

District I
1625 N. 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 MIDLAND, TX 79701
Facility or well name: FALABELLA "31" FEE #3H
API Number: 30-015- 46265 OCD Permit Number: 214219
U/L or Qtr/Qtr UL O Section 31 Township 18S 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

RECEIVED

APR 16 2013

NMOC DISTRICT ARTESIA

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): KELLY J. HOLLY Title: PERMITTING TECH
Signature: [Signature] Date: 4-12-13
e-mail address: kholly@concho.com Telephone: 432-685-4384

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

OCD Representative Signature: AR Dade Approval Date: 4/16/2013

Title: DIST R Supervisor OCD Permit Number: 214219

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 indentify 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.

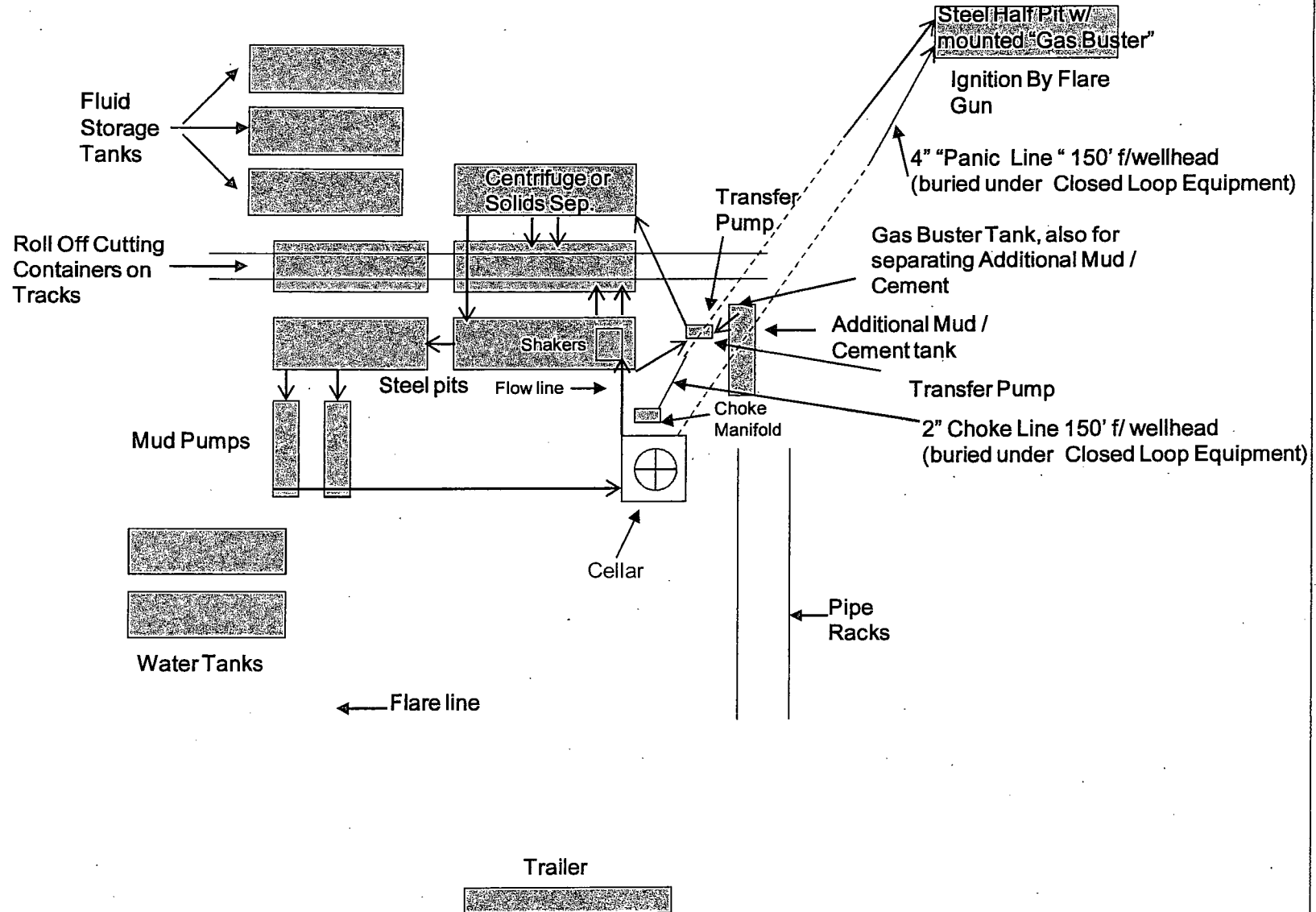
Name (Print): _____ Title: _____

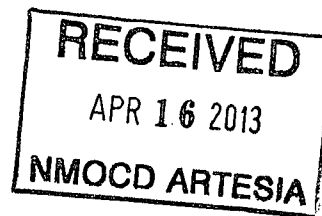
Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

COG Operating LLC

Closed Loop Equipment Diagram





COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Falabella 31 Fee #3H

Wellbore #1

Plan: Plan #1 03-19-13

Surface: 150' FSL, 2256' FEL, Sec 31, T18S, R26E, Unit O

PP: 330' FSL, 2259' FEL, Sec 31, T18S, R26E, Unit O

BHL: 330' FNL, 2310' FEL, Sec 31, T18S, R26E, Unit B

Standard Planning Report

19 March, 2013





Phoenix Technology Services
Planning Report



Database:	GCR:DB	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL @ 3410.00usft
Project:	Eddy County, New Mexico (NAD 27 NME)	MD Reference:	GL @ 3410.00usft
Site:	Falabella 31 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03-19-13		

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	Falabella 31 Fee		
Site Position:	Map	Northing:	617,359.30 usft
From:		Easting:	472,777.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 49.876122 N
		Longitude:	104° 25' 18.575151 W
		Grid Convergence:	-0.05 °

Well	#3H		
Well Position	+N/-S	-2.20 usft	Northing:
	+E/-W	660.80 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	03/19/13	7.80
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,631

Design	Plan #1 03-19-13		
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
			(°)
			359.02

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
2,331.13	0.00	0.00	2,331.13	0.00	0.00	0.00	0.00	0.00	0.00	
3,176.58	93.00	359.02	2,851.28	548.05	-9.37	11.00	11.00	0.00	359.02	
7,490.87	93.00	359.02	2,625.49	4,855.80	-83.00	0.00	0.00	0.00	0.00	PBHL-Falabella 31 #3



Phoenix Technology Services
Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well #3H
Company:	COG Operating LLC	TVD Reference:	GL @ 3410.00usft
Project:	Eddy County New Mexico (NAD 27/NME)	MD Reference:	GL @ 3410.00usft
Site:	Falabella 31 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 03-19-13		

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
2,331.13	0.00	0.00	2,331.13	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,400.00	7.58	359.02	2,399.80	4.55	-0.08	4.55	11.00	11.00	0.00
2,500.00	18.58	359.02	2,497.06	27.13	-0.46	27.14	11.00	11.00	0.00
2,600.00	29.58	359.02	2,588.22	67.86	-1.16	67.87	11.00	11.00	0.00
2,700.00	40.58	359.02	2,669.93	125.23	-2.14	125.25	11.00	11.00	0.00
2,777.77	49.13	359.02	2,725.01	180.02	-3.08	180.05	11.00	11.00	0.00
PP Falabella 31 #3H									
2,800.00	51.58	359.02	2,739.19	197.13	-3.37	197.16	11.00	11.00	0.00
2,900.00	62.58	359.02	2,793.46	280.93	-4.80	280.97	11.00	11.00	0.00
3,000.00	73.58	359.02	2,830.74	373.55	-6.38	373.60	11.00	11.00	0.00
3,100.00	84.58	359.02	2,849.66	471.57	-8.06	471.64	11.00	11.00	0.00
3,173.54	92.67	359.02	2,851.43	545.02	-9.32	545.10	11.00	11.00	0.00
TL 2880° TVD @ 0 VZ 93.0° Inc									
3,176.58	93.00	359.02	2,851.28	548.05	-9.37	548.13	11.00	11.00	0.00
LP Start 4314.29 hold at 3176.58 MD									
3,200.00	93.00	359.02	2,850.06	571.44	-9.77	571.52	0.00	0.00	0.00
3,300.00	93.00	359.02	2,844.82	671.28	-11.47	671.38	0.00	0.00	0.00
3,400.00	93.00	359.02	2,839.59	771.13	-13.18	771.24	0.00	0.00	0.00
3,500.00	93.00	359.02	2,834.36	870.98	-14.89	871.11	0.00	0.00	0.00
3,600.00	93.00	359.02	2,829.12	970.83	-16.59	970.97	0.00	0.00	0.00
3,700.00	93.00	359.02	2,823.89	1,070.68	-18.30	1,070.83	0.00	0.00	0.00
3,800.00	93.00	359.02	2,818.66	1,170.53	-20.01	1,170.70	0.00	0.00	0.00
3,900.00	93.00	359.02	2,813.42	1,270.37	-21.71	1,270.56	0.00	0.00	0.00
4,000.00	93.00	359.02	2,808.19	1,370.22	-23.42	1,370.42	0.00	0.00	0.00
4,100.00	93.00	359.02	2,802.95	1,470.07	-25.13	1,470.29	0.00	0.00	0.00
4,200.00	93.00	359.02	2,797.72	1,569.92	-26.83	1,570.15	0.00	0.00	0.00
4,300.00	93.00	359.02	2,792.49	1,669.77	-28.54	1,670.01	0.00	0.00	0.00
4,400.00	93.00	359.02	2,787.25	1,769.62	-30.25	1,769.87	0.00	0.00	0.00
4,500.00	93.00	359.02	2,782.02	1,869.46	-31.95	1,869.74	0.00	0.00	0.00
4,600.00	93.00	359.02	2,776.79	1,969.31	-33.66	1,969.60	0.00	0.00	0.00
4,700.00	93.00	359.02	2,771.55	2,069.16	-35.37	2,069.46	0.00	0.00	0.00
4,800.00	93.00	359.02	2,766.32	2,169.01	-37.07	2,169.33	0.00	0.00	0.00
4,900.00	93.00	359.02	2,761.09	2,268.86	-38.78	2,269.19	0.00	0.00	0.00
5,000.00	93.00	359.02	2,755.85	2,368.71	-40.49	2,369.05	0.00	0.00	0.00
5,100.00	93.00	359.02	2,750.62	2,468.55	-42.19	2,468.91	0.00	0.00	0.00
5,200.00	93.00	359.02	2,745.38	2,568.40	-43.90	2,568.78	0.00	0.00	0.00
5,300.00	93.00	359.02	2,740.15	2,668.25	-45.61	2,668.64	0.00	0.00	0.00
5,400.00	93.00	359.02	2,734.92	2,768.10	-47.32	2,768.50	0.00	0.00	0.00
5,500.00	93.00	359.02	2,729.68	2,867.95	-49.02	2,868.37	0.00	0.00	0.00
5,600.00	93.00	359.02	2,724.45	2,967.80	-50.73	2,968.23	0.00	0.00	0.00
5,700.00	93.00	359.02	2,719.22	3,067.64	-52.44	3,068.09	0.00	0.00	0.00
5,800.00	93.00	359.02	2,713.98	3,167.49	-54.14	3,167.96	0.00	0.00	0.00
5,900.00	93.00	359.02	2,708.75	3,267.34	-55.85	3,267.82	0.00	0.00	0.00
6,000.00	93.00	359.02	2,703.52	3,367.19	-57.56	3,367.68	0.00	0.00	0.00
6,100.00	93.00	359.02	2,698.28	3,467.04	-59.26	3,467.54	0.00	0.00	0.00
6,200.00	93.00	359.02	2,693.05	3,566.89	-60.97	3,567.41	0.00	0.00	0.00
6,300.00	93.00	359.02	2,687.82	3,666.73	-62.68	3,667.27	0.00	0.00	0.00
6,400.00	93.00	359.02	2,682.58	3,766.58	-64.38	3,767.13	0.00	0.00	0.00
6,500.00	93.00	359.02	2,677.35	3,866.43	-66.09	3,867.00	0.00	0.00	0.00
6,600.00	93.00	359.02	2,672.11	3,966.28	-67.80	3,966.86	0.00	0.00	0.00
6,700.00	93.00	359.02	2,666.88	4,066.13	-69.50	4,066.72	0.00	0.00	0.00
6,800.00	93.00	359.02	2,661.65	4,165.98	-71.21	4,166.59	0.00	0.00	0.00



Phoenix Technology Services
Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well: #3H
Company:	COG Operating LLC	TVD Reference:	GL @ 3410.00usft
Project:	Eddy County - New Mexico (NAD:27/NME)	MD Reference:	GL @ 3410.00usft
Site:	Falabella 31 Fee	North Reference:	Grid
Well:	#3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1, 03-19-13		

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)
6,900.00	93.00	359.02	2,656.41	4,265.82	-72.92	4,266.45	0.00	0.00	0.00
7,000.00	93.00	359.02	2,651.18	4,365.67	-74.62	4,366.31	0.00	0.00	0.00
7,100.00	93.00	359.02	2,645.95	4,465.52	-76.33	4,466.17	0.00	0.00	0.00
7,200.00	93.00	359.02	2,640.71	4,565.37	-78.04	4,566.04	0.00	0.00	0.00
7,300.00	93.00	359.02	2,635.48	4,665.22	-79.74	4,665.90	0.00	0.00	0.00
7,400.00	93.00	359.02	2,630.25	4,765.07	-81.45	4,765.76	0.00	0.00	0.00
7,490.87	93.00	359.02	2,625.49	4,855.80	-83.00	4,856.51	0.00	0.00	0.00
TD at 7490.87 - PBHL-Falabella 31 #3H									

Design Targets									
Target Name	Dip/Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL-Falabella 31 #3H	0.00	360.00	2,625.49	4,855.80	-83.00	622,212.90	473,355.00	32° 42' 37.910167 N 104° 25' 11.859845 W	
- plan hits target center									
- Point									
PP-Falabella 31 #3H	0.00	0.00	2,724.99	180.00	-3.08	617,537.10	473,434.92	32° 41' 51.640928 N 104° 25' 10.879838 W	
- plan hits target center									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,173.54	2,851.43	TL, 2880' TVD @ 0 VZ, 93.0° Inc		-3.00	359.03

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,331.13	2,331.13	0.00	0.00	KOP Start Build 11.00
3,176.58	2,851.28	548.05	-9.37	LP Start 4314.29 hold at 3176.58 MD
7,490.87	2,625.49	4,855.80	-83.00	TD at 7490.87



Project: Eddy County, New Mexico (NAD 27 NME)
Site: Falabella 31 Fee
Well: #3H
Wellbore: Wellbore #1
Design: Plan #1 03-19-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.84°
Magnetic Field
Strength: 48630.7 nT
Dip Angle: 60.43°
Date: 03/19/2013
Model: IGRF2010_14

WELL DETAILS

	Ground Level	3410.00			
+N-S	Easting	Latitude	Longitude		
0.00	0.00	617357.10	473438.00	32° 41' 49.859741 N	104° 25' 10.842117 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Start Build 11.00
2	2331.13	0.00	0.00	2331.13	0.00	0.00	0.00	0.00	0.00	0.00	LP Start 4314.29 hold at 3176.58 MD
3	3176.58	93.00	359.02	2851.28	548.05	-9.37	11.00	359.02	548.13		
4	7490.87	93.00	359.02	2625.49	4855.80	-83.00	0.00	0.00	4856.51	PBHL-Falabella 31 #3H	TD at 7490.87

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-Falabella 31 #3H	2625.49	4855.80	-83.00	622212.90	473355.00	32° 42' 37.910166 N	104° 25' 11.859845 W	Point
PP-Falabella 31 #3H								
PP-Falabella 31 #3H	2724.99	160.00	-3.08	617537.10	473434.92	32° 41' 51.640927 N	104° 25' 10.679838 W	Point

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 #3H, Grid North

Latitude: 32° 41' 49.859741 N
Longitude: 104° 25' 10.842117 W

Grid East: 473438.00
Grid North: 617357.10
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 19-Mar-13

Magnetic Declination: 7.80°
Dip Angle from Horizontal: 60.43°
Magnetic Field Strength: 48631

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 0.05°

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
2851.43	3173.54	TL, 2880' TVD @ 0 VZ, 93.0° Inc	-3.00	359.03

LEGEND

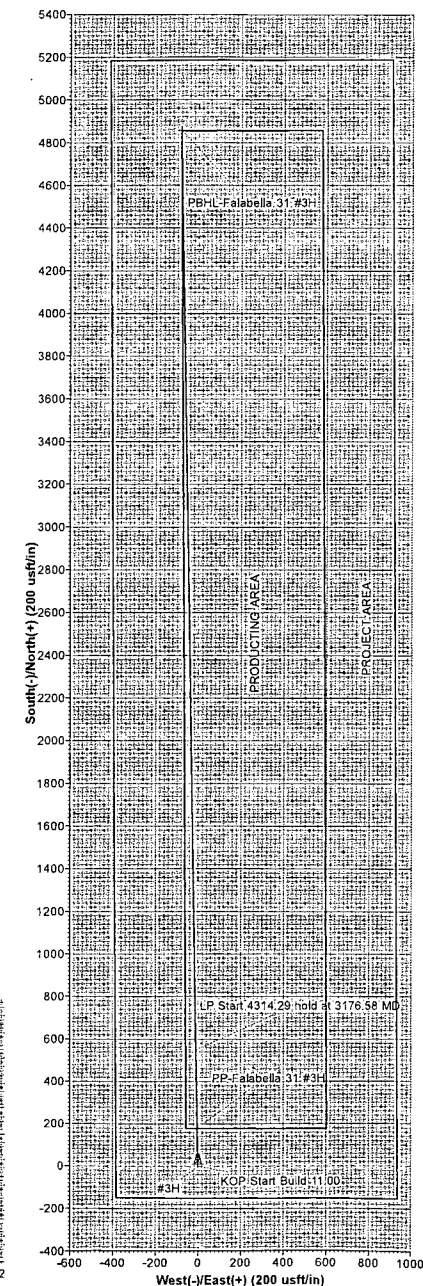
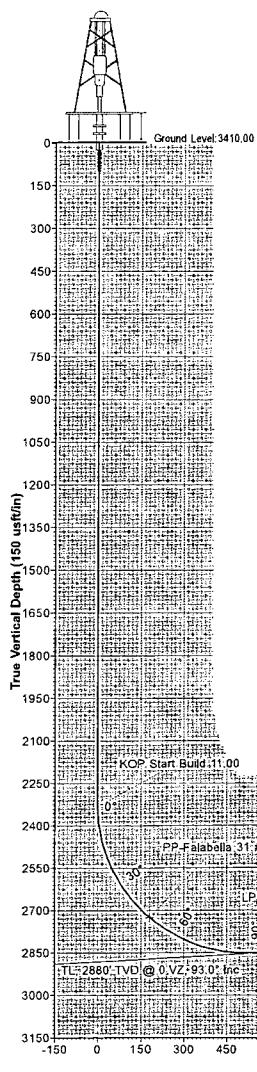
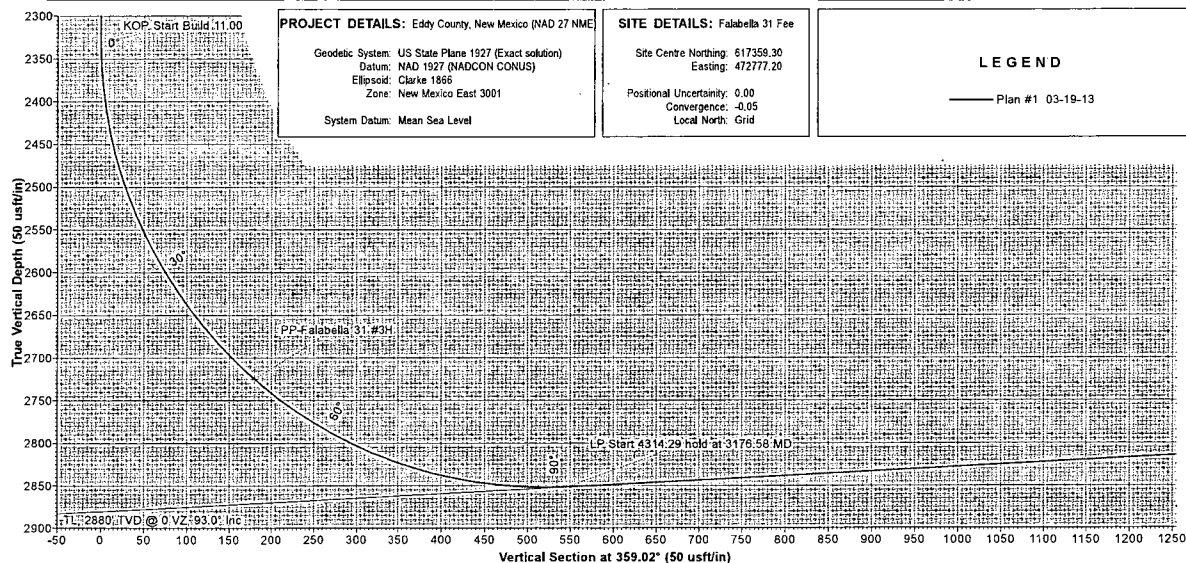
Plan #1 03-19-13

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: Falabella 31 Fee

Site Centre Northing: 617359.30
Easting: 472777.20
Positional Uncertainty: 0.00
Convergence: -0.05
Local North: Grid



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	Pool Code	Pool Name
30-015-	50270	Penasco Draw; SA-Yeso (Assoc)
Property Code	Property Name	Well Number
38873	FALABELLA 31 FEE	3H
OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3410'

Surface Location

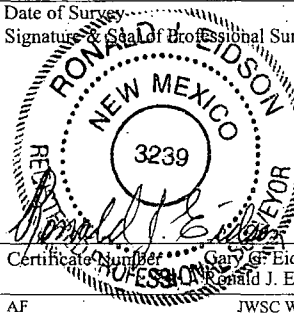
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	31	18-S	26-E		150	SOUTH	2256	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	18-S	26-E		330	NORTH	2310	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

1 GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=617357.1 N X=473438.0 E 34.82 AC. 2 LAT.=32.697183° N LONG.=104.419679° W BOTTOM HOLE LOCATION Y=622212.9 N X=473355.0 E 35.17 AC. 3 35.52 AC. CORNER COORDINATES TABLE A - Y=622541.4 N, X=473023.1 E B - Y=622547.2 N, X=474342.8 E C - Y=617208.3 N, X=473054.4 E D - Y=617204.2 N, X=474374.4 E E - Y=622552.9 N, X=475662.4 E F - Y=617200.0 N, X=475694.4 E 4 35.87 AC.	A B E B.H. 330' 2310' GRID. AZ.=359°01'14" HORIZ. DIST.=4857.9' PROJECT AREA PRODUCING AREA 150' S.L. 2256' F	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.  4-12-13 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 29, 2012 Date of Survey Signature of State of Professional Surveyor:  12/06/2012 Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 AF JWSC W.O.: 12.11.1717
---	--	--