



Highlander Environmental Corp.

Midland, Texas

November 14, 2005

VERBAL APPROVAL
1.10.06 @ 8:40 AM
[Signature]

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Work Plan for the Duke Energy Field Services, L.P., G-28-24-6-3 Pipeline Spill Located in the NW/4 of Section 2, Township 23 South, Range 36 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Duke Energy Field Services, L.P. (Duke) to assess a spill on the G-28-24-6-3 Pipeline located in the NW/4 of Section 2, Township 23 South, Range 36 East, Lea County, New Mexico (Site). The site coordinates are N 32° 20' 22.8", W 103° 14' 39.3". The State of New Mexico C-141 (Initial) is shown in Appendix A. The Site is shown on Figure 1.

Background

According to the State of New Mexico C-141 report, the spill occurred on June 30, 2005, from a rupture of a 4" low pressure steel pipeline. An oil operator was working on a heater treater, when electric power was lost and liquids were released into the pipeline. The release caused the low pressure line to rupture, spilling 8 barrels of condensate and produced water. The operator performed the repairs and removed impacted soils, however, the site was backfilled before Duke could obtain confirmatory samples.

Groundwater and Regulatory

Neither the New Mexico State Engineer Office database nor USGS database show wells in Section 2, however, wells in the vicinity of the section had reported depths to water ranging from 150' to 180' below ground surface. The New Mexico State Engineer and USGS well reports are shown in Appendix B. A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per

facility - #PACOG 13847852
incident - #PACOG 13847951
application - #PACOG 13848157
1910 N Big Spring Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Work Plan/Assessment

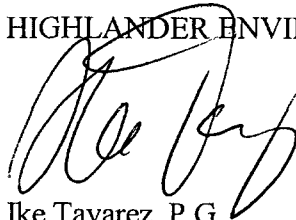
Highlander personnel will supervise the installation of soil borings to evaluate the vertical extent of subsurface impact at this site. The soil borings will be installed using either an air-rotary type drilling rig or hollow-stem auger rig. Soil samples will be collected at 5 foot intervals during drilling operations and field screened with an (Organic Vapor Meter) OVM. The soil samples will be placed into laboratory supplied containers and delivered to a laboratory under chain-of-custody control for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B and chloride analysis by EPA method 300.0.

All downhole equipment will be washed between boreholes and sampling events using potable water and laboratory grade detergent. All down hole equipment (i.e., drill rods, drill bits, etc.) will be thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. Soil cuttings from drilling will be stockpiled adjacent to the borehole. Following the completion of the drilling activities, all boreholes will be grouted to surface.

Once completed, the results of the assessment, along with recommendations for further investigation or remediation, if any, will be submitted to the NMOCD.

If you require any additional information or have any questions or comments, please call.

HIGHLANDER ENVIRONMENTAL CORP.



Ike Tavarez, P.G.
Project Manager/Senior Geologist

cc: Lynn Ward – Duke



FIGURES

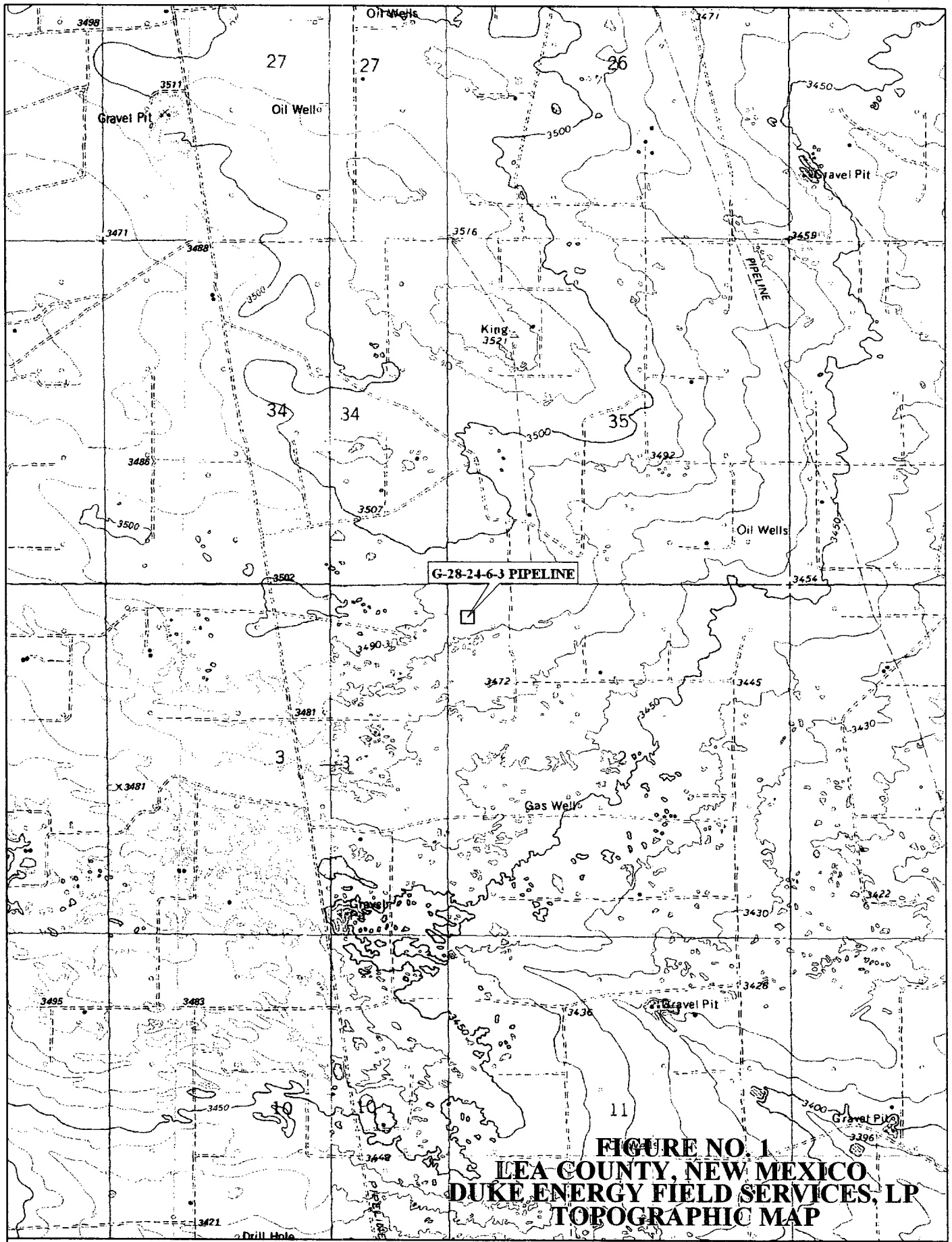
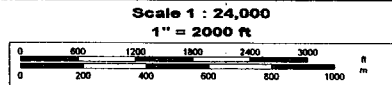


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
DUKE ENERGY FIELD SERVICES, LP
TOPOGRAPHIC MAP



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APPENDIX A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report

☐ Final Report

Name of Company DUKE ENERGY FIELD SERVICES, LP	Contact LYNN WARD/KENNETH WINN
Address 10 DESTA DRIVE, SUITE 400-W, MIDLAND, TX 79705	Telephone No. 432/620-4207
Facility Name G-28-24-6-3 PIPELINE	Facility Type PIPELINE

Surface Owner STATE OF NEW MEXICO	Mineral Owner STATE OF NEW MEXICO	Lease No. ☐
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LOCATION OF RELEASE

Unit Letter	Section NW4 of Sec. 2	Township 23S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea County
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Latitude: 32.33968

Longitude: 103.24356

NATURE OF RELEASE

Type of Release CONDENSATE	Volume of Release 8 bbls	Volume Recovered 5 bbls
Source of Release RUPTURE OF 4" STEEL LOW PRESSURE PIPELINE	Date and Hour of Occurrence 6/30/05 @ 11:00 AM MST	Date and Hour of Discovery 6/30/05 @ 11:00 AM MST
Was Immediate Notice Given? Yes No ☒ Not Required	If YES, To Whom? IMMEDIATE NOTIFICATION NOT REQUIRED, <25 BBLs	
By Whom? NOT APPLICABLE	Date and Hour NOT APPLICABLE	
Was a Watercourse Reached? Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*

Field Operations (David Stanfield) was notified by Arena Resources pumper (Steve Smith) that they had been working on the treater at the Arena Seven Rivers Queen Satellite when electrical power was lost and liquids were released into the gas pipeline. The release caused the low pressure line to rupture causing an 8 bbl release of crude/condensate & produced water. Arena Resources said since they had caused the release, they would clean up the impacted soils. Lynn Ward with DEFS contacted Steve Smith to request the excavated area not be backfilled until 7/5/05 in order to allow DEFS to conduct sampling activities to confirm appropriate cleanup levels had been achieved. When Lynn Ward arrived at the location on 7/5/05, the site of the release had been backfilled and back dragged, precluding sampling without additional equipment. DEFS concluded that further investigation activities were going to be necessary. The release was from a 4" low pressure steel line. The line was shut in and clamped. DEFS placed the line on the line replacement list.

Describe Area Affected and Cleanup Action Taken.*

DEFS estimates the impacted area to be larger than from an 8 bbl spill and include historical releases. DEFS intends to contact a third party to perform delineation and remediation activities. The RRALs according to OCD guidance document are TPH < 5,000 mg/kg, Benzene < 10 mg/kg, and BTEX < 50 mg/kg. Depth to groundwater according to the New Mexico Office of the State Engineer web database is greater than 100 feet below ground surface based on well data for Section 2, T23S, R36E. No water wells were visible in the vicinity.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Lynn Ward</i>	OIL CONSERVATION DIVISION	
Printed Name: Lynn Ward	Approved by: District Supervisor:	
Title: Environmental Specialist	Approval Date:	Expiration Date:
Date: 7/8/05 Phone: 432/620-4207	Conditions of Approval:	Attached

* Attach Additional Sheets If Necessary

cc: K. Wina, E. File 2.1.1.1

APPENDIX B

Water Well - Average Depth to Groundwater
Duke - G-28-24-6-3, Lea County, New Mexico

22 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

22 South 36 East					
6	5	4	3	2	1
195	212				137
7	8	9	10	11	12
18	17	16	15	14	13
		170			
19	20	21	22	23	24
			22		
30	29	28	27	26	25
			160		118
31	32	33	34	35	36
				181 187	

22 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

23 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

23 South 36 East					
6	5	4	3	2	1
		160		SITE	
7	8	9	10	11	12
18	17	16	15	14	13
		220	149		
19	20	21	22	23	24
			400	143	
30	29	28	27	26	25
31	32	33	34	35	36
189					127

23 South 37 East					
6	5	4	3	2	1
102					
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

24 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

24 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

24 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

150 Average depth to groundwater (ft) - New Mexico State Engineer Well Reports

56 Groundwater Depth (ft) - Geology and Groundwater Conditions in Southern Lea County, New Mexico (Report 6)

87 USGS

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 22S Range: 36E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 11/14/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	22S	36E	01				1	137	137	137
CP	22S	36E	05				1	212	212	212
CP	22S	36E	06				1	195	195	195
CP	22S	36E	16				1	170	170	170
CP	22S	36E	22				1	22	22	22
CP	22S	36E	27				1	160	160	160

Record Count: 6

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 23S Range: 36E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

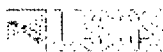
WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 11/14/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	23S	36E	15				1	149	149	149
CP	23S	36E	16				1	220	220	220
CP	23S	36E	22				1	400	400	400
CP	23S	36E	31				2	178	200	189
CP	23S	36E	36				5	123	133	127

Record Count: 10



Water Resources

Data Category:

Ground Water

Geographic Area:

New Mexico

go

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321936103154601

Save file of selected sites to local disk for future upload

USGS 321936103154601 23S.36E.04.42431

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'36", Longitude 103°15'46" NAD27

Land-surface elevation 3,492.50 feet above sea level NGVD29

The depth of the well is 206 feet below land surface.

This well is completed in the OGALLALA FORMATION (121OGLL) local aquifer.

Output formats

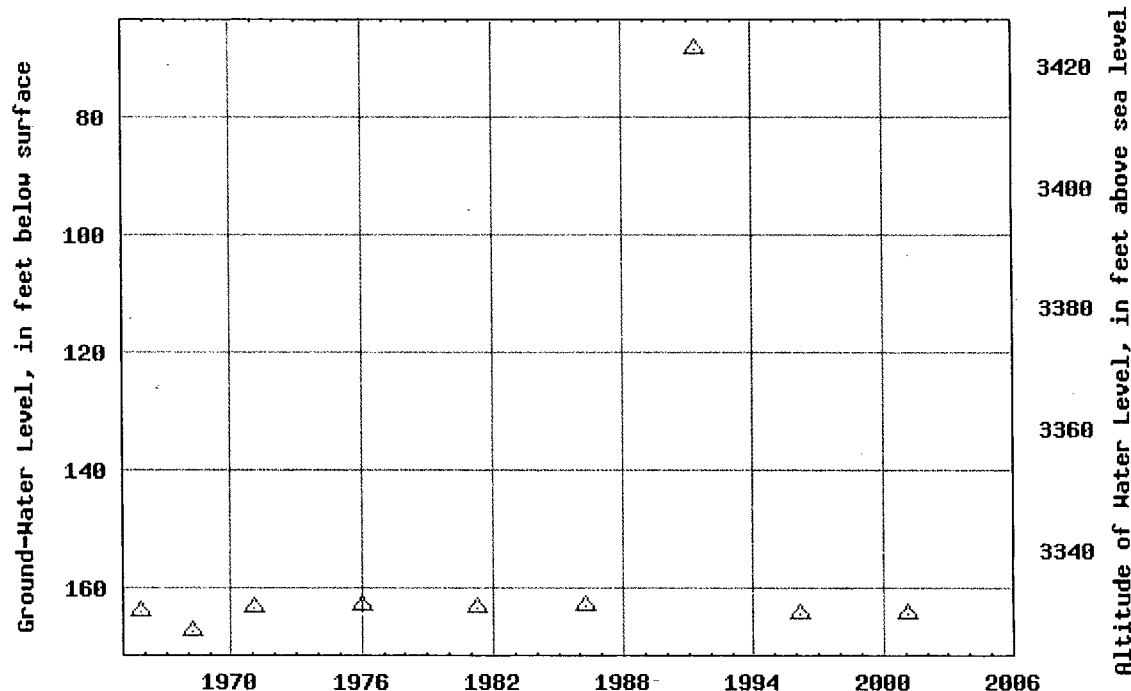
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 321936103154601 23S.36E.04.42431



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

[Download a presentation-quality graph](#)

Questions about data [New Mexico NWISWeb Data Inquiries](#)

Feedback on this website [New Mexico NWISWeb Maintainer](#)

Ground water for New Mexico: Water Levels

<http://waterdata.usgs.gov/nm/nwis/gwlevels?>

[Top](#)

[Explanation of terms](#)

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 322032103143101

[Save file of selected sites to local disk for future upload](#)

USGS 322032103143101 22S.36E.35.313224

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°20'32", Longitude 103°14'31" NAD27

Land-surface elevation 3,496.70 feet above sea level NGVD29

The depth of the well is 197 feet below land surface.

This well is completed in the OGALLALA FORMATION (121OGLL) local aquifer.

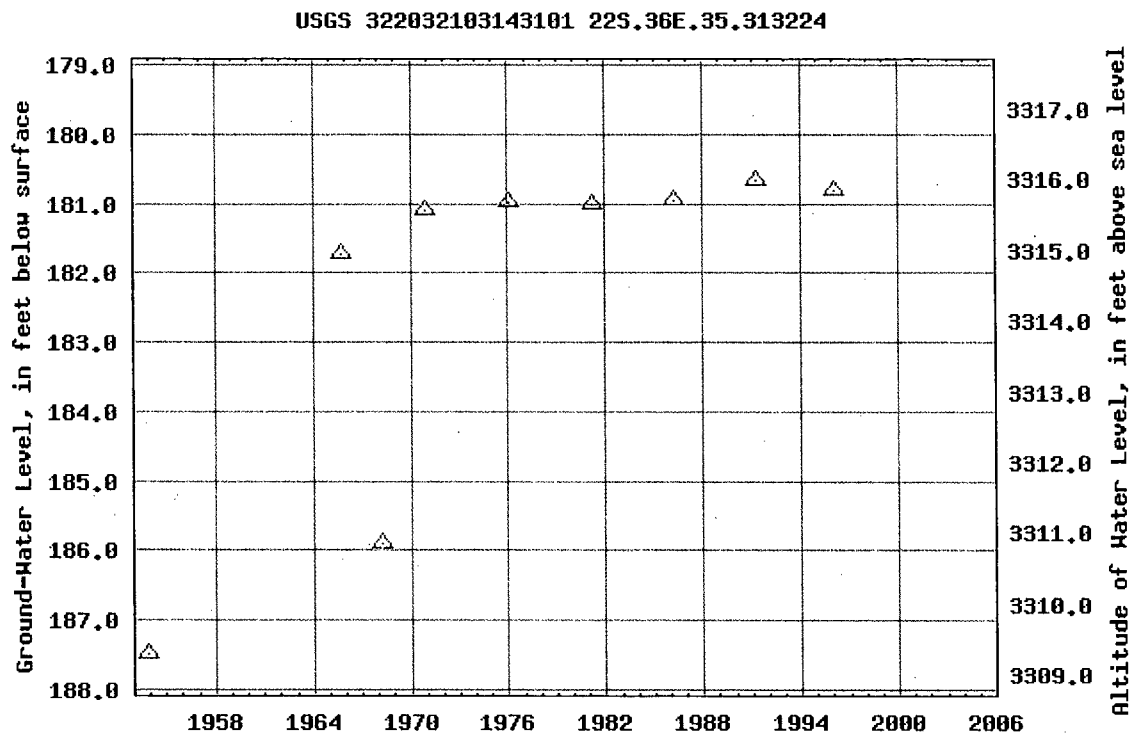
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

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Ground water for New Mexico: Water Levels

<http://waterdata.usgs.gov/nm/nwis/gwlevels?>

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[Explanation of terms](#)

GROUND WATER

LEA COUNTY

81

22.36.35.314	do.	To	197	3,490	187.4	11-23-53	—	—	Lw	S	Open, uncased hole.
1.132	G. Sims	Qal	—	3,350	47.6	10-14-53	—	—	N	N	Chemical analysis in table 8.
1.440	do.	Qal	—	—	—	—	—	—	Lw	S	Initial yield, 68 gpm.
2.442	Humble Oil Co.	Qal	86M	3,360	53.3	10-9-53	—	7	N	S	
3.133	Sinclair Oil and Gas Co.	To	120	3,425	90	/	1946	—	Je	D	
3.134	do.	—	52M	3,420	Dry	9-28-53	—	—	N	N	
3.440	Cities Service Oil Co.	To	—	3,390	75.8	9-29-53	—	7½	N	N	
4.211	City of Eunice	To	155	3,445	110	1953	1953	10	Te	P	Well 12. Initial yield, 100 gpm;
4.213	do.	To	155	3,440	114.8	3-6-54	1952	10	Te	P	yield in 1953, 60 gpm.
4.214a	Eunice Cement Assoc.	To	115 ± M	3,435	108.2	9-29-53	—	6½	N	N	Well 11. EY 60 gpm.
22.37.4.233	City of Eunice	To	155	3,435	110	1951	1951	8	Te	P	Well 9.
4.421	Sinclair Oil and Gas Co.	To	114 ± M	3,430	90.1	9-28-53	—	7¾	N	N	
4.424	Skelly Oil Co.	To	164	—	<139	—	1950	8¾	Ti	In,D	Skelly Eunice Plant 1, well 13. Initial yield, 150 gpm; dropped to 20 gpm.
8.441	Shell Oil Co.	To	168	3,400	60	1953	1956	6¾	Lw	D	
9.313a	Humble Oil Co.	To	166M	3,400	72.7	9-29-53	—	9½	N	N	Humble-J. L. Greenwood well 2.
9.331	do.	To	160	—	—	—	1945	7¾	Te	D	Humble-J. L. Greenwood well 4.
9.333	do.	To	172	—	—	—	1946	4	Te	In	Humble-J. L. Greenwood well 5. Water used for oil well flooding.
22.37.9.441	Humble Oil Co.	To	104 ± M	3,410	85.5	9-29-53	1940	6¾	N	N	Humble-J. L. Greenwood well 1.
10.213	Gulf Oil Corp.	To	220	3,400	100	1950	—	—	Lw	D	Gulf-Brunson lease well.
10.320	Skelly Oil Co.	To	—	3,395	81.0	9-29-53	—	11½	N	N	
11.324	—	Qal	100M	3,350	45.3	10-16-53	1952	5	N	N	
11.444	Leo Sims	Qal	—	3,345	58.7	10-16-53	—	8¾	Lw	S	
12.114	G. Sims	Qal	84M	3,340	53.9	10-14-53	—	7	N	N	
12.443	do.	Qal	59M	3,335	53.9	10-14-53	—	15	N	N	
12.443a	do.	Qal	59M	3,335	53.3	10-14-53	—	—	N	N	Uncased and open.
15.333	H. O. Sims	To	—	3,380	81.0	9-53	—	4¾	Lw	D,S	
16.432	Skelly Oil Co.	To	135	—	—	—	—	7	Ti	In,D	Skelly Eunice Plant 1, well 11. EY 40 gpm.
16.443	do.	To	136	3,385	80.9	9-28-53	1947	8¾	Ti	In,D	Skelly Eunice Plant 1, well 10.
22.37.21.221	—	To(?)	—	3,380	76.5	9-53	—	6¾	N	N	

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 diameter of wells	Method of lift	Use of water	Remarks
					Depth below land surface (feet)	Date measured	Year completed					
21.37.33.210	City of Eunice	Tr	350	3,430	—	1944	—	6	N	N	N	Old public-supply well. WBZ 320-350 feet. Chemical analysis in table 8. EY 10 gpm.
33.211	—	To	103M	3,430	99.6	11-12-53	—	10¾	N	N	N	—
33.233	City of Eunice	To	135	3,435	100	1944	—	8	Te	P	P	City well 1. Perforated 100-130 feet. Chemical analysis in table 8.
35.423	Gulf Oil Corp.	Qal	110	3,375	61	5-17-50	—	10¾	Te	Te	In,D	Gulf Eunice Plant, well 21.
35.442	do.	Qal	87	3,360	59	11-14-51	—	7	Te	Te	In,D	Gulf Eunice Plant, well 17. WBZ sand and gravel, 65-74 feet.
21.37.36.144	P. Wallach	Qal	66±M	3,370	47.8	10- 9-53	—	6	Lw	S	S	—
36.344	do.	Qal	—	3,360	49.8	10- 9-53	—	8¾	Lw	S	S	—
21.38.6.133	Ray McNeil	Qal	90+	3,550	79.4	12- 7-53	—	7	N	N	N	—
6.133a	do.	To	90?	—	—	—	—	—	Lw	—	—	Chemical analysis in table 8.
6.133b	do.	To	108	—	—	—	—	—	N	N	N	do.
8.144	Humble Oil Co.	—	133	3,565	Dry	—	—	—	—	—	—	Plugged and abandoned.
22.33.13.200	San Simon Ranch	Tr	508	3,510	—	—	—	—	Lw	S	S	WBZ 420-470 feet.
22.34.12.111	do.	Qal	62	3,530	48	—	1951	—	Lw	D,S	D,S	—
12.114	do.	Qal	16M	3,515	12.6	3-17-54	—	—	Lw	S	S	Is an infiltration tunnel about 70 feet long and 5 feet in diameter feeding 2 windmills, 1 centrifugal pump and 1 siphon.
22.36.1.333	Gulf Oil Co.	To	150	3,490	111.2	11-12-53	—	—	Li	L	L	Chemical analysis in table 8.
2.444	—	Tr	—	—	—	—	—	—	Lw	S	S	Chemical analysis in table 8.
8.443	United Carbon Co.	Tr	1,000±	3,580	700	—	—	8	Le	In,D	In,D	Three wells. EY 30 gpm each. Chemical analysis in table 8.
11.224	Texas-Pacific Coal and Oil Co.	To	120+	3,500	113.8	11-12-53	—	8	Lw	D	D	Chemical analysis in table 8.
13.222	Ohio Oil Co.	Tr(?)	—	3,455	Flowing	—	—	7	N	N	N	Capped and flowing.
25.434	R. L. Robinson	To	—	3,430	118.5	11-23-53	—	—	Li	S	S	—

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	Depth be-low land surface (feet)					
22.37.21.421	Skelly Oil Co.	To(?)	—	3,360	62.0	9. -53	—	—	4½	N	N	Skelly Eunice Plant 1, well 12. EY 40 gpm.
22.331		To(?)	115±	3,350	69.0	9-29-53	1949	—	—	Ti	In,D	Open and uncased. Dug.
23.233	Leo Sims	Qal	77M	3,345	55.0	10-14-53	—	—	14	N	N	—
23.441	O. I. Boyd	Qal	70±	3,335	55.3	10-12-53	—	—	—	Lw	S	—
23.441a	do.	Qal	70±	3,335	55.2	10-12-53	—	—	7½	N	N	—
24.133a	G. Sims	Qal	127M	3,322	59.3	4-21-55	—	—	10	Li	N	—
24.133b	do.	Qal	80	—	—	—	—	—	—	Lw	N	Chemical analysis in table 8.
25.313	Marshal Drinkard	Qal	69M	3,300	50.1	10-14-53	1945	—	13½	N	N	—
27.334b	Skelly Oil Co.	Qal	127M	3,335	54.4	9. -53	—	—	8½	N	N	Skelly Eunice Plant 1, well 9.
27.410	do.	To?	182	—	—	—	—	—	7	Tc	In,D	EY 25 gpm. Perforations 150-170 feet.
22.37.28.323	Clower Drilling Co.	Qal	—	3,353	66.1	9. -53	—	—	9¼	N	N	—
34.221	Humble Oil Co.	Qal and Tr	229	3,520	—	—	1938	—	—	—	In	WBZ 58-61 feet, 138-146 feet, 185-192 feet. EY 22 gpm.
36.141a	Tom Linebury	Qal	40	3,300	32.2	10-12-54	—	—	—	Lw	S	—
36.141b	do.	Qal	46	3,300	31.1	6-3-55	—	—	6	N	N	—
22.38.18.234	The Texas Co.	Tr	386M	3,360	180	10. -53	1953	—	—	Li	In	WBZ gray sand, 325-380 feet. EY 20 gpm.
19.222	do.	Tr	—	3,365	146.0	10-14-53	—	—	7	N	N	—
23.32.4.222	C. H. and W. O. James	Tr	550	3,630	—	—	1931	—	8	Lw	S	EY 10 gpm.
21.222	Frank and Charles James	Tr	550	3,700	500	—	—	—	8	Li	S	—
23.38.12.322	San Simon Ranch	Tr	400	3,685	—	—	1953	—	—	Lw	S	WBZ 370-400 feet.
23.35.28.334	Brimmistol	Tr	575	3,675	500	—	—	—	—	Lw	D,S	EY 2.5 gpm.
23.34.1.444	San Simon Ranch	Qal	144±M	3,360	137.3	11-25-53	—	—	6	N	N	—
31.340	Continental Oil Co.	Tr	678	3,620	—	—	1953	—	8	Li	In	EY 47 gpm. Chemical analysis in table 8.

GROUND WATER

LEA COUNTY

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23.35.27.444	—	To	—	3,480	117.2	3- -53	—	7	N	N	—	—
23.36.15.414	J. E. Matkins	To(?)	230	3,390	148.4	12- 4-53	—	6	Lw	D,S	—	—
16.343	do.	Tr	1,100	3,465	150	1952	—	—	Lw	S	—	—
22.434	Texas Pacific	To	210 ± M	3,395	188.6	12- 1-53	—	8½	N	N	—	—
	Coal and											
	Oil Co.											
23.111	do.	To	—	3,370	143.6	12- 4-53	—	8	Li	In	—	—
31.233	J. Combass	To	—	—	—	—	—	—	Lw	S	—	—
23.36.35.211	J. Combass	To	170	3,330	123.0	3- -53	—	6½	N	N	—	—
36.341	EPNG	To	250	3,330	124	—	—	10½	Ti	In,D	—	—
36.342	EPNG	To	261	3,330	120	—	1952	—	Ti	In,D	—	—
23.37.2.133	—	To	—	3,304	62.8	10-16-53	—	—	N	N	—	—
2.422	—	Qal	—	3,295	64.1	6- 3-55	—	6	Lw	S	—	—
3.421	H. O. Sims	To	80	3,295	64.1	10-16-53	—	—	Lw	D,S	—	—
4.114	—	To	84-M	3,341	81.8	12- 3-53	—	5½	N	N	—	—
4.211	Skelly Oil Co.	To	226	3,340	—	—	1947	10½	Le	D	—	—
6.144	—	To	—	3,375	102.9	12- 3-53	—	6½	Lw	S	—	—
20.333	Bert Steeler	Qal(?)	177	3,300	117	—	1939	—	Lw	D,S	—	—
25.132	M. L. Goins	To(?)	—	3,215	28.3	10-15-53	—	7	Lw	S	—	—
27.441	—	Qal	—	3,270	78.3	3- 4-53	—	5½	Lw	S	—	—
23.37.31.442	EPNG	To(?)	173	3,300	118	1952	1952	12½	Te	In,D	—	—
32.122	—	To(?)	—	3,300	99.0	7-23-54	—	6	Lw	S	—	—
32.331	EPNG	To(?)	173	3,310	—	—	—	20	Te	In,D	—	—
33.122	—	To(?)	120M	3,310	91.2	3- 4-53	—	9	N	N	—	—
23.38.5.233	Humble Oil Co.	Tr	400M	3,385	189.8	10-15-53	1943	7½	N	N	—	—
8.214	Tom Linebury	Tr	—	3,372	198.3	10-15-53	—	6½	Lw	D,S	—	—
24.32.3.322	Frank James	Tr	550	3,650	—	—	—	10	Lw	D,S	—	—
10.344	do.	Qal	60	3,588	31.1	6- 3-55	1910	6	Lw	S	—	—
33.422	Richard Ritz	Tr	367M	3,510	313.4	2-18-58	—	12	Lw	S	—	—
24.33.10.113	Carl Johnson	Qal	36 ± M	3,595	24.6	11-27-53	—	6½	Lw	S	—	—
24.33.23.311	—	Tr	232M	3,565	208.6	11-27-53	—	9½	N	N	—	—
24.444	—	Qal	—	3,530	16.9	11-27-53	—	5½	Lw	S	—	—
33.231	Carl Johnson	Qal	—	3,460	93.2	3-17-54	—	6	Lw	D,S	—	—
24.34.4.111	—	To	—	3,570	51.3	6- 3-55	—	—	Lw	S	—	—
5.444	—	To	78(?)	3,590	66.6	4-21-55	—	—	Lw	N	—	—
10.112	Madera Ranch	To	83M	3,525	71.8	4-27-53	—	6	N	N	—	—
10.422	do.	To	94M	3,315	63.2	4-27-53	—	7½	N	N	—	—

Chemical analysis in table 8.

Jal Plant 4, well 8.

Jal Plant 4, well 7.

H. O. Sims Camp well 1. EY 10 gpm.

Jal Plant 4, well 4.

Jal Plant 4, well 1. WBZ 115-171 feet.
EY 40 gpm.

W. F. Scarbrough well 1. EY 14 gpm.

Located in sink.
EY 0.25 gpm.

SITE INFORMATION

Type of Report: Work Plan

General Site Information:

Site:	G-28-24-6-3 Pipeline
Company:	Duke Energy Field Services, LP
Section, Township and Range	Section 2, T23S, R36 E
Unit Letter:	D
Lease Number:	-
County:	Lea
GPS:	32° 20' 22.8", 103° 14' 39.3"
Surface Owner:	State of New Mexico
Mineral Owner:	State of New Mexico
Directions:	From Eunice, New Mexico at the intersection of 234 and Main (207), go 4.9 miles south on 207 and turn right (west) on King Road, go 5.7 miles on lease road, turn left (south), go 1.0 miles and turn left (east) and go 1.3 miles to Seven Rivers Queen Satellite, pipeline spill northeast of satellite.

Release Data:

Date Released:	6/30/2005
Type Release:	condensate
Source of Contamination:	Rupture of 4 inch low pressure line
Fluid Released:	8 barrels
Fluids Recovered:	5 barrels

Official Communication:

Name:	Lynn Ward	Ike Tavarez
Company:	Duke Energy Field Services, LP	Highlander Environmental Corp.
Address:	10 Desta Dr. Suite 400-W	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79705	Midland, Texas
Phone number:	(432) 620-4207	(432) 692- 4559
Fax:	(432) 620-4162	
Email:	lcward@duke-energy.com	itavarez@hec-enviro.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	Average Depth >100 BS
Wellhead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	None
Water Source >1,000 ft., Private >200 ft.	0	
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	None
200 ft - 1,000 ft.	10	None
>1,000 ft.	0	
Total Ranking Score:	0	

Acceptable Soil RRAL (mg/kg)

Benzene	Total BTEX	TPH
10	50	5,000

