

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**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.*FORM APPROVED
OMB NO 1004-0135
Expires, July 31, 20105. Lease Serial No.
NMLC029405A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
BC FEDERAL 349. API Well No.
30-025-39607-00-X110. Field and Pool, or Exploratory
MALJAMAR, Yeso, West11. County or Parish, and State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact ROBYN ODOM
E-Mail rodom@conchoresources.com3a. Address
550 W TEXAS AVE SUITE 1300
MIDLAND, TX 797013b. Phone No. (include area code)
Ph. 432.685.4385

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T17S R32E NWNW 990FNL 1190FWL
32.82459 N Lat, 103.81011 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☒ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BHL: 990' FNL & 990' FWL Sec.19,T17S,R32E.

APD total depth 6800'.

COG Operating respectfully requests permission to change the TD to 6900'.

14. I hereby certify that the foregoing is true and correct

Electronic Submission #80605 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by KURT SIMMONS on 01/26/2010 (10KMS0209SE)

Name (Printed/Typed) ROBYN ODOM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/26/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MYLES KRISTOF

Title PETROLEUM ENGINEER

Date 01/28/2010

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify 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 Hobbs

PETROLEUM ENGINEER
FEB 09 2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



COG Operating LLC

Lea County, NM (NAD27 NME)

BC Federal #34

BC Federal #34

OH

RECEIVED

FEB 08 2010

HOBBSOCD

Plan: Plan #2 - 7-7/8" Hole

SHL = 990' FNL & 1190' FWL

BHL = 940' FNL & 940' FWL

Top of Paddock = 940' FNL & 940' FWL @ 5300' TVD

Standard Planning Report

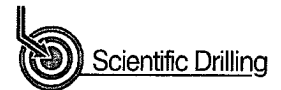
23 July, 2009



Scientific Drilling



Scientific Drilling
Planning Report



Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well BC Federal #34
Company:	COG Operating LLC	TVD Reference:	Ground Elev @ 3942.00ft (Rig ?)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	Ground Elev @ 3942.00ft (Rig ?)
Site:	BC Federal #34	North Reference:	Gnd
Well:	BC Federal #34	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 - 7-7/8" Hole		

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	BC Federal #34		
Site Position:	Map	Northing:	664,093 90 ft
From:		Easting:	660,729 30 ft
Position Uncertainty:	0 00 ft	Slot Radius:	0 "
		Latitude:	32° 49' 28.515 N
		Longitude:	103° 48' 36.394 W
		Grid Convergence:	0 28 "

Well	BC Federal #34		
Well Position	+N/-S	0 00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	Ground Level:
			3,942.00 ft

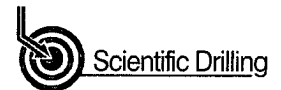
Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	2009/07/23	7 96
			Dip Angle
			(°)
			60 77
			Field Strength
			(nT)
			49,167

Design	Plan #2 - 7-7/8" Hole		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0 00
			Direction
			(°)
			281 18

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00	
2,200 00	0 00	0 00	2,200 00	0.00	0.00	0 00	0 00	0 00	0 00	
2,456 03	5 12	281 18	2,455 69	2 22	-11 22	2 00	2.00	0 00	281 18	
5,055 02	5 12	281.18	5,044.31	47 18	-238 78	0.00	0.00	0 00	0 00	
5,311 05	0.00	0 00	5,300 00	49 40	-250 00	2.00	-2.00	0.00	180 00	
7,161 05	0 00	0 00	7,150 00	49 40	-250 00	0 00	0 00	0 00	0.00 PBHL-BCF #34	



Scientific Drilling
Planning Report



Database:	EDM-5000.1-Single User Db	Local Co-ordinate Reference:	Well BC Federal #34
Company:	COG Operating LLC	TVD Reference:	Ground Elev. @ 3942.00ft (Rig ?)
Project:	Lea County NM (NAD27 NME)	MD Reference:	Ground Elev. @ 3942.00ft (Rig ?)
Site:	BC Federal #34	North Reference:	Gnd
Well:	BC Federal #34	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 - 7-7/8" Hole		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	0 00	0 00
North HL-BCF #34 - West HL-BCF #34									
2,200 00	0 00	0 00	2,200 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP Start Build 2.00°/100'									
2,300 00	2 00	281 18	2,299 98	0 34	-1 71	1.75	2 00	2 00	0 00
2,400 00	4 00	281 18	2,399 84	1.35	-6 85	6.98	2 00	2 00	0 00
2,456 03	5 12	281 18	2,455 69	2 22	-11 22	11 43	2 00	2 00	0 00
EOC hold 5.12°									
2,500 00	5 12	281.18	2,499.48	2 98	-15 07	15 36	0 00	0 00	0 00
2,600 00	5 12	281 18	2,599 08	4.71	-23 82	24 28	0 00	0 00	0 00
2,700 00	5 12	281 18	2,698 69	6 44	-32 58	33 21	0 00	0 00	0 00
2,800 00	5.12	281.18	2,798 29	8 17	-41.33	42 13	0 00	0 00	0 00
2,900 00	5 12	281 18	2,897 89	9.90	-50 09	51.06	0 00	0 00	0 00
3,000 00	5 12	281 18	2,997.49	11 63	-58 85	59 98	0 00	0 00	0 00
3,100 00	5 12	281 18	3,097 09	13 36	-67 60	68 91	0 00	0 00	0 00
3,200 00	5 12	281 18	3,196 69	15 09	-76 36	77 83	0 00	0 00	0 00
3,300 00	5.12	281.18	3,296 29	16 82	-85 11	86 76	0 00	0 00	0 00
3,400 00	5.12	281 18	3,395.89	18.55	-93 87	95 69	0 00	0 00	0 00
3,500 00	5 12	281 18	3,495 49	20 28	-102.63	104 61	0 00	0 00	0 00
3,600 00	5.12	281.18	3,595 09	22 01	-111 38	113 54	0 00	0 00	0 00
3,700 00	5 12	281 18	3,694 69	23 74	-120 14	122 46	0 00	0 00	0 00
3,800 00	5 12	281 18	3,794 30	25.47	-128 89	131 39	0 00	0 00	0 00
3,900 00	5 12	281 18	3,893 90	27 20	-137.65	140 31	0 00	0 00	0 00
4,000 00	5.12	281.18	3,993 50	28 93	-146 41	149 24	0 00	0 00	0 00
4,100 00	5 12	281 18	4,093 10	30 66	-155 16	158 16	0 00	0 00	0 00
4,200 00	5 12	281 18	4,192 70	32 39	-163 92	167 09	0 00	0 00	0 00
4,300 00	5 12	281 18	4,292 30	34.12	-172 67	176 01	0 00	0 00	0 00
4,400 00	5.12	281.18	4,391 90	35.85	-181 43	184 94	0 00	0 00	0 00
4,500 00	5.12	281 18	4,491 50	37 58	-190 19	193 86	0 00	0 00	0 00
4,600 00	5 12	281 18	4,591 10	39 31	-198.94	202 79	0 00	0 00	0 00
4,700 00	5.12	281.18	4,690 70	41 04	-207 70	211 71	0 00	0 00	0 00
4,800 00	5.12	281.18	4,790 30	42.77	-216 45	220 64	0 00	0 00	0 00
4,900 00	5.12	281 18	4,889 91	44 50	-225 21	229 56	0 00	0 00	0 00
5,000 00	5.12	281 18	4,989 51	46 23	-233 97	238 49	0 00	0 00	0 00
5,055 02	5 12	281 18	5,044 31	47 18	-238.78	243 40	0 00	0 00	0 00
Start Drop 2.00°/100'									
5,100 00	4.22	281.18	5,089 14	47.89	-242 38	247 06	2 00	-2 00	0 00
5,200 00	2 22	281 18	5,188 97	48 98	-247 89	252 68	2.00	-2 00	0 00
5,300 00	0 22	281 18	5,288 95	49 40	-249.98	254 81	2 00	-2 00	0 00
5,311 05	0 00	0 00	5,300 00	49 40	-250 00	254 83	2 00	-2 00	0 00
EOC hold 0.00°/- PP-BCF #34									
7,161 05	0 00	0 00	7,150 00	49 40	-250 00	254 83	0 00	0 00	0 00
PBHL-BCF #34									



Scientific Drilling

Planning Report



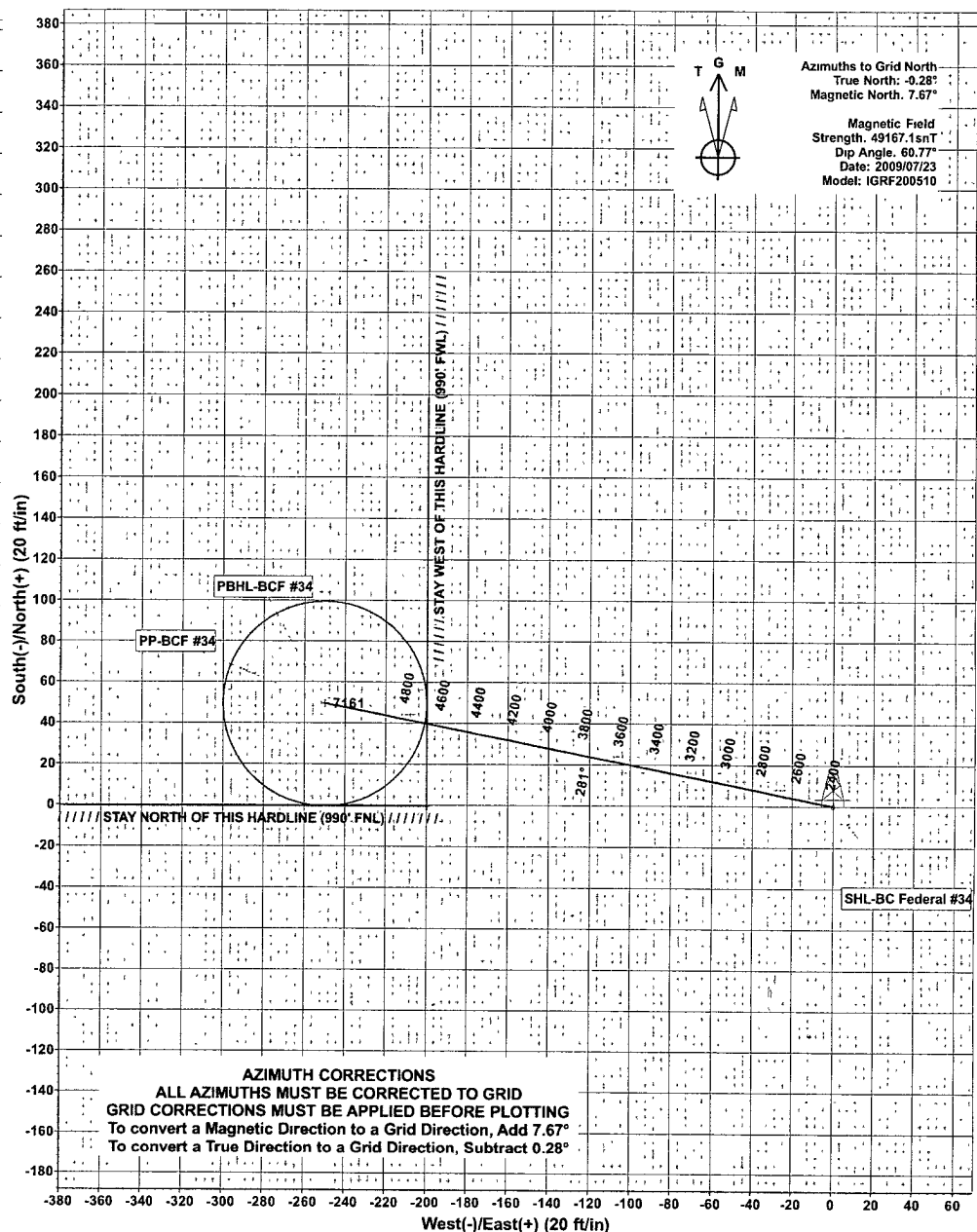
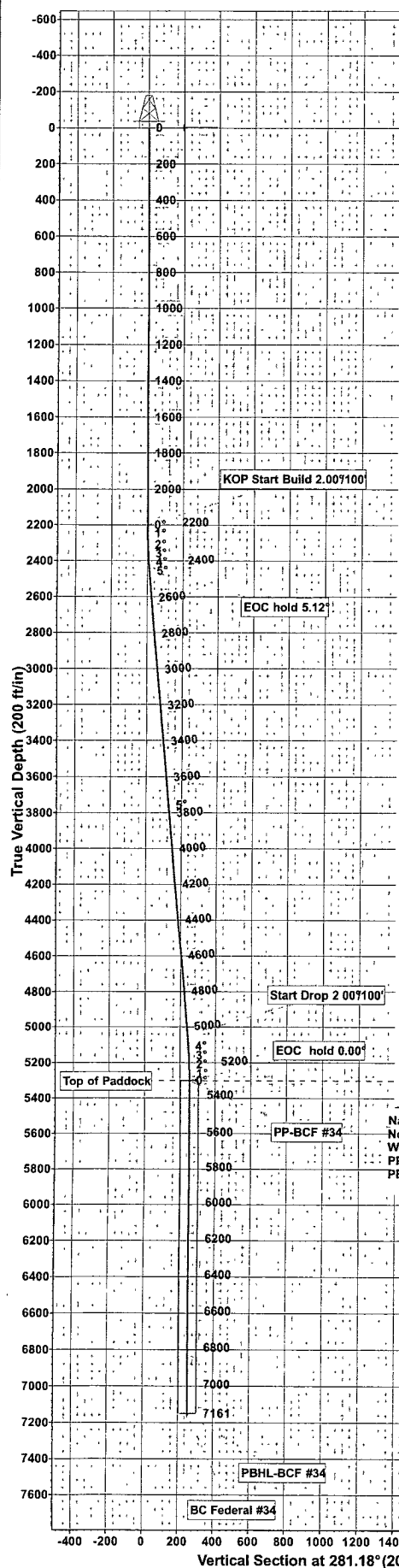
Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well BC Federal #34
Company:	COG Operating LLC	TVD Reference:	Ground Elev. @ 3942 00ft (Rig ?)
Project:	Lea County NM (NAD27 NME)	MD Reference:	Ground Elev. @ 3942 00ft (Rig ?)
Site:	BC Federal #34	North Reference:	Grid
Well:	BC Federal #34	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 - 7 7/8" Hole		

Design Targets									
Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
North HL-BCF #34	0 00	0 01	0 00	-0 60	-200 00	664,093 30	660,529 30	32° 49' 28.519 N	103° 48' 38.737 W
- plan misses target center by 200 00ft at 0 00ft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W200 00 H0 00 D0 00)									
West HL-BCF #34	0.00	0 01	0.00	-0 60	-200.00	664,093.30	660,529 30	32° 49' 28.519 N	103° 48' 38.737 W
- plan misses target center by 200 00ft at 0 00ft MD (0 00 TVD, 0 00 N, 0 00 E)									
- Rectangle (sides W0 00 H200.00 D0 00)									
PBHL-BCF #34	0 00	0.01	7,150.00	49 40	-250 00	664,143 30	660,479 30	32° 49' 29.016 N	103° 48' 39.320 W
- plan hits target center									
- Circle (radius 50.00)									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
2,200.00	2,200 00	0 00	0 00	KOP Start Build 2 00°/100'
2,456 03	2,455 69	2 22	-11 22	EOC hold 5 12°
5,055.02	5,044.31	47 18	-238 78	Start Drop 2 00°/100'
5,311 05	5,300 00	49 40	-250 00	EOC hold 0.00°



Scientific Drilling for COG Operating LLC
Site: Lea County, NM (NAD27 NME)
Well: BC Federal #34
Wellbore: OH
Design: Plan #2 - 7-7/8" Hole



ALL AZIMUTHS MUST BE CORRECTED TO GRID
GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
To convert a Magnetic Direction to a Grid Direction, Add 7.67°
To convert a True Direction to a Grid Direction, Subtract 0.28°

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
North HL-BCF #34	0.00	-0.60	-200.00	664093.30	660529.30	32°49' 28.519 N	103°48' 38.737 W	Rectangle (Sides: L 0 00 W200 00)
West HL-BCF #34	0.00	-0.60	-200.00	664093.30	660529.30	32°49' 28.519 N	103°48' 38.737 W	Rectangle (Sides: L 200.00 W0.00)
PP-BCF #34	5300.00	49.40	-250.00	664143.30	660479.30	32°49' 29.016 N	103°48' 39.320 W	Circle (Radius: 50 00)
PBHL-BCF #34	7150.00	49.40	-250.00	664143.30	660479.30	32°49' 29.016 N	103°48' 39.320 W	Circle (Radius: 50 0 0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	
3	2456.03	5.12	281.18	2456.69	2.22	-11.22	2.00	281.18	11.43	
4	5055.02	5.12	281.18	5044.31	47.18	-238.78	0.00	0.00	243.40	
5	5311.05	0.00	0.00	5300.00	49.40	-250.00	2.00	180.00	254.83	
6	7161.05	0.00	0.00	7150.00	49.40	-250.00	0.00	0.00	254.83	PBHL-BCF #34

WELL DETAILS: BC Federal #34

+N/-S	+E/-W	Ground Level:	3942.00
0.00	0.00	Northing	664093.90
		Easting	660729.30
		Latitude	32°49' 28.515 N
		Longitude	103°48' 38.394 W

PROJECT DETAILS: Lea County, NM (NAD27 NME) Plan. Plan #2 - 7-7/8" Hole (BC Federal #34/OH)

Geodetic System:	US State Plane 1927 (Exact solution)	Created By:	Julio Pina	Date:	23-Jul-09
Datum:	NAD 1927 (NADCON CONUS)	Checked:		Date:	
Ellipsoid:	Clarke 1866	Reviewed:		Date:	
Zone:	New Mexico East 3001	Approved:		Date:	
System Datum:	Mean Sea Level				