

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM113397
2. Name of Operator COG OPERATING LLC ✓		6. If Indian, Allottee or Tribe Name
Contact: MAYTE X REYES E-Mail: mreyes1@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 2208 WEST MAIN STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-6945	8. Well Name and No. ACADIA FEDERAL COM 1H ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T26S R25E NENE 210 FNL 660 FEL 190 FSL 990 FEL		9. API Well No. 30-015-43152 ✓
10. Field and Pool, or Exploratory WILDCAT; BONE SPRING		11. County or Parish, and State EDDY COUNTY, NM

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 APD
	☐ 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 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 approval for the following changes to the original approved APD.

SHL and BHL:

Old SHL: 190? FSL & 990? FEL, S14, T26S, R25E
BHL: 330? FNL & 660? FEL, S11, T26S, R25E

New SHL: 210? FNL & 660? FEL, S11, T26S, R25E
BHL: 330? FSL & 380? FEL, S14, T26S, R25E
C102 attached.

REJECTED. Surface Hole Location
change to different section.
Need new APD, fee does not apply

14. I hereby certify that the foregoing is true and correct. Electronic Submission #303246 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 06/23/2015 ()	
Name (Printed/Typed) MAYTE X REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/28/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title PETROLEUM ENGINEER Kenneth Rennick	Date 10-05-2015
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 CARLSBAD FIELD 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.

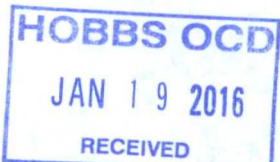
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

JAN 22 2016

Additional data for EC transaction #303246 that would not fit on the form

32. Additional remarks, continued

Drilling Changes:
Drilling program and directional plan attached.



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 383-6181 Fax: (505) 383-6720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, 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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43152	Pool Code	Pool Name Wildcat; Bone Spring
Property Code	Property Name ACADIA FEDERAL COM	Well Number 1H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3600.6

Surface Location

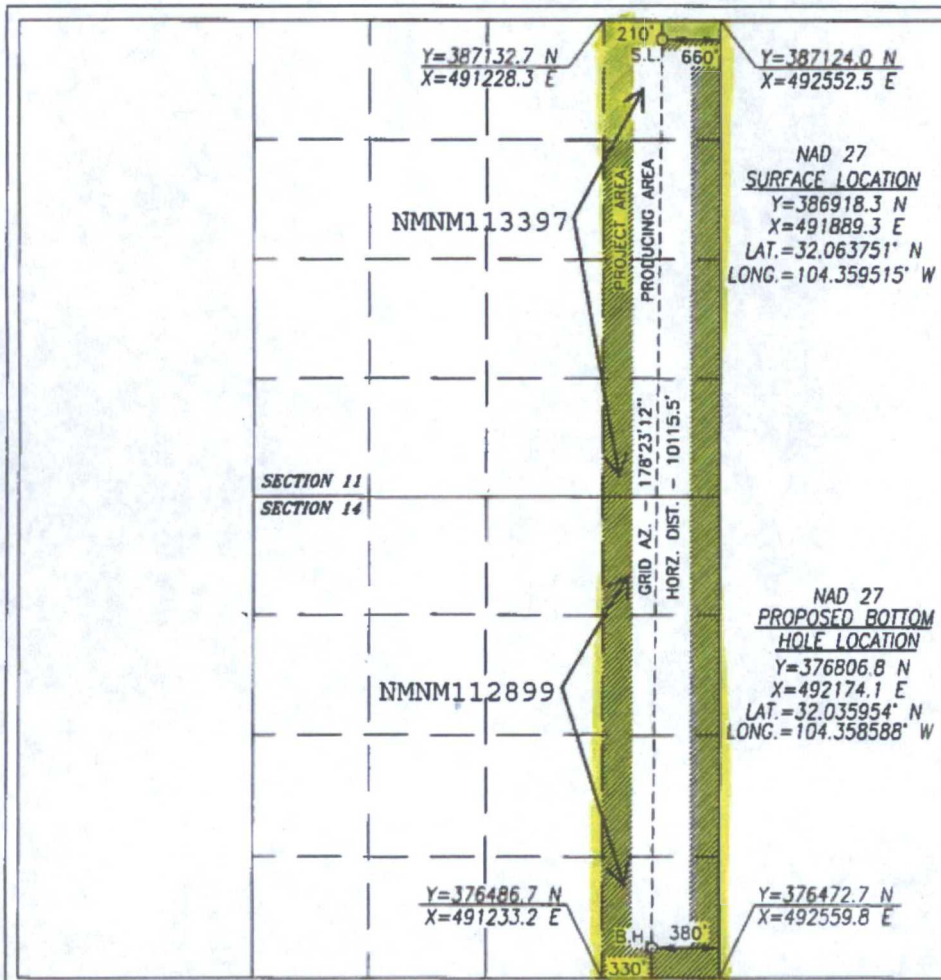
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	26-S	25-E		210'	NORTH	660'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	26-S	25-E		330'	SOUTH	380'	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Mayte Reyes Date 5/28/2015
Printed Name
mayte1@concho.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 5, 2015

Date of Survey

Signature & Seal of Professional Surveyor



Certificate No. CHAD HARCROW 17777
W.O. 15-272 DRAWN BY: AF

COG Operating LLC, Acadia Federal Com 1H

COG, Operating, LLC respectfully requests the following modifications to the approved drilling plan due to changing both the proposed surface and bottom hole locations as follows:

Old location:

SHL: 190' FSL & 990' FEL, S14, T26S, R25E

BHL: 330' FNL & 660' FEL, S11, T26S, R25E

New location:

SHL: 210' FNL & 660' FEL, S11, T26S, R25E

BHL: 330' FSL & 380' FEL, S14, T26S, R25E

Geologic Formations

TVD of target	8279'	Pilot hole depth	NA
MD at TD:	18196'	Deepest expected fresh water:	86'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	340'	Water	
Top of Salt	439'	Salt	
Lamar	1669'	Barren	
Delaware Group	1715'	Oil/Gas	Possible lost circ
Bone Spring	5182'	Oil/Gas	
3 rd Bone Spring Sand	7952'	Target Zone	
Wolfcamp	8305'	Oil/Gas	

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.
	From	To				
17.5"	0'	400'	13.375"	48	H40	STC
12.25"	0'	1690'	9.625"	36	J55	LTC
8.75"	0'	18196'	5-1/2"	17	P110	BTC

COG Operating LLC, Acadia Federal Com 1H

Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	-	-	-	-	-	Lead: No lead
	400	14.8	1.34	6.4	6	Tail: Class C + 2% CaCl ₂
Inter.	380	13.5	1.75	9.2	13	Lead: Class C + 4% Gel + 1% CaCl ₂
	200	14.8	1.34	6.4	6	Tail: Class C + 1% CaCl ₂
Prod.	900	10.3	3.52	21.3	75	Lead: Halliburton Tuned Lite w/ 2# kolseal, 1.5# salt, 1/4# D-Air 5000, 1/8# PEF, etc
	2470	14.4	1.25	5.7	22	Tail: 50:50:2 H blend (FR, Retarder, FL adds as necessary)

Casing String	TOC	% Excess
Surface	0'	91%
Intermediate	0'	91%
Production	0'	38%

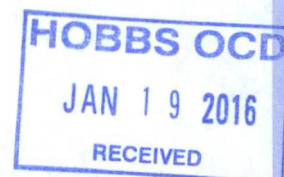
Pilot hole depth: NA

KOP: 7802'

Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
		Are anchors required by manufacturer? No.

Attachments

- Revised Directional Plan
- Flex hose certification
- Revised survey plat



COG Operating, LLC

Eddy County, NM (NAD 27)

Sec 11, T26S, R25E

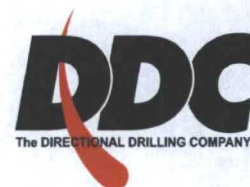
Acadia Federal Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

27 May, 2015



Database:	Compass	Local Co-ordinate Reference:	Well Acadia Federal Com #1H
Company:	COG Operating, LLC	TVD Reference:	Well @ 3627.0usft (Scandrill Freedom)
Project:	Eddy County, NM (NAD 27)	MD Reference:	Well @ 3627.0usft (Scandrill Freedom)
Site:	Sec 11, T26S, R25E	North Reference:	Grid
Well:	Acadia Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County, NM (NAD 27)		
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	Sec 11, T26S, R25E		
Site Position:		Northing:	386,918.30 usft
From:	Map	Easting:	491,889.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 49.504 N
		Longitude:	104° 21' 34.256 W
		Grid Convergence:	-0.01 °

Well	Acadia Federal Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	386,918.30 usft	Latitude:	32° 3' 49.504 N
	+E/-W	0.0 usft	Easting:	491,889.30 usft	Longitude:	104° 21' 34.256 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,601.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/27/2015	7.52	59.81	47,966

Design		Design #1			
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	178.39

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,801.9	0.00	0.00	7,801.9	0.0	0.0	0.00	0.00	0.00	0.00	
8,569.3	92.09	178.39	8,279.0	-494.7	13.9	12.00	12.00	23.25	178.39	
18,196.4	92.09	178.39	7,928.0	-10,111.5	284.8	0.00	0.00	0.00	0.00	PBHL Acadia Federal

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Site:	Sec 11, T26S, R25E	North Reference:	Grid
Well:	Acadia Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
KOP 12"/100'									
7,801.9	0.00	0.00	7,801.9	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	11.77	178.39	7,899.3	-10.0	0.3	10.0	12.00	12.00	0.00
TBSG_sand									
7,953.7	18.21	178.39	7,951.1	-23.9	0.7	23.9	12.00	12.00	0.00
8,000.0	23.77	178.39	7,994.4	-40.5	1.1	40.5	12.00	12.00	0.00
8,100.0	35.77	178.39	8,081.0	-90.0	2.5	90.1	12.00	12.00	0.00
8,200.0	47.77	178.39	8,155.5	-156.5	4.4	156.6	12.00	12.00	0.00
8,300.0	59.77	178.39	8,214.4	-237.0	6.7	237.1	12.00	12.00	0.00
8,400.0	71.77	178.39	8,255.4	-328.0	9.2	328.1	12.00	12.00	0.00
8,500.0	83.77	178.39	8,276.5	-425.5	12.0	425.7	12.00	12.00	0.00
End of Curve / 92.09° Inc / 178.39° Azm / 8279' TVD									
8,569.3	92.09	178.39	8,279.0	-494.7	13.9	494.9	12.00	12.00	0.00
8,600.0	92.09	178.39	8,277.9	-525.3	14.8	525.5	0.00	0.00	0.00
8,700.0	92.09	178.39	8,274.3	-625.2	17.6	625.5	0.00	0.00	0.00
8,800.0	92.09	178.39	8,270.6	-725.1	20.4	725.4	0.00	0.00	0.00
8,900.0	92.09	178.39	8,267.0	-825.0	23.2	825.3	0.00	0.00	0.00
9,000.0	92.09	178.39	8,263.3	-924.9	26.1	925.3	0.00	0.00	0.00
9,100.0	92.09	178.39	8,259.7	-1,024.8	28.9	1,025.2	0.00	0.00	0.00
9,200.0	92.09	178.39	8,256.0	-1,124.7	31.7	1,125.1	0.00	0.00	0.00
9,300.0	92.09	178.39	8,252.4	-1,224.6	34.5	1,225.1	0.00	0.00	0.00
9,400.0	92.09	178.39	8,248.8	-1,324.5	37.3	1,325.0	0.00	0.00	0.00
9,500.0	92.09	178.39	8,245.1	-1,424.4	40.1	1,424.9	0.00	0.00	0.00
9,600.0	92.09	178.39	8,241.5	-1,524.3	42.9	1,524.9	0.00	0.00	0.00
9,700.0	92.09	178.39	8,237.8	-1,624.2	45.7	1,624.8	0.00	0.00	0.00
9,800.0	92.09	178.39	8,234.2	-1,724.1	48.6	1,724.7	0.00	0.00	0.00
9,900.0	92.09	178.39	8,230.5	-1,824.0	51.4	1,824.7	0.00	0.00	0.00
10,000.0	92.09	178.39	8,226.9	-1,923.8	54.2	1,924.6	0.00	0.00	0.00
10,100.0	92.09	178.39	8,223.2	-2,023.7	57.0	2,024.5	0.00	0.00	0.00
10,200.0	92.09	178.39	8,219.6	-2,123.6	59.8	2,124.5	0.00	0.00	0.00
10,300.0	92.09	178.39	8,215.9	-2,223.5	62.6	2,224.4	0.00	0.00	0.00
10,400.0	92.09	178.39	8,212.3	-2,323.4	65.4	2,324.3	0.00	0.00	0.00
10,500.0	92.09	178.39	8,208.6	-2,423.3	68.3	2,424.3	0.00	0.00	0.00
10,600.0	92.09	178.39	8,205.0	-2,523.2	71.1	2,524.2	0.00	0.00	0.00
10,700.0	92.09	178.39	8,201.4	-2,623.1	73.9	2,624.1	0.00	0.00	0.00
10,800.0	92.09	178.39	8,197.7	-2,723.0	76.7	2,724.1	0.00	0.00	0.00
10,900.0	92.09	178.39	8,194.1	-2,822.9	79.5	2,824.0	0.00	0.00	0.00
11,000.0	92.09	178.39	8,190.4	-2,922.8	82.3	2,923.9	0.00	0.00	0.00
11,100.0	92.09	178.39	8,186.8	-3,022.7	85.1	3,023.9	0.00	0.00	0.00
11,200.0	92.09	178.39	8,183.1	-3,122.6	88.0	3,123.8	0.00	0.00	0.00
11,300.0	92.09	178.39	8,179.5	-3,222.5	90.8	3,223.7	0.00	0.00	0.00
11,400.0	92.09	178.39	8,175.8	-3,322.4	93.6	3,323.7	0.00	0.00	0.00
11,500.0	92.09	178.39	8,172.2	-3,422.3	96.4	3,423.6	0.00	0.00	0.00
11,600.0	92.09	178.39	8,168.5	-3,522.1	99.2	3,523.5	0.00	0.00	0.00
11,700.0	92.09	178.39	8,164.9	-3,622.0	102.0	3,623.5	0.00	0.00	0.00
11,800.0	92.09	178.39	8,161.2	-3,721.9	104.8	3,723.4	0.00	0.00	0.00
11,900.0	92.09	178.39	8,157.6	-3,821.8	107.6	3,823.3	0.00	0.00	0.00
12,000.0	92.09	178.39	8,153.9	-3,921.7	110.5	3,923.3	0.00	0.00	0.00
12,100.0	92.09	178.39	8,150.3	-4,021.6	113.3	4,023.2	0.00	0.00	0.00
12,200.0	92.09	178.39	8,146.7	-4,121.5	116.1	4,123.1	0.00	0.00	0.00
12,300.0	92.09	178.39	8,143.0	-4,221.4	118.9	4,223.1	0.00	0.00	0.00
12,400.0	92.09	178.39	8,139.4	-4,321.3	121.7	4,323.0	0.00	0.00	0.00
12,500.0	92.09	178.39	8,135.7	-4,421.2	124.5	4,422.9	0.00	0.00	0.00

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Site:	Sec 11, T26S, R25E	North Reference:	Grid
Well:	Acadia Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
12,600.0	92.09	178.39	8,132.1	-4,521.1	127.3	4,522.9	0.00	0.00	0.00
12,700.0	92.09	178.39	8,128.4	-4,621.0	130.2	4,622.8	0.00	0.00	0.00
12,800.0	92.09	178.39	8,124.8	-4,720.9	133.0	4,722.7	0.00	0.00	0.00
12,900.0	92.09	178.39	8,121.1	-4,820.8	135.8	4,822.7	0.00	0.00	0.00
13,000.0	92.09	178.39	8,117.5	-4,920.7	138.6	4,922.6	0.00	0.00	0.00
13,100.0	92.09	178.39	8,113.8	-5,020.6	141.4	5,022.5	0.00	0.00	0.00
13,200.0	92.09	178.39	8,110.2	-5,120.5	144.2	5,122.5	0.00	0.00	0.00
13,300.0	92.09	178.39	8,106.5	-5,220.3	147.0	5,222.4	0.00	0.00	0.00
13,400.0	92.09	178.39	8,102.9	-5,320.2	149.8	5,322.3	0.00	0.00	0.00
13,500.0	92.09	178.39	8,099.3	-5,420.1	152.7	5,422.3	0.00	0.00	0.00
13,600.0	92.09	178.39	8,095.6	-5,520.0	155.5	5,522.2	0.00	0.00	0.00
13,700.0	92.09	178.39	8,092.0	-5,619.9	158.3	5,622.1	0.00	0.00	0.00
13,800.0	92.09	178.39	8,088.3	-5,719.8	161.1	5,722.1	0.00	0.00	0.00
13,900.0	92.09	178.39	8,084.7	-5,819.7	163.9	5,822.0	0.00	0.00	0.00
14,000.0	92.09	178.39	8,081.0	-5,919.6	166.7	5,921.9	0.00	0.00	0.00
14,100.0	92.09	178.39	8,077.4	-6,019.5	169.5	6,021.9	0.00	0.00	0.00
14,200.0	92.09	178.39	8,073.7	-6,119.4	172.4	6,121.8	0.00	0.00	0.00
14,300.0	92.09	178.39	8,070.1	-6,219.3	175.2	6,221.7	0.00	0.00	0.00
14,400.0	92.09	178.39	8,066.4	-6,319.2	178.0	6,321.7	0.00	0.00	0.00
14,500.0	92.09	178.39	8,062.8	-6,419.1	180.8	6,421.6	0.00	0.00	0.00
14,600.0	92.09	178.39	8,059.1	-6,519.0	183.6	6,521.6	0.00	0.00	0.00
14,700.0	92.09	178.39	8,055.5	-6,618.9	186.4	6,621.5	0.00	0.00	0.00
14,800.0	92.09	178.39	8,051.8	-6,718.8	189.2	6,721.4	0.00	0.00	0.00
14,900.0	92.09	178.39	8,048.2	-6,818.6	192.1	6,821.4	0.00	0.00	0.00
15,000.0	92.09	178.39	8,044.6	-6,918.5	194.9	6,921.3	0.00	0.00	0.00
15,100.0	92.09	178.39	8,040.9	-7,018.4	197.7	7,021.2	0.00	0.00	0.00
15,200.0	92.09	178.39	8,037.3	-7,118.3	200.5	7,121.2	0.00	0.00	0.00
15,300.0	92.09	178.39	8,033.6	-7,218.2	203.3	7,221.1	0.00	0.00	0.00
15,400.0	92.09	178.39	8,030.0	-7,318.1	206.1	7,321.0	0.00	0.00	0.00
15,500.0	92.09	178.39	8,026.3	-7,418.0	208.9	7,421.0	0.00	0.00	0.00
15,600.0	92.09	178.39	8,022.7	-7,517.9	211.7	7,520.9	0.00	0.00	0.00
15,700.0	92.09	178.39	8,019.0	-7,617.8	214.6	7,620.8	0.00	0.00	0.00
15,800.0	92.09	178.39	8,015.4	-7,717.7	217.4	7,720.8	0.00	0.00	0.00
15,900.0	92.09	178.39	8,011.7	-7,817.6	220.2	7,820.7	0.00	0.00	0.00
16,000.0	92.09	178.39	8,008.1	-7,917.5	223.0	7,920.6	0.00	0.00	0.00
16,100.0	92.09	178.39	8,004.4	-8,017.4	225.8	8,020.6	0.00	0.00	0.00
16,200.0	92.09	178.39	8,000.8	-8,117.3	228.6	8,120.5	0.00	0.00	0.00
16,300.0	92.09	178.39	7,997.1	-8,217.2	231.4	8,220.4	0.00	0.00	0.00
16,400.0	92.09	178.39	7,993.5	-8,317.1	234.3	8,320.4	0.00	0.00	0.00
16,500.0	92.09	178.39	7,989.9	-8,416.9	237.1	8,420.3	0.00	0.00	0.00
16,600.0	92.09	178.39	7,986.2	-8,516.8	239.9	8,520.2	0.00	0.00	0.00
16,700.0	92.09	178.39	7,982.6	-8,616.7	242.7	8,620.2	0.00	0.00	0.00
16,800.0	92.09	178.39	7,978.9	-8,716.6	245.5	8,720.1	0.00	0.00	0.00
16,900.0	92.09	178.39	7,975.3	-8,816.5	248.3	8,820.0	0.00	0.00	0.00
17,000.0	92.09	178.39	7,971.6	-8,916.4	251.1	8,920.0	0.00	0.00	0.00
17,100.0	92.09	178.39	7,968.0	-9,016.3	254.0	9,019.9	0.00	0.00	0.00
17,200.0	92.09	178.39	7,964.3	-9,116.2	256.8	9,119.8	0.00	0.00	0.00
17,300.0	92.09	178.39	7,960.7	-9,216.1	259.6	9,219.8	0.00	0.00	0.00
17,400.0	92.09	178.39	7,957.0	-9,316.0	262.4	9,319.7	0.00	0.00	0.00
17,500.0	92.09	178.39	7,953.4	-9,415.9	265.2	9,419.6	0.00	0.00	0.00
17,600.0	92.09	178.39	7,949.7	-9,515.8	268.0	9,519.6	0.00	0.00	0.00
17,700.0	92.09	178.39	7,946.1	-9,615.7	270.8	9,619.5	0.00	0.00	0.00
17,800.0	92.09	178.39	7,942.5	-9,715.6	273.6	9,719.4	0.00	0.00	0.00
17,900.0	92.09	178.39	7,938.8	-9,815.5	276.5	9,819.4	0.00	0.00	0.00

Database:	Compass	Local Co-ordinate Reference:	Well Acadia Federal Com #1H
Company:	COG Operating, LLC	TVD Reference:	Well @ 3627.0usft (Scandril Freedom)
Project:	Eddy County, NM (NAD 27)	MD Reference:	Well @ 3627.0usft (Scandril Freedom)
Site:	Sec 11, T26S, R25E	North Reference:	Grid
Well:	Acadia Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
18,000.0	92.09	178.39	7,935.2	-9,915.4	279.3	9,919.3	0.00	0.00	0.00	
18,100.0	92.09	178.39	7,931.5	-10,015.3	282.1	10,019.2	0.00	0.00	0.00	
PBHL @ 18196' MD / 7928' TVD										
18,196.4	92.09	178.39	7,928.0	-10,111.5	284.8	10,115.5	0.00	0.00	0.00	

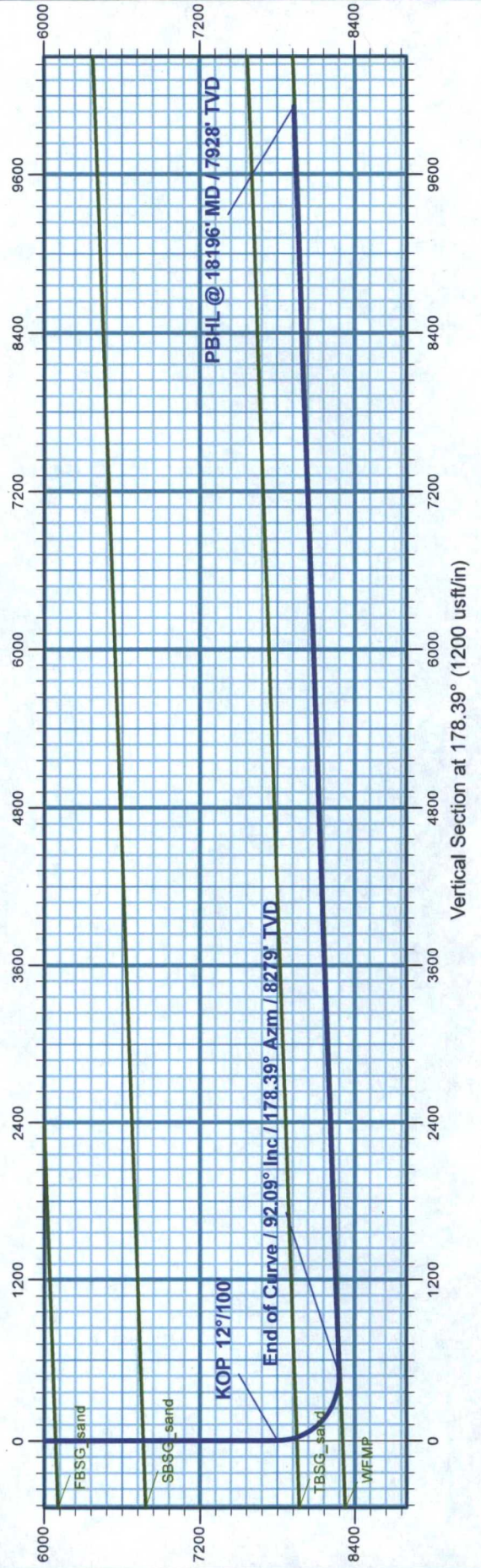
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL Acadia Federal Co	0.00	360.00	7,928.0	-10,111.5	284.8	376,806.80	492,174.10	32° 2' 9.434 N	104° 21' 30.918 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
340.0	340.0	Rustler		-2.09	178.39	
439.0	439.0	TOS		-2.09	178.39	
1,513.0	1,513.0	BOS (Fletcher)		-2.09	178.39	
1,669.0	1,669.0	LMAR (Top Delaware)		-2.09	178.39	
1,715.0	1,715.0	BLCN		-2.09	178.39	
2,572.0	2,572.0	CYCN		-2.09	178.39	
3,658.0	3,658.0	BYCN		-2.09	178.39	
5,182.0	5,182.0	Bone Sprg (BSGL)		-2.09	178.39	
5,326.0	5,326.0	U Avalon Sh		-2.09	178.39	
5,621.0	5,621.0	L Avalon Sh		-2.09	178.39	
6,087.0	6,087.0	FBSG_sand		-2.09	178.39	
6,761.0	6,761.0	SBSG_sand		-2.09	178.39	
7,953.7	7,951.1	TBSG_sand		-2.09	178.39	

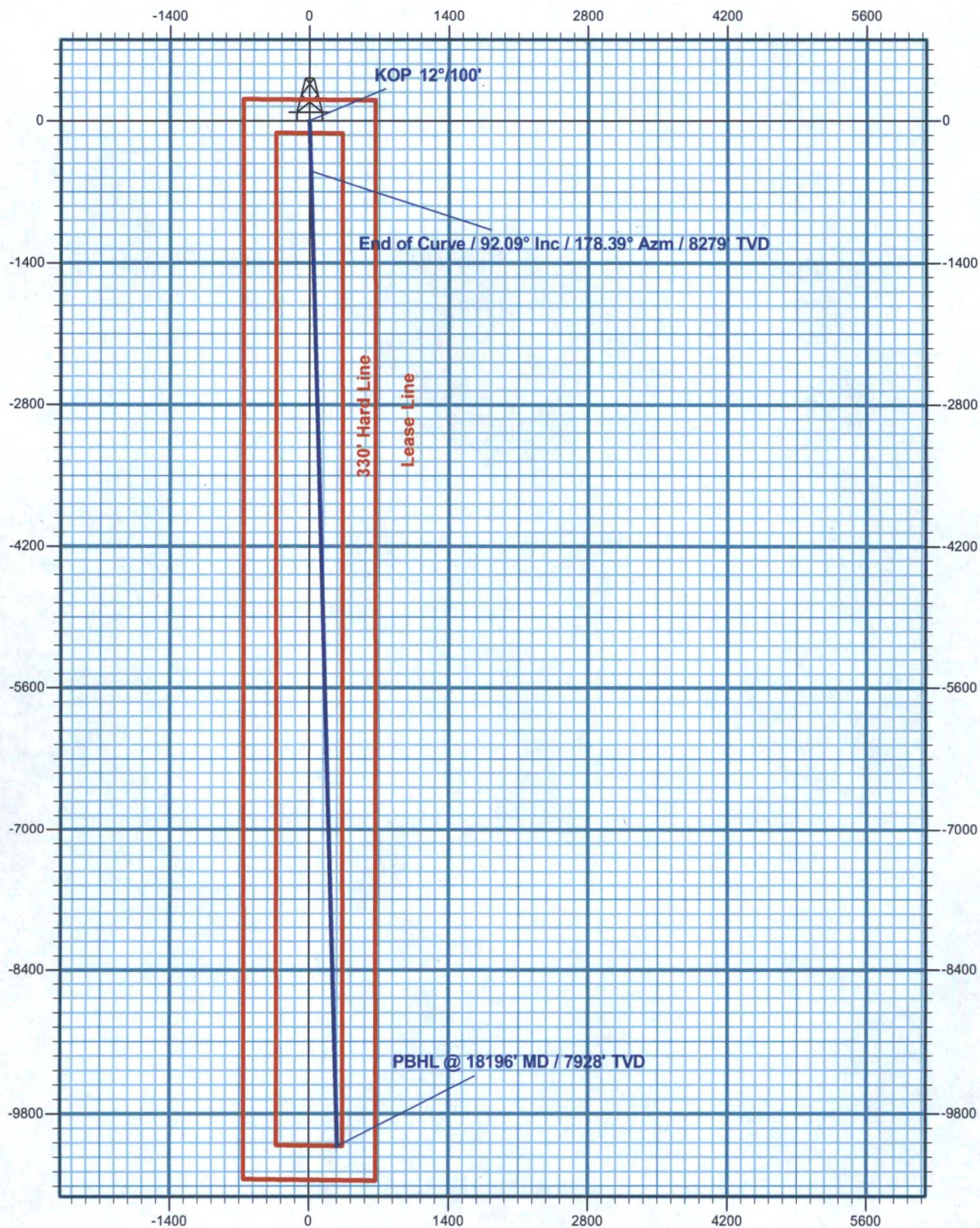
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,801.9	7,801.9	0.0	0.0	KOP 12°/100'	
8,569.3	8,279.0	-494.7	13.9	End of Curve / 92.09° Inc / 178.39° Azm / 8279' TVD	
18,196.4	7,928.0	-10,111.5	284.8	PBHL @ 18196' MD / 7928' TVD	



Eddy County, NM (NAD 27)
Sec 11, T26S, R25E
Acadia Federal Com #1H
Design #1



Eddy County, NM (NAD 27)
Sec 11, T26S, R25E
Acadia Federal Com #1H
Design #1





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03321	C	ED		4	1	1	11	26S	25E	559375	3547431	1066	150	23	127
C 02366	CUB	ED		4	4	12	26S	25E	562027	3546345*		2107	80	150	-70

Average Depth to Water: **86 feet**

Minimum Depth: **23 feet**

Maximum Depth: **150 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 560408.63

Northing (Y): 3547694.35

Radius: 3220

*UTM location was derived from PLSS - see Help

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