

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

Form C-144
June 1, 2004

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

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: Osudo 7 State #1 API #: 30-025-37557 U/L or Qtr/Qtr: B Sec: 7 T: 20S R: 36E
County: Lea Latitude: N 32° 35' 35" Longitude: W 103° 23' 30" 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: 25,000 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.) 28	Less than 50 feet - X (20 points) 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)
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
Ranking Score (Total Points) 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

* CONDITIONAL APPROVAL - ADD: SAMPLE EACH QUADRANT OF PIT 1+ FEET
BELOW REMOVED LINER, TEST FOR CHLORIDES - REMOVE ALL
CENTAN ABOVE 250 PPM BEFORE COVERING. ATTACH
SAMPLES TO CLOSURE REPORT.

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: 4-12-07

Printed Name/Title PHYLLIS A. EDWARDS - REGULATORY ANALYST Signature *Phyllis A. Edwards*

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: * CONDITIONAL

Printed Name/Title L. JOHNSON - ENVIRON ENGR

Signature *L. Johnson*

Date: 5.7.07

application - PPAC0713451179

RP# 1327

Pit Closure Plan – Drilling Pit

Operator: COG Operating LLC

Well Name: Osudo 7 State #1

Location: Unit B, Section 7, Township 20 S, Range 36 E, Lea 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.  *NEED TO EXCAVATE PIT LNER, REMOVED LATER TO*
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.

NO MORE NO LATER 02/05/2011 W LINE

LID LATER LATER LATER IS TO BE LATER

1 2 3 4

Water Well Data
Average Depth to Groundwater (ft)
COG - Osudo "7" State #1, Lea County, New Mexico

19 South 35 East					
6 61	5	4	3	2	1
58	63	70			63
7	8	9 20	10	11	12
51	18		53		
18	17 26	16	15 26	14 27	13
	30				27
19	20	21	22	23	24 20
			27		
30	29	28	27	26	25
31	32	33	34	35	36

19 South 36 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 37 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 35 East					
6 56	5 64	4	3	2	1
64					
7	8	9	10	11	12
					49
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31 65	32	33 89	34	35	36

20 South 36 East					
6 32	5	4	3	2 92	1
	28				40
7 Site	8	9 38	10	11	12
	33			32	29
18	17	16	15	14	13
34				45	
19	20	21	22	23	24
30	29	28	27	26 106	25
				170	
31	32	33	34	35	36
	170			122	

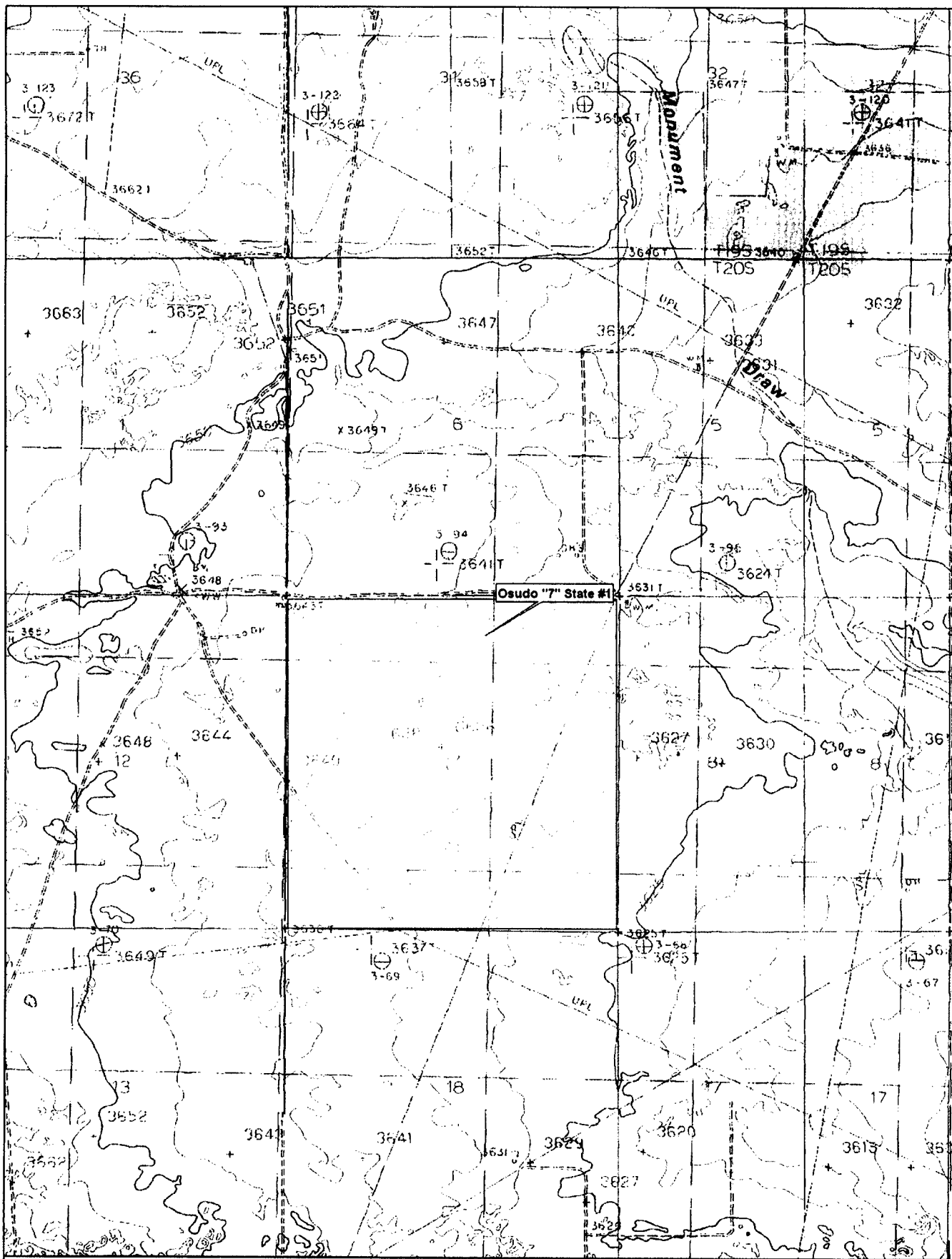
20 South 37 East					
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

21 South 34 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 35 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 36 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



DE LORME

© 2002 DeLorme, 3-D TopoQuads ©. Data copyright of content owner.
www.delorme.com

Scale 1 : 25,000

1" = 2080 ft



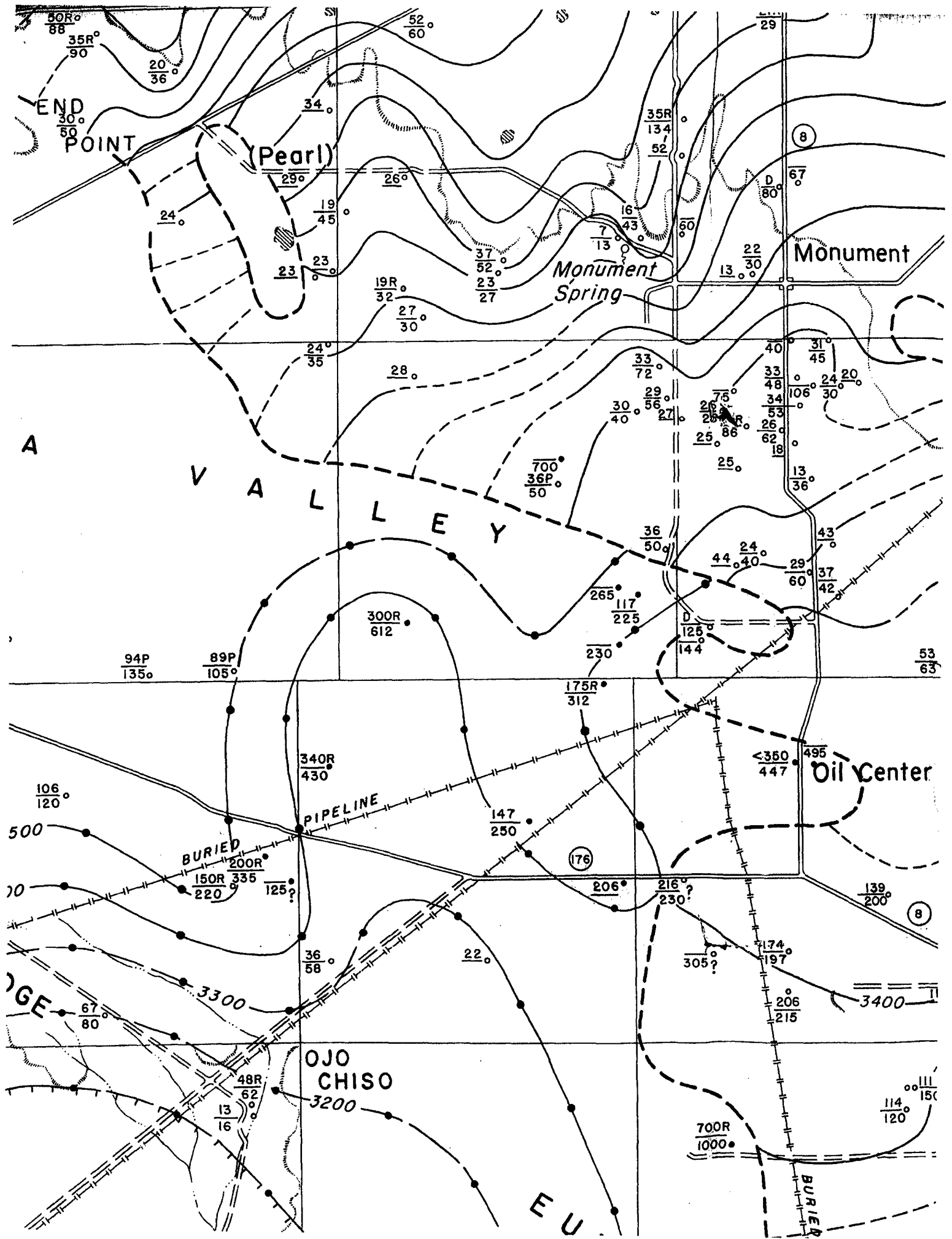


TABLE 6. RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level		Year completed	Surface diam-eter of wells	Method of lift	Use of water	Remarks
					Depth be-low land surface (feet)	Date measured					
20.36.5.321	—	Qal	—	3,635	28.3	11-16-53	—	6	Lw	S	—
12.141	—	Qal	40 ± M	3,550	29.5	3-25-54	—	—	Lw	S	—
12.222	Sunray Oil Co.	Qal	56	3,560	29.0	3-30-54	—	7	Lw	L	Water not potable.
20.36.15.222	Continental Oil Co.	Tr	700	3,575	—	—	—	—	Li	D	—
15.421	H. S. Record	Qal	50	3,575	35.7	3-30-54	1938	8½	Lw	S	Water not potable. MWP. Chemical analysis in table 8.
24.423	—	Qal	50 ± M	3,540	36.4	3-25-54	—	7	Lw	In	Water used to soak wooden tanks.
25.312	Stanolind Oil and Gas Co.	Tr	225	3,550	117.3	3-25-54	—	6	Lw	D	—
26.244	Amerada Oil Co.	Tr	265	3,555	—	—	—	7½	Li	In	Water used for oil well drilling.
32.112	Leo Sims	Tr	612	3,640	300	4-15-54	—	—	Lw	S	—
35.244	Humble Oil Co.	Tr	230	3,550	—	—	1938	—	—	In	Federal Fopcano well 2. EY 18 gpm.
20.27.3.341	—	Qal	—	3,560	19.5	4-1-54	—	7½	Lw	S	Water not potable.
20.37.4.111	Jim Cooper	Qal	40	3,560	—	—	—	—	Je	L	Chemical analysis in table 8.
4.221	Nolan and Lane	Qal	45	3,555	31.4	4-2-54	1940	6	Lw	D	Chemical analysis in table 8.
4.314	—	Qal	48M	3,550	32.8	4-2-54	—	8	N	N	—
4.341	Humble Oil Co.	Qal	106	3,550	—	—	1935	—	—	—	Plugged and abandoned.
4.444	—	Qal	30 ± M	3,560	23.5	4-1-54	—	8	N	N	—
5.333	Amerada Oil Co.	Qal	75	3,555	—	—	1954	7	Ti	In	WBZ 35-65 feet.
7.133	—	Qal	—	3,555	27.1	3-29-54	—	8½	N	N	—
7.241	—	Qal	28.5M	3,550	26.4	3-29-54	—	8½	N	N	About 70 feet northwest of windmill.
7.434	—	Qal	—	3,540	25.2	3-30-54	—	8½	Lw	S	MWP
8.321	Amerada Oil Co.	Qal	86	3,550	30	1-23-54	1954	7	Ti	In	Reportedly had no measurable draw-down at 50 gpm.
20.37.8.424	Tidewater Oil Co.	Qal	62	3,545	25.9	3-22-54	—	—	Li	D	EY less than 1 gpm.
9.110	W. H. Laughlin	Qal	53	3,558	34.0	11-16-53	—	4 × 6 ft.	N	O	—
9.331	Skelly Oil Co.	Qal	—	3,545	18.0	3-22-54	—	7	N	N	—
13.321	Earl Kornegay	Qal(?)	78M	3,545	75.7	4-2-54	—	—	Lw	S	—
16.144	—	Qal	36M	3,525	13.2	2-8-53	—	6	N	N	—

19.36.5.233	Tom Green	To	60	3,815	52.3	7-28-54	—	—	Lw	D,S	—
19.313	—	Qal	44.6M	3,685	18.6	11-16-55	—	—	N	S	Uncased shot-hole.
20.111	Tom Green	Qal	—	3,695	25.7	7-28-54	—	—	N	S	EY 10 gpm. PR
25.123	—	To	43M	3,680	16.0	3-18-54	—	6	N	N	Northwest well of six. Chemical analysis in table 8.
19.36.26.224	J. E. Weir	Qal	12.7M	3,650	6.7	5-7-54	—	4X5 ft.	N	N	At Monument Spring.
28.422	Mrs. Abi Hall	To	52M	3,720	36.6	3-18-54	—	7	N	N	—
28.441	do.	To	27M	3,680	22.7	3-18-54	—	6	N	N	—
32.110	S. P. Jordan	Qal	32	3,645	19	11-20-29	—	—	—	—	Chemical analysis in table 8.
32.324	—	Qal	30	3,630	27.2	7-28-54	—	4X4 ft.	Lw	N	—
19.37.4.110	V. Linam	To	29	3,680	21	9-19-29	—	—	—	—	Chemical analysis in table 8.
18.111	Amerada Oil Co.	To	134	3,705	35	9-47	1947	1034	Ti	D	Monument District Camp, WBZ 67-108 feet, 112-125 feet. EY 385 gpm.
18.331	EPNG	To	—	3,710	51.9	3-18-54	—	10	N	N	—
20.242	Humble Oil Co.	—	80	3,660	Dry	—	1937	—	N	N	Plugged and abandoned.
21.132	do.	To	67	3,685	—	—	1937	—	—	—	State "D" well 2. EY 30 gpm.
19.37.25.422	—	To	—	3,600	40	4-6-54	—	—	Lw	S	—
29.333	—	Qal	—	3,595	13.3	7-28-54	—	7	Lw	D	—
29.344	Hobbs School district	Qal	30±	—	21.5	3-23-60	—	8	Te	P	MWP
29.344a	do.	Qal	30±	—	—	—	—	6	Te	P	—
30.113	Continental Oil Co.	Qal	60	3,660	—	—	—	—	Te	D	Chemical analysis in table 8.
20.32.1.322	W. M. Snyder	Qal	30	3,510	21.8	7-1-54	—	6	Li	S	Pumps dry in summer.
18.235	Freeport Sulfur Co.	Tr	400	3,450	89.2	3-24-54	1954	8	Li	In	Water not potable. WBZ 215-245 feet.
27.144	Joel Frey	Qal	25	3,545	12.3	6-11-54	—	—	Lw	N	—
30.142	—	Qal	—	3,530	9.9	6-11-54	—	834	N	N	Located in sink.
36.214	Mrs. Bingham	Qal	60	3,588	46.5	6-6-55	1950	714	Lw	D	West well of three.
20.33.15.221	—	Tr	—	3,570	336.1	4-20-55	—	4	Li	N	—
24.122	D. C. Berry	Tr	700±	3,530	300±	—	—	10	Lw	S	—
20.34.17.334	Mark Smith	Tr	200	3,635	140	7-1-54	1940	10	Lw	S	MWP
22.223	D. C. Berry	Tr	235	3,655	—	—	—	10	Lw	S	—
20.35.1.221	J. L. Wood	Qal	35	3,655	24.5	11-16-53	—	4X4 ft.	N	O	—
31.113	Leo Sims	To	85	3,740	68.4	6-25-54	—	6	Lw	S	PR
33.433	do.	To	135	3,700	94.1	6-25-54	—	7	Lw	S	—
35.333	do.	To	105	3,690	88.9	4-15-54	—	—	Lw	D,S	MWP Southeast well of two.
20.36.1.412	Amerada Oil Co.	Qal	72M	3,565	33.1	3-30-54	—	7	N	N	—

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 20S Range: 36E 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
L	20S	36E	01				1	40	40	40
L	20S	36E	02				2	92	92	92
L	20S	36E	09				2	38	38	38
L	20S	36E	14				5	20	53	45
L	20S	36E	18				2	34	34	34
L	20S	36E	26				2	170	170	170

Record Count: 14