

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM 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.

OCD Artesia

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 UBB 2H
9. API Well No. 30-015-41813-00-X1
10. Field and Pool, or Exploratory LOCO HILLS
11. County or Parish, and State EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator COG OPERATING LLC	
Contact: ROBYN M ODOM E-Mail: rodom@concho.com	
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4385
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T17S R30E NENE 1005FNL 15FEL 32.853440 N Lat, 104.002300 W Lon	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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:

FROM: 5525'TVD; 10230'MD
TO: 5025'TVD; 9729'MD

Attached is the revised Directional Plan.

Accepted for record
NMOC D 105
6614

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 06 2014

RECEIVED

The original COAs still stand.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #240169 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by ANGEL MAYES on 05/06/2014 (14AXM0089SE)	
Name (Printed/Typed) ROBYN M ODOM	Title PERSON RESPONSIBLE
Signature (Electronic Submission)	Date 03/26/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED
JUN 2 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

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.

COG OPERATING, LLC

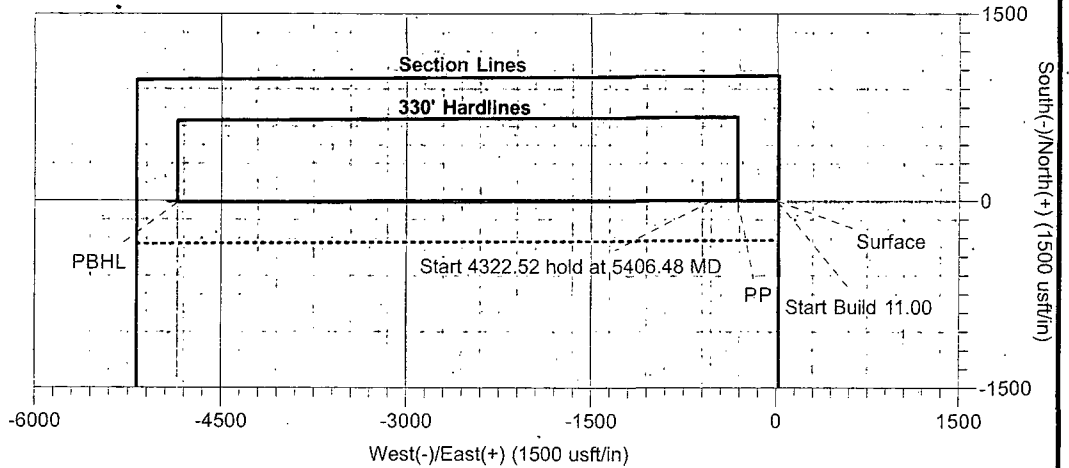


Field: Eddy County, NM
 Site: Hobgoblin 7 Federal Com UBB 2H
 Well: 2H
 Wellbore: Lateral
 Plan: Plan #1



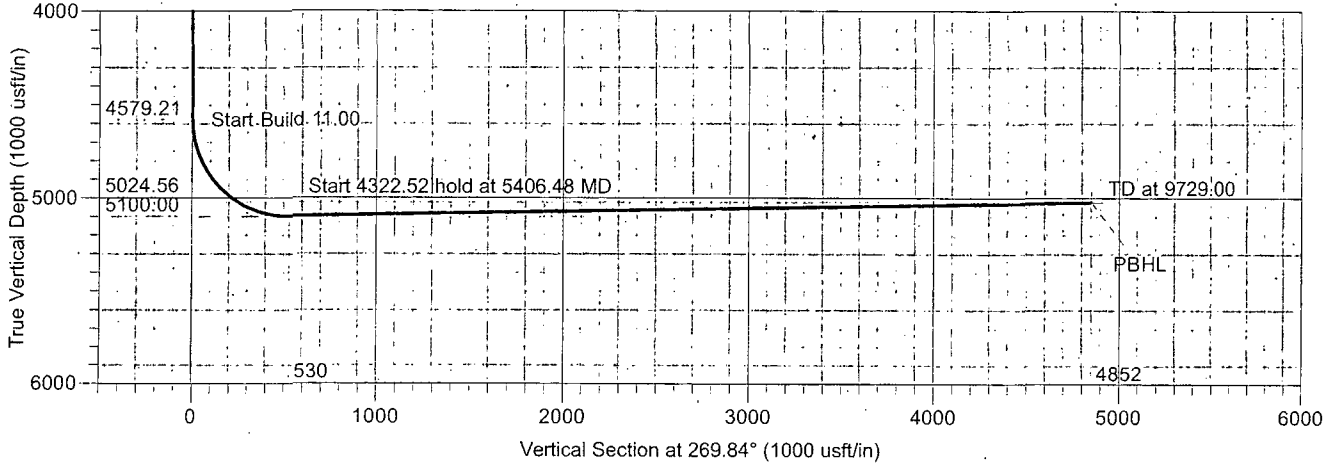
Azimuths to Grid North
 True North: -0.18°
 Magnetic North: 7.32°

Magnetic Field
 Strength: 48677.4snT
 Dip Angle: 60.63°
 Date: 2/18/2014
 Model: IGRF2010



Section Distances

Sec7,T17S,R30E
 SHL - Unit A
 1005'FNL, 15'FEL
 PP
 1004'FNL, 330'FEL
 PBHL - Lot 1
 988'FNL, 330'FWL



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Hobgoblin 2H PP	0.00	-0.86	-315.06	674350.44	601342.74	32° 51' 12.38 N	104° 0' 11.96 W	Point
Hobgoblin 2H Surface	0.00	0.00	0.00	674351.30	601657.80	32° 51' 12.38 N	104° 0' 8.27 W	Point
Hobgoblin 2H PBHL	5024.56	-13.30	-4851.80	674338.00	596806.00	32° 51' 12.39 N	104° 1' 5.15 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4579.21	0.00	0.00	4579.21	0.00	0.00	0.00	0.00	0.00	
3	5406.48	91.00	269.84	5100.00	-1.45	-529.96	11.00	269.84	529.96	
4	9729.00	91.00	269.84	5024.56	-13.30	-4851.80	0.00	0.00	4851.82	Hobgoblin 2H PBHL



ARCHER DIRECTIONAL DRILLING SERVICES
 12101 Cutten Rd. Houston, Texas 77066
 Phone: 281-301-2600 Fax: 281-301-2795

Design: Plan #1 (2H/Lateral)
 Created By: Ivonne Gonzalez
 Date: 12:51, February 18 2014

COG OPERATING, LLC

Eddy County, NM

Hobgoblin 7 Federal Com UBB 2H
2H

Lateral

Plan: Plan #1

Standard Planning Report

18 February, 2014

Section Distances

Sec7,T17S,R30E

SHL - Unit A

1005'FNL, 15'FEL

PP

1004'FNL, 330'FEL

PBHL - Lot 1

988'FNL, 330'FWL

Archer Planning Report

Database:	EDM R5000.1 MULTI	Local Co-ordinate Reference:	Well 2H
Company:	COG OPERATING, LLC	TVD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Site:	Hobgoblin 7 Federal Com UBB 2H	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

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:	Hobgoblin 7 Federal Com UBB 2H				
Site Position:	Map	Northing:	674,351.30 usft	Latitude:	32° 51' 12.38 N
From:		Easting:	601,657.80 usft	Longitude:	104° 0' 8.27 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.18 °

Well:	2H					
Well Position	+N/-S	0.00 usft	Northing:	674,351.30 usft	Latitude:	32° 51' 12.38 N
	+E/-W	0.00 usft	Easting:	601,657.80 usft	Longitude:	104° 0' 8.27 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,671.00 usft

Wellbore:	Lateral				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2/18/2014	(°)	(°)	(nT)
			7.50	60.63	48,677

Design:	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	269.84	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,579.21	0.00	0.00	4,579.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,406.48	91.00	269.84	5,100.00	-1.45	-529.96	11.00	11.00	0.00	269.84	
9,729.00	91.00	269.84	5,024.56	-13.30	-4,851.80	0.00	0.00	0.00	0.00	Hobgoblin 2H PBHL

Archer Planning Report

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Company:	COG OPERATING, LLC	TVD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Site:	Hobgoblin 7 Federal Com UBB 2H	North Reference:	Grid:
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	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	
2,300.00	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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,579.21	0.00	0.00	4,579.21	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 11.00										
4,600.00	2.29	269.84	4,599.99	0.00	-0.41	0.41	11.00	11.00	0.00	
4,650.00	7.79	269.84	4,649.78	-0.01	-4.80	4.80	11.00	11.00	0.00	
4,700.00	13.29	269.84	4,698.92	-0.04	-13.94	13.94	11.00	11.00	0.00	
4,750.00	18.79	269.84	4,746.96	-0.08	-27.75	27.75	11.00	11.00	0.00	
4,800.00	24.29	269.84	4,793.45	-0.13	-46.10	46.10	11.00	11.00	0.00	
4,850.00	29.79	269.84	4,837.97	-0.19	-68.82	68.82	11.00	11.00	0.00	

Archer Planning Report

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Company:	COG OPERATING, LLC	TVD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Site:	Hobgoblin 7 Federal Com UBB 2H	North Reference:	Grid:
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

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)	
4,900.00	35.29	269.84	4,880.10	-0.26	-95.70	95.70	11.00	11.00	0.00	
4,950.00	40.79	269.84	4,919.47	-0.35	-126.50	126.50	11.00	11.00	0.00	
5,000.00	46.29	269.84	4,955.70	-0.44	-160.93	160.93	11.00	11.00	0.00	
5,050.00	51.79	269.84	4,988.47	-0.54	-198.67	198.67	11.00	11.00	0.00	
5,100.00	57.29	269.84	5,017.46	-0.66	-239.38	239.38	11.00	11.00	0.00	
5,150.00	62.79	269.84	5,042.42	-0.77	-282.68	282.68	11.00	11.00	0.00	
5,200.00	68.29	269.84	5,063.12	-0.90	-328.17	328.17	11.00	11.00	0.00	
5,250.00	73.79	269.84	5,079.36	-1.03	-375.44	375.44	11.00	11.00	0.00	
5,300.00	79.29	269.84	5,091.00	-1.16	-424.05	424.05	11.00	11.00	0.00	
5,350.00	84.79	269.84	5,097.92	-1.30	-473.55	473.55	11.00	11.00	0.00	
5,400.00	90.29	269.84	5,100.07	-1.43	-523.48	523.48	11.00	11.00	0.00	
5,406.48	91.00	269.84	5,100.00	-1.45	-529.96	529.96	11.00	11.00	0.00	
Start 4322.52 hold at 5406.48 MD										
5,500.00	91.00	269.84	5,098.37	-1.71	-623.46	623.47	0.00	0.00	0.00	
5,600.00	91.00	269.84	5,096.62	-1.98	-723.45	723.45	0.00	0.00	0.00	
5,700.00	91.00	269.84	5,094.88	-2.26	-823.43	823.44	0.00	0.00	0.00	
5,800.00	91.00	269.84	5,093.13	-2.53	-923.42	923.42	0.00	0.00	0.00	
5,900.00	91.00	269.84	5,091.39	-2.81	-1,023.40	1,023.41	0.00	0.00	0.00	
6,000.00	91.00	269.84	5,089.64	-3.08	-1,123.39	1,123.39	0.00	0.00	0.00	
6,100.00	91.00	269.84	5,087.89	-3.35	-1,223.37	1,223.38	0.00	0.00	0.00	
6,200.00	91.00	269.84	5,086.15	-3.63	-1,323.36	1,323.36	0.00	0.00	0.00	
6,300.00	91.00	269.84	5,084.40	-3.90	-1,423.34	1,423.35	0.00	0.00	0.00	
6,400.00	91.00	269.84	5,082.66	-4.18	-1,523.32	1,523.33	0.00	0.00	0.00	
6,500.00	91.00	269.84	5,080.91	-4.45	-1,623.31	1,623.32	0.00	0.00	0.00	
6,600.00	91.00	269.84	5,079.17	-4.72	-1,723.29	1,723.30	0.00	0.00	0.00	
6,700.00	91.00	269.84	5,077.42	-5.00	-1,823.28	1,823.28	0.00	0.00	0.00	
6,800.00	91.00	269.84	5,075.68	-5.27	-1,923.26	1,923.27	0.00	0.00	0.00	
6,900.00	91.00	269.84	5,073.93	-5.55	-2,023.25	2,023.25	0.00	0.00	0.00	
7,000.00	91.00	269.84	5,072.19	-5.82	-2,123.23	2,123.24	0.00	0.00	0.00	
7,100.00	91.00	269.84	5,070.44	-6.09	-2,223.22	2,223.22	0.00	0.00	0.00	
7,200.00	91.00	269.84	5,068.70	-6.37	-2,323.20	2,323.21	0.00	0.00	0.00	
7,300.00	91.00	269.84	5,066.95	-6.64	-2,423.18	2,423.19	0.00	0.00	0.00	
7,400.00	91.00	269.84	5,065.21	-6.92	-2,523.17	2,523.18	0.00	0.00	0.00	
7,500.00	91.00	269.84	5,063.46	-7.19	-2,623.15	2,623.16	0.00	0.00	0.00	
7,600.00	91.00	269.84	5,061.72	-7.46	-2,723.14	2,723.15	0.00	0.00	0.00	
7,700.00	91.00	269.84	5,059.97	-7.74	-2,823.12	2,823.13	0.00	0.00	0.00	
7,800.00	91.00	269.84	5,058.23	-8.01	-2,923.11	2,923.12	0.00	0.00	0.00	
7,900.00	91.00	269.84	5,056.48	-8.29	-3,023.09	3,023.10	0.00	0.00	0.00	
8,000.00	91.00	269.84	5,054.74	-8.56	-3,123.07	3,123.09	0.00	0.00	0.00	
8,100.00	91.00	269.84	5,052.99	-8.84	-3,223.06	3,223.07	0.00	0.00	0.00	
8,200.00	91.00	269.84	5,051.24	-9.11	-3,323.04	3,323.06	0.00	0.00	0.00	
8,300.00	91.00	269.84	5,049.50	-9.38	-3,423.03	3,423.04	0.00	0.00	0.00	
8,400.00	91.00	269.84	5,047.75	-9.66	-3,523.01	3,523.03	0.00	0.00	0.00	
8,500.00	91.00	269.84	5,046.01	-9.93	-3,623.00	3,623.01	0.00	0.00	0.00	
8,600.00	91.00	269.84	5,044.26	-10.21	-3,722.98	3,723.00	0.00	0.00	0.00	
8,700.00	91.00	269.84	5,042.52	-10.48	-3,822.97	3,822.98	0.00	0.00	0.00	
8,800.00	91.00	269.84	5,040.77	-10.75	-3,922.95	3,922.96	0.00	0.00	0.00	
8,900.00	91.00	269.84	5,039.03	-11.03	-4,022.93	4,022.95	0.00	0.00	0.00	
9,000.00	91.00	269.84	5,037.28	-11.30	-4,122.92	4,122.93	0.00	0.00	0.00	
9,100.00	91.00	269.84	5,035.54	-11.58	-4,222.90	4,222.92	0.00	0.00	0.00	
9,200.00	91.00	269.84	5,033.79	-11.85	-4,322.89	4,322.90	0.00	0.00	0.00	
9,300.00	91.00	269.84	5,032.05	-12.12	-4,422.87	4,422.89	0.00	0.00	0.00	
9,400.00	91.00	269.84	5,030.30	-12.40	-4,522.86	4,522.87	0.00	0.00	0.00	

Archer Planning Report

Database:	EDM R5000.1 MULTI	Local Co-ordinate Reference:	Well 2H
Company:	COG OPERATING, LLC	TVD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Project:	Eddy County, NM	MD Reference:	3671'GL+13'KB @ 3684.00usft (Planning)
Site:	Hobgoblin 7 Federal Com UBB 2H	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

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)	
9,500.00	91.00	269.84	5,028.56	-12.67	-4,622.84	4,622.86	0.00	0.00	0.00	
9,600.00	91.00	269.84	5,026.81	-12.95	-4,722.83	4,722.84	0.00	0.00	0.00	
9,700.00	91.00	269.84	5,025.07	-13.22	-4,822.81	4,822.83	0.00	0.00	0.00	
9,729.00	91.00	269.84	5,024.56	-13.30	-4,851.80	4,851.82	0.00	0.00	0.00	
TD at 9729.00										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hobgoblin 2H Surface	- plan hits target center	0.00	0.00	0.00	0.00	0.00	674,351.30	601,657.80	32° 51' 12.38 N	104° 0' 8.27 W
	- Point									
Hobgoblin 2H PP	- plan misses target center by 315.06usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)	0.00	0.00	0.00	-0.86	-315.06	674,350.43	601,342.74	32° 51' 12.38 N	104° 0' 11.96 W
	- Point									
Hobgoblin 2H PBHL	- plan hits target center	0.00	0.00	5,024.56	-13.30	-4,851.80	674,338.00	596,806.00	32° 51' 12.39 N	104° 1' 5.15 W
	- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/S (usft)	+E/W (usft)		
4,579.21	4,579.21	0.00	0.00	Start Build 11.00	
5,406.48	5,100.00	-1.45	-529.96	Start 4322.52 hold at 5406.48 MD	
9,729.00	5,024.56	-13.30	-4,851.80	TD at 9729.00	