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

JUN 18 2007

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

OCD ARTESIA

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: Aladdin 11 State #1 API #: 30-015-34654 U/L or Qtr/Qtr: K Sec: 11 T: 24S R: 23E
County Eddy Latitude: N 32° 13' 46" Longitude: W 104° 34' 17" NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness: 12 mil Clay ☐ Pit Volume: 35,000 bbl	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.) greater than 100'	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more - X	(20 points) (10 points) (0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No - X	(20 points) (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 200 feet or more, but less than 1000 feet 1000 feet or more - X	(20 points) (10 points) (0 points) 0
	Ranking Score (Total Points)	0 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 your 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 (#)
On June 13, 2007, Ike Tavarez with Highlander Environmental Corp measured water level at an inactive windmill located approximately 0.6 mile northeast of Aladdin 11 State #1 well. The static water level depth was measured at 33 feet below surface. The surface elevation of windmill is 4278 feet. The surface elevation of the Aladdin 11 State #1 well is 4368 feet, 90 feet above the surface elevation of the windmill. Therefore, the depth to water at the Aladdin 11 State #1 well is projected at approximately 123 feet below surface

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: 6-15-2007 Agent for COG
Printed Name/Title Robert McNeill Signature Robert McNeill

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:
Notify OCD 24 hours prior to beginning pit closure. – If groundwater is encountered, notify OCD immediately

Signature _____ Date: JUN 22 2007
Signed By Mike Bratcher

Samples are to be obtained from pit area and analysis submitted to NMOCD prior to back-filling

(#)

Pit Closure Plan – Drilling Pit

Operator: **COG Operating LLC**
Well Name: **Aladdin 11 State #1**
Location: **Unit K, Section 11, Township 24 S, Range 23 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.

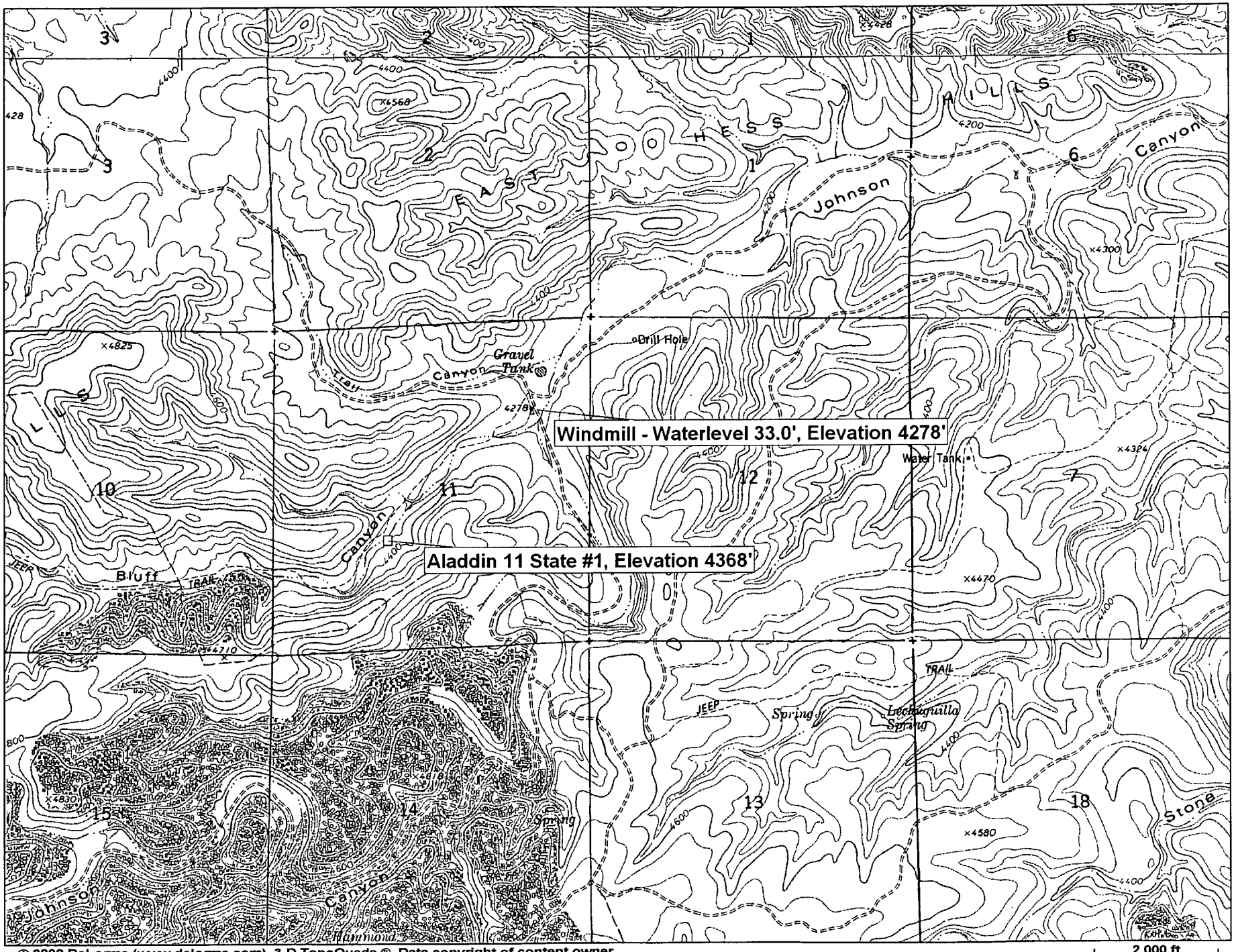
2. Remaining solid wastes (i.e. buckets, cans, miscellaneous trash, debris, contaminated solids, etc.) will be removed from the pit, except for dried mud and cuttings, cement, and frac materials in drilling and reserve pits which have been approved by the OCD for encapsulation.

3. **This pit will be closed by <u>encapsulation</u>:**

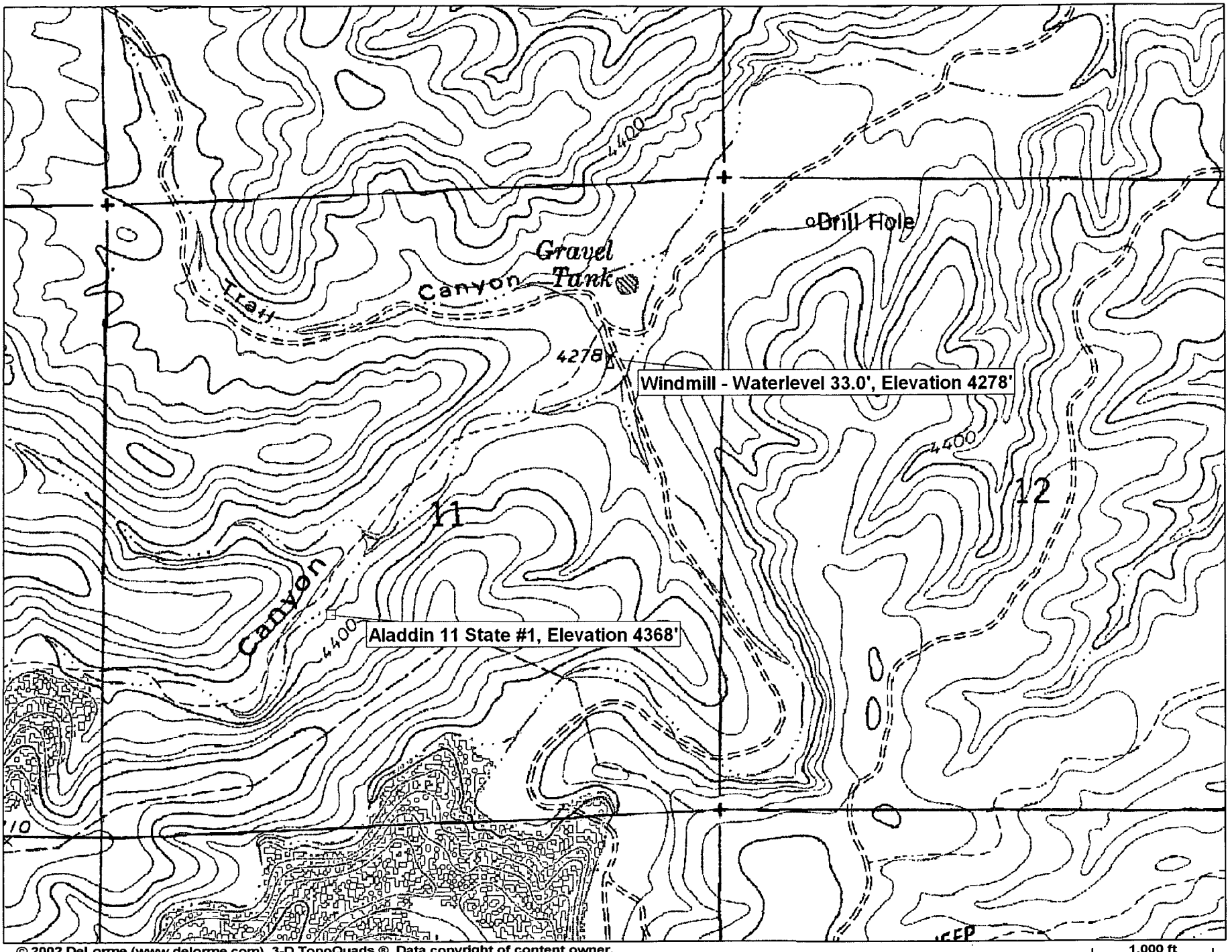
   Trench burial and capping will be performed for the drilling mud and cuttings. Up to two trenches (approximately 5 feet wide x 10 feet deep x 125 feet length) will be dug next to the pit and the cuttings buried and capped. The trenching and capping will be accomplished by lining the trench with an impervious, reinforced, synthetic or fabricated liner at least 12 mils in thickness; mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide stability and support for the trench cap; emplacing the stiffened mud and cuttings into the lined trench; capping the trench with a 20 mil minimum thickness impervious, fiber reinforced, synthetic or fabricated liner (the synthetic liner will overlap the trench area by at least 3 feet in all directions); and covering the trench with a minimum of 3 feet of clean soil that is capable of supporting native plant growth.

4. Soil sampling will be performed at the excavated pit area for delineation of chlorides in soils to 250 ppm. Soil samples will be taken from each of the (4) corners and (1) from the center of the pit until the chlorides are vertically delineated to 250 ppm. These samples will be screened using field chloride test kits. The final confirmation samples (5 total samples) will be submitted for laboratory analysis. The laboratory results will be submitted to the OCD District office. Upon approval from the OCD District office, the excavated pit area will be backfilled with clean material and top 3 feet of soil that is capable of supporting native plant growth.

5. 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.



Scale: 1 : 25,000 Map Rotation: 0° Magnetic Declination: 9.2°E



Scale: 1 : 12,800 Map Rotation: 0° Magnetic Declination: 9.2°E

1,000 ft

Water Well Data
Average Depth to Groundwater (ft)
COG - Aladdin 11 State #1, Eddy County, New Mexico

23 South 22 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

23 South 23 East

6	5	4	3	2	1
7	8 **260**	9 **182**	10	11	12
18	17	16 **150**	15	14 **70** **76**	13
19	20 **285**	21	22	23	24
30	29 **48**	28 **140**	27	26	25
31	32	33	34	35	36

23 South 24 East

6	5	4	3	2	1
7	8	9	10	11 **238**	12
18	17	16 **175**	15	14 **18** **20**	13
19	20	21	22	23	24
30	29 **140** **170**	28 **663**	27	26	25
31	32	33 **90**	34	35	36

24 South 22 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20 **587**	21	22	23	24 **680**
30 **618**	29	28	27	26	25
31	32	33	34	35	36

24 South 23 East

6 **162**	5 **232**	4	3	2	1
7	8	9 **115**	10	11 **Site**	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25 **99** **110**
31	32	33	34	35	36

24 South 24 East

6	5	4	3	2 **250**	1
7	8	9	10 **250**	11	12 **27** **240**
18	17	16	15	14	13 **79.**
19 **186** **646**	20 **90**	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South 22 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

25 South 23 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17 **196**	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South 24 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)

34 NMOCD - Groundwater Data