

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NMOGON

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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029415B
2. Name of Operator COG OPERATING LLC Contact: KELLY J HOLLY E-Mail: kholly@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432.685.4384	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T17S R31E NENE 249FNL 615FEL 32.855650 N Lat, 103.816020 W Lon		8. Well Name and No. PUCKETT 12 FEDERAL 27H
		9. API Well No. 30-015-41444-00-X1
		10. Field and Pool, or Exploratory FREN
		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			
<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
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 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.)

COG Operating LLC respectfully requests permission to change the completion interval, KOP, TVD and production string tail cement of this well as follows:

FROM: 5402' TVD; 9969' MD - EOC:5475' TVD  
TO: 6077' TVD; 10644' MD - EOC:6150' TVD

A revised directional plan is attached.

PLEASE SEE ATTACHMENT FOR DETAILS

well path crosses the Puckett 12 Federal 7H TVD @ 6,412'. Operator to ensure that is enough space between the two wells, as 1/20/16

Accepted for record

14. I hereby certify that the foregoing is true and correct. Electronic Submission #293438 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JAMIE RHOADES on 09/16/2015 (15JLR0426SE)	
Name (Printed/Typed) KELLY J HOLLY	Title PERMITTING TECH
Signature (Electronic Submission)	Date 03/02/2015
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 \*\*

## Puckett 12 Federal #27H Sundry

COG Operating LLC requests permission to change the completion interval, KOP, Target TVD, and production casing design and production casing cement. Details are as follows:

Old Target formation- Paddock

Old KOP 4954'

Old Target TVD 5475'

### Old Production casing details:

Hole Size	Interval MD	OD Casing	Weight	Grade	Condition	Jt.	Brst/clps/ten
8 3/4"	0-4954'	7" 0-4954'	26#	J/K55	New	LT&C	1.47/2.29/4.64
8 3/4"	4954-5781'	5 1/2" 4954-5781'	17#	L80	New	LT&C	1.42/2.41/4.24
7 7/8"	5781'-9969'	5 1/2" 5781'-9969'	17#	L80	New	LT&C	1.42/2.41/4.24

### Old Production casing cement details:

Hole Size	Interval MD	OD Casing	Sacks	Yield Cf/sk	Weight ppg	Mixing Wtr gps	Cement Recipe	500 psi Compressive hours
8 3/4"	0-3400'	7"	500	2.01	12.5	11.4	35:65:6 C Poz Gel w/additives	25
8 3/4"	3400'-5300'	5 1/2"	400	1.37	14.0	6.4	50:50:2 C Poz Gel w/additives	30
7 7/8"	5300'-9969'	5 1/2"	310	2.62	15.0	11	Solucem-H w/additives	25

New Target formation- Upper Blinbry

New KOP 5629'

New Target TVD 6150'

**New Production casing details:**

Hole Size	Interval MD	OD Casing	Weight	Grade	Condition	Jt.	Brst/clps/ten
8 3/4"	0- 5629'	7"	29#	L80	New	LT&C	1.33/3.24/2.36
8 3/4"	5629'- 6456'	5 1/2"	17#	L80	New	LT&C	1.26/2.61/3.96
7 7/8"	6456'- 10644'	5 1/2"	17#	L80	New	LT&C	1.26/2.61/8.24

**New Production casing cement details:**

Hole Size	Interval MD	OD Casing	Sacks	Yield Cf/sk	Weight ppg	Mixing Wtr gps	Cement Recipe	500 psi Compressive hours
8 3/4"	0-5629'	7"	575	2.01	12.5	11.4	35:65:6 C Poz Gel w/additives	25
8 3/4"	5629- 6456'	5 1/2"	200	1.37	14.0	6.4	50:50:2 C Poz Gel w/additives	12
7 7/8"	6456'- 10644'	5 1/2"	725	1.37	14.0	6.4	50:50:2 C Poz Gel w/ additives	12

operator still has DV tool option from original APD.



COG Operating LLC

Well: Puckett 12 Federal Well No. 27H  
Site: Puckett 12 Federal  
Project: Eddy County, New Mexico  
Design: rev0  
Rig: United #43

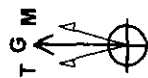
#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TFace	VSecl	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5629.21	0.00	0.00	5629.21	0.00	0.00	0.00	0.00	0.00	KOP Begin 11'100' build
3	6456.47	91.00	184.23	6150.00	-528.51	-39.10	11.00	184.23	529.95	Begin 91.00 lateral section
4	10643.91	91.00	184.23	6077.00	-4703.90	-348.00	0.00	0.00	4716.76	PBHL/JTD

Surface Location: RKB=4009+12 @ 4021.00usft (United #43)  
US State Plane 1927 (Exact solution)  
New Mexico East 3001

Northing: 675387.40  
Easting: 658859.70  
Latitude: 32.85565433  
Longitude: -103.81601526

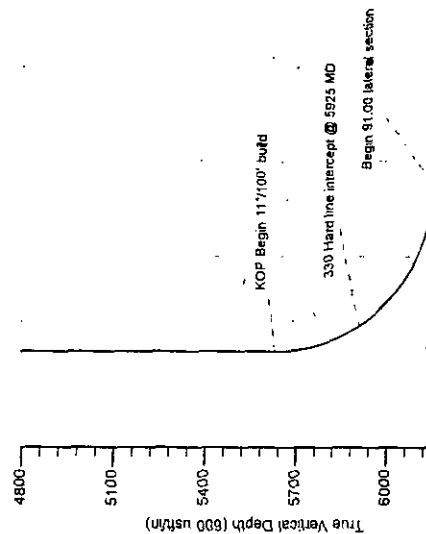
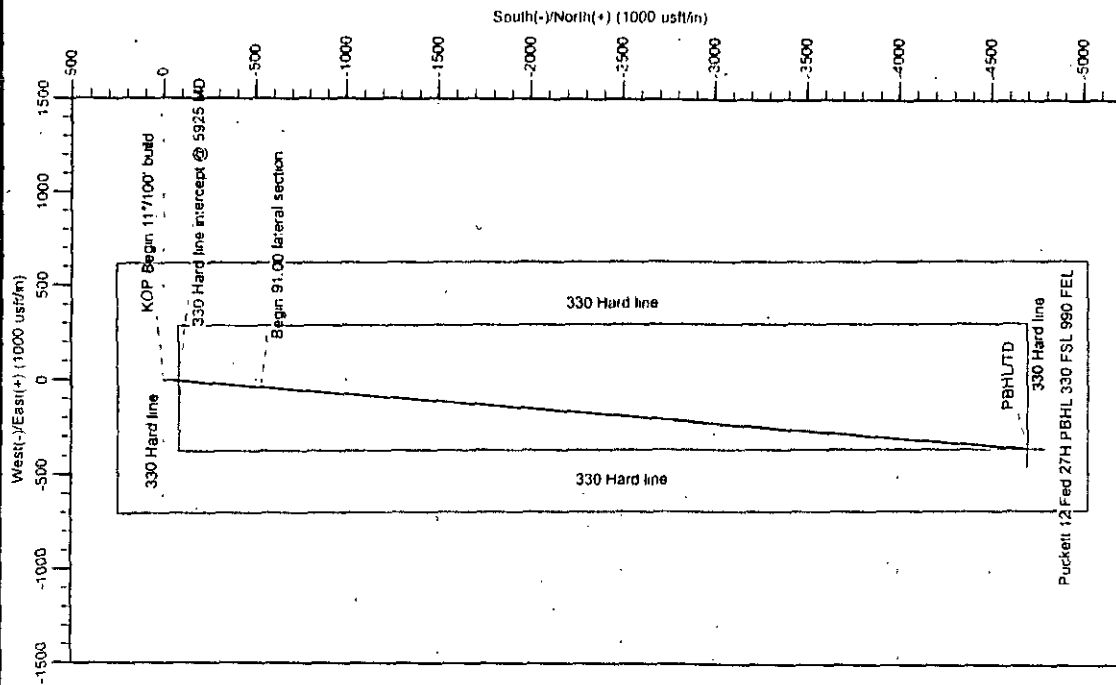
Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 7.01°



Azimuths to Grid North  
True North: 0.28°  
Magnetic North: 7.01°  
Magnetic Field  
Strength: 48557.6nT  
Dip Angle: 60.64°  
Date: 2/13/2015  
Model: IGRF2010



PRO DIRECTIONAL





## COG Operating LLC

Eddy County, New Mexico

Puckett 12 Federal

Puckett 12 Federal Well No. 27H

Original Hole

SHL: 249 FNL 615 FEL Sect 12-T17S-R31E Unit A

POE: 330 FNL 621 FEL Sect 12-T17S-R31E Unit A

BHL: 330 FSL 990 FEL Sect 12-T17S-R31E Unit P

Plan: rev0

## Standard\_report

17 February, 2015

NM OIL CONSERVATION  
ARTESIA DISTRICT

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RECEIVED



Standard\_report

<b>Company:</b> COG Operating LLC <b>Project:</b> Eddy County, New Mexico <b>Site:</b> Puckett 12 Federal <b>Well:</b> Puckett 12 Federal Well No. 27H <b>Wellbore:</b> Original Hole <b>Design:</b> rev0		<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> RKB=4009+12 @ 4021.00usft (United #43) <b>MD Reference:</b> RKB=4009+12 @ 4021.00usft (United #43) <b>North Reference:</b> Grid <b>Survey Calculation Method:</b> Minimum Curvature <b>Database:</b> Dbase Nov0914	
<b>Project:</b> Eddy County, New Mexico		<b>System Datum:</b> Mean Sea Level	
<b>Map System:</b> US State Plane 1927 (Exact solution) <b>Geo Datum:</b> NAD 1927 (NADCON CONUS) <b>Map Zone:</b> New Mexico East 3001			
<b>Site:</b> Puckett 12 Federal			
<b>Site Position:</b> <b>From:</b> Map <b>Position Uncertainty:</b> 0.00 usft		<b>Northing:</b> 675,427.40 usft <b>Easting:</b> 659,029.50 usft <b>Slot Radius:</b> 13-3/16 "	<b>Latitude:</b> 32.85576198 <b>Longitude:</b> -103.81545169 <b>Grid Convergence:</b> 0.28 "
<b>Well:</b> Puckett 12 Federal Well No. 27H, Surf Loc: 249 FNL 615 FEL Sect 12-T17S-R31E Unit A			
<b>Well Position</b> <b>+N-S</b> 0.00 usft <b>+E-W</b> 0.00 usft <b>Position Uncertainty</b> 0.00 usft		<b>Northing:</b> 675,387.40 usft <b>Easting:</b> 658,859.70 usft <b>Wellhead Elevation:</b> usft	<b>Latitude:</b> 32.85565433 <b>Longitude:</b> -103.81601525 <b>Ground Level:</b> 4,009.00 usft
<b>Wellbore:</b> Original Hole			
<b>Magnetics</b> <b>Model Name:</b> IGRF2010 <b>Sample Date:</b> 2/13/2015		<b>Declination</b> 7.29 <b>Dip Angle</b> 60.64 <b>Field Strength</b> 48,598 (nT)	
<b>Design:</b> rev0 <b>Audit Notes:</b>			
<b>Version:</b>			
<b>Vertical Section:</b> <b>Depth From (TVD)</b> 0.00 <b>+N-S</b> 0.00 <b>+E-W</b> 0.00 <b>Direction</b> 184.23			
<b>Survey Tool Program</b> <b>From</b> 0.00 <b>To</b> 10.643.89 rev0 (Original Hole) <b>Survey (Wellbore)</b> MWD <b>Tool Name</b> MWD <b>Description</b> MWD - Standard			



Standard\_report

Company: COG Operating LLC Eddy County, New Mexico		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well Puckett 12 Federal Well No. 27H RKB=4009+12 @ 4021.00ust (United #43) RKB=4009+12 @ 4021.00ust (United #43) Grid Minimum Curvature Dbase Nov0914	
Project: Puckett 12 Federal	Well: Puckett 12 Federal Well No. 27H	TVD (ust)		Northing (ust)	
Wellbore: Original Hole	Design: rev0	Azi (azimuth)		Easting (ust)	
Planned Survey		Inc (°)		V. Sec (ust)	
MD (ust)					
0.00	0.00	0.00	0.00	0.00	658,859.70
100.00	0.00	0.00	0.00	0.00	658,859.70
200.00	0.00	0.00	0.00	0.00	658,859.70
300.00	0.00	0.00	0.00	0.00	658,859.70
400.00	0.00	0.00	0.00	0.00	658,859.70
500.00	0.00	0.00	0.00	0.00	658,859.70
600.00	0.00	0.00	0.00	0.00	658,859.70
700.00	0.00	0.00	0.00	0.00	658,859.70
800.00	0.00	0.00	0.00	0.00	658,859.70
900.00	0.00	0.00	0.00	0.00	658,859.70
1,000.00	0.00	0.00	0.00	0.00	658,859.70
1,100.00	0.00	0.00	0.00	0.00	658,859.70
1,200.00	0.00	0.00	0.00	0.00	658,859.70
1,300.00	0.00	0.00	0.00	0.00	658,859.70
1,400.00	0.00	0.00	0.00	0.00	658,859.70
1,500.00	0.00	0.00	0.00	0.00	658,859.70
1,600.00	0.00	0.00	0.00	0.00	658,859.70
1,700.00	0.00	0.00	0.00	0.00	658,859.70
1,800.00	0.00	0.00	0.00	0.00	658,859.70
1,900.00	0.00	0.00	0.00	0.00	658,859.70
2,000.00	0.00	0.00	0.00	0.00	658,859.70
2,100.00	0.00	0.00	0.00	0.00	658,859.70
2,200.00	0.00	0.00	0.00	0.00	658,859.70
2,300.00	0.00	0.00	0.00	0.00	658,859.70
2,400.00	0.00	0.00	0.00	0.00	658,859.70
2,500.00	0.00	0.00	0.00	0.00	658,859.70
2,600.00	0.00	0.00	0.00	0.00	658,859.70



Standard\_report

Company: COG Operating LLC			Local Co-ordinate Reference:			Well Puckett 12 Federal Well No. 27H			
Project: Eddy County, New Mexico			TVD Reference:			RKB=4009+12 @ 4021.00usft (United #43)			
Site: Puckett 12 Federal			MD Reference:			RKB=4009+12 @ 4021.00usft (United #43)			
Well: Puckett 12 Federal Well No. 27H			North Reference:			Gnd			
Wellbore: Original Hole			Survey Calculation Method:			Minimum Curvature			
Design: rev0			Database:			Dbase Nov0914			
Planned Survey									
MD (usft)	Inc (")	Azi (azimuth)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	V. Sec (usft)	North (usft)	East (usft)
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	675,387.40	658,859.70





2/17/2015 2:37:07PM Page 5 COMPASS 5000.1 Build 65



Standard report

Company: COG Operating LLC		Local Co-ordinate Reference:		Well Puckett 12 Federal Well No. 27H					
Project: Eddy County, New Mexico		TVD Reference:		RKB=4009+12 @ 4021.00usft (United #43)					
Site: Puckett 12 Federal		MD Reference:		RKB=4009+12 @ 4021.00usft (United #43)					
Well: Puckett 12 Federal Well No. 27H		North Reference:		Gnd					
Wellbore: Original Hole		Survey Calculation Method:		Minimum Curvature					
Design: rev0		Database:		Dbase Nov0914					
Planned Survey									
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
7,500.00	91.00	184.23	6,131.81	-1,569.03	-116.08	0.00	1,573.32	673,818.37	658,743.62
7,600.00	91.00	184.23	6,130.07	-1,568.74	-123.46	0.00	1,673.30	673,718.66	658,736.24
7,700.00	91.00	184.23	6,128.32	-1,768.46	-130.83	0.00	1,773.29	673,618.94	658,728.87
7,800.00	91.00	184.23	6,126.58	-1,868.17	-138.21	0.00	1,873.27	673,519.23	658,721.49
7,900.00	91.00	184.23	6,124.84	-1,967.88	-145.59	0.00	1,973.26	673,419.52	658,714.11
8,000.00	91.00	184.23	6,123.09	-2,067.59	-152.96	0.00	2,073.24	673,319.81	658,706.74
8,100.00	91.00	184.23	6,121.35	-2,167.31	-160.34	0.00	2,173.23	673,220.09	658,699.36
8,200.00	91.00	184.23	6,119.61	-2,267.02	-167.72	0.00	2,273.21	673,120.38	658,691.98
8,300.00	91.00	184.23	6,117.86	-2,366.73	-175.09	0.00	2,373.20	673,020.67	658,684.61
8,400.00	91.00	184.23	6,116.12	-2,466.44	-182.47	0.00	2,473.18	672,920.96	658,677.23
8,500.00	91.00	184.23	6,114.38	-2,566.15	-189.85	0.00	2,573.17	672,821.25	658,669.85
8,600.00	91.00	184.23	6,112.63	-2,665.87	-197.22	0.00	2,673.15	672,721.53	658,662.48
8,700.00	91.00	184.23	6,110.89	-2,765.58	-204.60	0.00	2,773.14	672,621.82	658,655.10
8,800.00	91.00	184.23	6,109.15	-2,865.29	-211.98	0.00	2,873.12	672,522.11	658,647.72
8,900.00	91.00	184.23	6,107.40	-2,965.00	-219.35	0.00	2,973.11	672,422.40	658,640.35
9,000.00	91.00	184.23	6,105.66	-3,064.72	-226.73	0.00	3,073.09	672,322.68	658,632.97
9,100.00	91.00	184.23	6,103.92	-3,164.43	-234.11	0.00	3,173.08	672,222.97	658,625.59
9,200.00	91.00	184.23	6,102.17	-3,264.14	-241.48	0.00	3,273.06	672,123.26	658,618.22
9,300.00	91.00	184.23	6,100.43	-3,363.85	-248.86	0.00	3,373.05	672,023.55	658,610.84
9,400.00	91.00	184.23	6,098.69	-3,463.57	-256.24	0.00	3,473.03	671,923.83	658,603.46
9,500.00	91.00	184.23	6,096.94	-3,563.28	-263.62	0.00	3,573.02	671,824.12	658,596.08
9,600.00	91.00	184.23	6,095.20	-3,662.99	-270.99	0.00	3,673.00	671,724.41	658,588.71
9,700.00	91.00	184.23	6,093.46	-3,762.70	-278.37	0.00	3,772.99	671,624.70	658,581.33
9,800.00	91.00	184.23	6,091.71	-3,862.41	-285.75	0.00	3,872.97	671,524.99	658,573.95
9,900.00	91.00	184.23	6,089.97	-3,962.13	-293.12	0.00	3,972.96	671,425.27	658,566.58
10,000.00	91.00	184.23	6,088.23	-4,061.84	-300.50	0.00	4,072.94	671,325.56	658,559.20
10,100.00	91.00	184.23	6,086.48	-4,161.55	-307.88	0.00	4,172.92	671,225.85	658,551.82



Standard\_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Puckett 12 Federal Well No. 27H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=4009+12 @ 4021.00usft (United #43)
Site:	Puckett 12 Federal	MD Reference:	RKB=4009+12 @ 4021.00usft (United #43)
Well:	Puckett 12 Federal Well No. 27H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	Dbase Nov0914

Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Dleg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
10,200.00	91.00	184.23	5,084.74	-4,261.26	-315.25	0.00	4,272.91	671,126.14	658,544.45
10,300.00	91.00	184.23	5,083.00	-4,360.98	-322.63	0.00	4,372.89	671,026.42	658,537.07
10,400.00	91.00	184.23	5,081.25	-4,460.69	-330.01	0.00	4,472.88	670,926.71	658,529.69
10,500.00	91.00	184.23	5,079.51	-4,560.40	-337.38	0.00	4,572.86	670,827.00	658,522.32
10,600.00	91.00	184.23	5,077.77	-4,660.11	-344.76	0.00	4,672.85	670,727.29	658,514.94
10,643.91	91.00	184.23	5,077.00	-4,703.90	-348.00	0.00	4,716.76	670,683.50	658,511.70
PBHLTD									

Plan Annotations				
Measured	Vertical	Local Coordinates	Depth	Comment
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	
5,629.21	5,629.21	0.00	0.00	KOP Begin 11'100' build
5,925.00	5,909.36	-81.53	-6.03	330 Hard line intercept @ 5925 MD
6,456.47	6,150.00	-528.51	-39.10	Begin 91.00 lateral section
10,643.91	6,077.00	-4,703.90	-348.00	PBHL/TD