

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

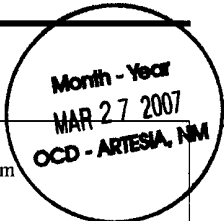
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒  
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒



Operator: COG Operating LLC Telephone: 432-685-4340 e-mail address: pedwards@conchoresources.com  
Address: Fasken Center Tower II, 550 W. Texas Ave., Suite 1300, Midland, TX 79701  
Facility or well name: Blue Ridge 28 State #1 API #: 30-015-34416 U/L or Qtr/Qtr: A Sec: 28 T: 20S R: 28E  
County: Eddy Latitude: N 32° 32' 58" Longitude: W 104° 10' 33" NAD: 1927 ☐ 1983 ☐  
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐  
Workover ☐ Emergency ☐  
Lined ☒ Unlined ☐  
Liner type: Synthetic ☒ Thickness: 12 mil Clay ☐  
Pit Volume: 25,000 bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_  
Construction material: \_\_\_\_\_  
Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) 30 feet

Less than 50 feet - X	(20 points)	20
50 feet or more, but less than 100 feet	(10 points)	
100 feet or more	( 0 points)	

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)	
No - X	( 0 points)	0

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)	
200 feet or more, but less than 1000 feet	(10 points)	
1000 feet or more - X	( 0 points)	0

<b>Ranking Score (Total Points)</b>		20 points
-------------------------------------	--	-----------

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Pit Closure Plan attached

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 3-26-07

Printed Name/Title PHYLLIS A. EDWARDS Signature Phyllis A. Edwards

REGULATORY ANALYST  
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title Jim W. Green Signature Jim W. Green

Date: 4/2/07

## Pit Closure Plan – Drilling Pit

**Operator:** COG Operating LLC

**Well Name:** Blue Ridge 28 State #1

**Location:** Unit A, Section 28, Township 20 S, Range 28 E, Eddy County, NM

The drilling pit associated with this well will be closed as per New Mexico OCD "Pit and Below-Grade Tank Guidelines" dated November 1, 2004. The visual inspection of the pit indicated that the pit liner has maintained its integrity.

1. Any remaining liquids will be removed from the pit.
2. All pit contents, including pit liner, will be excavated and disposed of at an off-site OCD approved disposal facility.
3. The excavated pit area will be backfilled with clean soil that is capable of supporting native plant growth.
4. Upon closure of the pit, the surface where the pit was located will be contoured to prevent erosion and ponding of rainwater over the site.

**Water Well Data**  
**Average Depth to Groundwater (ft)**  
**COG - Blue Ridge "28" State #1, Lea County, New Mexico**

19 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

19 South			28 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

19 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South			28 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 30	27	26	25
31	32	SITE	35	36	
115		33 25	34	35	36
		29			

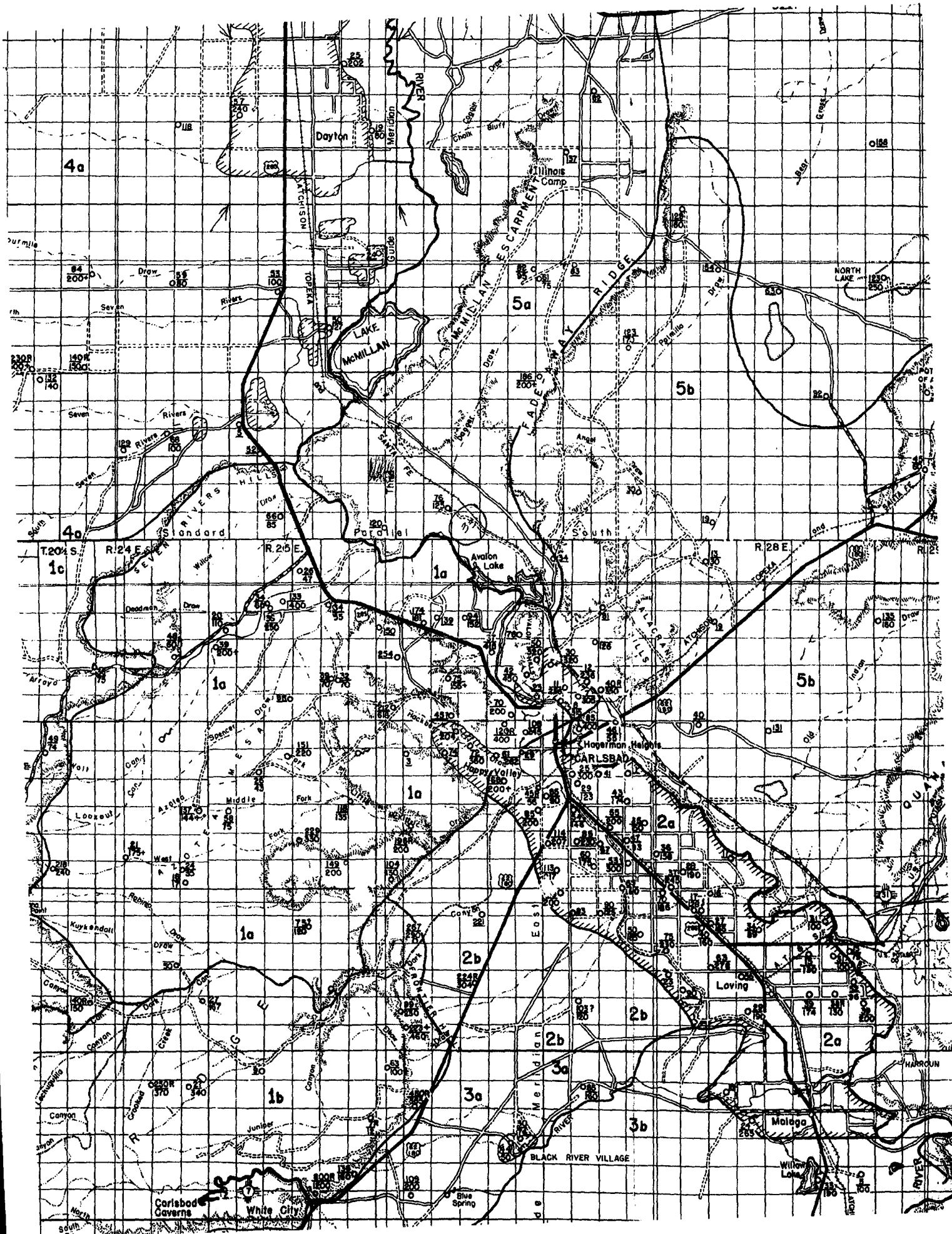
20 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

21 South			26 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

21 South			27 East		
6	175	5 350	4	3	2
7	8	9	78	10	11
18	17	16	15	14	13
19	20	21	22	23	24
36					
30	29	28	27	26	25
31	32	33	34	35	36

21 South			28 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)



LOCATION NUMBER	WATER LEVEL		YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT				
20.21.26.420	850	—	2 R.	W	D & S	Abandoned stock well.
20.24.1.100	131.9	Jan. 16, 1950	—	N	N	
22.310	300	—	—	W	D & S	
32.110	350	—	—	W	S	
20.25.15.200	67.9	Jan. 16, 1950	—	W	S	See analysis, Table 3.
16.300	129.0	do.	—	W	S	
20.26.7.340	5.4	Sept. 13, 1948	—	W	S	
17.330	51.7	Aug. 27, 1948	—	W	S	
32.220	66.1	do.	—	W	S	Depth to water measured while pumping.
36.411	120.0	Oct. 6, 1948	1½	W	S	
20.27.1.110	186.0	Sept. 7, 1948	1	W	S	
29.440	75.5	Oct. 6, 1948	2½	W	S	
20.28.28.200	30.5	Jan. 20, 1950	—	W	S	See analysis, Table 3.

See explanation at beginning of table.

TABLE 1. RECORDS OF WELLS IN EDDY COUNTY, NEW MEXICO. (Continued)

LOCATION NUMBER	OWNER OR NAME	DATE COM- PLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
20.21.26.420	Armstrong	-	-	-	870	8	Limestone	San Andres
20.24.1.100	Foster	-	Gentle E. slope	3,590	140	6	Limestone (?)	Chalk Bluff
22.310	do.	-	do.	3,750	305	6 (?)	Limestone	do.
32.110	do.	-	do.	-	365	6	do.	do.
20.25.15.200	Price	-	do.	3,435	100	6	do.	do.
16.300	-	1949	do.	3,490	-	4	do.	do.
20.26.7.340	-	-	-	-	-	5	Alluvium	Quaternary
17.330	Truitt	-	Valley	3,270	-	6	Limestone, gypsum (?)	Chalk Bluff (?)
32.220	do.	1943	Gentle E. slope	3,280	85	6	Limestone	Carlsbad
36.411	Westerfall	-	-	3,240	-	6	do.	do.
20.27.1.110	-	-	Head of shallow draw	3,367	200+	6	do.	do.
29.440	Westerfall	-	-	3,190	125	5½	do.	do.
20.28.28.200	-	-	Rolling	3,225	-	6	Redbeds, gypsum (?)	Rustler (?)

See explanation at beginning of table.

*New Mexico Office of the State Engineer*  
**POD Reports and Downloads**

Township: 20S Range: 28E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic  
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

## AVERAGE DEPTH OF WATER REPORT 10/17/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	20S	28E	31				1	115	115	115
CP	20S	28E	33				4	27	30	29

Record Count: 5