

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COO 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.*5. Lease Serial No.
NMLC061483

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
NEWCASTLE 6 FEDERAL COM UBB 8H9. API Well No.
30-015-42930-00-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 LLC
Contact: KELLY J HOLLY
E-Mail: kholly@concho.com3a. Address
600 W ILLINOIS AVENUE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432.685.43844. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 1 T17S R29E SESE 330FSL 10FEL
32.857063 N Lat, 104.019196 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	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 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 of this well as follows:

FROM: 4924' TVD; 9651' MD; EOC: 5000' TVD
TO: 5024' TVD; 9751' MD; EOC: 5100' TVD

A revised directional plan is attached for your review.

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 08 2016

RECEIVED

Accepted for record
NMOC 1/5/16

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

Electronic Submission #301488 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/13/2015 (16JAS1103SE)

Name (Printed/Typed) KELLY J HOLLY

Title PERMITTING TECH

Signature (Electronic Submission)

Date 05/12/2015

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

JAN 5 2016

Is/Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Approved By

Title

Date

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 ****

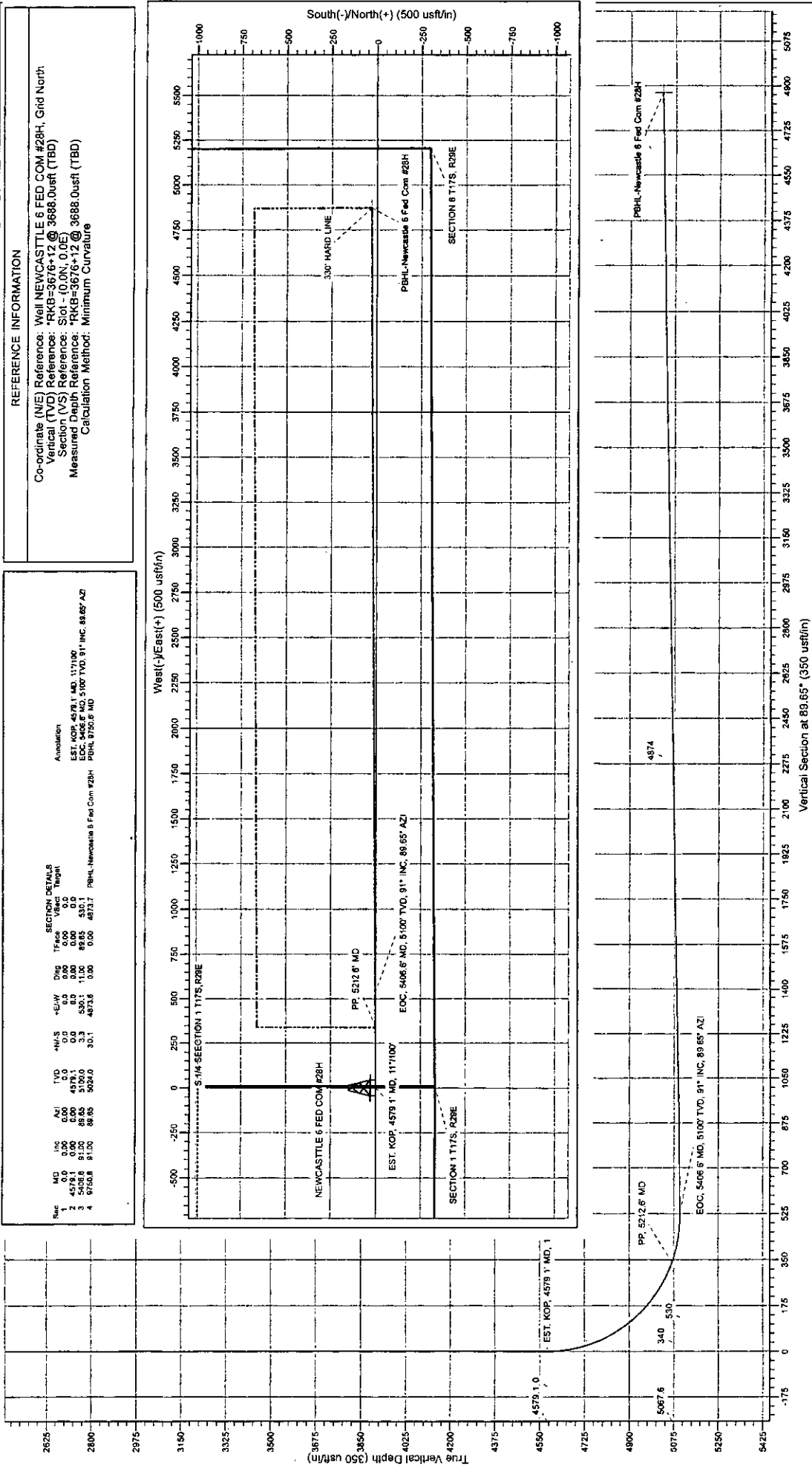


Project: EDDY COUNTY, NM
 Site: EMPIRE
 Well: NEWCASTLE 6 FED COM #28H
 Wellbore: OWB
 Design: PWP0

SUC	MD	INC	AZI	TVD	+N/S	+E/W	Dipg	SECTION DETAILS	
								True	Target
1	4508.8	0.00	0.00	4508.8	0.0	0.0	0.00	0.00	0.0
2	5406.6	0.00	0.00	5406.6	0.0	0.0	0.00	0.00	0.0
3	5406.6	0.00	0.00	5406.6	0.0	0.0	0.00	0.00	0.0
4	5406.6	0.00	0.00	5406.6	0.0	0.0	0.00	0.00	0.0

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NEWCASTLE 6 FED COM #28H, Grid North
 Vertical (TVD) Reference: *RKB=3676+12 @ 3688.0usft (TBD)
 Section (VS) Reference: *RKB=3676+12 @ 3688.0usft (TBD)
 Measured Depth Reference: *RKB=3676+12 @ 3688.0usft (TBD)
 Calculation Method: Minimum Curvature





NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 08 2016

RECEIVED

COG Operating LLC NEW MEXICO SHELF

EDDY COUNTY, NM

EMPIRE

NEWCASTLE 6 FED COM #28H

OWB

Plan: PWP0

SHL: 330' FSL, 10' FEL, SEC. 1, T17S, R29E, UNIT P

PP: 330' FSL, 330' FEL, SEC. 6, T17S, R29E, UNIT M

BHL: 330' FSL, 330' FEL, SEC. 6, T17S, R29E, UNIT P

Standard Planning Report

19 March, 2015



COG Operating LLC

Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well NEWCASTLE 6 FED COM #28H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	NEWCASTLE 6 FED COM #28H	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:	EMPIRE				
Site Position:		Northing:	667,066.90 usft	Latitude:	32° 50' 0.822 N
From:	Map	Easting:	582,960.90 usft	Longitude:	104° 3' 47.669 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well:	NEWCASTLE 6 FED COM #28H					
Well Position	+N/-S	8,587.2 usft	Northing:	675,654.10 usft	Latitude:	32° 51' 25.425 N
	+E/-W	13,503.7 usft	Easting:	596,464.60 usft	Longitude:	104° 1' 9.104 W
Position Uncertainty	3.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,676.0 usft	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2005	12/31/2009	8.01	60.74	49,117

Design:	PWP0				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	5,024.0	0.0	0.0	89.65	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,579.1	0.00	0.00	4,579.1	0.0	0.0	0.00	0.00	0.00	0.00	
5,406.6	91.00	89.65	5,100.0	3.3	530.1	11.00	11.00	0.00	89.65	
9,750.8	91.00	89.65	5,024.0	30.1	4,873.6	0.00	0.00	0.00	0.00	PBHL-Newcastle 6 Fe



COG Operating LLC
Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well NEWCASTLE 6 FED COM #28H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	NEWCASTLE 6 FED COM #28H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,579.1	0.00	0.00	4,579.1	0.0	0.0	0.0	0.00	0.00	0.00
EST. KOP, 4579.1' MD, 11°/100'									
4,600.0	2.30	89.65	4,600.0	0.0	0.4	0.4	11.00	11.00	0.00
4,700.0	13.30	89.65	4,698.9	0.1	14.0	14.0	11.00	11.00	0.00
4,800.0	24.29	89.65	4,793.4	0.3	46.1	46.1	11.00	11.00	0.00
4,900.0	35.29	89.65	4,880.1	0.6	95.7	95.7	11.00	11.00	0.00
5,000.0	46.29	89.65	4,955.7	1.0	161.0	161.0	11.00	11.00	0.00
5,100.0	57.29	89.65	5,017.4	1.5	239.4	239.4	11.00	11.00	0.00



COG Operating LLC
Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well NEWCASTLE 6 FED COM #28H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	NEWCASTLE 6 FED COM #28H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
5,200.0	68.29	89.65	5,063.1	2.0	328.2	328.2	11.00	11.00	0.00
5,212.6	69.67	89.65	5,067.6	2.1	340.0	340.0	11.00	11.00	0.00
PP, 5212.6' MD									
5,300.0	79.28	89.65	5,091.0	2.6	424.1	424.1	11.00	11.00	0.00
5,400.0	90.28	89.65	5,100.1	3.2	523.5	523.5	11.00	11.00	0.00
5,406.6	91.00	89.65	5,100.0	3.3	530.1	530.1	10.93	10.93	0.00
EOC, 5406.6' MD, 5100' TVD, 91° INC, 89.65° AZI									
5,500.0	91.00	89.65	5,098.4	3.9	623.5	623.5	0.00	0.00	0.00
5,600.0	91.00	89.65	5,096.6	4.5	723.5	723.5	0.00	0.00	0.00
5,700.0	91.00	89.65	5,094.9	5.1	823.5	823.5	0.00	0.00	0.00
5,800.0	91.00	89.65	5,093.1	5.7	923.5	923.5	0.00	0.00	0.00
5,900.0	91.00	89.65	5,091.4	6.3	1,023.4	1,023.5	0.00	0.00	0.00
6,000.0	91.00	89.65	5,089.6	6.9	1,123.4	1,123.4	0.00	0.00	0.00
6,100.0	91.00	89.65	5,087.9	7.6	1,223.4	1,223.4	0.00	0.00	0.00
6,200.0	91.00	89.65	5,086.1	8.2	1,323.4	1,323.4	0.00	0.00	0.00
6,300.0	91.00	89.65	5,084.4	8.8	1,423.4	1,423.4	0.00	0.00	0.00
6,400.0	91.00	89.65	5,082.6	9.4	1,523.3	1,523.4	0.00	0.00	0.00
6,500.0	91.00	89.65	5,080.9	10.0	1,623.3	1,623.4	0.00	0.00	0.00
6,600.0	91.00	89.65	5,079.1	10.6	1,723.3	1,723.3	0.00	0.00	0.00
6,700.0	91.00	89.65	5,077.4	11.3	1,823.3	1,823.3	0.00	0.00	0.00
6,800.0	91.00	89.65	5,075.6	11.9	1,923.3	1,923.3	0.00	0.00	0.00
6,900.0	91.00	89.65	5,073.9	12.5	2,023.3	2,023.3	0.00	0.00	0.00
7,000.0	91.00	89.65	5,072.1	13.1	2,123.2	2,123.3	0.00	0.00	0.00
7,100.0	91.00	89.65	5,070.4	13.7	2,223.2	2,223.3	0.00	0.00	0.00
7,200.0	91.00	89.65	5,068.6	14.3	2,323.2	2,323.3	0.00	0.00	0.00
7,300.0	91.00	89.65	5,066.9	15.0	2,423.2	2,423.2	0.00	0.00	0.00
7,400.0	91.00	89.65	5,065.1	15.6	2,523.2	2,523.2	0.00	0.00	0.00
7,500.0	91.00	89.65	5,063.4	16.2	2,623.2	2,623.2	0.00	0.00	0.00
7,600.0	91.00	89.65	5,061.6	16.8	2,723.1	2,723.2	0.00	0.00	0.00
7,700.0	91.00	89.65	5,059.9	17.4	2,823.1	2,823.2	0.00	0.00	0.00
7,800.0	91.00	89.65	5,058.1	18.1	2,923.1	2,923.2	0.00	0.00	0.00
7,900.0	91.00	89.65	5,056.4	18.7	3,023.1	3,023.1	0.00	0.00	0.00
8,000.0	91.00	89.65	5,054.6	19.3	3,123.1	3,123.1	0.00	0.00	0.00
8,100.0	91.00	89.65	5,052.9	19.9	3,223.1	3,223.1	0.00	0.00	0.00
8,200.0	91.00	89.65	5,051.1	20.5	3,323.0	3,323.1	0.00	0.00	0.00
8,300.0	91.00	89.65	5,049.4	21.1	3,423.0	3,423.1	0.00	0.00	0.00
8,400.0	91.00	89.65	5,047.6	21.8	3,523.0	3,523.1	0.00	0.00	0.00
8,500.0	91.00	89.65	5,045.9	22.4	3,623.0	3,623.1	0.00	0.00	0.00
8,600.0	91.00	89.65	5,044.1	23.0	3,723.0	3,723.0	0.00	0.00	0.00
8,700.0	91.00	89.65	5,042.4	23.6	3,823.0	3,823.0	0.00	0.00	0.00
8,800.0	91.00	89.65	5,040.6	24.2	3,922.9	3,923.0	0.00	0.00	0.00
8,900.0	91.00	89.65	5,038.9	24.8	4,022.9	4,023.0	0.00	0.00	0.00
9,000.0	91.00	89.65	5,037.1	25.5	4,122.9	4,123.0	0.00	0.00	0.00
9,100.0	91.00	89.65	5,035.4	26.1	4,222.9	4,223.0	0.00	0.00	0.00
9,200.0	91.00	89.65	5,033.6	26.7	4,322.9	4,322.9	0.00	0.00	0.00
9,300.0	91.00	89.65	5,031.9	27.3	4,422.8	4,422.9	0.00	0.00	0.00
9,400.0	91.00	89.65	5,030.1	27.9	4,522.8	4,522.9	0.00	0.00	0.00
9,500.0	91.00	89.65	5,028.4	28.6	4,622.8	4,622.9	0.00	0.00	0.00
9,600.0	91.00	89.65	5,026.6	29.2	4,722.8	4,722.9	0.00	0.00	0.00
9,700.0	91.00	89.65	5,024.9	29.8	4,822.8	4,822.9	0.00	0.00	0.00
9,750.8	91.00	89.65	5,024.0	30.1	4,873.6	4,873.7	0.00	0.00	0.00
PBHL 9750.8' MD									



COG Operating LLC
Planning Report

Database:	EDM Users	Local Co-ordinate Reference:	Well NEWCASTLE 6 FED COM #28H
Company:	NEW MEXICO SHELF	TVD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Project:	EDDY COUNTY, NM	MD Reference:	*RKB=3676+12 @ 3688.0usft (TBD)
Site:	EMPIRE	North Reference:	Grid
Well:	NEWCASTLE 6 FED COM #28H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
PBHL-Newcastle 6 Fed	0.00	0.00	5,024.0	30.1	4,873.6	675,684.20	601,338.20	32° 51' 25.576 N	104° 0' 11.968 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
4,579.1	4,579.1	0.0	0.0	EST. KOP, 4579.1' MD, 11°/100'
5,212.6	5,067.6	2.1	340.0	PP, 5212.6' MD
5,406.6	5,100.0	3.3	530.1	EOC, 5406.6' MD, 5100' TVD, 91° INC, 89.65° AZI
9,750.8	5,024.0	30.1	4,873.6	PBHL 9750.8' MD