

District I
1625 N Fitch Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☒ Permit ☐ Closure

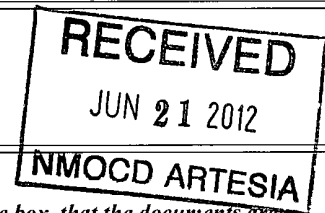
Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: **COG OPERATING LLC** OGRID #: **229137**
Address: **550 WEST TEXAS, SUITE 1300 MIDLAND, TX 79701**
Facility or well name: **TEX MACK #244H**
API Number: **30-015-40420** OCD Permit Number: **213114**
U/L or Qtr/Qtr **ULL** Section **2** Township **17S** Range **31E** County: **EDDY**
Center of Proposed Design: Latitude **N/A** Longitude **N/A** NAD: ☐ 1927 ☐ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2. ☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A
☐ Above Ground Steel Tanks or ☒ Haul-off Bins

3. **Signs:** Subsection C of 19.15.17.11 NMAC
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
☒ Signed in compliance with 19.15.3.103 NMAC



4. **Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number: _____
☐ Previously Approved Operating and Maintenance Plan API Number: _____

5. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.
Disposal Facility Name: **CRI** Disposal Facility Permit Number: **R1966**
Disposal Facility Name: **GM INC** Disposal Facility Permit Number: **711-019-001**
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☒ No
Required for impacted areas which will not be used for future service and operations:
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6. **Operator Application Certification:**
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): **KELLY J. HOLLY** Title: **Permitting Tech**
Signature: Date: **12/19/2011**
e-mail address: **kholly@concho.com** Telephone: **432-685-4384**

7. **OCD Approval:** ☒ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: [Signature]

Approval Date: 6/25/2012

Title: DIST # Supervisor

OCD Permit Number: 213114

8. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ Closure Completion Date: _____

9. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10. **Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

Closed Loop Operation & Maintenance Procedure

All drilling fluid circulated over shaker(s) with cuttings discharged into roll off container.

Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll off container.

Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.

Roll off containers are lined and de-watered with fluids re-circulated into system.

Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

This equipment will be maintained 24 hrs./day by solids control personnel and or rig crews that stay on location.

Cuttings will be hauled to either:

CRI (permit number R9166)

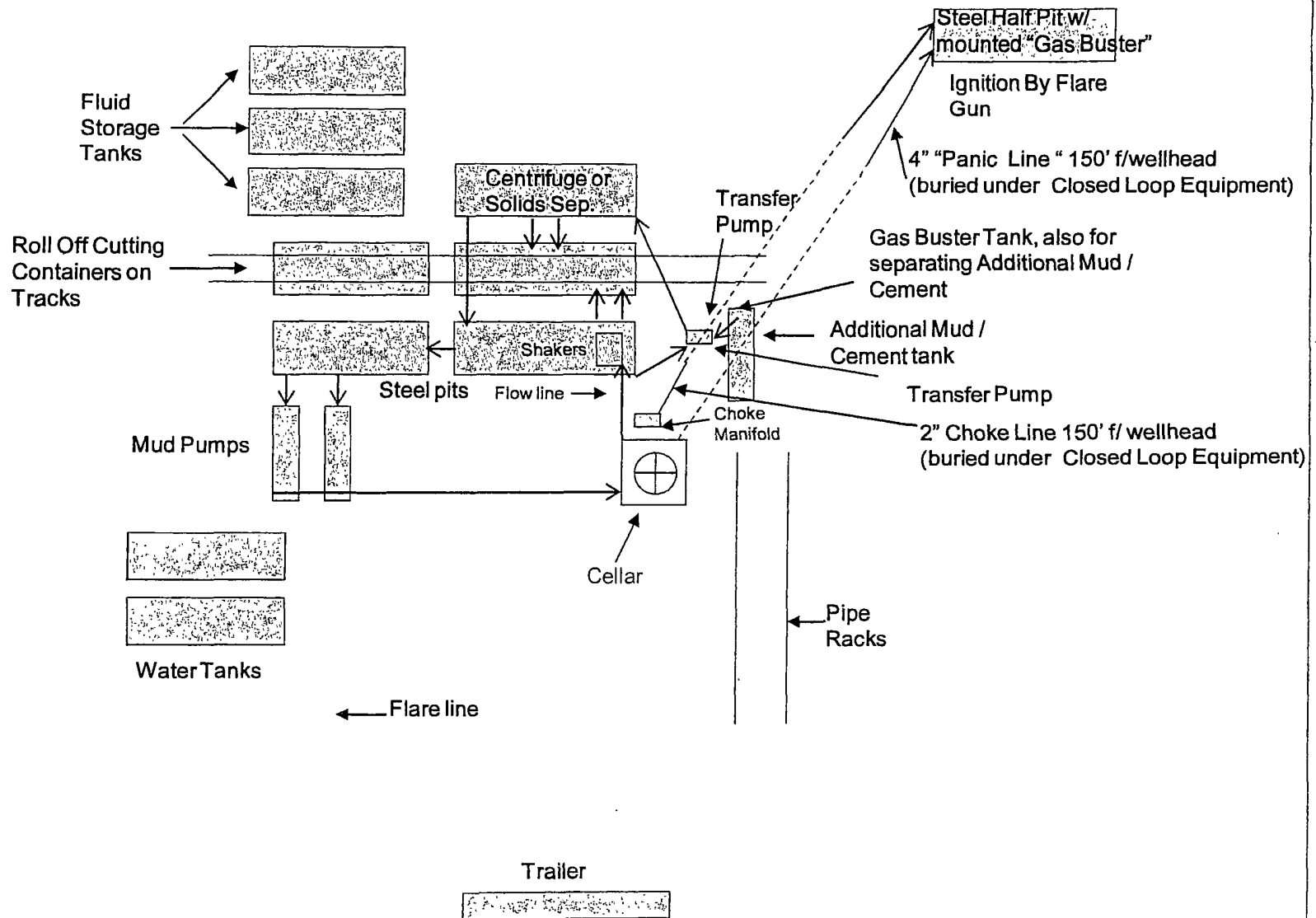
or

GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.

COG Operating LLC

Closed Loop Equipment Diagram



COG Operating LLC

Eddy County, NM

Texmack 244H

Texmack 244H

Wellbore #1

Plan: Plan #1

Surface: 1650' FSL, 330' FWL, Sec 2, T17S, R31E, Unit L

BHL: 1650' FSL, 330' FEL, Sec 2, T17S, R31E, Unit I

Standard Planning Report

13 June, 2012

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Texmack 244H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3989 00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3989 00ft (Original Well Elev)
Site:	Texmack 244H	North Reference:	Grid
Well:	Texmack 244H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

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:	Texmack 244H		
Site Position:		Northing:	677,218 30 ft
From:	Map	Easting:	649,232 40 ft
Position Uncertainty:	0 00 ft	Slot Radius:	13 200 in
		Latitude:	32 86080876
		Longitude:	-103 84734185
		Grid Convergence:	0 26 °

Well:	Texmack 244H					
Well Position	+N/-S	0 00 ft	Northing:	677,218 30 ft	Latitude:	32 86080876
	+E/-W	0 00 ft	Easting:	649,232 40 ft	Longitude:	-103 84734185
Position Uncertainty		0 00 ft	Wellhead Elevation:		Ground Level:	3,971 00 ft

Wellbore						Wellbore #1									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
										(°)		(°)		(nT)	
						IGRF2010		6/13/2012		7 64		60 70		48,866	

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0 00	0 00	0.00	89.59

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0 00	0 00	0 00	0 00	0.00	0.00	0 00	0 00	0 00	0 00	
4,972.61	0 00	0 00	4,972.61	0 00	0 00	0 00	0 00	0.00	0 00	
5,730 94	91 00	84 09	5,450 00	50 02	483 22	12 00	12 00	0 00	84 09	
5,887 56	91 00	90 36	5,447 27	57 60	639.55	4 00	0 00	4 00	89 95	
9,868 50	91 00	90.36	5,377 84	32 90	4,619 80	0 00	0 00	0 00	0.00 PBHL (Texmack 244H-	

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Texmack 244H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3989 00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3989 00ft (Original Well Elev)
Site:	Texmack 244H	North Reference:	Grid
Well:	Texmack 244H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,972.61	0.00	0.00	4,972.61	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
5,000.00	3.29	84.09	4,999.99	0.08	0.78	0.78	12.00	12.00	0.00
5,100.00	15.29	84.09	5,098.49	1.74	16.80	16.82	12.00	12.00	0.00
5,200.00	27.29	84.09	5,191.50	5.47	52.85	52.89	12.00	12.00	0.00
5,300.00	39.29	84.09	5,274.94	11.11	107.34	107.42	12.00	12.00	0.00
5,400.00	51.29	84.09	5,345.17	18.42	177.90	178.02	12.00	12.00	0.00
5,500.00	63.29	84.09	5,399.11	27.06	261.44	261.62	12.00	12.00	0.00
5,600.00	75.29	84.09	5,434.42	36.68	354.30	354.56	12.00	12.00	0.00
5,700.00	87.29	84.09	5,449.54	46.84	452.45	452.77	12.00	12.00	0.00
5,730.94	91.00	84.09	5,450.00	50.02	483.22	483.56	12.00	12.00	0.00
Landing Point - Start Turn @ 4.00°/100'									
5,800.00	91.00	86.85	5,448.80	55.47	552.04	552.42	4.00	0.00	4.00
5,887.56	91.00	90.36	5,447.27	57.60	639.55	639.94	4.00	0.00	4.00
EOT - Hold @ 90.36° AZ									
5,900.00	91.00	90.36	5,447.05	57.53	651.98	652.38	0.00	0.00	0.00
6,000.00	91.00	90.36	5,445.31	56.91	751.97	752.35	0.00	0.00	0.00
6,100.00	91.00	90.36	5,443.56	56.29	851.95	852.33	0.00	0.00	0.00
6,200.00	91.00	90.36	5,441.82	55.67	951.93	952.31	0.00	0.00	0.00
6,300.00	91.00	90.36	5,440.07	55.04	1,051.92	1,052.28	0.00	0.00	0.00
6,400.00	91.00	90.36	5,438.33	54.42	1,151.90	1,152.26	0.00	0.00	0.00
6,500.00	91.00	90.36	5,436.59	53.80	1,251.88	1,252.23	0.00	0.00	0.00
6,600.00	91.00	90.36	5,434.84	53.18	1,351.86	1,352.21	0.00	0.00	0.00
6,700.00	91.00	90.36	5,433.10	52.56	1,451.85	1,452.18	0.00	0.00	0.00
6,800.00	91.00	90.36	5,431.35	51.94	1,551.83	1,552.16	0.00	0.00	0.00
6,900.00	91.00	90.36	5,429.61	51.32	1,651.81	1,652.14	0.00	0.00	0.00
7,000.00	91.00	90.36	5,427.87	50.70	1,751.80	1,752.11	0.00	0.00	0.00
7,100.00	91.00	90.36	5,426.12	50.08	1,851.78	1,852.09	0.00	0.00	0.00
7,200.00	91.00	90.36	5,424.38	49.46	1,951.76	1,952.06	0.00	0.00	0.00
7,300.00	91.00	90.36	5,422.63	48.84	2,051.74	2,052.04	0.00	0.00	0.00
7,400.00	91.00	90.36	5,420.89	48.22	2,151.73	2,152.02	0.00	0.00	0.00
7,500.00	91.00	90.36	5,419.15	47.60	2,251.71	2,251.99	0.00	0.00	0.00
7,600.00	91.00	90.36	5,417.40	46.98	2,351.69	2,351.97	0.00	0.00	0.00
7,700.00	91.00	90.36	5,415.66	46.36	2,451.68	2,451.94	0.00	0.00	0.00
7,800.00	91.00	90.36	5,413.91	45.74	2,551.66	2,551.92	0.00	0.00	0.00
7,900.00	91.00	90.36	5,412.17	45.12	2,651.64	2,651.90	0.00	0.00	0.00
8,000.00	91.00	90.36	5,410.43	44.50	2,751.62	2,751.87	0.00	0.00	0.00
8,100.00	91.00	90.36	5,408.68	43.87	2,851.61	2,851.85	0.00	0.00	0.00
8,200.00	91.00	90.36	5,406.94	43.25	2,951.59	2,951.82	0.00	0.00	0.00
8,300.00	91.00	90.36	5,405.19	42.63	3,051.57	3,051.80	0.00	0.00	0.00
8,400.00	91.00	90.36	5,403.45	42.01	3,151.56	3,151.78	0.00	0.00	0.00
8,500.00	91.00	90.36	5,401.71	41.39	3,251.54	3,251.75	0.00	0.00	0.00
8,600.00	91.00	90.36	5,399.96	40.77	3,351.52	3,351.73	0.00	0.00	0.00
8,700.00	91.00	90.36	5,398.22	40.15	3,451.50	3,451.70	0.00	0.00	0.00
8,800.00	91.00	90.36	5,396.47	39.53	3,551.49	3,551.68	0.00	0.00	0.00
8,900.00	91.00	90.36	5,394.73	38.91	3,651.47	3,651.66	0.00	0.00	0.00
9,000.00	91.00	90.36	5,392.99	38.29	3,751.45	3,751.63	0.00	0.00	0.00
9,100.00	91.00	90.36	5,391.24	37.67	3,851.44	3,851.61	0.00	0.00	0.00
9,200.00	91.00	90.36	5,389.50	37.05	3,951.42	3,951.58	0.00	0.00	0.00
9,300.00	91.00	90.36	5,387.75	36.43	4,051.40	4,051.56	0.00	0.00	0.00
9,400.00	91.00	90.36	5,386.01	35.81	4,151.38	4,151.53	0.00	0.00	0.00
9,500.00	91.00	90.36	5,384.27	35.19	4,251.37	4,251.51	0.00	0.00	0.00
9,600.00	91.00	90.36	5,382.52	34.57	4,351.35	4,351.49	0.00	0.00	0.00

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Texmack 244H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3989.00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3989.00ft (Original Well Elev)
Site:	Texmack 244H	North Reference:	Grid
Well:	Texmack 244H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,700.00	91.00	90.36	5,380.78	33.95	4,451.33	4,451.46	0.00	0.00	0.00	
9,800.00	91.00	90.36	5,379.03	33.33	4,551.32	4,551.44	0.00	0.00	0.00	
9,868.50	91.00	90.36	5,377.84	32.90	4,619.80	4,619.92	0.00	0.00	0.00	
TD @ 9868.50' MD, 5377.84' TVD - PBHL (Texmack 244H Plan 1)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL (Texmack 244H P	0.00	0.00	5,377.84	32.90	4,619.80	677,251.20	653,852.20	32.86083984	-103.83229685	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,972.61	4,972.61	0.00	0.00	KOP - Start Build @ 12.00°/100'	
5,730.94	5,450.00	50.02	483.22	Landing Point - Start Turn @ 4.00°/100'	
5,887.56	5,447.27	57.60	639.55	EOT - Hold @ 90.36° AZ	
9,868.50	5,377.84	32.90	4,619.80	TD @ 9868.50' MD, 5377.84' TVD	



COG Operating LLC
Texmack 244H
Eddy County, NM
Plan #1



Surface Location		Ground Elev: 3971.00 WELL @ 3989.00ft (Original Well Elev)				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	677218.30	649232.40	32.86080876	-103.84734185	

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (Texmack 244H Plan 1)	5377.84	32.90	4619.80	677251.20	653852.20	32.86083984	-103.83229685

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	4972.61	0.00	0.00	4972.61	0.00	0.00	0.00	0.00	0.00	KOP - Start Build @ 12.00°100'
3	5730.94	91.00	84.09	5450.00	50.02	483.22	12.00	84.09	483.56	Landing Point - Start Turn @ 4.00°100'
4	5887.56	91.00	90.36	5447.27	57.60	639.55	4.00	89.95	639.94	EOT - Hold @ 90.36°AZ
5	9868.50	91.00	90.36	5377.84	32.90	4619.80	0.00	0.00	4619.92	TD @ 9868.50' MD, 5377.84' TVD

