District Is •
1625 N. French Dr., Hobbs, NM 88240
District II •
1303 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 ordinance

vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator COG OPERATING LLC OGRID #: 229137
Address: 550 WEST TEXAS, SUITE 100 MIDLAND, TX 79701
Facility or well name: FALABELLA "31" FEE #2H RECEIVED
20 ME 402/22 2000 111918
J/L or Qtr/Qtr UL \ Section 31 Township 18S Range 26E County: Eddy
Center of Proposed Design: Latitude N/A Longitude N/A NAMOCO ARJESIA
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
. Closed-loop System: Subsection H of 19.15.17.11 NMAC Department
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
△ signed in compitance with 19.15.5.105 NWAC
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:
Naste 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 indentify 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: 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
perator Application Certification:
hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
lame (Print): KACIE CONNALLY Title: PERMITTING TECH
Signature: Date:
-mail address: Kconnally@concho.com Telephone: 432-685-4304

•	
OCD Approval: Permit Application (including closure plan) Closure Pl	an (only)
OCD Representative Signature:	Approval Date: 05/11/2012
Title: DIST HOPEWISO	OCD Permit Number: 2298
8. Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior t The closure report is required to be submitted to the division within 60 days of to section of the form until an approved closure plan has been obtained and the clo	o implementing any closure activities and submitting the closure report. he completion of the closure activities. Please do not complete this
9. Closure Report Regarding Waste Removal Closure For Closed-loop Systems	That Utilize Above Cround Steel Tanks or Haul-off Rins Only
Instructions: Please indentify the facility or facilities for where the liquids, drill 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 Yes (If yes, please demonstrate compliance to the items below) No	
Required for impacted areas which will not be used for future service and operati Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ons:
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure requirements. I also certify that the closure complies with all applicable closure requirements.	
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.

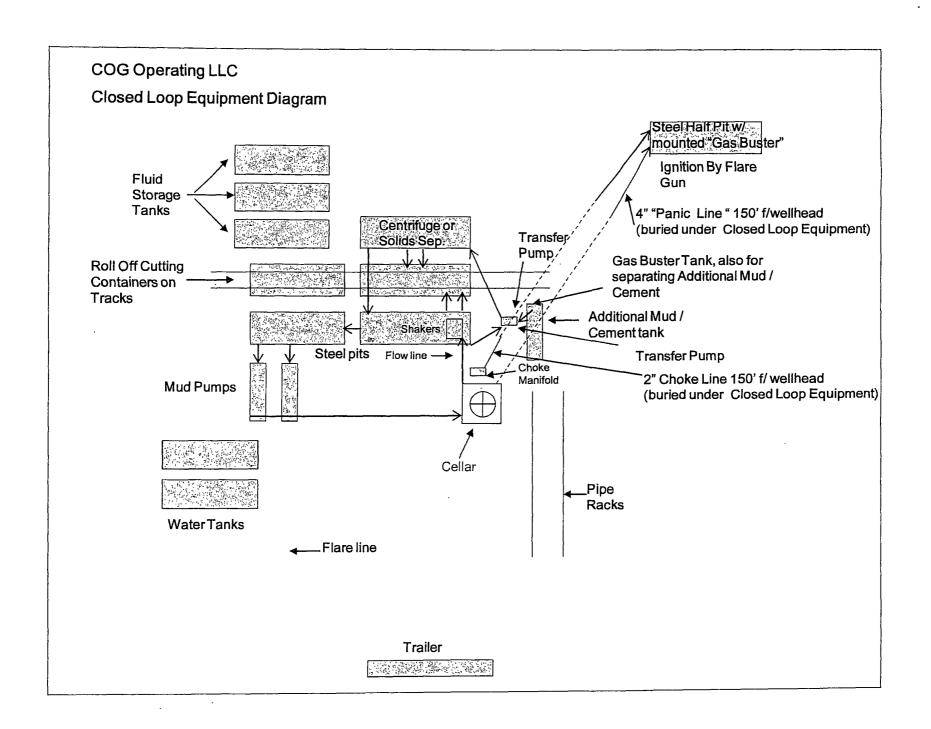
Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

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

Eddy County, NM Falabella 31 Fee 2H Falabella 31 Fee 2H

Wellbore #1

Surface: 150' FSL, 1700' FWL, Sec 31, T18S, R26E, Unit N BHL: 330' FNL, 1700' FWL, Sec 31, T18S, R26E, Unit C PP: 330' FSL, 1700' FWL Sec 31, T18S, R26E, Unit N

Plan: Plan #1

Standard Planning Report

26 April, 2012

Crescent Directional Drilling

Planning Report

	NO CONTROL OF THE PROPERTY OF
Database: R5000 Houston DB	Site Falabella 31 Fee 2H
Company: TVD/Reference	WELL @ 3450 00ft (Original Well Elev)
Project: MD Reference:	WELL @ 3450 00ft (Original Well Elev)
Site: North Reference:	Gnd
The state of the s	#2000 1000
Well: Survey Calculation Method:	Mınımum Curvature
Wellbore: Wellbore #1	
Design: Plan #1	

Project Eddy County NM

Map System: US State Plane 1927 (Exact solution)

Geo Datum: NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

 Site
 Falabella 31 Fee 2H
 Northing:
 617,360 90 ft
 Latitude:
 32° 41′ 49 88 N

 From:
 Map
 Easting:
 472,254 50 ft
 Longitude:
 104° 25′ 24 70 W

 Position Uncertainty:
 0 00 ft
 Slot Radius:
 13 200 In
 Grid Convergence:
 -0 05°

System Datum:

Mean Sea Level

Well Falabella 31 Fee 2H **Well Position** 0 00 ft Northing: 617,360 90 ft Latitude: 32° 41' 49 88 N +E/-W 0 00 ft Easting: 472,254 50 ft Longitude: 104° 25' 24 70 W Position Uncertainty 0 00 ft Wellhead Elevation: Ground Level: 3,432 00 ft

V	Vellbore #1				
N	lagnetics Model Name	Sample Date	Declination Di	p Angle F	Field Strength :
	IGRF2010	4/26/2012	7 91	60 46	(Hb) 48,719

Design Plan #1	en egit jaar ja sii kan kan kun ja	anangan an garappa ma <mark>nangan</mark> Kiningsa tahungan mangan	programme de la companya de la comp Nels de la companya	and in the second s	ago anus repu i incurio accesana per meso meso per un conserva El Parines (Incires Escalario Incires de Decembro de Calendario)
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Version:	Phase:	PLAN	Tie On Depth:	0 00	•
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	(ft),;	(ft)	'(ft)	(°)	
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7,392 39	90 00	0 16	2,750 00	4,847 30	13 20	0 00	0 00	0 00	0 00 PBHL (F	alabella 31 F

Crescent Directional Drilling

Planning Report

R5000 Houston DB The state of the s Database: Local Co-ordinate Reference: Site Falabella 31 Fee 2H TVD Reference: Company COG Operating LLC WELL @ 3450 00ft (Original Well Elev) Project: Eddy County, NM WELL @ 3450 00ft (Original Well Elev) Site: Falabella 31 Fee 2H North Reference: Grid North Reference: Survey Calculation Method: Well: 🦠 Minimum Curvature Falabella 31 Fee 2H Wellbore #1 Wellbore: Plan #1 Design:

Measured			Vertical 🎏			Vertical -	Dogleg	Build	Turn
Depth In	clination) 🧳 A	zimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
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3,022 54	90 00	0 16	2,750.00	477 46	1 30	477 46	12 00	12 00	0 00
Landing Point -	Hold @ 90.00° l	NC, 0.16° AZ		:					
7,392 39	90 00	0 16	2,750 00	4,847 30	13 20	4,847 32	0 00	0 00	0 00
TD @ 7392.39' N	ID. 2750.00' TVI) - PBĤĽ (Fal	abella 31 Fee 2	H Plan 1)	,	-			

Design Targets Target Name - hit/miss target - Shape	Angle D	ip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing.	Easting (ft)	Latitude	Longitude
PBHL (Falabella 31 Fee - plan hits target center - Point	0 00	0 00	2,750 00	4,847.30	13 20	622,208 20	472,267 70	32° 42' 37 84 N	104° 25' 24.60 W

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Plan Annotations				
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7,392,39	2,750 00	4,847 30	13 20	TD @ 7392 39' MD, 2750 00' TVD
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COG Operating LLC Falabella 31 Fee 2H Eddy County, NM Plan #1



	Surface Location	Ground	Elev: 3432.00	WELL @ 3450.00ft	(Original Well Elev)
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	617360.90	472254.50	32° 41' 49.88 N	104° 25' 24.70 W

		TARGE	T DETAILS				
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (Falabella 31 Fee 2H Plan 1)	2750.00	4847 30	13.20	622208 20	472267 70	32° 42' 37.84 N 104	1° 25' 24.60 W

	SECTION DETAILS									
Sec	MD	Inc	Azı	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0 00	0.00	0 00	0 00	0.00	0.00	
2	2272 54	0.00	0.00	2272 54	0 00	0 00	0 00	0.00	0.00	KOP - Start Build @ 12.00°/100'
3	3022 54	90 00	0.16	2750 00	477.46	1.30	12.00	0.16		Landing Point - Hold @ 90 00° INC, 0.16° A
4	7392 39	90.00	0.16	2750 00	4847 30	13 20	0.00	0 00		TD @ 7392.39' MD, 2750.00' TVD

