

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
ArtesiaFORM 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.
NMLC029415B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

8. Well Name and No.
PUCKETT 12 FEDERAL 8H9. API Well No.
30-015-40737-00-X110. Field and Pool, or Exploratory
FREN-GLORIETA-YESO11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KELLY J HOLLY
E-Mail: kholly@concho.com3a. Address
600 W ILLINOIS AVENUE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432.685.4384

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

Sec 12 T17S R31E SESE 43FSL 590FEL

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 KOP, TVD and production string tail cement of this well as follows:

FROM: 6523' TVD; 11292' MD - EOC:6600' TVD
TO: 6074' TVD; 10842' MD - EOC:6150' TVD

A revised directional plan is attached.

PLEASE SEE ATTACHMENT FOR DETAILS

COAs from EC # 259 779
Still Stand.

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 19 2016

CD 1/20/16
Accepted for record
NMOCD

RECEIVED

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

Electronic Submission #293140 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 (15JLR0428SE)

Name (Printed/Typed) KELLY J HOLLY

Title PERMITTING TECH

Signature (Electronic Submission)

Date 02/26/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

JAN 8 2016

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

BUREAU OF LAND MANAGEMENT
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.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Puckett 12 Federal #8H Sundry

COG Operating LLC requests permission to change the KOP, Target TVD and production string tail cement as follows:

Old Target formation- Lower Blinbry

Old KOP 6123'

Old Target TVD 6600'

Old Production string tail cement-350 sks Solucem H (yield 2.62 cf/sk wt. 15 ppg)

New Target formation- Upper Blinbry

New KOP 5629'

New Target TVD 6150'

New Production string tail cement-925 sks 50:50:2 Class "C" w/ 5% salt, 3 pps LCM, 0.6% SMS, 1% FL-25, 1% BA-58, 0.125 CF (yield 1.37 cf/sk wt. 14 ppg)



COG Operating LLC

Well: Puckett 12 Federal Well No. 8H
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	Dleg	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	6456.48	91.00	2.70	6150.00	529.37	24.97	11.00	2.70	529.98	Begin 91.00 lateral section
4	10841.65	91.00	2.70	6073.50	4808.00	231.60	0.00	0.00	4814.46	PBHLTD

Surface Location: RKB-3566+12 @ 3978.00usft (United 43)
US State Plane 1927 (Exact solution)
New Mexico East 3001

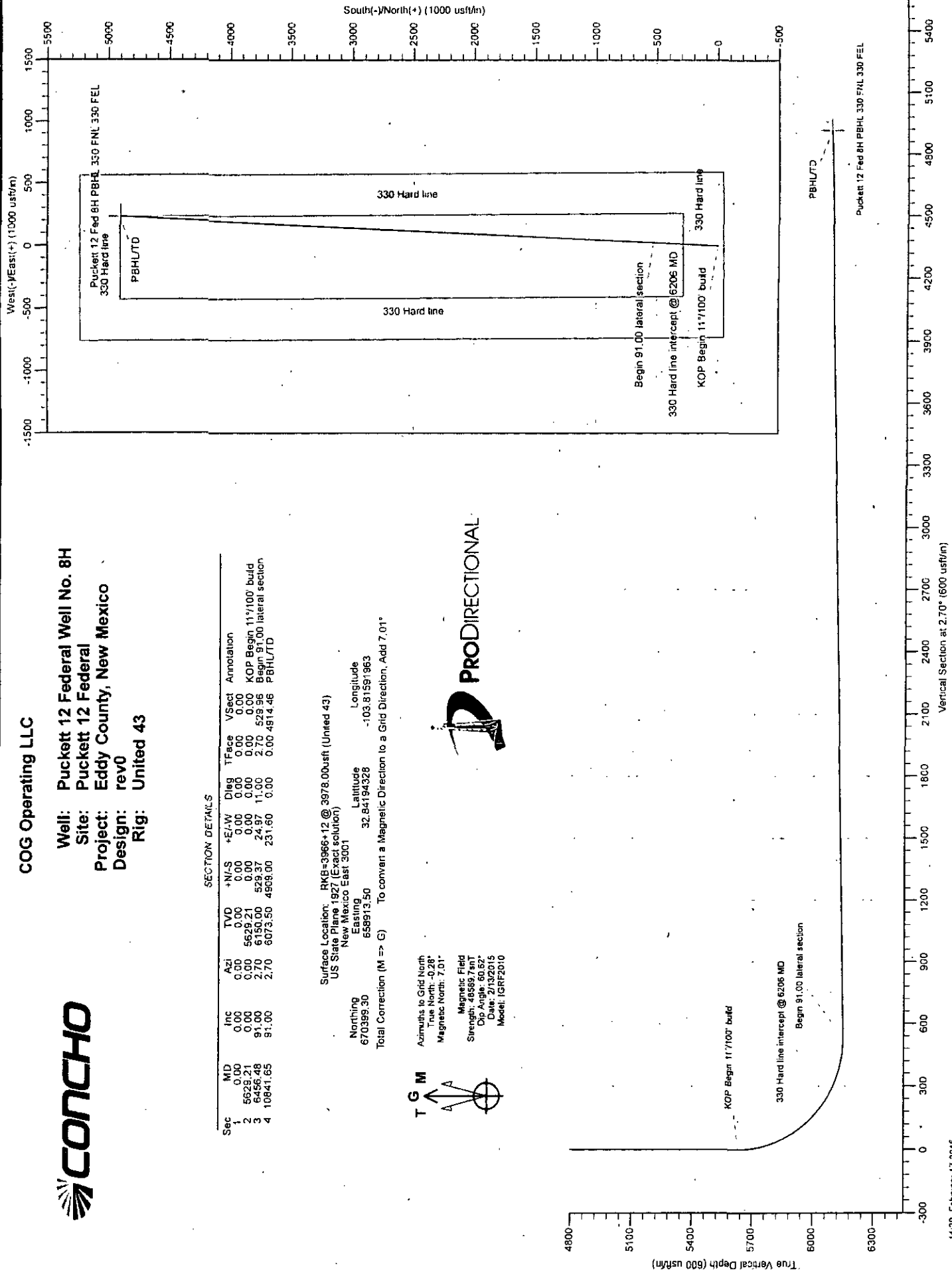
Northing: 670395.30
Easting: 658513.50
Latitude: 32.84194328
Longitude: -103.81591963

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



Azimuths to Grid North
True North: -0.26°
Magnetic North: 7.01°
Magnetic Field
Strength: 48583.7nT
Dip Angle: 60.82°
Date: 2/13/2015
Model: IGRF2010

PRODIRECTIONAL





NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 19 2016

RECEIVED

COG Operating LLC

Eddy County, New Mexico

Puckett 12 Federal

Puckett 12 Federal Well No. 8H

Original Hole

SHL: 43 FSL 590 FEL Sect 12-T17S-R31E Unit P
POE: 330 FSL 575 FEL Sect 12-T17S-R31E Unit P
BHL: 330 FNL 330 FEL Sect 12-T17S-R31E Unit A

Plan: rev0

Standard_report

17 February, 2015



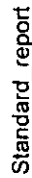
Standard_report

Company: COG Operating LLC		Local Co-ordinate Reference: Well Puckett 12 Federal Well No. 8H	
Project: Eddy County, New Mexico		RKB=3966+12 @ 3978 00usft (United 43)	
Site: Puckett 12 Federal		MD Reference: RKB=3966+12 @ 3978 00usft (United 43)	
Well: Puckett 12 Federal Well No. 8H		Grid	
Wellbore: Original Hole		Minimum Curvature	
Design: rev0		Database: Dbase Nov0914	
Project: Eddy County, New Mexico		System Datum: Mean Sea Level	
Map System: US State Plane 1927 (Exact solution)			
Geo Datum: NAD 1927 (NADCON CONUS)			
Map Zone: New Mexico East 3001			
Site: Puckett 12 Federal			
Site Position:	Northing: 575,427.40 usft	Latitude: 32.85576198	
From:	Easting: 659,029.50 usft	Longitude: -103.81545159	
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.28	
Well: Puckett 12 Federal Well No. 8H, Surf Loc: 43 FSL 590 FEL Sect 12-T17S-R31E unit P			
Well Position	+N/S 0.00 usft	Northing: 570,399.30 usft	Latitude: 32.84194328
+E/W 0.00 usft	Easting: 658,913.50 usft	Longitude: -103.81591953	
Position Uncertainty 0.00 usft	Wellhead Elevation: usft	Ground Level: 3,966.00 usft	
Wellbore: Original Hole			
Magnetics			
Model Name	Sample Date	Dip Angle	Field Strength
IGRF2010	2/13/2015	7.29	60.62
			48.590
Design			
Audit Notes:	Phase: PLAN	Tie On Depth: 0.00	
Version:	Depth From (TVD)	+E/W	Direction
	(usft) 0.00	(usft) 0.00	(°) 2.70
Survey Tool Program:			
From:	To:	Tool Name	Description
(usft) 0.00	(usft) 10,841.65 rev0 (Original Hole)	Survey (Wellbore)	MWD - Standard

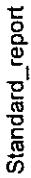


Standard_report

Company: COG Operating LLC		Local Co-ordinate Reference:				Well Puckett 12 Federal Well No. 8H			
Project: Eddy County, New Mexico		TVD Reference:				RKB=3966+12 @ 3978.00usft (United 43)			
Site: Puckett 12 Federal		MD Reference:				RKB=3966+12 @ 3978.00usft (United 43)			
Well: Puckett 12 Federal Well No. 8H		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)	E/W (usft)	DLeg (°/100usft)	V Sec (usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	670.399.30	658.913.50



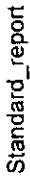
2/17/2015 2:21:26PM Page 4 COMPASS 5000.1 Build 65



Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Puckett 12 Federal Well No. 8H
RKB=3966+12 @ 3978.00usft (United 43)
RKB=3966+12 @ 3978.00usft (United 43)
Grid
Minimum Curvature
Dbase Nov0914

Planned Survey	MD (usft)	Inc. (")	Azi (azimuth)	TVD (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	V. Sec (usft)	North (usft)	East (usft)
	5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	670,399.30	658,913.50
	5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	670,399.30	658,913.50
	5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	670,399.30	658,913.50
	5,629.21	0.00	0.00	5,629.21	0.00	0.00	0.00	0.00	670,399.30	658,913.50
KOP Begin 11°/100' build										
	5,700.00	7.79	2.70	5,699.78	4.80	0.23	11.00	4.80	670,404.10	658,913.73
	5,800.00	18.79	2.70	5,796.96	27.72	1.31	11.00	27.75	670,427.02	658,914.81
	5,900.00	29.79	2.70	5,887.97	68.74	3.24	11.00	68.82	670,468.04	658,916.74
	6,000.00	40.79	2.70	5,969.47	126.36	5.96	11.00	126.50	670,525.66	658,919.46
	6,100.00	51.79	2.70	6,038.47	198.45	9.36	11.00	198.67	670,597.75	658,922.86
	6,200.00	62.79	2.70	6,092.43	282.36	13.32	11.00	282.68	670,681.66	658,926.82
	6,206.00	63.45	2.70	6,095.14	287.71	13.57	11.00	288.03	670,687.01	658,927.07
330 Hard line intercept @ 6206 MD										
	6,300.00	73.79	2.70	6,129.37	375.02	17.69	11.00	375.44	670,774.32	658,931.19
	6,400.00	84.79	2.70	6,147.93	473.02	22.32	11.00	473.54	670,872.32	658,935.82
	6,456.48	91.00	2.70	6,150.00	528.37	24.97	11.00	529.96	670,928.67	658,938.47
Begin 91.00 lateral section										
	6,500.00	91.00	2.70	6,149.24	572.83	27.03	0.00	573.47	670,972.13	658,940.53
	6,600.00	91.00	2.70	6,147.50	672.71	31.74	0.00	673.46	671,072.01	658,945.24
	6,700.00	91.00	2.70	6,145.75	772.58	36.45	0.00	773.44	671,171.88	658,949.95
	6,800.00	91.00	2.70	6,144.01	872.46	41.16	0.00	873.43	671,271.76	658,954.66
	6,900.00	91.00	2.70	6,142.26	972.33	45.87	0.00	973.41	671,371.63	658,959.37
	7,000.00	91.00	2.70	6,140.52	1,072.20	50.59	0.00	1,073.40	671,471.50	658,964.09
	7,100.00	91.00	2.70	6,138.77	1,172.08	55.30	0.00	1,173.38	671,571.38	658,968.80
	7,200.00	91.00	2.70	6,137.03	1,271.95	60.01	0.00	1,273.37	671,671.25	658,973.51
	7,300.00	91.00	2.70	6,135.29	1,371.82	64.72	0.00	1,373.35	671,771.12	658,978.22
	7,400.00	91.00	2.70	6,133.54	1,471.70	69.43	0.00	1,473.33	671,871.00	658,982.93



Well Puckett 12 Federal Well No. 8H
 RKB=3966+12 @ 3978.00ust (United 43)
 RKB=3966+12 @ 3978.00ust (United 43)
 Grid
 Minimum Curvature
 Base Nov0914

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dleg (°100usft)	V. Sec (usft)	Northing (usft)	Eastng (usft)	
7,500.00	91.00	2.70	6,131.80	1,571.57	74.14	0.00	1,573.32	671,970.87	658,987.64	
7,600.00	91.00	2.70	6,130.05	1,671.45	78.85	0.00	1,673.30	672,070.75	658,992.36	
7,700.00	91.00	2.70	6,128.31	1,771.32	83.57	0.00	1,773.29	672,170.62	658,997.07	
7,800.00	91.00	2.70	6,126.56	1,871.19	88.28	0.00	1,873.27	672,270.49	659,001.78	
7,900.00	91.00	2.70	6,124.82	1,971.07	92.99	0.00	1,973.26	672,370.37	659,006.49	
8,000.00	91.00	2.70	6,123.07	2,070.94	97.70	0.00	2,073.24	672,470.24	659,011.20	
8,100.00	91.00	2.70	6,121.33	2,170.81	102.42	0.00	2,173.23	672,570.11	659,015.92	
8,200.00	91.00	2.70	6,119.58	2,270.69	107.13	0.00	2,273.21	672,669.99	659,020.63	
8,300.00	91.00	2.70	6,117.84	2,370.56	111.84	0.00	2,373.20	672,769.86	659,025.34	
8,400.00	91.00	2.70	6,116.10	2,470.43	116.55	0.00	2,473.18	672,869.73	659,030.05	
8,500.00	91.00	2.70	6,114.35	2,570.31	121.26	0.00	2,573.17	672,969.61	659,034.76	
8,600.00	91.00	2.70	6,112.61	2,670.18	125.98	0.00	2,673.15	673,069.48	659,039.48	
8,700.00	91.00	2.70	6,110.86	2,770.06	130.69	0.00	2,773.14	673,169.36	659,044.19	
8,800.00	91.00	2.70	6,109.12	2,869.93	135.40	0.00	2,873.12	673,269.23	659,048.90	
8,900.00	91.00	2.70	6,107.37	2,969.80	140.11	0.00	2,973.11	673,369.10	659,053.61	
9,000.00	91.00	2.70	6,105.63	3,069.68	144.82	0.00	3,073.09	673,468.98	659,058.32	
9,100.00	91.00	2.70	6,103.88	3,169.55	149.54	0.00	3,173.08	673,568.85	659,063.04	
9,200.00	91.00	2.70	6,102.14	3,269.42	154.25	0.00	3,273.06	673,668.72	659,067.75	
9,300.00	91.00	2.70	6,100.39	3,369.30	158.96	0.00	3,373.05	673,768.60	659,072.46	
9,400.00	91.00	2.70	6,098.65	3,469.17	163.67	0.00	3,473.03	673,868.47	659,077.17	
9,500.00	91.00	2.70	6,096.91	3,569.05	168.38	0.00	3,573.02	673,968.35	659,081.88	
9,600.00	91.00	2.70	6,095.16	3,668.92	173.09	0.00	3,673.00	674,068.22	659,086.59	
9,700.00	91.00	2.70	6,093.42	3,768.79	177.81	0.00	3,772.98	674,168.09	659,091.31	
9,800.00	91.00	2.70	6,091.67	3,868.67	182.52	0.00	3,872.97	674,267.97	659,096.02	
9,900.00	91.00	2.70	6,089.93	3,968.54	187.23	0.00	3,972.95	674,367.84	659,100.73	
10,000.00	91.00	2.70	6,088.18	4,068.41	191.94	0.00	4,072.94	674,467.71	659,105.44	
10,100.00	91.00	2.70	6,086.44	4,168.29	196.65	0.00	4,172.92	674,567.59	659,110.15	



Standard_report

Company: COG Operating LLC
Project: Eddy County, New Mexico
Site: Puckett 12 Federal
Well: Puckett 12 Federal Well No. 8H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well Puckett 12 Federal Well No. 8H
RKB=3966+12 @ 3978.00ust (United 43)
RKB=3966+12 @ 3978.00ust (United 43)
Grid
Minimum Curvature
Dbase Nov09:14

Planned Survey

MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	N/S (ust)	E/W (ust)	D/Leg (°/100ust)	V. Sec (ust)	Nothing (ust)	Easting (ust)
10,200.00	91.00	2.70	6,084.59	4,268.16	201.37	0.00	4,272.91	674,567.46	559,114.87
10,300.00	91.00	2.70	6,082.95	4,368.03	206.08	0.00	4,372.89	674,767.33	559,119.58
10,400.00	91.00	2.70	6,081.20	4,467.91	210.79	0.00	4,472.88	674,867.21	559,124.29
10,500.00	91.00	2.70	6,079.46	4,567.78	215.50	0.00	4,572.86	674,967.08	559,129.00
10,600.00	91.00	2.70	6,077.72	4,667.66	220.21	0.00	4,672.85	675,066.96	559,133.71
10,700.00	91.00	2.70	6,075.97	4,767.53	224.93	0.00	4,772.83	675,166.83	559,138.43
10,800.00	91.00	2.70	6,074.23	4,867.40	229.64	0.00	4,872.82	675,266.70	559,143.14
10,841.65	91.00	2.70	6,073.50	4,909.00	231.60	0.00	4,914.46	675,308.30	559,145.10

PBHL/TD

Plan Annotations

Measured Depth (ust)	Vertical Depth (ust)	+N/S (ust)	+E/W (ust)	Comment
5,629.21	5,629.21	0.00	0.00	KOP Begin 11°/100' build
6,206.00	6,095.14	287.71	13.57	330 Hard line intercept @ 6206 MD
6,456.48	6,150.00	529.37	24.97	Begin 91.00 lateral section
10,841.65	6,073.50	4,909.00	231.60	PBHL/TD