

NM OIL CONSERVATION
UNITED STATES ARTESIA DISTRICT
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
AUG 13 2015FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

I & E CFO

5. Lease Serial No.
NMNM7752

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
HOBGOBLIN 7 FEDERAL COM 13H9. API Well No.
30-015-41814-00-X110. Field and Pool, or Exploratory
LOCO HILLS11. County or Parish, and State
EDDY 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: KELLY J HOLLY
E-Mail: kholly@concho.com3a. Address
ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432.685.4384 HOBBS OCD

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

Sec 7 T17S R30E SENE 1650FNL 0150FEL
32.851660 N Lat, 104.002740 W Lon

AUG 11 2015

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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleate 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 recompleation 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.)

COG Operating LLC respectfully requests permission to change the TVD of this well is follows:

FROM: 4552' TVD; 9121' MD; EOC 4625' TVD
TO: 4502' TVD; 9070' MD; EOC 4575' TVD

A revised directional plan are attached.

LED 8/14/15
accepted for record
NMISCD

original costs still stand

additional cement may be needed on 7x5-1/2" casing,
~ 2% excess

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

Electronic Submission #311790 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER SANCHEZ on 08/06/2015 (15JAS0471SE)

Name (Printed/Typed) KELLY J HOLLY

Title PERMITTING TECH

Signature (Electronic Submission)

Date 08/06/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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.

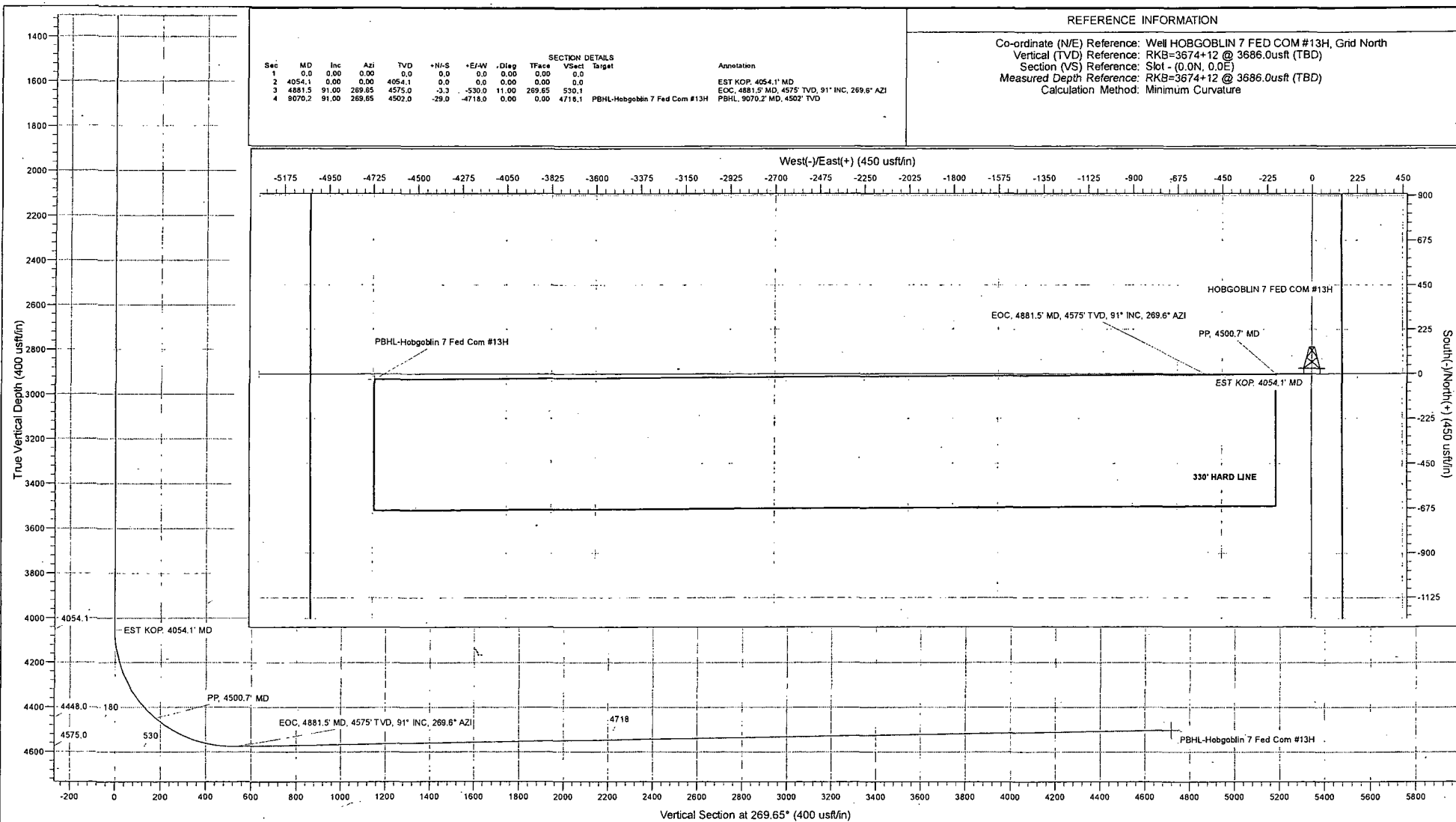
Office

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 **



Project: EDDY COUNTY, NM
 Site: LOCO HILLS
 Well: HOBGOBLIN 7 FED COM #13H
 Wellbore: OWB
 Design: PWP0





**COG Operating LLC
NEW MEXICO SHELF**

**EDDY COUNTY, NM
LOCO HILLS
HOBGOBLIN 7 FED COM #13H**

OWB

Plan: PWP0

SHL: 1650' FNL, 150' FEL, SEC. 7, T17S, R30E, UNIT H

PP: 1650' FNL, 330' FEL, SEC. 7, T17S, R30E, UNIT H

BHL: 1650' FNL, 330' FWL, SEC. 7, T17S, R30E, LOT 2

Standard Planning Report

19 May, 2015



COG Operating LLC
Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well: HOBGOBLIN 7 FED COM #13H
Company:	NEW MEXICO SHELF	TVD Reference:	RKB=3674+12 @ 3686.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	RKB=3674+12 @ 3686.0usft (TBD)
Site:	LOCO HILLS	North Reference:	Grid
Well:	HOBGOBLIN 7 FED COM #13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project:	EDDY COUNTY, NM		
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:	LOCO HILLS		
Site Position:	Northing:	674,351.30 usft	Latitude: 32° 51' 12.377 N
From: Map	Easting:	601,657.80 usft	Longitude: 104° 0' 8.270 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.18 °

Well:	HOBGOBLIN 7 FED COM #13H		
Well Position	+N/-S	-645.6 usft	Northing: 673,705.70 usft
	+E/-W	-132.8 usft	Easting: 601,525.00 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	0.0 usft
		Ground Level:	3,674.0 usft

Wellbore:	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	WMM_2005	12/31/2009	8.00
			Dip Angle (°)
			60.73
			Field Strength (nT)
			49,116

Design:	PWP0		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	4,502.0	0.0	0.0
			Direction (°)
			269.65

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth (usft)	(°)	(°)	Depth (usft)	(usft)	(usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,054.1	0.00	0.00	4,054.1	0.0	0.0	0.00	0.00	0.00	0.00	
4,881.5	91.00	269.65	4,575.0	-3.3	-530.0	11.00	11.00	0.00	269.65	
9,070.2	91.00	269.65	4,502.0	-29.0	-4,718.0	0.00	0.00	0.00	0.00	PBHL-Hobgoblin 7 Fe



COG Operating LLC

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Project:	EDDY COUNTY, NM	MD Reference:	RKB=3674+12 @ 3686.0usft (TBD)
Site:	LOCO HILLS	North Reference:	Grid
Well:	HOBGOBLIN 7 FED/COM #13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWR0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	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	
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	1,100.0	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	
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	
1,700.0	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	
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	3,100.0	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	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	
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	
3,900.0	0.00	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	
4,054.1	0.00	0.00	4,054.1	0.0	0.0	0.0	0.00	0.00	0.00	
EST KOP: 4054.1 MD										
4,100.0	5.05	269.65	4,099.9	0.0	-2.0	2.0	11.00	11.00	0.00	
4,200.0	16.05	269.65	4,198.1	-0.1	-20.3	20.3	11.00	11.00	0.00	
4,300.0	27.04	269.65	4,291.0	-0.4	-57.0	57.0	11.00	11.00	0.00	
4,400.0	38.04	269.65	4,375.1	-0.7	-110.7	110.7	11.00	11.00	0.00	
4,500.0	49.04	269.65	4,447.5	-1.1	-179.5	179.5	11.00	11.00	0.00	
4,500.7	49.12	269.65	4,448.0	-1.1	-180.0	180.0	11.00	11.00	0.00	
PP: 4500.7 MD										
4,600.0	60.04	269.65	4,505.4	-1.6	-260.8	260.8	11.00	11.00	0.00	
4,700.0	71.03	269.65	4,546.8	-2.2	-351.7	351.7	11.00	11.00	0.00	
4,800.0	82.03	269.65	4,570.0	-2.8	-448.8	448.8	11.00	11.00	0.00	
4,881.5	91.00	269.65	4,575.0	-3.3	-530.0	530.0	11.00	11.00	0.00	



COG Operating LLC
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Site:	LOCO HILLS	North Reference:	Grid
Well:	HOBGOBLIN 7 FED.COM #13H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWR0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
EOC: 4881.5 MD: 4575 TVD: 91 INC: 269.6 AZ:									
4,900.0	91.00	269.65	4,574.7	-3.4	-548.5	548.5	0.01	0.01	0.00
5,000.0	91.00	269.65	4,572.9	-4.0	-648.5	648.5	0.00	0.00	0.00
5,100.0	91.00	269.65	4,571.2	-4.6	-748.5	748.5	0.00	0.00	0.00
5,200.0	91.00	269.65	4,569.4	-5.2	-848.5	848.5	0.00	0.00	0.00
5,300.0	91.00	269.65	4,567.7	-5.8	-948.4	948.5	0.00	0.00	0.00
5,400.0	91.00	269.65	4,566.0	-6.4	-1,048.4	1,048.4	0.00	0.00	0.00
5,500.0	91.00	269.65	4,564.2	-7.1	-1,148.4	1,148.4	0.00	0.00	0.00
5,600.0	91.00	269.65	4,562.5	-7.7	-1,248.4	1,248.4	0.00	0.00	0.00
5,700.0	91.00	269.65	4,560.7	-8.3	-1,348.4	1,348.4	0.00	0.00	0.00
5,800.0	91.00	269.65	4,559.0	-8.9	-1,448.4	1,448.4	0.00	0.00	0.00
5,900.0	91.00	269.65	4,557.2	-9.5	-1,548.3	1,548.4	0.00	0.00	0.00
6,000.0	91.00	269.65	4,555.5	-10.1	-1,648.3	1,648.4	0.00	0.00	0.00
6,100.0	91.00	269.65	4,553.8	-10.7	-1,748.3	1,748.3	0.00	0.00	0.00
6,200.0	91.00	269.65	4,552.0	-11.4	-1,848.3	1,848.3	0.00	0.00	0.00
6,300.0	91.00	269.65	4,550.3	-12.0	-1,948.3	1,948.3	0.00	0.00	0.00
6,400.0	91.00	269.65	4,548.5	-12.6	-2,048.3	2,048.3	0.00	0.00	0.00
6,500.0	91.00	269.65	4,546.8	-13.2	-2,148.2	2,148.3	0.00	0.00	0.00
6,600.0	91.00	269.65	4,545.0	-13.8	-2,248.2	2,248.3	0.00	0.00	0.00
6,700.0	91.00	269.65	4,543.3	-14.4	-2,348.2	2,348.3	0.00	0.00	0.00
6,800.0	91.00	269.65	4,541.6	-15.0	-2,448.2	2,448.2	0.00	0.00	0.00
6,900.0	91.00	269.65	4,539.8	-15.7	-2,548.2	2,548.2	0.00	0.00	0.00
7,000.0	91.00	269.65	4,538.1	-16.3	-2,648.2	2,648.2	0.00	0.00	0.00
7,100.0	91.00	269.65	4,536.3	-16.9	-2,748.1	2,748.2	0.00	0.00	0.00
7,200.0	91.00	269.65	4,534.6	-17.5	-2,848.1	2,848.2	0.00	0.00	0.00
7,300.0	91.00	269.65	4,532.8	-18.1	-2,948.1	2,948.2	0.00	0.00	0.00
7,400.0	91.00	269.65	4,531.1	-18.7	-3,048.1	3,048.1	0.00	0.00	0.00
7,500.0	91.00	269.65	4,529.4	-19.4	-3,148.1	3,148.1	0.00	0.00	0.00
7,600.0	91.00	269.65	4,527.6	-20.0	-3,248.1	3,248.1	0.00	0.00	0.00
7,700.0	91.00	269.65	4,525.9	-20.6	-3,348.0	3,348.1	0.00	0.00	0.00
7,800.0	91.00	269.65	4,524.1	-21.2	-3,448.0	3,448.1	0.00	0.00	0.00
7,900.0	91.00	269.65	4,522.4	-21.8	-3,548.0	3,548.1	0.00	0.00	0.00
8,000.0	91.00	269.65	4,520.7	-22.4	-3,648.0	3,648.1	0.00	0.00	0.00
8,100.0	91.00	269.65	4,518.9	-23.0	-3,748.0	3,748.0	0.00	0.00	0.00
8,200.0	91.00	269.65	4,517.2	-23.7	-3,848.0	3,848.0	0.00	0.00	0.00
8,300.0	91.00	269.65	4,515.4	-24.3	-3,947.9	3,948.0	0.00	0.00	0.00
8,400.0	91.00	269.65	4,513.7	-24.9	-4,047.9	4,048.0	0.00	0.00	0.00
8,500.0	91.00	269.65	4,511.9	-25.5	-4,147.9	4,148.0	0.00	0.00	0.00
8,600.0	91.00	269.65	4,510.2	-26.1	-4,247.9	4,248.0	0.00	0.00	0.00
8,700.0	91.00	269.65	4,508.5	-26.7	-4,347.9	4,347.9	0.00	0.00	0.00
8,800.0	91.00	269.65	4,506.7	-27.3	-4,447.8	4,447.9	0.00	0.00	0.00
8,900.0	91.00	269.65	4,505.0	-28.0	-4,547.8	4,547.9	0.00	0.00	0.00
9,000.0	91.00	269.65	4,503.2	-28.6	-4,647.8	4,647.9	0.00	0.00	0.00
9,070.2	91.00	269.65	4,502.0	-29.0	-4,718.0	4,718.1	0.00	0.00	0.00
PBHL: 9070.2 MD: 4502 TVD:									



COG Operating LLC

Planning Report

Database:	EDM Users:	Local Co-ordinate Reference:	Well: HOBGOBLIN 7 FED COM #13H
Company:	NEW MEXICO SHELF	TVD Reference:	RKB=3674+12 @ 3686.0usft (TBD)
Project:	EDDY COUNTY NM	MD Reference:	RKB=3674+12 @ 3686.0usft (TBD)
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Well:	HOBGOBLIN 7 FED COM #13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWR0		

Design Targets									
Target Name									
hit/miss target	Dip Angle	Dip Dir	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL-Hobgoblin 7 Fed t	0.00	0.00	4,502.0	-29.0	-4,718.0	673,676.70	596,807.00	32° 51' 5.848 N	104° 1' 5.159 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/S	+E/W	
(usft)	(usft)	(usft)	(usft)	
4,054.1	4,054.1	0.0	0.0	EST KOP. 4054.1' MD
4,500.7	4,448.0	-1.1	-180.0	PP, 4500.7' MD
4,881.5	4,575.0	-3.3	-530.0	EOC, 4881.5' MD, 4575' TVD, 91° INC, 269.6° AZI
9,070.2	4,502.0	-29.0	-4,718.0	PBHL, 9070.2' MD, 4502' TVD