i .									
	UNITED STATES EPARTMENT OF THE IN BUREAU OF LAND MANAC	TERIOR			OMB N Expires	APPROVED IO. 1004-0135 : July 31, 2010			
SUNDRY	5. Lease Serial No. NMNM94595								
Do not use th abandoned we	6. If Indian, Allottee	or Tribe Name							
		7 If Unit of CAIAge	eement, Name and/or No.						
SUBMIT IN TRI	IPLICATE - Other instruct	tions on revers	e side.		7. If Olik of CAVAgit	chicin, Name and/or No.			
1. Type of Well BB Oil Well Gas Well Ot	her	••• • •	8. Well Name and No. REDBUD FEDERAL 3						
2. Name of Operator COG OPERATING LLC		CELLY J HOLLY	Y 9. API Well No. 30-015-39759						
3a. Address 550 WEST TEXAS AVENUE MIDLAND, TX 79707		3b. Phone No. (ind Ph: 432-685-4		e)		ORIETA ÝESO,			
4. Location of Well (Footage, Sec.,)	T., R., M., or Survey Description,)			11. County or Parish,	and State			
Sec 25 T17S R27E Mer NMP	NENW 715FNL 1633FWL	-			EDDY COUNT	Y, NM			
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE NA	TURE OF	NOTICE, RE	PORT, OR OTHE	R DATA			
TYPE OF SUBMISSION			TYPE C	OF ACTION					
Ba Notice of Intent	□ ^{Acidize}	Deepen		النصا	on (Start/Resume)	□ Water Shut-Off			
Subsequent Report	Alter Casing	Fracture New Car		Reclama		Well Integrity			
Final Abandonment Notice	Casing Repair	□ New Cor □ Plug and		Recompl	rily Abandon	Real Other Change to Original A			
	Convert to Injection			Water Di		PD			
Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f COG Operating LLC submitte SHL: 715' FNL & 1633' FWL, BHL: 990' FNL & 1650' FWL, COG Operating LLC respectfu SHL: 622' FNL & 1520' FWL, BHL: 990' FNL & 1650' FWL,	l operations. If the operation rest bandonment Notices shall be filed inal inspection.) d APD for this well at this le Unit C Unit C ully requests permission to Unit C Unit C	ilts in a multiple con d only after all requi ocation: change the SHI	npletion or rea rements, inclu	completion in a n iding reclamation	Winterval, a Form 310, have been completed,	5 2013			
A revised C-102 and direction	al plan are attached.	ACC	epted	for recor	d NMOCD /	ARTESIA			
			NMC)CD 1es					
Fin OK	Ttaliz and				hon				
14. Thereby certify that the foregoing is				<u>/ 2</u>					
	Electronic Submission #14 For COG OP	ERATING LLC, s	ent to the C	Carlsbad	•				
Name(Printed/Typed) KELLY J		• • • • •	BEVERLY WEATHERFORD on 06/21/2012 () Title PERMITTING TECH						
						<u></u>			
Signature (Electronic S		Dat							
<u>A</u> A	THIS SPACE FOI	R FEDERAL O	R STATE	OFFICE US	E				
Approved By M/a	Sh	Tit	_{le} & F	FIELD MANAG	ER	Date 7/2/13			
certify that the applicant holds legal or equivient which would entitle the applicant to condu-	Conditions of approval, if any, are attached. Approval of this notice does not warrant or ertify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office CARLSBAD FIELD OFFICE								
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a c statements or representations as to	rime for any person o any matter within	knowingly an its jurisdiction	nd willfully to ma n.	ke to any department o	r agency of the United			

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4.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DISTRICT I 1825 N. Franch Dr., Hobbs, NM 88240 Phoma: (875) 393-6181 Fax: (575) 393-0720 DISTRICT II 811 S. Frat St., Artesia, NM 88210 Phome: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rib Brazes Road, Aztec, NM 87410 Phoma: (505) 334-8178 Fax: (505) 334-8170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phoma: (505) 478-3462 Fax: (505) 478-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Red Lake; Glor:	Pool Name			
30-015-391759	96836		Red Lake; Glorieta Yeso, I			
Property Code	Property Name REDBUD FEDERAL					
OGRID No.	Operator Name					
229137	COG OPERATING, LLC					

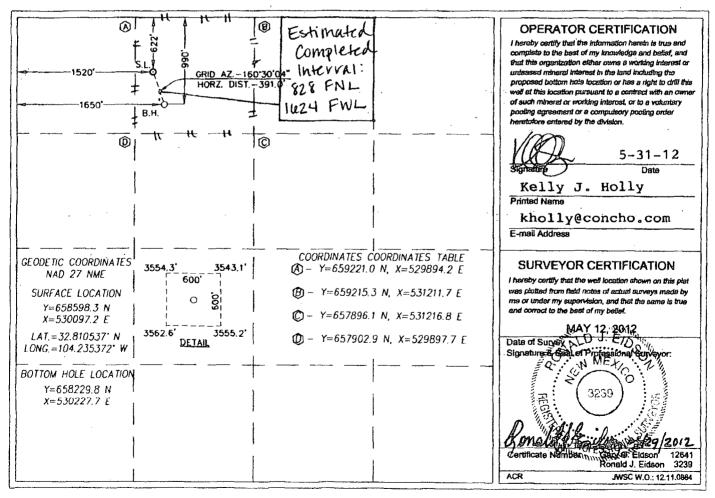
Surface Location

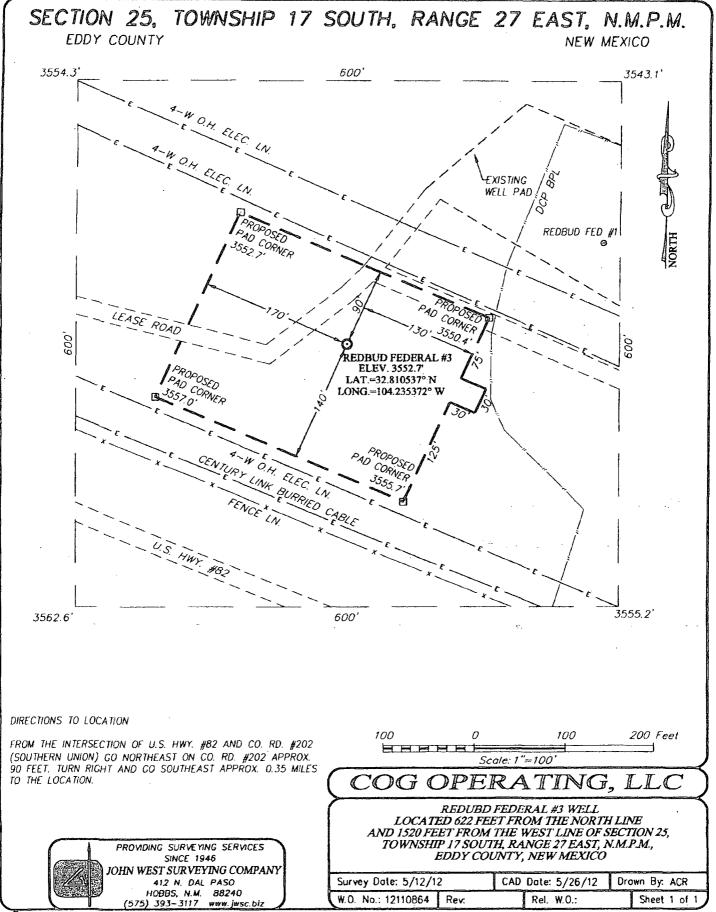
UL or lot No.	Section	Township	Range	Lot Idn '	Feet from the	North/South line	Feet from the	East/West line	County
С	25	17-S	27-E		622	NORTH	1520	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No. C	Section 25	Township 17-S	Range 27-E	Lot idn	Feet from the 990	North/South line	Feel from the 1650	East/West line WEST	County EDDY
Dedicated Acres Joint or Infill Consolidation Code			ode Ord	ar No.	······································		<u>, , , , , , , , , , , , , , , , , , , </u>		
. 40								•	

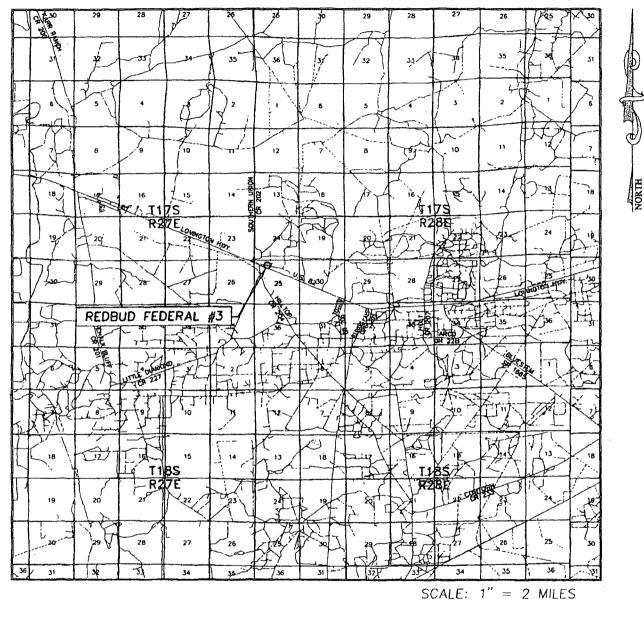
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIMSION

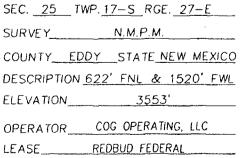


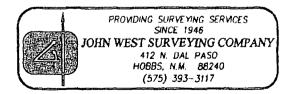


© Anjelica \2012 \Mack Energy Corporation \Wells

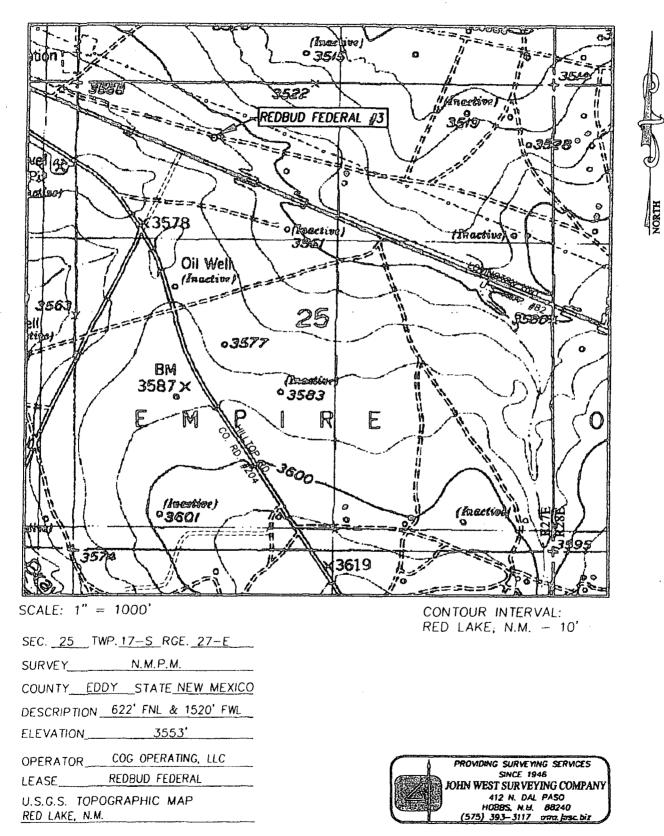
VICINITY MAP







LOCATION VERIFICATION MAP







COG Operating LLC Eddy County, NM (NAN27 NME) Redbud Federal #3

OH

Plan #4 7-7/8" Hole Surface: 622' FNL, 1520' FWL, Sec 25, T17S, R27E, Unit C BHL: 980' FNL, 1700' FWL, Sec 25, T17S, R27E, Unit C Top of Paddock = 208' South of Surface & 150' East of Surface @ 3200' 1

Standard Planning Report

12 June, 2012



»∛CO	NGH	0	Scientific	Drilling In Planning F		al, Inc.		Scientific Drilling
	EDM 5000.1 COG Operati	, NM (NAN27 oral #3 oral #3	D				Site Redbud Fee GL Elev @ 3554 GL Elev @ 3554 GL Elev @ 3554 Grid Minimum Curvet	taral #3 .00ush .00ush
Map System: Geo Datum: Map Zone:	US State Plane NAD 1927 (NAE New Mexico Ea	DCON CONUS	olution)	System Dr	atum:	·	; flean Sea Level	- 11 ¹ - 1 ⁻¹ - 12
Site Position: From: Position Uncertainty	Redbud Feder	al #3 0.00 usft	Northing: Easting: Slot Radius:		3,598.30 usft 0,087.20 usft 13-3/16 "	Latitude: Longitude: Grid Conver	gəncə:	32* 48' 37.933 M 104* 14' 7.341 W 0.05
Well Position Position Uncertainty	 Redbud Federa ♦№-S +E/-₩ 	al #3 0.00 usft 0.00 usft 0.00 usft	Northing: Easting: Wellheed Elevi	ation:	658,598.30 530,097.20	usft Lo	titudo: ngitudo: ound Levoi:	32° 48' 37.933 N 104* 14' 7.341 M 3,554.00 usf
		60 F2010	07/11/11	Deal	7.93		60.61	FLET 13 22 (617) 48,887
Ozalija Audit Notes: Version:	- Plan (/4 7-7/8*)	Hole	Phase:	PLAN	: The	о Ол Depth;	· c	
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0.00 950.00 1,264.40 4,771.73		0.00 95 53.28 1,26	0.00 0.00 60.00 0.00 13.77 -15.39 60.00 -358.50	0,00 0,00 7,75 180,50	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 48.75	0.00 0.00 153.28 0.00 PBHL-Redbud #3

COMPASS 5000.1 Build 40

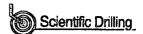
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Scientific Drilling International, Inc.

Planning Report

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EDM 5000.1 Single User Db COG Operating LLC Eddy County, NM (NAN27 NME) Redbud Federal (3 Redbud Federal (3 Cod Dud Federal (3 OH

Pian #4 7-7/8" Hole

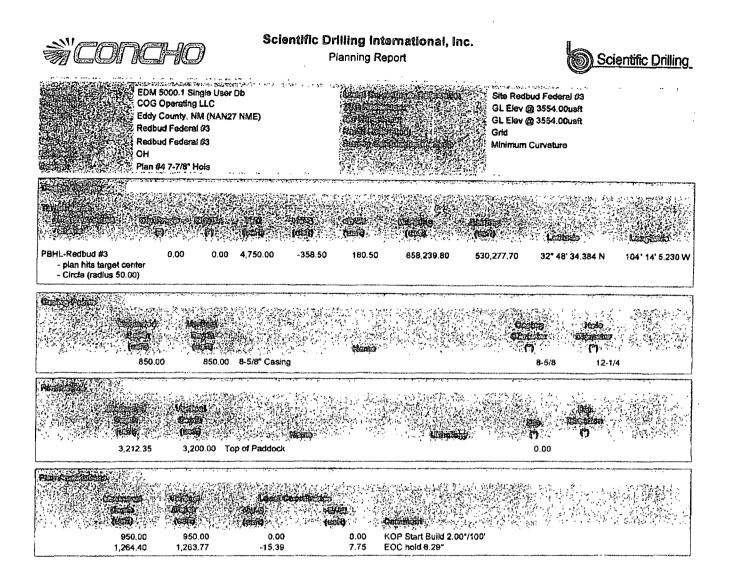
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Site Redbud Federal #3 GL Elev @ 3554.00uoft GL Elev @ 3554.00uoft Grid Minimum Curvature

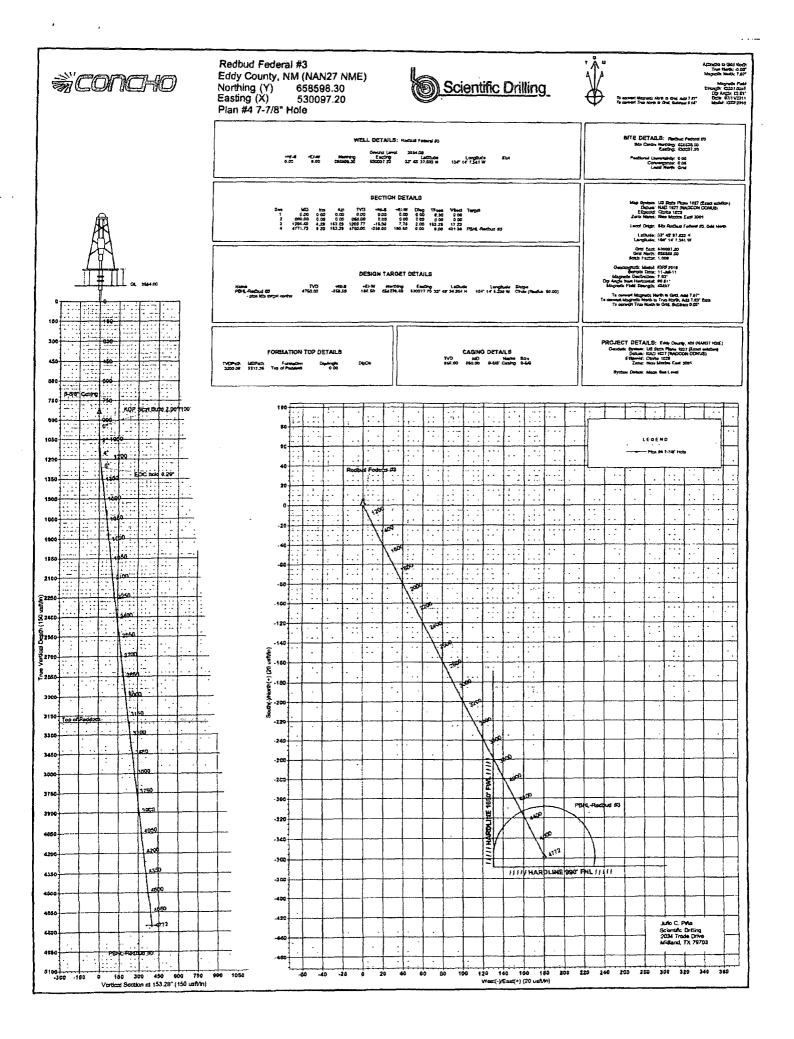
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8-6/8" Casing		0.00		0.00					
950.00	0.00	0.00	950.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Stort Build		450.00	4 000 00	0.00					
1,000.00	1.00	153.28	1,000.00	-0.39	0.20	0.44	2.00	2.00	0.00
1,100.00	3.00	153.28	1,099.93	-3.51	1.77	3.93	2.00	2.00	0.00
1,200.00	5.00	153.28	1,199.68	-9.74	4.90	10.90	2.00	2.00	0.00
1,284.40	6.29	153.28	1,263.77	-15.39	7.75	17.23	2.00	2.00	0.00
EOC hold 6.29°									
1,300.00	6.29	153.28	1,299.16	-18.88	9.50	21.13	0.00	0,00	0.00
1,400.00	6.29	153.28	1,398.55	-28.66	14.43	32.09	0.00	0.00	0.00
1,500.00	6.29	153.28	1,497.95	-38.44	19.35	43.04	0.00	0.00	0.00
1,600.00	6.29	153.28	1,597.35	-48.22	24.28	53.99	0.00	0.00	0.00
1,700.00	6.29	153.28	1,698.75	-58.01	29.21	64.94	0.00	0.00	0.00
1,800.00	6.29	153,28	1,798.15	-67.79	34.13	75.90	0,00	0.00	0.00
1,900.00	6.29	153.28	1,895.55	-77.57	39.06	86.85	0.00	0.00	0.00
2,000.00	6.29	153.28	1,994.94	-87.35	43.98	97.80	0.00	0.00	0.00
2,100.00	6.29	153.28	2.094.34	-97.14	48,91	108.75	0.00	0.00	0.00
2,200.00	6,29	153.28	2,193.74	-106.92	53.83	119.71	0.00	0.00	0.00
2,300.00	6.29	153.28	2,293,14	-116.70	58.76	130.66	0.00	0.00	0.00
2,400.00	6.29	153.28	2,392.54	-126.48	63.68	141.61	0.00	0.00	0.00
2,500.00	6.29	153.28	2,491.94	-136.27	68.61	152.56	0.00	0.00	0.00
2,600.00	6.29	153.28	2.591.33	-146.05	73.53	163.52	0.00	0.00	0.00
2,700.00	6.29	153.28	2,690.73	-155.83	78.46	174.47	0.00	0.00	0.00
2,800.00	8.29	153.28	2,790,13	-185.61	83.38	185.42	0.00	0.00	0.00
2,900.00	6.29	153.28	2,889.53	-175.40	88.31	198.37	0.00	0.00	0.00
3,000.00	6.29	153.28	2,988.93	-185.18	93,24	207.33	0.00	0.00	0.00
3,100.00	6.29	153.28	3,088.33	-194.96	98.16	218.28	0.00	0.00	0.00
3,200.00	6.29	153.28	3,187.72	-204.74 -205.95	103.09 103.69	229.23 230.58	0.00 0.00	0.00 0.00	0.00 0.00
3,212.35	6.29	153.28	3,200.00	-205,95	103.68	230.56	0.00	0.00	0.00
Top of Paddock									
3,229.09	6.29	153.28	3,216.64	-207.59	104.52	232.42	0.00	0.00	0.00
TG1-Rodbud (23		450.00	0.007.40	04.4 FO 1	405.04	240.40			0.00 ·
3,300.00	6.29	153.28	3,287.12	-214.53	108.01	240.18	0.00	0.00	0.00
3,400.00	6.29	153.28	3,386.52	-224.31	112.94	251.14	0.00	0.00	0.00
3,500.00	6.29	153.28	3,485.92	-234.09	117.86	262.09	0.00	0.00	0.00
3,600.00	6.29	153.28	3,585.32	-243.87	122.79	273.04	0.00	0.00	0.00
3,700.00	6.29	153.28	3,684.72	-253.66	127.71	283.99	0.00	0.00	0.00
3,800.00	6.29	153.28	3,784.12	-263.44	132.64	294.95	0.00	0.00	0.00
3,900.00	6.29	153.28	3,883.51	-273.22	137.56	305.90	0.00	0.00	0.00
4,000.00	6.29	153.28	3,982.91	-283.01	142.49	316.85	0.00	0.00	0.00
4,100.00	6.29	153.28	4,082.31	-292.79	147.41	327.80	0.00	0.00	0.00
4,200.00	6.29	153.28	4,181.71	-302.57	152.34	338.76	0.00	0.00	0.00
4,300.00	6.29	153.28	4,281.11	-312.35	157.27	349.71	0.00	0.00	0.00
4,400.00	6.29	153.28	4,380.51	-322.14	162.19	360.66	0.00	0.00	0.00
4,500.00	6.29	153.28	4,479.90	-331.92	167.12	371.61	0.00	0.00	0.00
4,600.00	6.29	153.28	4,579.30	-341.70	172.04	382.57	0.00	0.00	0.00
4,700.00	6.29	153.28	4,678.70	-351.48	176.97	393.52	0.00	0.00	0.00
4,771,73	6,29	153,28	4,750.00	-358.50	180.50	401.38	0.00	0.00	0.00
PBHL-Redbud (3									



COMPASS 5000.1 Build 40



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NM-94595
WELL NAME & NO.:	Redbud Federal #3
SURFACE HOLE FOOTAGE:	715' FNL & 1633' FWL
BOTTOM HOLE FOOTAGE	990' FNL & 1650' FWL
LOCATION:	Section 25, T. 17 S., R. 27 E., NMPM
COUNTY:	Eddy County, New Mexico

I. SPECIAL REQUIREMENT(S)

Recontour drainage after interim reclamation has taken place on west side

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

:1

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.