

District I
1625 W. French 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 NMOC 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

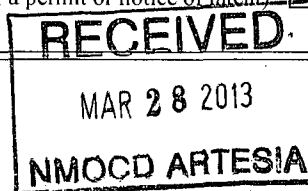
Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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: ONE CONCHO CENTER, 600 W ILLINOIS AVE MIDLAND, TX 79701
Facility or well name: BRADLEY 8 FEE #1H
API Number: 30-015- 41162 OCD Permit Number: 214209
U/L or Qtr/Qtr UL M Section 8 Township 19S Range 26E 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

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): Kacie Connally Title: PERMITTING TECH
Signature: Kacie Connally Date: 09/13/2012
e-mail address: kconnally@concho.com Telephone: 432-221-0036

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

OCD Representative Signature: _____

Approval Date: 4/15/13

Title: _____

OCD Permit Number: 214209

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)

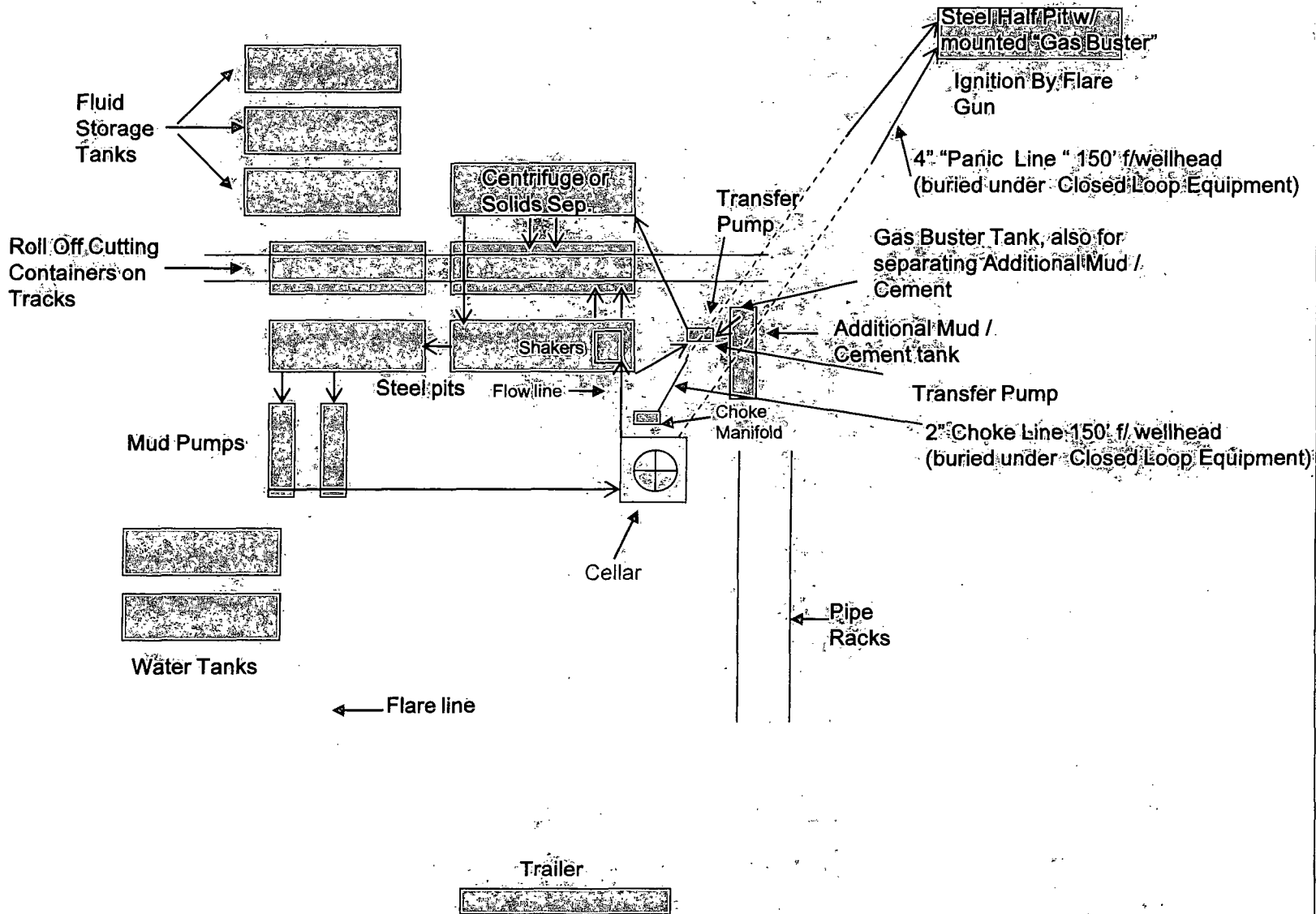
or

GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.

COG Operating LLC

Closed Loop Equipment Diagram



DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 3250	Pool Name Atoka; Glorieta Yeso
Property Code 39004	Property Name BRADLEY 8 FEE	Well Number 1H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3377'

Surface Location

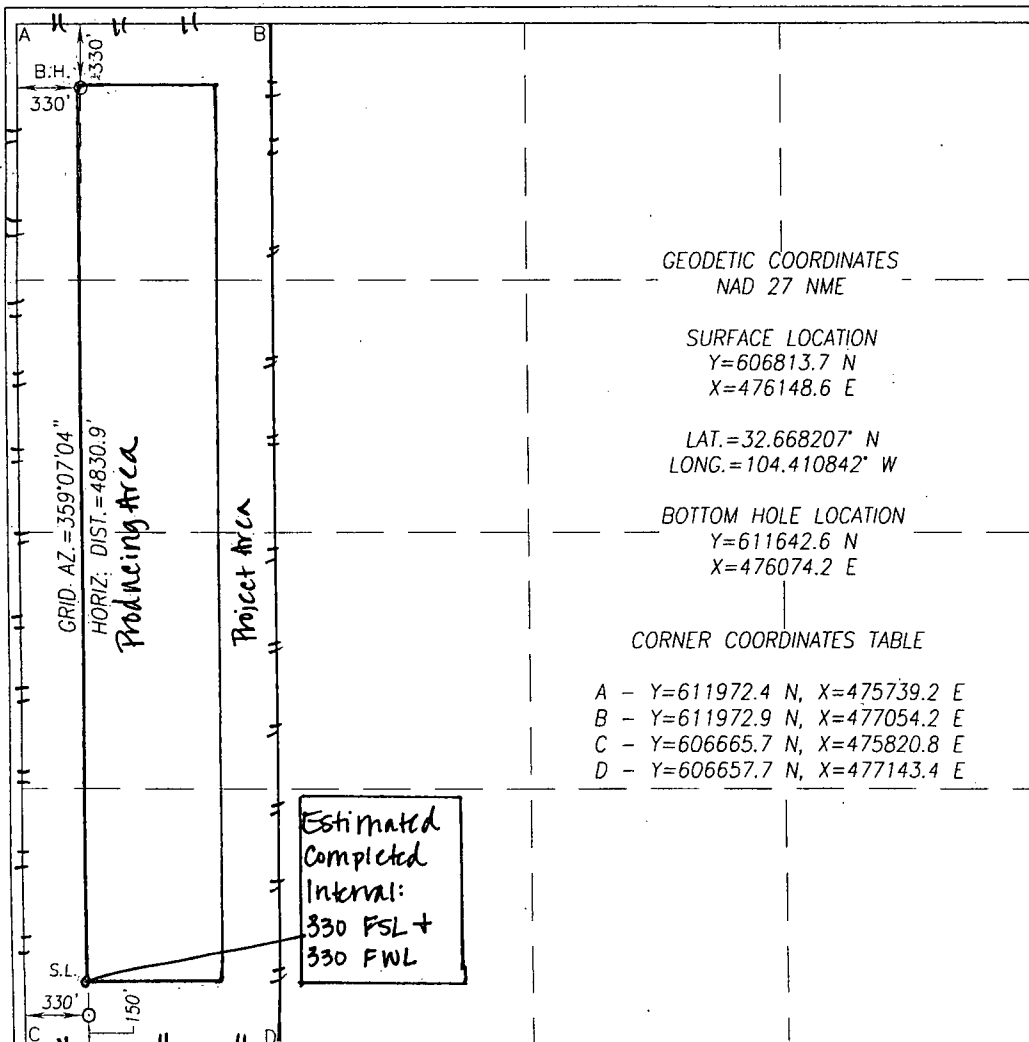
UL or lot No. M	Section 8	Township 19-S	Range 26-E	Lot Idn	Feet from the 150	North/South line SOUTH	Feet from the 330	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. D	Section 8	Township 19-S	Range 26-E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 330	East/West line WEST	County EDDY
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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief; and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

3-1-13
Signature Date
Kelly J. Holly
Printed Name
kholly@concho.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 14, 2012

Date of Survey
Signature & Seal of Professional Surveyor:

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239
ACR PROFESSIONAL SURVEYOR W.S.C. 12.11.1558



COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Bradley 8 Fee #1H

Wellbore #1

Plan: Plan #1 02-27-13

Surface: 150' FSL, 330' FWL, Sec 8, T19S, R26E, Unit M

PP: 330' FSL, 330' FWL, Sec 8, T19S, R26E, Unit M

BHL: 330' FNL, 330' FWL, Sec 8, T19S, R26E, Unit D

Standard Planning Report

27 February, 2013



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Planning Report



Database:	GCR\DB	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL @ 3377.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3377.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1_02-27-13		

Project:	Eddy County, New Mexico (NAD 27 NME)		
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:	Bradley 8 Fee		
Site Position:		Northing:	606,797.50 usft
From:	Map	Easting:	478,847.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 5.4048 N
		Longitude:	104° 24' 7.4539 W
		Grid Convergence:	-0.04 °

Well:	#1H		
Well Position	+N/-S	16.20 usft	Northing:
	+E/-W	-2,699.20 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	02/27/13	7.80
			Dip Angle
			60.41
			Field Strength
			48,620

Design:	Plan #1_02-27-13		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			359.12

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)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,559.57	0.00	0.00	2,559.57	0.00	0.00	0.00	0.00	0.00	0.00	
3,382.30	90.50	359.12	3,080.42	525.35	-8.09	11.00	11.00	0.00	359.12	
7,686.52	90.50	359.12	3,042.86	4,828.90	-74.40	0.00	0.00	0.00	0.00	PBHL-Bradley 8 #1H



Phoenix Technology Services
Planning Report



Database:	GCRDB	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL @ 3377.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3377.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 02-27-13		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,559.57	0.00	0.00	2,559.57	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,600.00	4.45	359.12	2,599.96	1.57	-0.02	1.57	11.00	11.00	0.00
2,700.00	15.45	359.12	2,698.30	18.81	-0.29	18.82	11.00	11.00	0.00
2,800.00	26.45	359.12	2,791.55	54.51	-0.84	54.51	11.00	11.00	0.00
2,900.00	37.45	359.12	2,876.28	107.33	-1.65	107.34	11.00	11.00	0.00
3,000.00	48.45	359.12	2,949.36	175.35	-2.70	175.37	11.00	11.00	0.00
3,006.16	49.13	359.12	2,953.42	179.99	-2.77	180.01	11.00	11.00	0.00
PP Bradley 8 #1H									
3,100.00	59.45	359.12	3,008.12	256.07	-3.95	256.10	11.00	11.00	0.00
3,200.00	70.45	359.12	3,050.40	346.51	-5.34	346.55	11.00	11.00	0.00
3,300.00	81.45	359.12	3,074.65	443.35	-6.83	443.41	11.00	11.00	0.00
3,379.76	90.22	359.12	3,080.44	522.82	-8.06	522.88	11.00	11.00	0.00
TL 3085 TVD @ 90.5° Inc. 0.0° VS									
3,382.30	90.50	359.12	3,080.42	525.35	-8.09	525.42	11.00	11.00	0.00
LP Start 4304.22 hold at 3382.30 MD									
3,400.00	90.50	359.12	3,080.27	543.05	-8.37	543.12	0.00	0.00	0.00
3,500.00	90.50	359.12	3,079.39	643.04	-9.91	643.11	0.00	0.00	0.00
3,600.00	90.50	359.12	3,078.52	743.02	-11.45	743.11	0.00	0.00	0.00
3,700.00	90.50	359.12	3,077.65	843.01	-12.99	843.11	0.00	0.00	0.00
3,800.00	90.50	359.12	3,076.78	942.99	-14.53	943.10	0.00	0.00	0.00
3,900.00	90.50	359.12	3,075.90	1,042.98	-16.07	1,043.10	0.00	0.00	0.00
4,000.00	90.50	359.12	3,075.03	1,142.96	-17.61	1,143.10	0.00	0.00	0.00
4,100.00	90.50	359.12	3,074.16	1,242.94	-19.15	1,243.09	0.00	0.00	0.00
4,200.00	90.50	359.12	3,073.29	1,342.93	-20.69	1,343.09	0.00	0.00	0.00
4,300.00	90.50	359.12	3,072.41	1,442.91	-22.23	1,443.08	0.00	0.00	0.00
4,400.00	90.50	359.12	3,071.54	1,542.90	-23.77	1,543.08	0.00	0.00	0.00
4,500.00	90.50	359.12	3,070.67	1,642.88	-25.31	1,643.08	0.00	0.00	0.00
4,600.00	90.50	359.12	3,069.79	1,742.87	-26.85	1,743.07	0.00	0.00	0.00
4,700.00	90.50	359.12	3,068.92	1,842.85	-28.39	1,843.07	0.00	0.00	0.00
4,800.00	90.50	359.12	3,068.05	1,942.83	-29.93	1,943.06	0.00	0.00	0.00
4,900.00	90.50	359.12	3,067.18	2,042.82	-31.47	2,043.06	0.00	0.00	0.00
5,000.00	90.50	359.12	3,066.30	2,142.80	-33.01	2,143.06	0.00	0.00	0.00
5,100.00	90.50	359.12	3,065.43	2,242.79	-34.56	2,243.05	0.00	0.00	0.00
5,200.00	90.50	359.12	3,064.56	2,342.77	-36.10	2,343.05	0.00	0.00	0.00
5,300.00	90.50	359.12	3,063.69	2,442.76	-37.64	2,443.05	0.00	0.00	0.00
5,400.00	90.50	359.12	3,062.81	2,542.74	-39.18	2,543.04	0.00	0.00	0.00
5,500.00	90.50	359.12	3,061.94	2,642.72	-40.72	2,643.04	0.00	0.00	0.00
5,600.00	90.50	359.12	3,061.07	2,742.71	-42.26	2,743.03	0.00	0.00	0.00
5,700.00	90.50	359.12	3,060.20	2,842.69	-43.80	2,843.03	0.00	0.00	0.00
5,800.00	90.50	359.12	3,059.32	2,942.68	-45.34	2,943.03	0.00	0.00	0.00
5,900.00	90.50	359.12	3,058.45	3,042.66	-46.88	3,043.02	0.00	0.00	0.00
6,000.00	90.50	359.12	3,057.58	3,142.65	-48.42	3,143.02	0.00	0.00	0.00
6,100.00	90.50	359.12	3,056.70	3,242.63	-49.96	3,243.02	0.00	0.00	0.00
6,200.00	90.50	359.12	3,055.83	3,342.61	-51.50	3,343.01	0.00	0.00	0.00
6,300.00	90.50	359.12	3,054.96	3,442.60	-53.04	3,443.01	0.00	0.00	0.00
6,400.00	90.50	359.12	3,054.09	3,542.58	-54.58	3,543.00	0.00	0.00	0.00
6,500.00	90.50	359.12	3,053.21	3,642.57	-56.12	3,643.00	0.00	0.00	0.00
6,600.00	90.50	359.12	3,052.34	3,742.55	-57.66	3,743.00	0.00	0.00	0.00
6,700.00	90.50	359.12	3,051.47	3,842.54	-59.20	3,842.99	0.00	0.00	0.00
6,800.00	90.50	359.12	3,050.60	3,942.52	-60.74	3,942.99	0.00	0.00	0.00
6,900.00	90.50	359.12	3,049.72	4,042.51	-62.28	4,042.98	0.00	0.00	0.00
7,000.00	90.50	359.12	3,048.85	4,142.49	-63.82	4,142.98	0.00	0.00	0.00



Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #1H
Company:	COG Operating LLC	TVD Reference:	GL @ 3377.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3377.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 02/27/13		

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)
7,100.00	90.50	359.12	3,047.98	4,242.47	-65.36	4,242.98	0.00	0.00	0.00
7,200.00	90.50	359.12	3,047.11	4,342.46	-66.91	4,342.97	0.00	0.00	0.00
7,300.00	90.50	359.12	3,046.23	4,442.44	-68.45	4,442.97	0.00	0.00	0.00
7,400.00	90.50	359.12	3,045.36	4,542.43	-69.99	4,542.97	0.00	0.00	0.00
7,500.00	90.50	359.12	3,044.49	4,642.41	-71.53	4,642.96	0.00	0.00	0.00
7,600.00	90.50	359.12	3,043.62	4,742.40	-73.07	4,742.96	0.00	0.00	0.00
7,686.52	90.50	359.12	3,042.86	4,828.90	-74.40	4,829.47	0.00	0.00	0.00
TD at 7686.52 PBHL Bradley 8 #1H									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
PP-Bradley 8 #1H	- plan hits target center - Point	0.00	0.00	2,953.43	180.00	-2.77	606,993.70	476,145.83	32° 40' 7.3279 N 104° 24' 39.0652 W
PBHL-Bradley 8 #1H	- plan hits target center - Point	0.00	0.00	3,042.86	4,828.90	-74.40	611,642.60	476,074.20	32° 40' 53.3313 N 104° 24' 39.9430 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,379.76	3,080.44	TL 3085' TVD @ 90.5° Inc, 0.0 VS		-0.50	359.12	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Comment
2,559.57	2,559.57	0.00	0.00	KOP Start Build 11.00
3,382.30	3,080.42	525.35	-8.09	LP Start 4304.22 hold at 3382.30 MD
7,686.52	3,042.86	4,828.90	-74.40	TD at 7686.52



Project: Eddy County, New Mexico (NAD 27 NME)
Site: Bradley 8 Fee
Well: #1H
Wellbore: Wellbore #1
Design: Plan #1 02-27-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.84°
Magnetic Field
Strength: 48620.0 nT
Dip Angle: 60.41°
Date: 02/27/2013
Model: IGRF2010_14

WELL DETAILS									
				Ground Level	3377.00				
				Easting	476148.60	Latitude	32° 40' 5.5467 N	Longitude	104° 24' 39.0312 W
				Northing	606813.70				

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFact
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2559.57	0.00	0.00	2559.57	0.00	0.00	0.00	0.00	0.00
3	3382.30	90.50	359.12	3080.42	525.35	-8.09	11.00	359.12	525.42
4	7686.52	90.50	359.12	3042.86	4828.80	-74.40	0.00	0.00	4828.47
PBHL-Bradley 8 #1H									
KOP Start Build 11.00									
LP Start 4304.22 hold at 3382.30 MD									
TD at 7686.52									

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
PP-Bradley 8 #1H	2953.43	180.00	-2.77	606993.70	476145.83	32° 40' 7.3279 N	104° 24' 39.0652 W	Point	
- plan hts target center									
PBHL-Bradley 8 #1H	3042.86	4828.80	-74.40	611642.60	476074.20	32° 40' 53.3313 N	104° 24' 39.9430 W	Point	
- plan hts target center									

PROJECT DETAILS: Eddy County, New Mexico (NAD 27 NME)									
Geodetic System: US State Plane 1927 (Exact solution)									
Datum: NAD 1927 (NADCON CONUS)									
Ellipsoid: Clarke 1866									
Zone: New Mexico East 3001									
System Datum: Mean Sea Level									

SITE DETAILS: Bradley 8 Fee									
Site Centre Northing: 606797.50									
Easting: 478847.80									
Positional Uncertainty: 0.00									
Convergence: -0.04									
Local North: Grid									

Map System: US State Plane 1927 (Exact solution)									
Datum: NAD 1927 (NADCON CONUS)									
Ellipsoid: Clarke 1866									
Zone Name: New Mexico East 3001									
Local Origin: Well #1H, Grid North									
Latitude: 32° 40' 5.5467 N									
Longitude: 104° 24' 39.0312 W									
Grid East: 476148.60									
Grid North: 606813.70									
Scale Factor: 1.000									
Geomagnetic Model: IGRF2010_14									
Sample Date: 27-Feb-13									
Magnetic Declination: 7.80°									
Dip Angle from Horizontal: 60.41°									
Magnetic Field Strength: 48620									
To convert a Magnetic Direction to a Grid Direction, Add 7.84°									
To convert a Magnetic Direction to a True Direction, Add 7.80° East									
To convert a True Direction to a Grid Direction, Add 0.04°									

LEGEND									
Plan #1 02-27-13									

FORMATION TOP DETAILS									
TVDPath	MDPath	Formation	DipAngle	DipDir					
3080.44	3378.76	TL 3085' TVD @ 90.5° Inc. 0.0 VS	-0.50	359.12					

