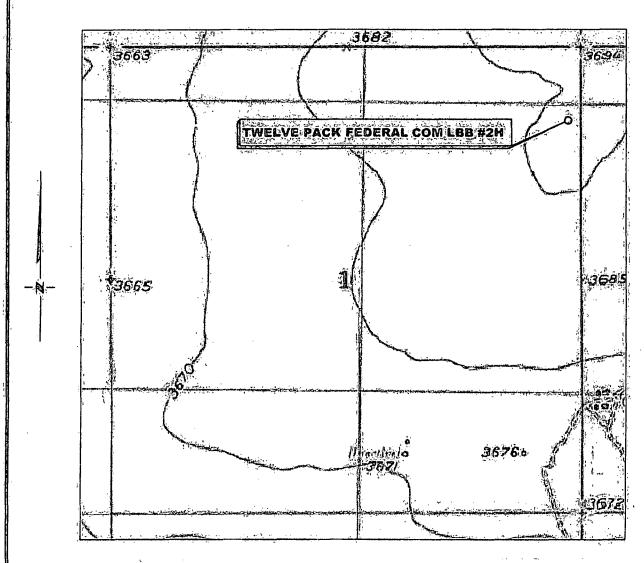
Ut or tot no. Section Township Range Lot ton Eest from the North/South line Peet from the East West line Count 1 6 17-S 30-E 973 NORTH 330 EAST EDDY.

Destinated Acres 1976 in 67 10100 14 Consolidation Code 19 Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard until has been approved by the division.



LOCATION VERIFICATION MAP



SECTION 1, TWP. 17 SOUTH, RGE. 29 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC

LEASE Twelve Pack Federal Com LBB

DWG NO: 130109LVM 2251 Double Croek Orivo, Suno 602, Round Rock, Texas, 78664

WELL NO .: 2H

ELEVATION: 3691

LOCATION: 850 FNL & 130 FEL

CONTOUR INTERVAL: 10"

USGS TOPO. SOURCE MAP.

Red Lake SE. NM (1955)

Copyright: 2012 - All Rights Reserved SCALE: 1" = 1000"

1 WELL NAME 5/15/13 NO REVISION DATE JOB NO. LS130109

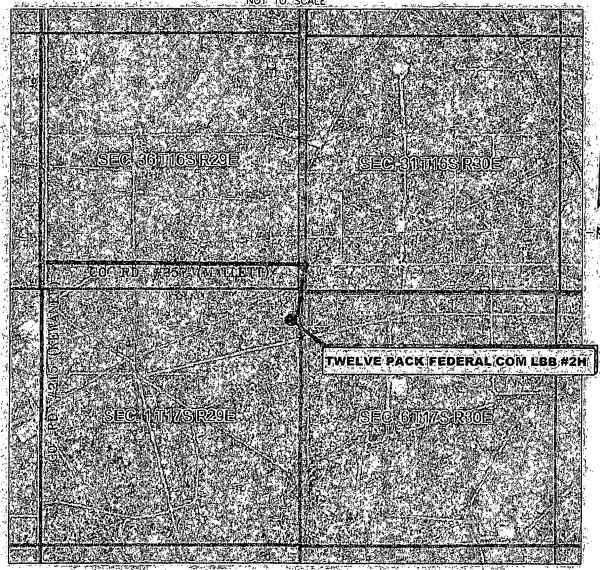
PROSPERITY CONSULTANTS, LLC.



DATE: 4/6/13 SURVEYED BY: GB DRAWN BY AF APPROVED BY: LWB

VICINITY MAP

NOT TO SCALE



SECTION 1, TWP. 17 SOUTH, RGE. 29 EAST, N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating: LLC LEASE: Twelve: Pack Federal Com LBB

WELL NO. 2H

LOCATION: 850' FNL & 130' FEL

ELEVATION: 3691

Copyright 2012 - All, Rights Reserved

SCALE: '1'" = 1'000' DATE: 4/6/13

1. WELL NAME \$/,15/13
NO: REVISION DATE
UOB. NO: LS130109
DWG. NO: 130109VN

PROSPERITY CONSULTANTS, LLC

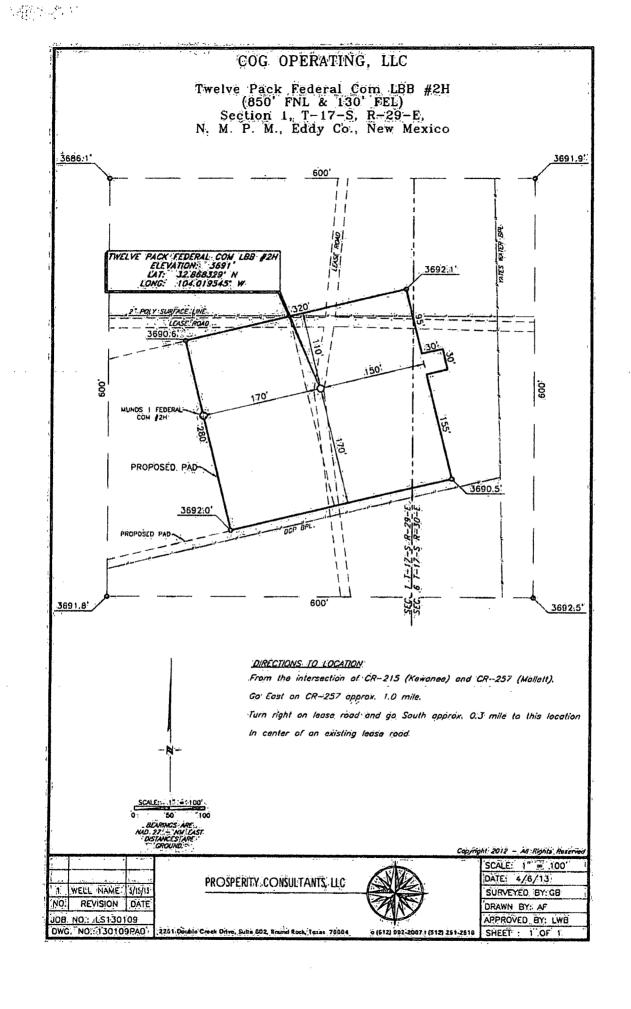
2251 Double Creck Drive; Suite 602, Round Rock, Texas 78664

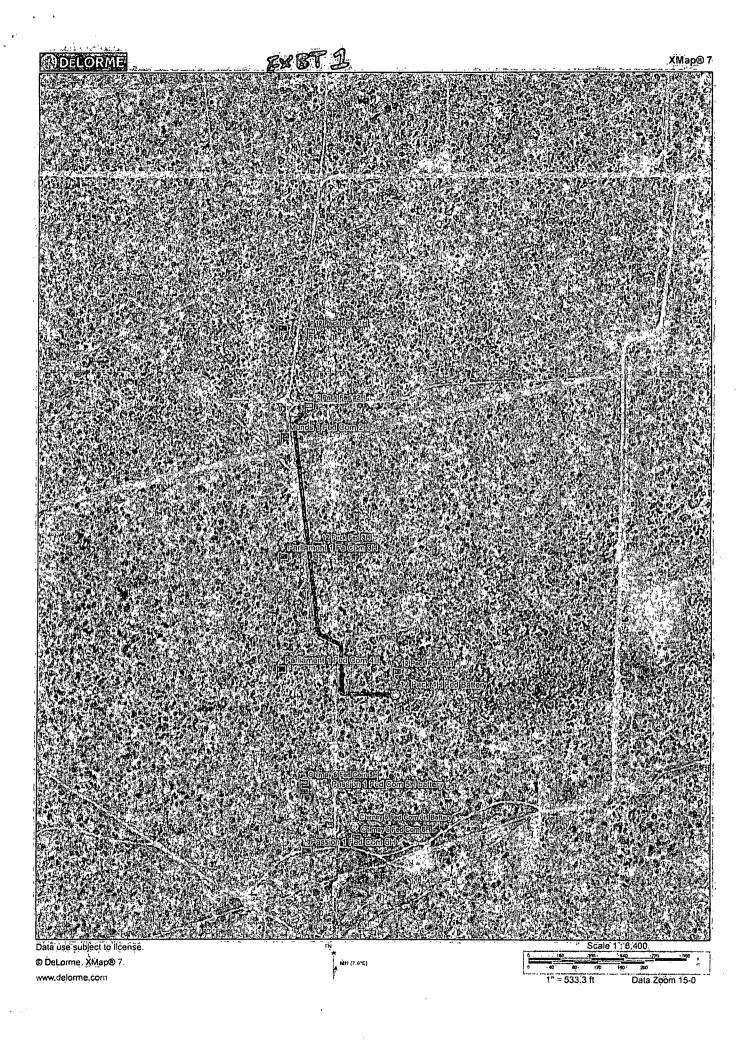


SURVEYED BY: GB
DRAWN BY: AF
APPROVED BY: LLWB

o (512) 992-2087 / (512) 251-2518

SHEET : 1 OF 1





Plan Proposal

FOR

COG Operating, LLC Twelve Pack Federal Com LBB #2H Eddy Co., NM

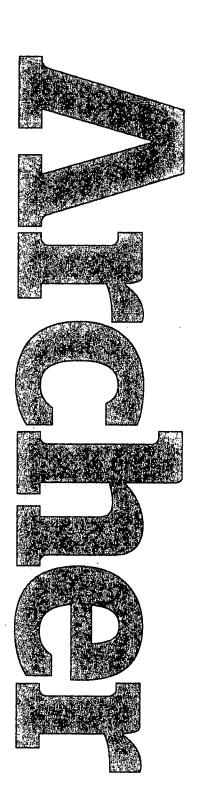
Design #1

Presented By:

Aaron Boger Account Manager

Brei Wolford Well Planner

SHL 850' FNL & 130' FEL Sec:1-T17S-R29E <u>Penetration Point</u> 861' FNL & 330' FWL <u>PBHL</u> 973' FNL & 330' FEL Sec:6-T17S-R30É



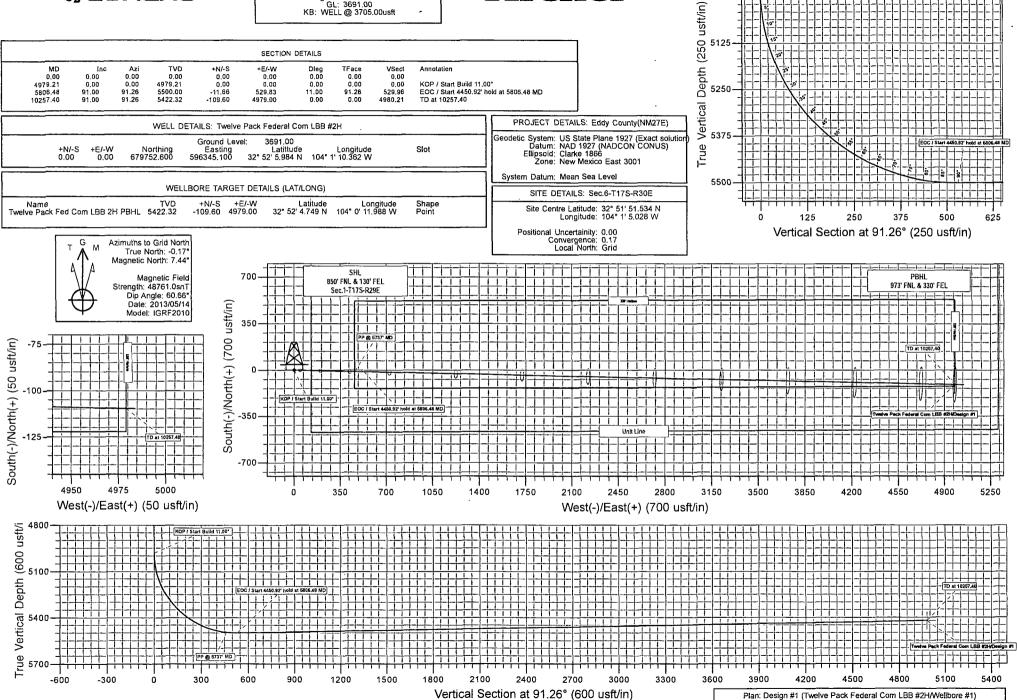


Project: Eddy County(wmz/E)
Site: Sec.6-T17S-R30E
Well: Twelve Pack Federal Com LBB #2H
Wellbore: Wellbore #1
Design: Design #1
Lat: 32° 52° 5.984 N
Long: 104° 1' 10.362 W
GL: 3691.00

Archer

5000

Created By: Bret Wolford Date: 16:05, May 14 2013





RECEIVED

JUL 12 2013

NMOCD ARTESIA

COG Operating, LLC

Eddy County(NM27E)
Sec.6-T17S-R30E
Twelve Pack Federal Com LBB #2H

Wellbore #1

Plan: Design #1

Standard Planning Report

14 May, 2013





System Datum:



Database: EDM,5000 (1 Single User:Db)
Company: COG Operating, LLC
Project: Eddy/County(NM27E)

Eddy/County(NM27E) |Sec = 1175-R30E |Twelve;Pack Federal Com LBB;#2H

Site: Sec.9:T17.S-R Well: Twelve;Pack F Wellbore: Wellbore;#1 Design: Design:#1 Local Co-ordinate Reference TVD Reference MD Reference

North Reference: Survey/Calculation Method: Well Twelve Pack Federal Com LBB #2H

WELL @ 3705 00 usft

∂Grijd.

Minimum Curvature

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P	ro	íne	ct)	71 ⁴ 2		٠," ن	L	'Edd	Vŧ	ان	our	ITV (NN	127E)-

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

Mean Sea I

Meaп Sea Level

Site

Site Position:

Man

Northing:

678,293.700 usft

Latitude:

32° 51' 51.534 N

From:

Map

Easting:

596,804.400 usft

Longitude:

104° 1' 5.028 W

Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16"

Grid Convergence:

0.17 °

Well Twelve Pack Federal Com ⊞BB #2H

Well Position

+N/-S +E/-W 1,458.90 usft Nor -459.30 usft Eas

Northing: Easting: 679,752.600 usft 596,345,100 usft Latitude: Longitude: 32° 52' 5.984 N 104° 1' 10.362 W

Position Uncertainty

0.00 usft

Wellhead Elevation:

ueff

Ground Level:

3,691.00 usft

Wellbore Wellbore ModelName SampleDate Declination DipAngle Field/Strength

IGRF2010 05/14/13 7.61 60.66 48,761

Design #1		and the second s	And the second second second second second		A STATE OF THE PARTY OF THE PAR
Audit Notes:				÷	
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	#N/-S (usft)	FE/W (usft)	(P)	
	5,422.32	0.00	0,00	91.26	

Plan Sections Measured Depth (usft)	المثانة الأرام الأر	Azimuth	Vertical Depth (usft)	+N-S (usft)	E/-W ((usft)	Dogleg" Rate # (*/100usft)	Build Rate (1/100usft)	Turn Rate (*/100usft)	ETFO (e)	Jarget
0.00	, 0.00	0.00	. 0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,979.21	0.00	0.00	4,979.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,806.48	91.00	91.26	5,500.00	-11.66	529.83	11.00	11.00	0.00	91.26	Twelve Pack Fed Con
10,257.40	91.00	91.26	5,422.32	-109.60	4,979.00	0.00	0.00	0.00	0.00	Twelve Pack Fed Con



Database: EDM, 5000/1 Single User Dbb COmpany: COG Operating, LLC;
Project: Eddy County (NM27E)
Site: Sec. 6-T17/S-R30E
Well: Twelve Pack Federal Com LBB #2H
Wellbore: Wellbore:#1
Design:#1

TVD Reference MD Reference: North Reference:

LocaliCo-ordinate Reference

Survey Calculation Method:

Well Twelve Pack Federal Com LBB:#2H

WELL @ 3705.00usft

WELL @ 3705 00usft Minimum Curvature

Planned Survey	The many	وه والإخشواء المتروعين				ر موادر المراجعة والمراجعة المادية الم المادية المادية	سائمان کا کا است.	THE PERSON NAMED IN	4-4-2-4-
THE STATE OF THE S	TO THE IST	FISHT?	A Company of the Company	Annual Control of the		The state of the s	4-17-6-6		
Measured		Market Strategy	⊮ Vertical		學問題問題	Vertical ^l	Dogleg	aBulld,	Turn
	Inclination	Azimuth	Depth	+N/-S'			Rate	Rate	Rate
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200.00	0.00	0.00	200,00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300,00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0,00	0,00	0.00
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3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
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4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
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4,979.21	0.00	0.00	4,979.21	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	2.29	91.26	4,999.99	-0.01	0.41	0.41	11.00	11.00	0.00
5,050.00	7.79	91.26	5,049.78	-0.11	4.80	4.80	11.00	11.00	0.00





EDM(5000: 1 Single: User Db

COG: Operating; (ELLC)

Eddy, County(NM27E)

Sec. 6-T17S: R30E

Twelve: Rack: Federal : Com LBB;#2H Database: Dätabaset Company Project: Site: Well: Wellbore Design:

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD|Reference: North Reference Survey Calculation Method:

Well'Twelve Pack Federal Com LBB #2H

WELL @ 3705.000sft WELL @ 3705.00usft Grid Minimum Curvature

The state of the s			ماست مستورد الله والمساورية	المتشادي ولاتكاني الإداءة السياعة			Andready San Control of the Control	THE PERSON NAMED IN	property of the second section is
Planned Survey	منافي المنافية	Line with the	الله السياسية المالية المالية المالية المالية المالي	مالتينية أور المنيد عدات	رُورِدُ اللهِ وَالْمُورِدِينِ الْمُوالِيَّةِ وَالْمُورِّةِ وَالْمُورِّةِ وَالْمُورِّةِ وَالْمُورِّةِ وَالْمُورِ وَمُوالِمِدُولِ السِّلْمُورِدِينِينِ النَّمِينِ وَعِيْدِينِ وَمِنْ	الوائد المراقع	را زائد گاروی ن روزه میواندند. درانید مسالهار قرورسیستونید	رو الله المراجع المراج المراجع المراجع المراج	ا ادائه دور دیدهای - را بردیب بهایشها
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1 Fig. 4 day 1 1 1 1 2 - 2 4 46 12 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in ation	Azimuth	Depth "-	₩ +N/-S ****	+E/-W 5	Section	Rate	Rate	Rate
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5,100.00	13.29	91.26	5,098.92	-0.31	13.94	13.94	11.00	11.00	0.00
5,150.00	18.79	91.26	5,146.96	-0.61	27.74	27.75	11.00	11.00	0.00
5,200.00	24.29	91.26	5,193.45	-1.01	46.09	46.10	11.00	11.00	0.00
5,250,00	29.79	91.26	5,193.43	-1.51	68.80	68.82	11.00	11.00	0.00
5,300.00	35.29	91,26	5,280.10	-2.11	95.68	95.70	11.00	11.00	0.00
5,350.00	40.79	91.26	5,230.10	-2.78	126.47	126.50	11.00	11.00	0.00
5,400.00	46.29	91.26	5,355.70	-3.54	160.89	160.93	11.00	11.00	0.00
3,400.00	40.23								
5,450.00	51.79	91.26	5,388.47	-4.37	198.62	198.67	11.00	11.00	0.00
5,500.00	57.29	91.26	5,417.46	-5.27	239.32	239,38	11.00	11.00	0.00
5,550.00	62,79	91.26	5,442,43	-6.22	282.61	282.68	11.00	11.00	0.00
5,600.00	68.29	91.26	5,463.12	-7.22	328.09	328.17	11.00	11.00	0.00
5,650.00	73.79	91.26	5,479.36	-8.26	375.35	375.44	11.00	11.00	0.00
5,700:00	79,29	91.26	5,491.00	-9,33	423.94	424.05	11.00	11.00	0.00
PP @ 5737' MD.	Jan Sanger	San Cara Cara Para	region de	1000 医二甲烷基	计图图学编译		THE PROPERTY	是多少是"数据"之间。 第二章	10 mm
5,737.00	83.36	91,26	5,496.58	-10.14	460.50	460.62	11.00	11.00	0.00
5,750.00	84.79	91.26	5,497.92	-10.42	473.43	473.55	11.00	11.00	0.00
5,800.00	90.29	91.26	5,500.07	-11.52	523,35	523.48	11.00	11.00	0.00
EOC //Start 4450.9				4. 4.	李在东京第二	1. 可到 <i>,我</i> 想到的最		Maria Grande	(ME) 45 A 35
5,806,48	91.00	91.26	5,500,00	-11.66	529.83	529.96	11.00	11,00	0.00
						,			
5,900.00	91.00	91.26	5,498.37	-13.72	623.31	623.47	0.00	0.00	0.00
6,000.00	91.00	91.26	5,496.62	-15.92	723.28	723.45	0.00	0.00	0.00
6,100.00	91.00	91,26	5,494.88	-18.12	823.24	823.44	0.00	0.00	0.00
6,200.00	91.00	91.26	5,493.13	-20,32	923.20	923.42	0.00	0.00	0.00
6,300.00	91.00	91.26	5,491.39	-22.52	1,023.16	1,023.40	0.00	0.00	0.00
6,400.00	91.00	91.26	5,489.64	-24.72	1,123.12	1,123.39	0.00	0.00	0.00
6,500.00	91.00	91.26	5,487.90	-26,92	1,223.08	1,223.37	0.00	0.00	0.00
6,600.00	91.00	91.26	5,486.15	-29.12	1,323.04	1,323.36	0.00	0.00	0.00
6,700.00	91.00	91.26	5,484.41	-31,32	1,423.00	1,423.34	0.00	0.00	0.00
6,800.00	91.00	91.26	5,482.66	-33.52	1,522.96	1,523.33	0.00	0.00	0.00
6 000 00	91.00	91.26	5,480,92	-35.72	1,622.92	1,623.31	0.00	0.00	0.00
6,900.00 7,000.00	91.00	91.26 91.26	5,480.92 5,479.17	-35.72 -37.92	1,722.88	1,723.30	. 0.00	0.00	0.00
7,000.00	91.00	91.26	5,479.17	-40.13	1,822.84	1,823.28	0.00	0.00	0.00
7,100.00	91.00	91.26	5,475.68	-42,33	1,922.80	1,923.27	0.00	0.00	0.00
7,200.00	91.00	91.26	5,473.93	-44.53	2,022.76	2,023.25	0.00	0.00	0.00
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7,400.00	91.00	91.26	5,472.19	-46.73	2,122.72	2,123.24	. 0.00 .	0.00	0.00
7,500.00	91.00	91.26	5,470.44	-48.93 -4.43	2,222.68	2,223.22	0.00	0.00	0.00
7,600.00	91.00	91.26	5,468.70	-51.13	2,322.64	2,323.21	0.00	0.00	0.00
7,700.00	91.00	91.26	5,466.95	-53.33 55.53	2,422.60	2,423.19	0.00	0.00	0.00 0.00
7,800.00	91.00	91.26	5,465.21	-55,53	2,522.57	2,523.18	0.00	0.00	0.00
7,900.00	91.00	91.26	5,463.46	-57.73	2,622.53	2,623.16	0.00	0.00	0.00
8,000.00	91.00	91.26	5,461.72	-59.93	2,722.49	2,723.15	0.00	0.00	0.00
8,100.00	91.00	91.26	5,459.97	-62.13	2,822.45	2,823.13	0.00	0.00	0.00
8,200.00	91.00	91.26	5,458.23	-64.33	2,922.41	2,923.12	0.00	0.00	0.00
8,300.00	91.00	91.26	5,456.48	-66.53	3,022.37	3,023,10	0.00	0.00	0.00
8,400.00	91.00	91.26	5,454.74	-68.73	3,122.33	3,123.08	0.00	0.00	0.00
8,500.00	91.00	91.26	5,452.99	-70.93	3,222.29	3,223.07	0.00	0.00	0.00
8,600.00	91.00	91.26	5,451.25	-73.13	3,322.25	3,323.05	0.00	0.00	0.00
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8,900.00	91.00	91.26	5,446.01	-79.73	3,622.13	3,623.01	0.00	0.00	0.00
9,000.00	91.00	91.26	5,444.27	-81.93	3,722.09	3,722.99	0.00	0.00	0.00
9,100.00	91.00	91.26	5,442.52	-84.13	3,822.05	3,822.98	0.00	0.00	0.00
9,200.00	91.00	91.26	5,440.77	-86.33	3,922.01	3,922.96	0.00	0.00	0.00
9,300.00	91.00	91,26	5,439.03	-88.53	4,021.97	4,022.95	0.00	0.00	0,00



Database: EDM:5000!1 Single User, Db
Company: COGLOperating LLLC
Project: Eddy County (NM27E)
Site: Sec.6:T1/S=R30E
Twelve:Pack Federal Com LBB:#2H
Wellbore: Wellbore: Design:#1

Eccal Co-ordinate Reference:
IND Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well: Twelve Pack, Federal Com LBB #2H WELL @ 3705 00ush WELL @ 3705 00ush Grid

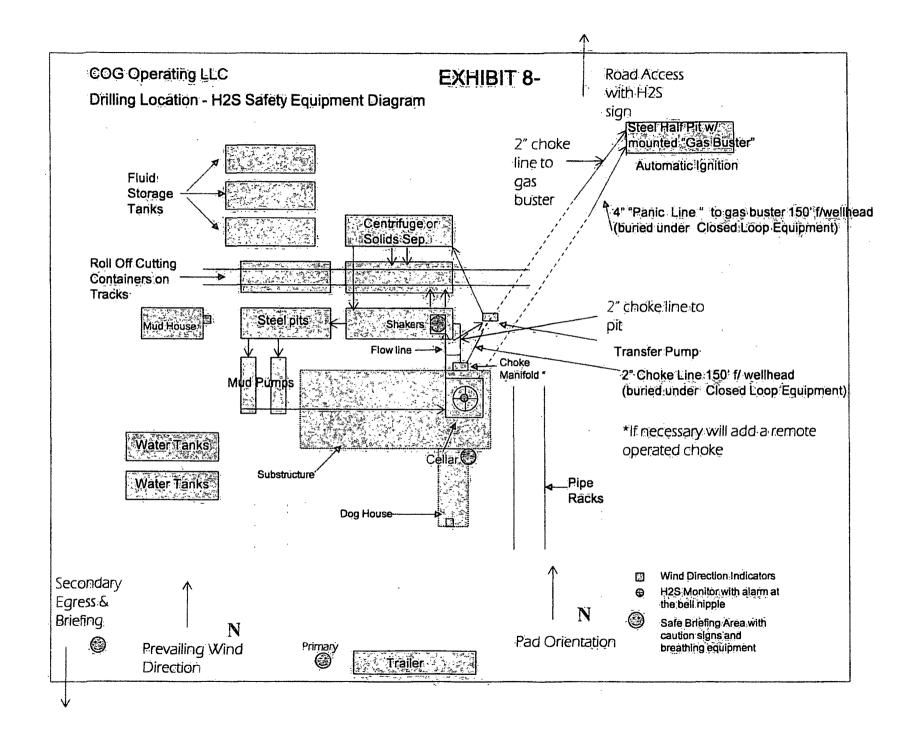
Minimum Curvature

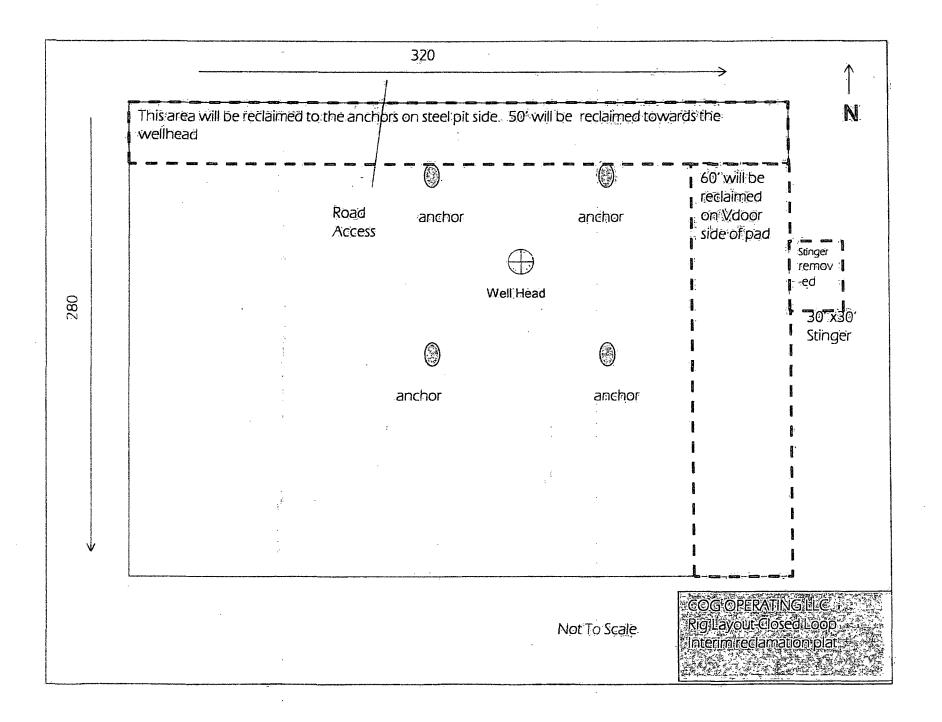
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Depth	nclination	Azimuth,	Depth	+N/-S	. 3+E/-W ± 3	, Section	Rate	Rate	Rate
(üsft)	. (0), 124 27,	(9)	(usft)	(usft)	្ទ(usft)	(usft)	(°/100usft) ; (°/	100usft) 🖟 🥍	/100usft)
9,400.00	91.00	91.26	5,437.28	-90.73	4,121.93	4,122.93	0.00	0.00	0.00
9,500.00	91.00	91.26	5,435.54	-92,93	4,221.89	4,222.92	0.00	0.00	0.00
9,600.00	91.00	91.26	5,433.79	-95.13	4,321.86	4,322.90	0.00	0.00	0.00
9,700.00	91.00	91.26	5,432.05	-97.34	4,421.82	4,422.89	0.00	0.00	0.00
9,800.00	91.00	91.26	5,430.30	-99.54	4,521.78	4,522.87	0.00	0.00	0.00
9,900.00	91.00	91.26	5,428.56	-101.74	4,621.74	4,622.86	0.00	0.00	0.00
10,000.00	91.00	91.26	5,426.81	-103.94	4,721.70	4,722.84	0.00	0.00	0.00
. 10,100.00	91.00	91,26	5,425.07	-106.14	4,821.66	. 4,822,83	0.00	0.00	0.00
10,200.00	91.00	91.26	5,423.32	-108.34	4,921,62	4,922.81	0.00	0.00	0.00
TD at 10257.40	Twelve Pack F	ed Com LBB	ZH PBHL		1 1 6			1 - THE PART AT A	
10,257.40	91.00	91.26	5,422.32	-109.60	4,979.00	4,980.20	0.00	0.00	0.00
		·							

Design, Targets Target Name 'hit/miss target 'Dip - Shape	Angle C	lip Dir.	TVD (usft)	+N/-S (usft)	+E/-W/ (usft)	Northing:	Easting, (usft)	Latitude	Longitude
Twelve Pack Fed Com L - plan hits target center - Point	0.00	0.00	5,422.32	-109.60	4,979.00	679,643.000	601,324.100	32° 52' 4,749 N	104° 0' 11.988 W

Plan Annotations Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	inates, +E/-W (usft)	Comment
4,979.21	4,979.21	0.00	0.00	KOP / Start Build 11.00°
5,737.00	5,496.58	-10.14	460.50	PP @ 5737' MD
.5,806.48	5,500.00	-11.66	529.83	EOC / Start 4450.92' hold at 5806.48 MD
10,257.40	5,422.32	-109.60	4,979.00	TD at 10257.40





Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL
UN 1
Section 1, T-17-S, R-29-E
BHL: 973' FNL & 330' FEL
Section 6, T-17-S, R-30-E
Eddy County, New Mexico

Surface Use & Operating Plan

Twelve Pack Federal Com LBB 2H

- Surface Tenant: Bogle Farms, Lewis Derrick, P O Box 441, Artesia, NM 88211.
- New Road: approx. 0'
- Flow Line: approx. 0.4 mi
- Facilities: Twelve Pack Federal Com 4H Tank Battery

Well Site Information

V Door: East

Topsoil: North

Interim Reclamation: East/North

Notes

-Shares pad with the Munds 1 Fed Com 2H

Onsite: 3/28/2013

Legion (BLM), Caden Jameson (COG), Gary Box (P.C.)

Surface Use Plan COG Operating, LLC Twelve Pack Federal Com LLB 2H SL: 850' FNL & 130' FEL UN 1 Section 1, T-17-S, R-29-E BHL: 973' FNL & 330' FEL

Section 6, T-17-S, R-30-E Eddy County, New Mexico

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

- A. The well site survey and elevation plat for the proposed well is attached with this application. It was staked by Prosperity Consultants, LLC, Midland, TX.
- B. All roads to the location are shown in the Vicinity Map. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling the well will be done where necessary. The road route to the well site is depicted in Vicinity Map. The road highlighted in the Vicinity Map will be used to access the well.
- C. Directions to location: See Vicinity Map.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in section 2A of this Surface Use and Operating Plan.

2. Proposed Access Road:

The Elevation Plat shows that 0' of new access road will be required for this location. If any road is required it will be constructed as follows:

- A. The maximum width of the running surface will be 14'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be hauled from the nearest BLM approved caliche pit.

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL UN I
Section 1, T-17-S, R-29-E
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Section 6, T-17-S, R-30-E
Eddy County, New Mexico

3. Location of Existing Well:

The 1-mile Map shows all existing wells within a one-mile radius of this well.

As shown on this plat there are numerous wells producing from the San Andres and Yeso formations.

4. Location of Existing and/or Proposed Facilities:

- A. COG Operating LLC does operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
 - 1) Production will be sent to Twelve-Pack Federal Com #4H tank battery located Section 6, T17S, R30E, UN 5. The facility location is shown in Exhibit #1.
 - 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
 - 3) Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
 - 4) Proposed flow lines, will follow an archaeologically approved route to the Twelve-Pack Federal Com #4H tank battery located Section 6, T17S, R30E, UN 5. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately .4 miles in length. See Exhibit #1.
 - 5) It will be necessary to run electric power if this well is productive. Power will be provided by CVE and they will submit a separate plan and ROW for service to the well location.
 - 6) If the well is productive, rehabilitation plans will include the following:
 - The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL
UN 1
Section 1, T-17-S, R-29-E
BHL: 973' FNL & 330' FEL
Section 6, T-17-S, R-30-E
Eddy County, New Mexico

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Vicinity Map. If a commercial fresh water source is nearby, fast line may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials and Location "Turn-Over" Procedure:

Obtaining caliche: The primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well sight. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu. Yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- D. When caliche is found, material will be stock piled within the pad site to build the location and road
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.
 - In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit.

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL UN 1
Section 1, T-17-S, R-29-E
BHL: 973' FNL & 330' FEL
Section 6, T-17-S, R-30-E

Eddy County, New Mexico

7. Methods of Handling Water Disposal:

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. No toxic waste or hazardous chemicals will be produced by this operation.
- E. Human waste and grey water will need to be properly contained and disposed of. Proper disposal and elimination of waste and grey water may include but are not limited to portable septic systems and/or portable waste gathering systems (i.e. portable toilets).
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facilities will be built as a result of the operation on this well.

9. Well Site Layout:

- A. The drill pad-layout, with elevations staked by Prosperity Consultants, LLC, is shown in the Elevation Plat. Dimensions of the pad and pits are shown on the Rig Layout. V door direction is East. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. The Rig Layout Closed-Loop exhibit shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL UN 1

Section 1, T-17-S, R-29-E BHL: 973' FNL & 330' FEL Section 6, T-17-S, R-30-E Eddy County, New Mexico

10. Plans for Restoration of the Surface:

- A. Interim Reclamation will take place after the well has been completed. The pad will be downsized by reclaiming the areas not needed for production operations. The portions of the pad that are not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete.
- B. Final Reclamation: Upon plugging and abandoning the well all caliche for well pad and lease road will be removed and surface will be recountoured to reflect its surroundings as much as possible. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area will be reseded with a BLM approved mixture and re-vegetated as per BLM orders.

11. Surface Ownership:

- A. The surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.
- 8. The surface tenant is Bogle Farms, Lewis Derrick, P.O. Box 441, Artesia, NM 88211.
- C. The proposed road routes and surface location will be restored as directed by the BLM

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL UN 1
Section 1, T-17-S, R-29-E
BHL: 973' FNL & 330' FEL
Section 6, T-17-S, R-30-E

12. Other Information:

Eddy County, New Mexico

- A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite and shinnery oak. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. If needed, a Cultural Resources Examination is being prepared by Boone Arch Services of New Mexico, LLC. Carlsbad, NM, 88220. 506 E Chapman Rd., phone # 575.887.7667 and the results will be forwarded to your office in the near future. Otherwise, COG will be participating in the Permian Basin MOA Program.

13. Bond Coverage:

Bond Coverage is Nationwide Bond # 000215

14. Lessee's and Operator's Representative:

The COG Operating LLC representative responsible for assuring compliance with the surface use plan is as follows:

Jim Evans	Ray Peterson
Drilling Superintendent	Drilling Manager
COG Operating LLC	COG Operating LLC
One Concho Center	One Concho Center
600 W. Illinois	600 W. Illinois
Midland, TX 79701	Midland, TX 79701
Phone (432) 685-4304 (office)	Phone (432) 685-4304 (office)
(432) 221-0346 (business)	(432) 818-2254 (business)

Surface Use Plan
COG Operating, LLC
Twelve Pack Federal Com LLB 2H
SL: 850' FNL & 130' FEL UN 1
Section 1, T-17-S, R-29-E
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Eddy County, New Mexico

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently 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 COG Operating, LLC, 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. Executed this 1st day of May, 2013.

Signed:

Printed Name: Carl Bird

Position: Drilling Engineer

Address: One Concho Center, 600 W. Illinois, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: cbird@concho.com