

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

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM7752
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: ROBYN M ODOM E-Mail: rodom@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4385	8. Well Name and No. SAM ADAMS 12 FEDERAL COM UBB 4H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T17S R29E SWNW 2310FNL 0230FWL 32.849840 N Lat, 104.035590 W Lon		9. API Well No. 30-015-41618-00-X1
		10. Field and Pool, or Exploratory EMPIRE
		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 A PD
	☐ 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 permission to change the TVD:

FROM: 5427'TVD; 9987'MD
TO: 4827'TVD; 9387'MD

Attached is the revised Directional Plan.

Accepted for record

16 NMOC
6614NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 06 2014

RECEIVED

Original COAs still stand

14. I hereby certify that the foregoing is true and correct. Electronic Submission #240173 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 (14AXM0090SE)	
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 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 **

COG Operating LLC



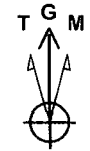
Well: Sam Adams 12 Federal Com UBB Well No. 4H
 Site: Sam Adams 12 Federal Com UBB
 Project: Eddy County, New Mexico
 Design: rev0
 Rig:

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4379.17	0.00	0.00	4379.17	0.00	0.00	0.00	0.00	0.00	KOP Begin 11"/100' build
3	5206.44	91.00	89.95	4899.96	0.47	529.96	11.00	89.95	529.96	Begin 91.00° lateral
4	9386.72	91.00	89.95	4827.00	4.20	4709.60	0.00	0.00	4709.60	PBHL/TD

Surface Location: RKB=3646+13.5 @ 3659.50usft ()
 US State Plane 1927 (Exact solution)
 New Mexico East 3001

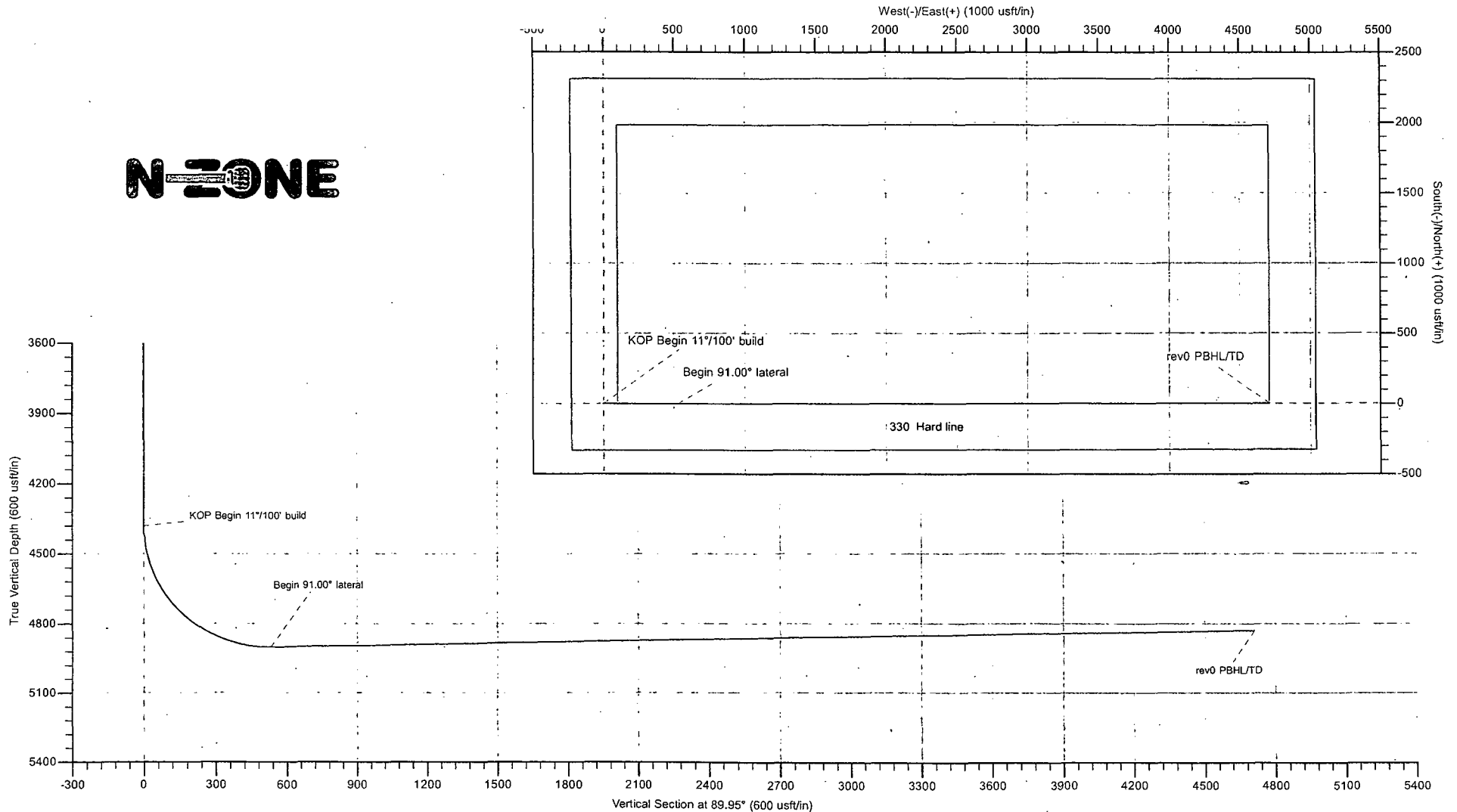
Northing: 673013.40 Easting: 591438.60 Latitude: 32.84984411 Longitude: -104.03558673
 Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 7.36°



Azimuths to Grid North
 True North: -0.16°
 Magnetic North: 7.36°

Magnetic Field
 Strength: 48671.5nT
 Dip Angle: 60.62°
 Date: 2/19/2014
 Model: IGRF2010

N-ZONE





COG Operating LLC

Eddy County, New Mexico

Sam Adams 12 Federal Com UBB

Sam Adams 12 Federal Com UBB Well No. 4H

Original Hole

SHL: 2310 FNL 230 FWL

BHL: 2308 FNL 330 FWL

Plan: rev0

Standard_report

19 February, 2014



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Sam Adams 12 Federal Com UBB Well No. 4
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3646+13.5 @ 3659.50usft (.)
Site:	Sam Adams 12 Federal Com UBB	MD Reference:	RKB=3646+13.5 @ 3659.50usft (.)
Well:	Sam Adams 12 Federal Com UBB Well No. 4H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	EDM 5000.1 Database

Project:	Eddy County, New Mexico		
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:	Sam Adams 12 Federal Com UBB		
Site Position:		Northing:	673,013.40 usft
From:	Map	Easting:	591,438.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.84984411
		Longitude:	-104.03558673
		Grid Convergence:	0.16 °

Well:	Sam Adams 12 Federal Com UBB Well No. 4H					
Well Position	+N/-S	0.00 usft	Northing:	673,013.40 usft	Latitude:	32.84984411
	+E/-W	0.00 usft	Easting:	591,438.60 usft	Longitude:	-104.03558673
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,646.00 usft

Wellbore:	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2/19/2014	7.52	60.62	48,671

Design:	rev0				
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	89.95	

Survey Tool/Program	Date 2/19/2014				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.00	9,386.38	rev0 (Original Hole)	MWD	MWD - Standard	



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Sam Adams 12 Federal Com UBB Well No. 4
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3646+13.5 @ 3659.50usft ()
Site:	Sam Adams 12 Federal Com UBB	MD Reference:	RKB=3646+13.5 @ 3659.50usft ()
Well:	Sam Adams 12 Federal Com UBB Well No. 4H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	EDM 5000.1 Database

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D Leg (°/100ft)	V: Sec (usft)	Northings (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Sam Adams 12 Federal Com UBB Well No. 4
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3646+13.5 @ 3659.50usft (.)
Site:	Sam Adams 12 Federal Com UBB	MD Reference:	RKB=3646+13.5 @ 3659.50usft (.)
Well:	Sam Adams 12 Federal Com UBB Well No. 4H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	EDM 5000:1 Database

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100ft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
4,379.17	0.00	0.00	4,379.17	0.00	0.00	0.00	0.00	673,013.40	591,438.60	
KOP Begin .11"/100' build										
4,400.00	2.29	89.95	4,399.99	0.00	0.42	11.00	0.42	673,013.40	591,439.02	
4,500.00	13.29	89.95	4,498.92	0.01	13.95	11.00	13.95	673,013.41	591,452.55	
4,600.00	24.29	89.95	4,593.44	0.04	46.11	11.00	46.11	673,013.44	591,484.71	
4,700.00	35.29	89.95	4,680.09	0.09	95.72	11.00	95.72	673,013.49	591,534.32	
4,800.00	46.29	89.95	4,755.69	0.14	160.95	11.00	160.95	673,013.54	591,599.55	
4,900.00	57.29	89.95	4,817.45	0.21	239.41	11.00	239.41	673,013.61	591,678.01	
5,000.00	68.29	89.95	4,863.10	0.29	328.21	11.00	328.21	673,013.69	591,766.81	
5,100.00	79.29	89.95	4,890.97	0.38	424.09	11.00	424.09	673,013.78	591,862.69	



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Sam Adams 12 Federal Com UBB Well No. 4
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3646+13.5 @ 3659.50usft ()
Site:	Sam Adams 12 Federal Com UBB	MD Reference:	RKB=3646+13.5 @ 3659.50usft ()
Well:	Sam Adams 12 Federal Com UBB Well No. 4H	North Reference:	Grid:
Wellbore Design:	Original Hole rev0	Survey/Calculation Method:	Minimum Curvature
		Database:	EDM 5000.1 Database

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dleg (°/100ft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
5,200.00	90.29	89.95	4,900.03	0.47	523.52	11.00	523.52	673,013.87	591,962.12	
5,206.44	91.00	89.95	4,899.96	0.47	529.96	11.00	529.96	673,013.87	591,968.56	
Begin 91.00° lateral										
5,300.00	91.00	89.95	4,898.33	0.56	623.50	0.00	623.50	673,013.96	592,062.10	
5,400.00	91.00	89.95	4,896.58	0.65	723.49	0.00	723.49	673,014.05	592,162.09	
5,500.00	91.00	89.95	4,894.84	0.73	823.47	0.00	823.47	673,014.13	592,262.07	
5,600.00	91.00	89.95	4,893.09	0.82	923.46	0.00	923.46	673,014.22	592,362.06	
5,700.00	91.00	89.95	4,891.35	0.91	1,023.44	0.00	1,023.44	673,014.31	592,462.04	
5,800.00	91.00	89.95	4,889.60	1.00	1,123.43	0.00	1,123.43	673,014.40	592,562.03	
5,900.00	91.00	89.95	4,887.86	1.09	1,223.41	0.00	1,223.41	673,014.49	592,662.01	
6,000.00	91.00	89.95	4,886.11	1.18	1,323.40	0.00	1,323.40	673,014.58	592,762.00	
6,100.00	91.00	89.95	4,884.36	1.27	1,423.38	0.00	1,423.38	673,014.67	592,861.98	
6,200.00	91.00	89.95	4,882.62	1.36	1,523.37	0.00	1,523.37	673,014.76	592,961.97	
6,300.00	91.00	89.95	4,880.87	1.45	1,623.35	0.00	1,623.35	673,014.85	593,061.95	
6,400.00	91.00	89.95	4,879.13	1.54	1,723.34	0.00	1,723.34	673,014.94	593,161.94	
6,500.00	91.00	89.95	4,877.38	1.63	1,823.32	0.00	1,823.32	673,015.03	593,261.92	
6,600.00	91.00	89.95	4,875.64	1.72	1,923.31	0.00	1,923.31	673,015.12	593,361.91	
6,700.00	91.00	89.95	4,873.89	1.80	2,023.29	0.00	2,023.29	673,015.20	593,461.89	
6,800.00	91.00	89.95	4,872.15	1.89	2,123.28	0.00	2,123.28	673,015.29	593,561.88	
6,900.00	91.00	89.95	4,870.40	1.98	2,223.26	0.00	2,223.26	673,015.38	593,661.86	
7,000.00	91.00	89.95	4,868.66	2.07	2,323.24	0.00	2,323.25	673,015.47	593,761.84	
7,100.00	91.00	89.95	4,866.91	2.16	2,423.23	0.00	2,423.23	673,015.56	593,861.83	
7,200.00	91.00	89.95	4,865.17	2.25	2,523.21	0.00	2,523.22	673,015.65	593,961.81	
7,300.00	91.00	89.95	4,863.42	2.34	2,623.20	0.00	2,623.20	673,015.74	594,061.80	
7,400.00	91.00	89.95	4,861.68	2.43	2,723.18	0.00	2,723.18	673,015.83	594,161.78	
7,500.00	91.00	89.95	4,859.93	2.52	2,823.17	0.00	2,823.17	673,015.92	594,261.77	
7,600.00	91.00	89.95	4,858.18	2.61	2,923.15	0.00	2,923.15	673,016.01	594,361.75	



Standard_report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well: Sam Adams 12 Federal Com UBB Well No. 4
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3646+13:5 @ 3659.50usft (-)
Site:	Sam Adams 12 Federal Com UBB	MD Reference:	RKB=3646+13:5 @ 3659.50usft (-)
Well:	Sam Adams 12 Federal Com UBB Well No. 4H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev0	Database:	EDM 5000.1 Database

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100ft)	V-Sec (usft)	Northing (usft)	Easting (usft)	
7,700.00	91.00	89.95	4,856.44	2.70	3,023.14	0.00	3,023.14	673,016.10	594,461.74	
7,800.00	91.00	89.95	4,854.69	2.79	3,123.12	0.00	3,123.12	673,016.19	594,561.72	
7,900.00	91.00	89.95	4,852.95	2.87	3,223.11	0.00	3,223.11	673,016.27	594,661.71	
8,000.00	91.00	89.95	4,851.20	2.96	3,323.09	0.00	3,323.09	673,016.36	594,761.69	
8,100.00	91.00	89.95	4,849.46	3.05	3,423.08	0.00	3,423.08	673,016.45	594,861.68	
8,200.00	91.00	89.95	4,847.71	3.14	3,523.06	0.00	3,523.06	673,016.54	594,961.66	
8,300.00	91.00	89.95	4,845.97	3.23	3,623.05	0.00	3,623.05	673,016.63	595,061.65	
8,400.00	91.00	89.95	4,844.22	3.32	3,723.03	0.00	3,723.03	673,016.72	595,161.63	
8,500.00	91.00	89.95	4,842.48	3.41	3,823.02	0.00	3,823.02	673,016.81	595,261.62	
8,600.00	91.00	89.95	4,840.73	3.50	3,923.00	0.00	3,923.00	673,016.90	595,361.60	
8,700.00	91.00	89.95	4,838.99	3.59	4,022.99	0.00	4,022.99	673,016.99	595,461.59	
8,800.00	91.00	89.95	4,837.24	3.68	4,122.97	0.00	4,122.97	673,017.08	595,561.57	
8,900.00	91.00	89.95	4,835.49	3.77	4,222.95	0.00	4,222.96	673,017.17	595,661.55	
9,000.00	91.00	89.95	4,833.75	3.86	4,322.94	0.00	4,322.94	673,017.26	595,761.54	
9,100.00	91.00	89.95	4,832.00	3.94	4,422.92	0.00	4,422.93	673,017.34	595,861.52	
9,200.00	91.00	89.95	4,830.26	4.03	4,522.91	0.00	4,522.91	673,017.43	595,961.51	
9,300.00	91.00	89.95	4,828.51	4.12	4,622.89	0.00	4,622.90	673,017.52	596,061.49	
9,386.72	91.00	89.95	4,827.00	4.20	4,709.60	0.00	4,709.60	673,017.60	596,148.20	
PBHL/TD										

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N/S (usft)	E/W (usft)	
4,379.17	4,379.17	0.00	0.00	KOP Begin 11°/100' build
5,206.44	4,899.96	0.47	529.96	Begin 91.00° lateral
9,386.72	4,827.00	4.20	4,709.60	PBHL/TD