

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 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

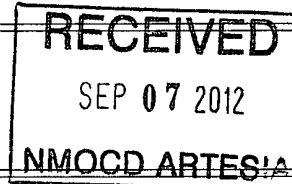
Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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: ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701
Facility or well name: G J West Coop Unit #293H
API Number: 30-015- 40646 OCD Permit Number: 213390
U/L or Qtr/Qtr ULL Section 27 Township 17S Range 29E 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) Kelly J. Holly Title: Permitting Tech
Signature: [Signature] Date: 08/30/12
e-mail address: kholly@concho.com Telephone: 432-685-4384

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.

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-	97558	GJ; 7RVS-QN-GB-Glorieta Yeso
Property Code	Property Name	Well Number
302497	GJ WEST COOP UNIT	293H
OGRID No.	Operator Name	Elevation
2291377	COG OPERATING, LLC	3532'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	27	17-S	29-E		1950	SOUTH	990	WEST	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
L	28	17-S	29-E		1650	SOUTH	330	WEST	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

Project Area Producing Area GRID AZ = 266°54'39" HORIZ DIST. = 5940.3' Estimated Completed Interval 18.79' FSL+ 330' FEL	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. Signature 8-30-12 Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address
SCALE: 1"=2000' CORNER COORDINATES TABLE A) Y=656807.9 N, X=575420.6 E B) Y=656835.8 N, X=582013.6 E C) Y=655488.0 N, X=575424.4 E D) Y=655514.1 N, X=582019.5 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=656138.7 N X=581683.5 E LAT = 32.803532° N LONG. = 104.067490° W BOTTOM HOLE LOCATION Y=655818.7 N X=575753.3 E	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 JUNE 29, 2012 Date of Survey Signature & Seal of Professional Surveyor: Certificate Number Gary Q. Eidson 12641 Ronald J. Eidson 3239 AF WSC WO 12.11.1149

COG Operating LLC

Eddy County, NM

GJ West Coop Unit 293H

GJ West Coop Unit 293H

Wellbore #1

Plan: Plan #2

Surface: 1950' FSL, 990' FWL, Sec 27, T17S, R29E, Unit L

BHL: 1650' FSL, 330' FWL, Sec 28, T17S, R29E, Unit L

PP: 1879' FSL, 330' FEL, Sec 28, T17S, R29E

Standard Planning Report

31 July, 2012

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site GJ West Coop Unit 293H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3577 00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3577 00ft (Original Well Elev)
Site:	GJ West Coop Unit 293H	North Reference:	Grid
Well:	GJ West Coop Unit 293H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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	GJ West Coop Unit 293H		
Site Position:	Northing:	656,138.700 ft	Latitude: 32 803529
From: Map	Easting:	581,683.500 ft	Longitude: -104 067494
Position Uncertainty:	0 00 ft	Slot Radius: 13 200 in	Grid Convergence: 0 14 °

Well:	GJ West Coop Unit 293H		
Well Position	+N/-S	0.00 ft	Northing: 656,138.700 ft
	+E/-W	0.00 ft	Easting: 581,683.500 ft
			Latitude: 32 803529
			Longitude: -104 067494
Position Uncertainty	0 00 ft	Wellhead Elevation:	Ground Level: 3,559.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	6/29/2012	7.73	60.61	48,805

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	266.91

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(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	
4,072.61	0.00	0.00	4,072.61	0.00	0.00	0.00	0.00	0.00	0.00	
4,830.94	91.00	266.91	4,550.00	-26.18	-485.09	12.00	12.00	0.00	266.91	
10,284.80	91.00	266.91	4,454.82	-320.00	-5,930.20	0.00	0.00	0.00	0.00	PBHL (GJ West Coop)

Planning Report

Database: Houston R5000 Database
 Company: COG Operating LLC
 Project: Eddy County, NM
 Site: GJ West Coop Unit 293H
 Well: GJ West Coop Unit 293H
 Wellbore: Wellbore #1
 Design: Plan #2

Local Co-ordinate Reference: Site GJ West Coop Unit 293H
 TVD Reference: WELL @ 3577 00ft (Original Well Elev)
 MD Reference: WELL @ 3577 00ft (Original Well Elev)
 North Reference: Gnd
 Survey Calculation Method: Minimum Curvature

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)
4,072.61	0.00	0.00	4,072.61	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
4,100.00	3.29	266.91	4,099.99	-0.04	-0.78	0.79	12.00	12.00	0.00
4,200.00	15.29	266.91	4,198.49	-0.91	-16.87	16.89	12.00	12.00	0.00
4,300.00	27.29	266.91	4,291.50	-2.86	-53.05	53.13	12.00	12.00	0.00
4,400.00	39.29	266.91	4,374.94	-5.81	-107.76	107.91	12.00	12.00	0.00
4,500.00	51.29	266.91	4,445.17	-9.64	-178.59	178.85	12.00	12.00	0.00
4,600.00	63.29	266.91	4,499.11	-14.16	-262.45	262.83	12.00	12.00	0.00
4,700.00	75.29	266.91	4,534.42	-19.19	-355.68	356.20	12.00	12.00	0.00
4,800.00	87.29	266.91	4,549.54	-24.51	-454.20	454.86	12.00	12.00	0.00
4,830.94	91.00	266.91	4,550.00	-26.18	-485.09	485.80	12.00	12.00	0.00
Landing Point - Hold @ 91.00° INC, 266.91° AZ									
4,900.00	91.00	266.91	4,548.80	-29.90	-554.04	554.84	0.00	0.00	0.00
5,000.00	91.00	266.91	4,547.05	-35.28	-653.88	654.83	0.00	0.00	0.00
5,100.00	91.00	266.91	4,545.31	-40.67	-753.72	754.81	0.00	0.00	0.00
5,200.00	91.00	266.91	4,543.56	-46.06	-853.56	854.80	0.00	0.00	0.00
5,300.00	91.00	266.91	4,541.82	-51.45	-953.40	954.78	0.00	0.00	0.00
5,400.00	91.00	266.91	4,540.07	-56.83	-1,053.23	1,054.77	0.00	0.00	0.00
5,500.00	91.00	266.91	4,538.33	-62.22	-1,153.07	1,154.75	0.00	0.00	0.00
5,600.00	91.00	266.91	4,536.58	-67.61	-1,252.91	1,254.74	0.00	0.00	0.00
5,667.19	91.00	266.91	4,535.41	-71.23	-1,320.00	1,321.92	0.00	0.00	0.00
PP @ 5667.19 MD, 4535.41 TVD, 91.00 INC, 266.91 AZ, 1321.92 VS									
5,700.00	91.00	266.91	4,534.84	-73.00	-1,352.75	1,354.72	0.00	0.00	0.00
5,800.00	91.00	266.91	4,533.09	-78.38	-1,452.59	1,454.71	0.00	0.00	0.00
5,900.00	91.00	266.91	4,531.35	-83.77	-1,552.43	1,554.69	0.00	0.00	0.00
6,000.00	91.00	266.91	4,529.60	-89.16	-1,652.27	1,654.68	0.00	0.00	0.00
6,100.00	91.00	266.91	4,527.86	-94.55	-1,752.11	1,754.66	0.00	0.00	0.00
6,200.00	91.00	266.91	4,526.11	-99.93	-1,851.95	1,854.65	0.00	0.00	0.00
6,300.00	91.00	266.91	4,524.36	-105.32	-1,951.79	1,954.63	0.00	0.00	0.00
6,400.00	91.00	266.91	4,522.62	-110.71	-2,051.63	2,054.61	0.00	0.00	0.00
6,500.00	91.00	266.91	4,520.87	-116.10	-2,151.47	2,154.60	0.00	0.00	0.00
6,600.00	91.00	266.91	4,519.13	-121.48	-2,251.31	2,254.58	0.00	0.00	0.00
6,700.00	91.00	266.91	4,517.38	-126.87	-2,351.15	2,354.57	0.00	0.00	0.00
6,800.00	91.00	266.91	4,515.64	-132.26	-2,450.99	2,454.55	0.00	0.00	0.00
6,900.00	91.00	266.91	4,513.89	-137.65	-2,550.83	2,554.54	0.00	0.00	0.00
7,000.00	91.00	266.91	4,512.15	-143.03	-2,650.67	2,654.52	0.00	0.00	0.00
7,100.00	91.00	266.91	4,510.40	-148.42	-2,750.51	2,754.51	0.00	0.00	0.00
7,200.00	91.00	266.91	4,508.66	-153.81	-2,850.35	2,854.49	0.00	0.00	0.00
7,300.00	91.00	266.91	4,506.91	-159.20	-2,950.19	2,954.48	0.00	0.00	0.00
7,400.00	91.00	266.91	4,505.17	-164.58	-3,050.03	3,054.46	0.00	0.00	0.00
7,500.00	91.00	266.91	4,503.42	-169.97	-3,149.86	3,154.45	0.00	0.00	0.00
7,600.00	91.00	266.91	4,501.68	-175.36	-3,249.70	3,254.43	0.00	0.00	0.00
7,700.00	91.00	266.91	4,499.93	-180.74	-3,349.54	3,354.42	0.00	0.00	0.00
7,800.00	91.00	266.91	4,498.19	-186.13	-3,449.38	3,454.40	0.00	0.00	0.00
7,900.00	91.00	266.91	4,496.44	-191.52	-3,549.22	3,554.39	0.00	0.00	0.00
8,000.00	91.00	266.91	4,494.70	-196.91	-3,649.06	3,654.37	0.00	0.00	0.00
8,100.00	91.00	266.91	4,492.95	-202.29	-3,748.90	3,754.36	0.00	0.00	0.00
8,200.00	91.00	266.91	4,491.20	-207.68	-3,848.74	3,854.34	0.00	0.00	0.00
8,300.00	91.00	266.91	4,489.46	-213.07	-3,948.58	3,954.33	0.00	0.00	0.00
8,400.00	91.00	266.91	4,487.71	-218.46	-4,048.42	4,054.31	0.00	0.00	0.00
8,500.00	91.00	266.91	4,485.97	-223.84	-4,148.26	4,154.29	0.00	0.00	0.00
8,600.00	91.00	266.91	4,484.22	-229.23	-4,248.10	4,254.28	0.00	0.00	0.00
8,700.00	91.00	266.91	4,482.48	-234.62	-4,347.94	4,354.26	0.00	0.00	0.00

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site GJ West Coop Unit 293H
Company:	COG Operating LLC	TVD Reference:	WELL @ 3577 00ft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3577 00ft (Original Well Elev)
Site:	GJ West Coop Unit 293H	North Reference:	Grd
Well:	GJ West Coop Unit 293H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)	
8,800.00	91.00	266.91	4,480.73	-240.01	-4,447.78	4,454.25	0.00	0.00	0.00	
8,900.00	91.00	266.91	4,478.99	-245.39	-4,547.62	4,554.23	0.00	0.00	0.00	
9,000.00	91.00	266.91	4,477.24	-250.78	-4,647.46	4,654.22	0.00	0.00	0.00	
9,100.00	91.00	266.91	4,475.50	-256.17	-4,747.30	4,754.20	0.00	0.00	0.00	
9,200.00	91.00	266.91	4,473.75	-261.56	-4,847.14	4,854.19	0.00	0.00	0.00	
9,300.00	91.00	266.91	4,472.01	-266.94	-4,946.98	4,954.17	0.00	0.00	0.00	
9,400.00	91.00	266.91	4,470.26	-272.33	-5,046.82	5,054.16	0.00	0.00	0.00	
9,500.00	91.00	266.91	4,468.52	-277.72	-5,146.65	5,154.14	0.00	0.00	0.00	
9,600.00	91.00	266.91	4,466.77	-283.11	-5,246.49	5,254.13	0.00	0.00	0.00	
9,700.00	91.00	266.91	4,465.03	-288.49	-5,346.33	5,354.11	0.00	0.00	0.00	
9,800.00	91.00	266.91	4,463.28	-293.88	-5,446.17	5,454.10	0.00	0.00	0.00	
9,900.00	91.00	266.91	4,461.54	-299.27	-5,546.01	5,554.08	0.00	0.00	0.00	
10,000.00	91.00	266.91	4,459.79	-304.66	-5,645.85	5,654.07	0.00	0.00	0.00	
10,100.00	91.00	266.91	4,458.05	-310.04	-5,745.69	5,754.05	0.00	0.00	0.00	
10,200.00	91.00	266.91	4,456.30	-315.43	-5,845.53	5,854.04	0.00	0.00	0.00	
10,284.80	91.00	266.91	4,454.82	-320.00	-5,930.20	5,938.83	0.00	0.00	0.00	
TD @ 10284.80' MD, 4454.82' TVD - PBHL (GJ West Coop Unit 293H Plan 2)										

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 (GJ West Coop Unit 293H Plan 2)	0.00	0.00	4,454.82	-320.00	-5,930.20	655,818.700	575,753.300	32.802689	-104.086796
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,072.61	4,072.61	0.00	0.00	KOP - Start Build @ 12.00°/100'	
4,830.94	4,550.00	-26.18	-485.09	Landing Point - Hold @ 91.00° INC, 266.91° AZ	
5,667.19	4,535.41	-71.23	-1,320.00	PP @ 5667.19 MD, 4535.41 TVD, 91.00 INC, 266.91 AZ, 1321.92 VS	
10,284.80	4,454.82	-320.00	-5,930.20	TD @ 10284.80' MD, 4454.82' TVD	



COG Operating LLC
GJ West Coop Unit 293H
Eddy County, NM
Plan #2



Surface Location		Ground Elev: 3559.00 WELL @ 3577.00ft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	656138.700	581683.500	32.803529	-104.067493

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude
PBHL (GJ West Coop Unit 293H Plan 2)	4454.82	-320.00	-5930.20	655816.700	575753.300	32.802688 -104.086786

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4072.61	0.00	0.00	4072.61	0.00	0.00	0.00	0.00	0.00	KOP - Start Build @ 12.00°/100'
3	4830.94	91.00	286.91	4550.00	-26.18	-485.08	12.00	266.91	485.80	Landing Point - Hold @ 91.00° INC, 266.91° AZ
4	10284.80	91.00	266.91	4454.82	-320.00	-5930.20	0.00	0.00	5938.83	TD @ 10284.80' MD, 4454.82' TVD

