

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-141  
Revised October 10, 2003

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	COG Operating LLC	Contact	Pat Ellis
Address	500 W. Texas Ave. Ste 1300 Midland, Texas 79701	Telephone No.	432-683-4340
Facility Name	Jalmat Yates Unit #7	Facility Type	Gas Well

Surface Owner	Greg Fulfer	Mineral Owner		Lease No.	301048
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LOCATION OF RELEASE

API 30 025 09747

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	12	25S	36E	990	South	1650	East	Lea

Latitude 32.13752 Longitude 103.21412

NATURE OF RELEASE

Type of Release	produced water	Volume of Release	6 BO, 75 BW	Volume Recovered	1 BO, 5 BW
Source of Release		Date and Hour of Occurrence		Date and Hour of Discovery	
Hole in flow line		9/5/06 time unknown		9/5/06 approx. 3:00 PM	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Left message w/ Hobbs NMOCD		
By Whom?	COG employee Boyd Chesser	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

RECEIVED

Describe Cause of Problem and Remedial Action Taken.\*  
Hole in flow line

APR 03 2008  
HOBBS OCD

Describe Area Affected and Cleanup Action Taken.\*

Leak 1/4 mile SE of flow line. Pick up standing fluids. The spill was assessed and remediated. Part of spill area was excavated and hauled to proper disposal. The remaining areas were tilled to remediate the soils below the RRAL. Confirmation samples were collected from the excavation and remediated areas were below the RRAL. A closure report was submitted to the NMOCD for approval.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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>Pat Ellis</i>	OIL CONSERVATION DIVISION	
Printed Name: Pat Ellis	Approved by District Supervisor <i>[Signature]</i> ENVIRONMENTAL ENGINEER	
Title: <i>EHS Coordinator</i>	Approval Date: <i>4.4.08</i>	Expiration Date: <i>_____</i>
E-mail Address: PEllis@conchoresources.com	Conditions of Approval:	
Date: <i>3-26-08</i>	Phone: <i>432 683-7443</i>	Attached <input type="checkbox"/> <i>IRP-1033</i>

\* Attach Additional Sheets If Necessary

# SITE INFORMATION

## Type of Report: CLOSURE REPORT

1 RP-1033

### General Site Information:

Site:	Jalmat Yates Unit, Well #7
Company:	COG Operating Company
Well Location:	Section 12, T25S, R36E, Unit Letter O
Spill Location:	Section 13, T25S, R36E, Unit Letter A
Lease Number:	301048
County:	Lea
Spill Area GPS:	32.13752, 103.21412°
Surface Owner:	Greg Fulfer
Mineral Owner:	-
Directions:	From Jal, New Mexico, intersection of Hwy.18 and Hwy. 128, go 1.1 miles (west) on 128, turn right (north) into lease road, go north 0.8 miles and turn left (west) and go 0.4 mile pass the Jalmat Yates Tank Battery and turn right (north), go 0.2 miles and spill area is located east and west of lease road.(flowline east of road).

### Release Data:

Date Released:	9/5/2006
Type Release:	produced water and crude oil
Source of Contamination:	Hole in flow line
Fluid Released:	6 bbls oil and 75 bbls of water .
Fluids Recovered:	1 barrel oil and 5 barrels of water

### Official Communication:

Name:	Pat Ellis	Ike Tavaréz
Company:	COG Operating, LLC	Highlander Environmental Corp.
Address:	550 W. Texas Ave. Ste. 1300	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 683-4340	(432) 682- 4559
Fax:	(432) 683-7441	(432) 682- 3946
Email:	PEllis@conchoresources.com	itavarez@hec-enviro.com

### Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	Greater 50'
>100 ft.	0	
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	None
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	None
200 ft - 1,000 ft.	10	None
>1,000 ft.	0	None
Total Ranking Score:	10	

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	1,000

RECEIVED

APR 03 2008

HOBBS OOD



# *Highlander Environmental Corp.*

*Midland, Texas*

March 25, 2008

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

**RE: 1 RP – 1033  
Closure Report  
COG Operating Company LLC, Jalmat Yates Unit Well #7, Unit Letter O,  
Section 12, Township 25 South, Range 36 East, (Flow-line Spill is Located in  
Unit Letter A, Section 13, Township 25 South, Range 36 East), Lea County,  
New Mexico.**

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by COG Operating Company LLC (COG) to assess and to remediate the soil impact from a flow-line spill that occurred at the Jalmat Yates, Well #7, located in Unit Letter O, Section 12, Township 25 South, Range 36 East, Lea County, New Mexico. The flow-line spill is located in Unit Letter A, Section 13, Township 25 South, Range 36 East. The spill site coordinates are N 32.13752°, W 103.21412°. The State of New Mexico C-141 (Initial) is included in Appendix C. The Site is shown on Figure 1.

## **Background**

On September 5, 2006, the spill was discovered from a leaking flow-line, located approximately 1,400' northwest of the COG main tank battery. Approximately 6 barrels of oil and 75 barrels of water were spilled and an estimated 1 barrel of oil and 5 barrels of water were recovered. The surface impacted area measured approximately 1' to 2' wide and extended approximately  $\frac{3}{4}$  mile from the release. The impacted area is further discussed in the Soil Sampling Section of the report. The spill location is shown on Figure 2.

## Groundwater and Regulatory

The spill area is located in Section 13, Township 25 South, Range 36 East. The State of New Mexico Well Reports did not show any water wells in Section 13. However, there were water wells shown in Sections 19 and 20, Township 25 South, Range 37 East with an average groundwater depth of approximately 34' to 44' below surface.

Published data, from the Geology and Groundwater Conditions in Southern Lea County New Mexico, showed wells in Section 15 and 23, Township 25 South, Range 36 East with a reported depth of 120' and 53.7', respectively. In Sections 17, 19 and 20, Township 25 South, Range 37 East, water wells showed average groundwater depths of approximately 62' to 65' below surface. In addition, the USGS data base reported a depth to water at 51' in the southeast quarter of Section 18, Township 25 South, Range 37 East. A monitor well, located in the western edge of Section 18, reportedly had a water level of approximately 63.0' in 2004. Based on the relative elevation of the Site and surrounding wells, the groundwater appears to be greater than 50.0' below surface. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the 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 million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 1,000 mg/kg.

## Previous Assessment

On September 9, 2006, Highlander personnel inspected and sampled the spill area. At the release point, the majority of the surface staining was observed along the flow line measuring approximately 12' x 60'. Samples were not collected due to the dense caliche formation encountered in the shallow soils. To assess the soils, a total of sixteen (16) auger holes were installed in areas where surface staining was observed west of the release.

The spill ran west impacting an area of approximately 350' x 1'. During a heavy rain, the rainwater (runoff) had carried some of the oil across the lease road down an area measuring approximately 800' x 1.0'. The spill then extended down to another lease road. Apparently, some oil was then washed down south 680' along the lease road causing some minor staining. Some staining was also observed west of the lease road in an area measuring 200' x 1'. From this point, small stained areas (spots) and stained



vegetation were noted to the west for approximately 1,000'. The location of the auger holes are shown on Figure 2. The results are summarized in Table 1.

Referring to Table 1, the impacted areas (225' x 1.0'), immediately west of the flow lines, did show TPH and BTEX concentrations above the RRAL in AH-1, AH-2 and AH-3 at 1.0' to 2.0' below surface. The chloride concentrations detected in AH-1 and AH-2 did not show a significant impact to the soils. However, AH-3 did exhibit some increasing chloride concentrations with depth to 1,380 mg/kg at 2.0' below surface.

Auger holes (AH-4 through AH-13) were installed west of the lease road in the area measuring approximately 800' x 1.0'. Only four (4) auger holes (AH-4, AH-5, AH-7 and AH-12) exceeded the RRAL at 0-0.5' for TPH and the deeper samples at 0.5-1.0' were all below the RRAL. The remaining auger holes were all below the RRAL for TPH from 0-0.5' below surface. The chloride concentrations were not significant in these areas ranging from <20 mg/kg to 53.2 mg/kg. In the area measuring 200' x 1.0', auger holes (AH-14, AH-15 and AH-16) were placed and did not show any TPH exceeding the RRAL in the 0-0.5' samples. The chloride concentrations were below the reporting limit of <20 mg/kg.

Based on the results, Highlander submitted a work plan, dated October 3, 2006 to the NMOCD for review.

### **Remediation and Confirmation Sampling**

As proposed, the flow line (release point) and the areas of auger holes (AH-1, AH-2 and AH-3) were excavated and approximately 800 cubic yards of material was hauled to Sundance Services for disposal. The areas of auger holes (AH-4 through AH-16) were tilled to aid the degradation of the surface impact. In addition, any other impacted areas found west of the auger holes were remediated.

The excavated area at the release point measured approximately 15' x 80' at depths ranging from 4.0' to 14.0' below surface. As shown on Figure 3, sidewall and bottom hole confirmation samples were collected from the excavated areas and are summarized in Table 2. In addition, the areas of AH-1, AH-2 and AH-3 were also excavated to depths of 2.0' to 4.0' below surface and the material hauled to disposal. The excavation of this area is shown on Figure 4. The remaining runoff areas were tilled and fertilized. Confirmation samples collected from these areas SS-4, (AH-4), SS-5 (AH-5) and SS-7 (AH-7) are summarized in Table 3.

Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. All samples were collected and preserved in laboratory prepared sample containers, shipped under proper chain-of-custody control, and analyzed within the standard holding times. The sample results are presented in Tables 2 and 3. The laboratory reports are included in Appendix B.

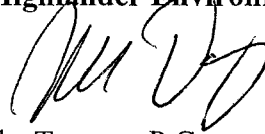


## Soil Sample Results and Conclusion

Referring to Table 2, the confirmation samples showed no TPH and BTEX concentrations above the RRAL. The chloride concentrations detected in the bottom hole samples ranged from 12.8 mg/kg to 774 mg/kg. However, the chloride levels decreased with depth and do not appear to an imminent threat to groundwater.

Based upon the results of the assessment, COG requests closure of this spill issue. The State of New Mexico C-141 (Final) is included in Appendix C. If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

**Highlander Environmental Corp.**

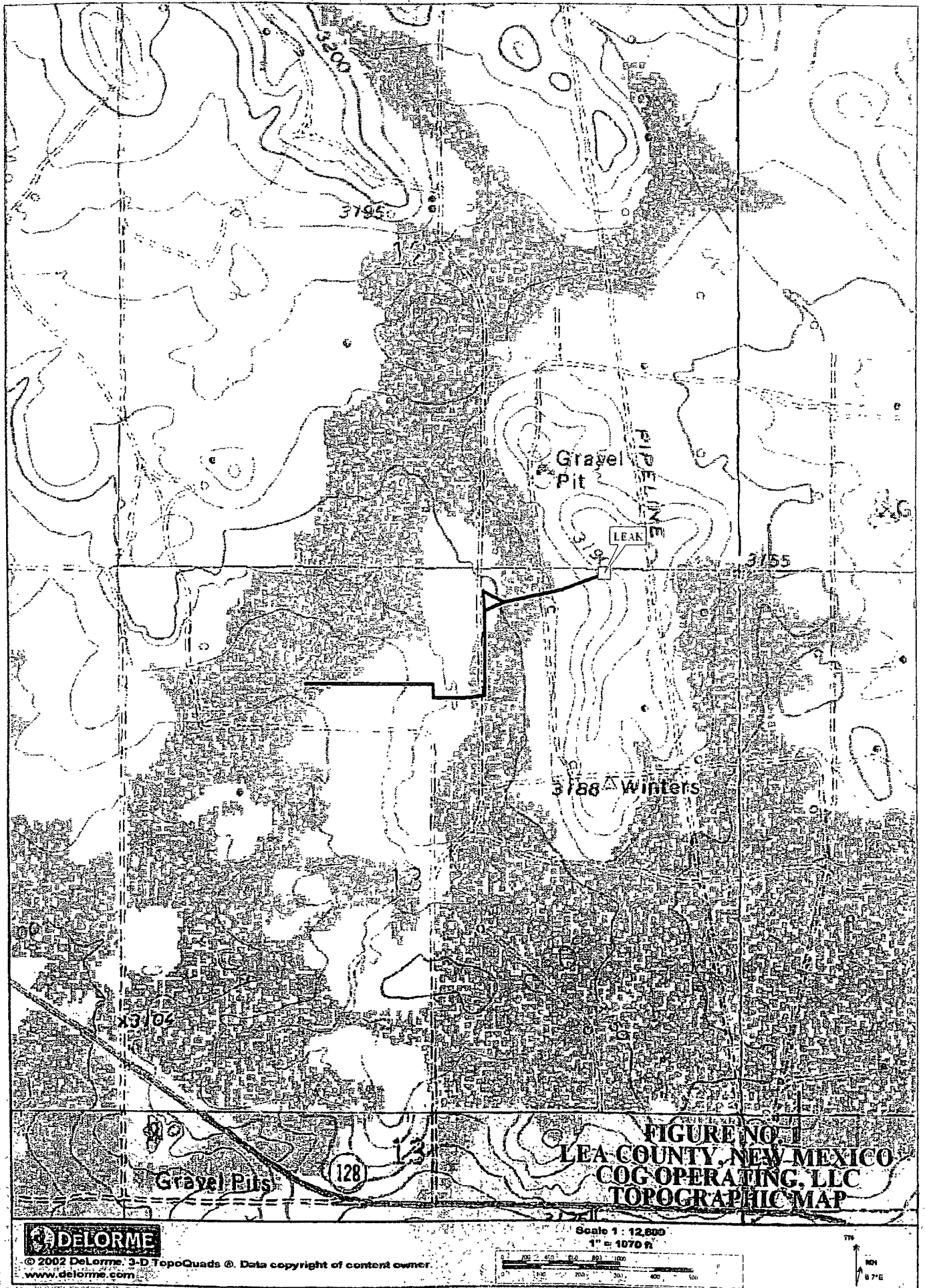


Ike Tavarez, P.G.  
Project Manager/Senior Geologist

cc: COG – Pat Ellis



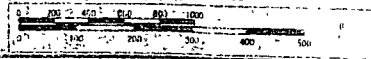
## FIGURES

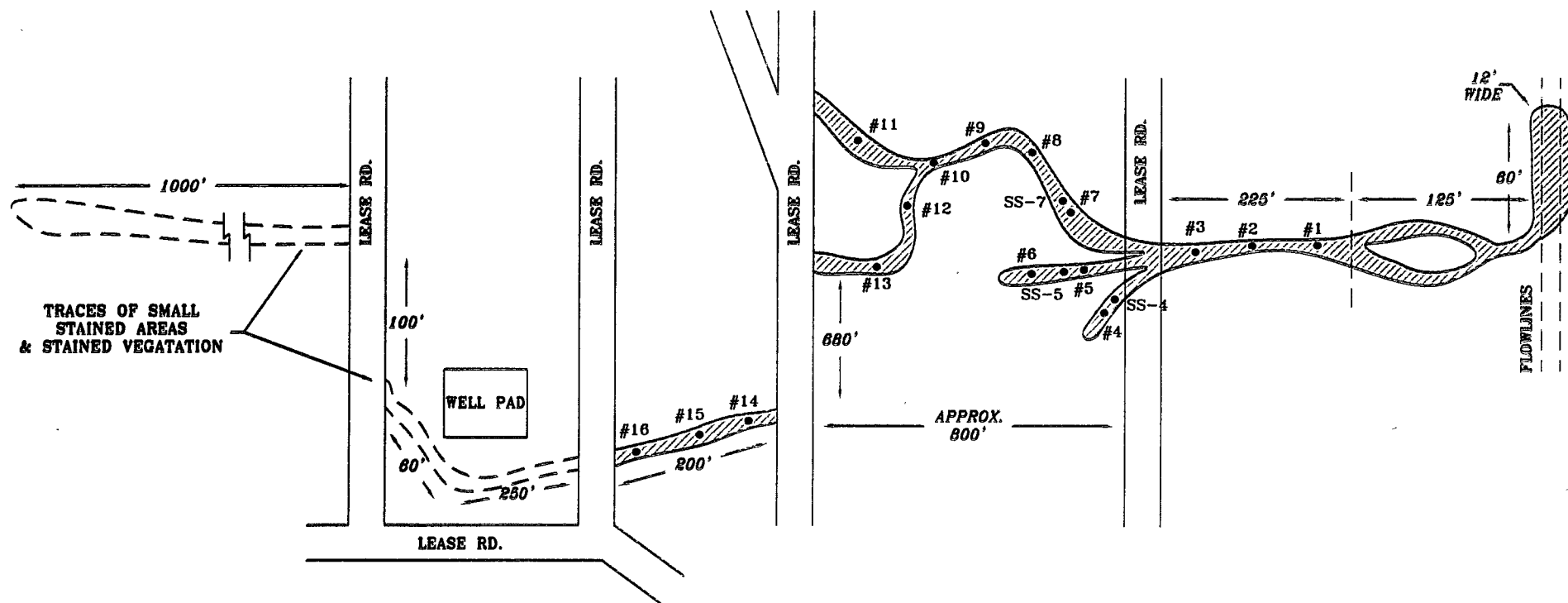


**DELORME**

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www.delorme.com

Scale 1 : 12,800  
1" = 1070 ft





- ▨ SPILL AREA
- SAMPLE LOCATIONS

NOT TO SCALE

FIGURE NO. 2

LEA COUNTY, NEW MEXICO

COG OPERATING, LLC  
JALMAT #7  
ASSESSMENT SAMPLING

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

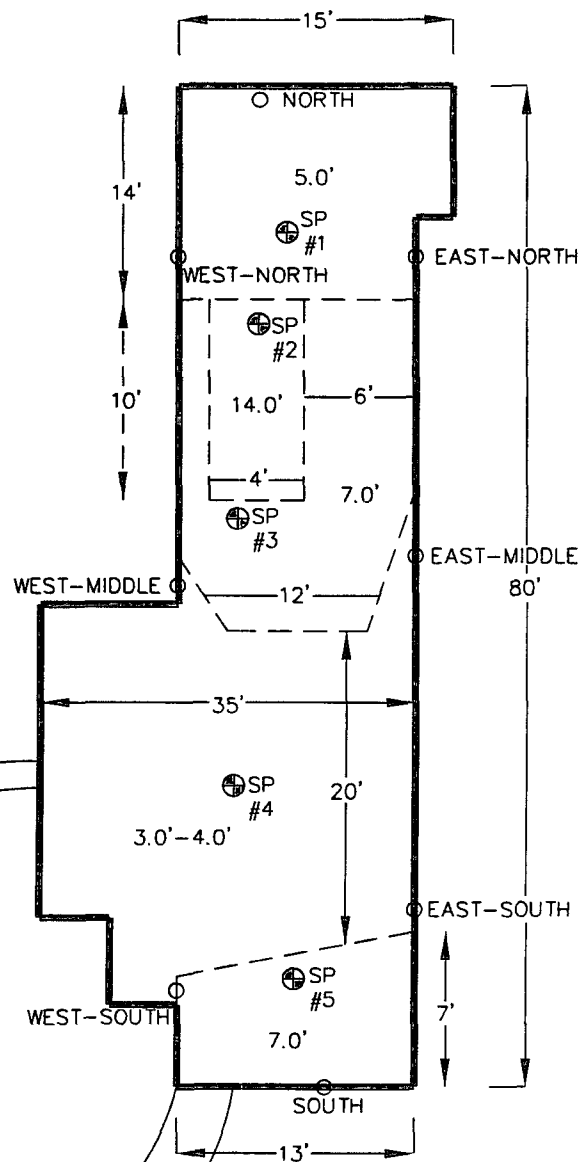
DATE:  
3/24/08  
DWN. BY:  
JJ  
FILE:  
C:\C001\2737  
JALMAT #7

PASTURE

PASTURE

TRENCH

TRENCH



- SIDE WALL SAMPLES
- ⊕ CONFIRMATION SAMPLES (BOTTOM HOLE)

NOT TO SCALE

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

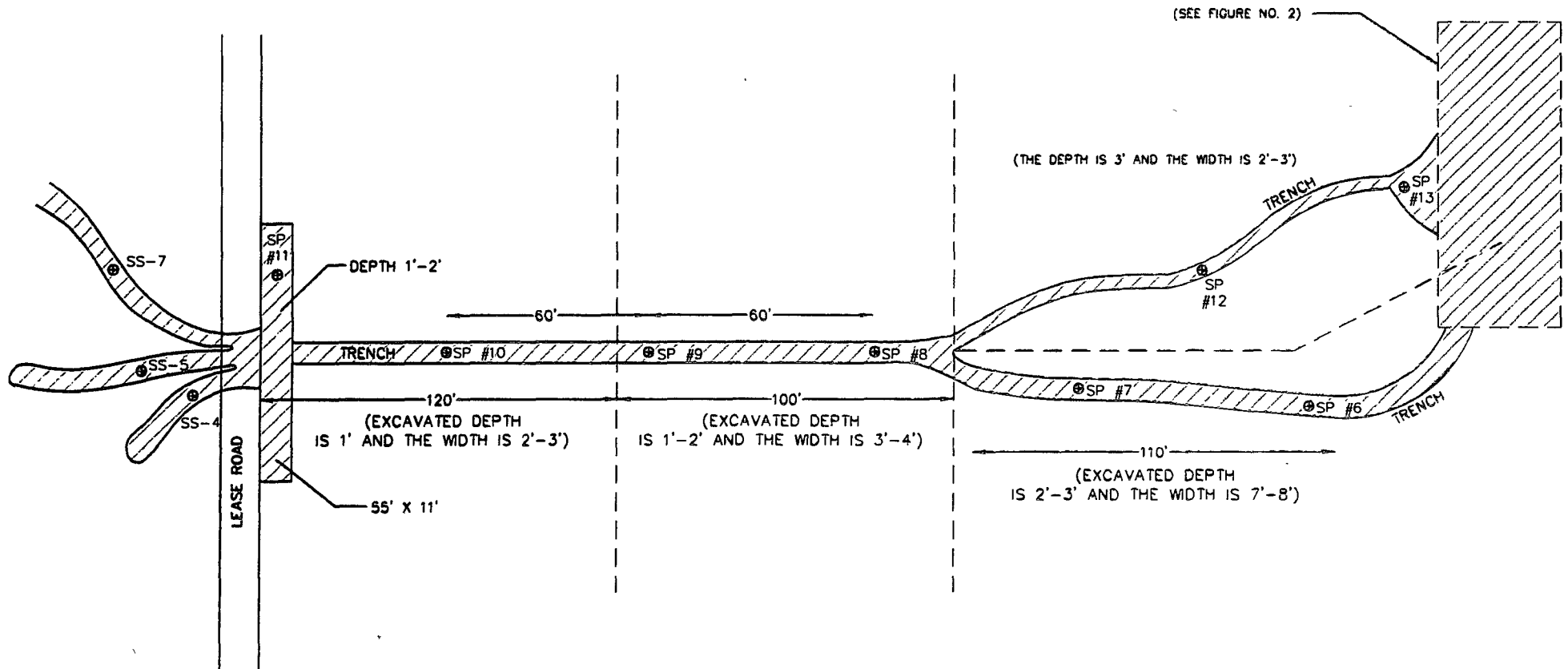
COG OPERATING, LLC  
JALMAT #7  
CONFIRMATION SAMPLING

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE:  
3/24/08  
OWN. BY  
RC  
FILE:  
C:\COG\2737  
JALMAT #7



PASTURE



⊕ SP- CONFIRMATION SAMPLE

NOT TO SCALE

DATE:  
3/24/08  
DWN. BY:  
RC  
FILE:  
C:\COG\2737  
JALMAT #7

FIGURE NO. 4

LEA COUNTY, NEW MEXICO

COG OPERATING, LLC  
JALMAT #7  
CONFIRMATION SAMPLING

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

## TABLES

**Table 1**  
**COG Operating**  
**JalMat Well #7 - Flowline Leak**  
**Lea County, New Mexico**

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C35	Total					
AH-1	9/18/2006		X	0-1.0'	7640	23680	31300	0.413	11.4	23.9	72.3	383
AH-1	9/18/2006		X	1.0'-1.5'	3640	11423	15100	0.0723	3.67	11.5	35.2	351
AH-1	9/18/2006		X	2.0'-2.5'	<10.0	179.0	179	<0.025	<0.025	<0.025	<0.025	128
AH-2	9/18/2006		X	0-1.0'	4570	13260	17800	0.0469	1.59	3.86	12.09	106
AH-2	9/18/2006		X	1.0'-1.5'	10.9	107.3	118	-	-	-	-	<20
AH-2	9/18/2006		X	2.0'-2.5'	13.3	134.5	148	-	-	-	-	<20
AH-3	9/18/2006		X	0-1.0'	3970	13828	17800	0.0215	1.52	5.42	14.1	638
AH-3	9/18/2006		X	1.0'-1.5'	<10.0	20.6	20.6	-	-	-	-	830
AH-3	9/18/2006		X	2.0'-2.5'	<10.0	<10.0	<10.0	-	-	-	-	1,380
AH-4	9/18/2006			0-0.5'	32.8	1115	1150	<0.025	<0.025	<0.025	<0.025	<20
AH-4	9/18/2006			0.5'-1.0'	<10.0	18.2	18.2	-	-	-	-	<20
AH-5	9/18/2006	X		0-0.5'	160	1476	1640	<0.025	<0.025	0.0262	0.123	21.3
AH-5	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	-	53.2
AH-6	9/18/2006	X		0-0.5'	58.6	776.5	835	<0.025	<0.025	<0.025	<0.025	21.3
AH-6	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	21.3
AH-7	9/18/2006	X		0-0.5'	472	3118	3590	-	-	-	-	21.3
AH-7	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	-	21.3
AH-8	9/18/2006	X		0-0.5'	<10.0	34.2	34.2	-	-	-	-	<20
AH-8	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20

( - ) Not Analyzed

**Table 1**  
**COG Operating**  
**JalMat #7 Well Flowline Leak**  
**Lea County, NM**

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C35	Total					
AH-9	9/18/2006	X		0-0.5'	<10.0	<10.0	<10.0	-	-	-	-	<20
AH-9	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-10	9/18/2006	X		0-0.5'	<10.0	48.3	48.3	-	-	-	-	<20
AH-10	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-11	9/18/2006	X		0-0.5'	<10.0	272	272	-	-	-	-	<20
AH-11	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-12	9/18/2006	X		0-0.5'	<10.0	1214	1210	-	-	-	-	<20
AH-12	9/18/2006			0.5'-1.0'	<10.0	<10.0	<10.0	-	-	-	-	<20
AH-13	9/18/2006	X		0-0.5'	<10.0	58.6	58.6	-	-	-	-	<20
AH-13	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-14	9/18/2006	X		0-0.5'	<10.0	124	124	-	-	-	-	<20
AH-14	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-15	9/18/2006	X		0-0.5'	27.5	501.5	529	-	-	-	-	<20
AH-15	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20
AH-16	9/18/2006	X		0-0.5'	27.4	797	824	-	-	-	-	<20
AH-16	9/18/2006			0.5'-1.0'	-	-	-	-	-	-	-	<20

( - ) Not Analyzed

**Table 2**  
**COG Operating**  
**JalMat Well #7 - Flowline Leak**  
**Confirmation Sampling**  
**Lea County, New Mexico**

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C28	C28-C35	Total					
SP #1	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	12.8
SP #2	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	608
SP #2	10/30/2006	X		1-1.5'	-	-	-	-	-	-	-	-	553
SP #2	2/28/2007	X		2'-2.5	-	-	-	-	-	-	-	-	189
SP #3	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	124
SP #4	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	589
SP #4	10/30/2006	X		1-1.5'									214
SP #5	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	701
SP #5	10/30/2006	X		1-1.5'	-	-	-	-	-	-	-	-	514
SP #5	2/28/2007	X		2'-2.5'	-	-	-	-	-	-	-	-	243
SP- West Wall (North)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	-	-	8.07
SP- West Wall (South)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	-	-	143
SP- West Wall (Middle)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	78.8
SP- East Wall (North)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	-	-	287
SP- East Wall (South)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	-	-	-	-	<5.00
SP- East Wall (Middle)	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	22.6
SP- North Wall	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	5.4
SP- South Wall	10/30/2006	X		-	<10.0	<10.0	<10.0	<10.0	<0.0250	<0.0250	<0.0250	<0.0250	<5.00

( - ) Not Analyzed    Depth - BEB (below excavation bottom)

**Table 3**  
**COG Operating**  
**JalMat Well #7 - Flowline Leak**  
**Confirmation Sampling**  
**Lea County, New Mexico**

Sample ID	Date Sampled	Soil Status		Sample Depth (BEB)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		Insitu	Removed		C6-C12	C12-C28	C28-C35	Total					
SP #6	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	760
SP #6	8/14/2007	X		2'-2.5'	-	-	-	-	-	-	-	-	53.2
SP #7	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	609
SP #7	8/14/2007	X		2'-2.5'	-	-	-	-	-	-	-	-	85.1
SP #8	10/30/2006	X		0-1.0'	<10.0	28.4	<10.0	28.4	<0.0250	<0.0250	<0.0250	<0.0250	161
SP #9	10/30/2006	X		0-1.0'	<10.0	85.7	<10.0	85.7	<0.0250	<0.0250	<0.0250	<0.0250	214
SP #10	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	455
SP #10	8/14/2007	X		2'-2.5'	-	-	-	-	-	-	-	-	85.1
SP #11	10/30/2006	X		0-1.0'	<10.0	37.2	<10.0	37.2	<0.0250	<0.0250	<0.0250	<0.0250	10.7
SP #12	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	724
SP #12	10/30/2006	X		1-1.5'	-	-	-	-	-	-	-	-	664
SP #12	2/28/2007	X		2'-2.5'	-	-	-	-	-	-	-	-	228
SP #13	10/30/2006	X		0-1.0'	<10.0	<10.0	<10.0	<10.0	-	-	-	-	9.8
SS #4 (AH-4)	10/26/2006	X		0-1.0'	35.5	270	25.9	331	-	-	-	-	-
SS #5 (AH-5)	10/26/2006		X	0-1.0'	268	2920	142	3,330	-	-	-	-	-
SS #5 (AH-5)	2/28/2007	X		0-1.0'	24.8	632	75.5	733	-	-	-	-	-
SS #7 (AH-7)	10/26/2006		X	0-1.0'	15.8	928	74.5	1,020	-	-	-	-	-
SS #7 (AH-7)	2/28/2007	X		0-1.0'	7.29	313	49.5	369.79	-	-	-	-	-

APPENDIX A

Water Well Data  
Average Depth to Groundwater (ft)  
COG Operating - Jalmat Yates Unit # 7

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

25 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

25 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

25 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

26 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

26 South      36 East

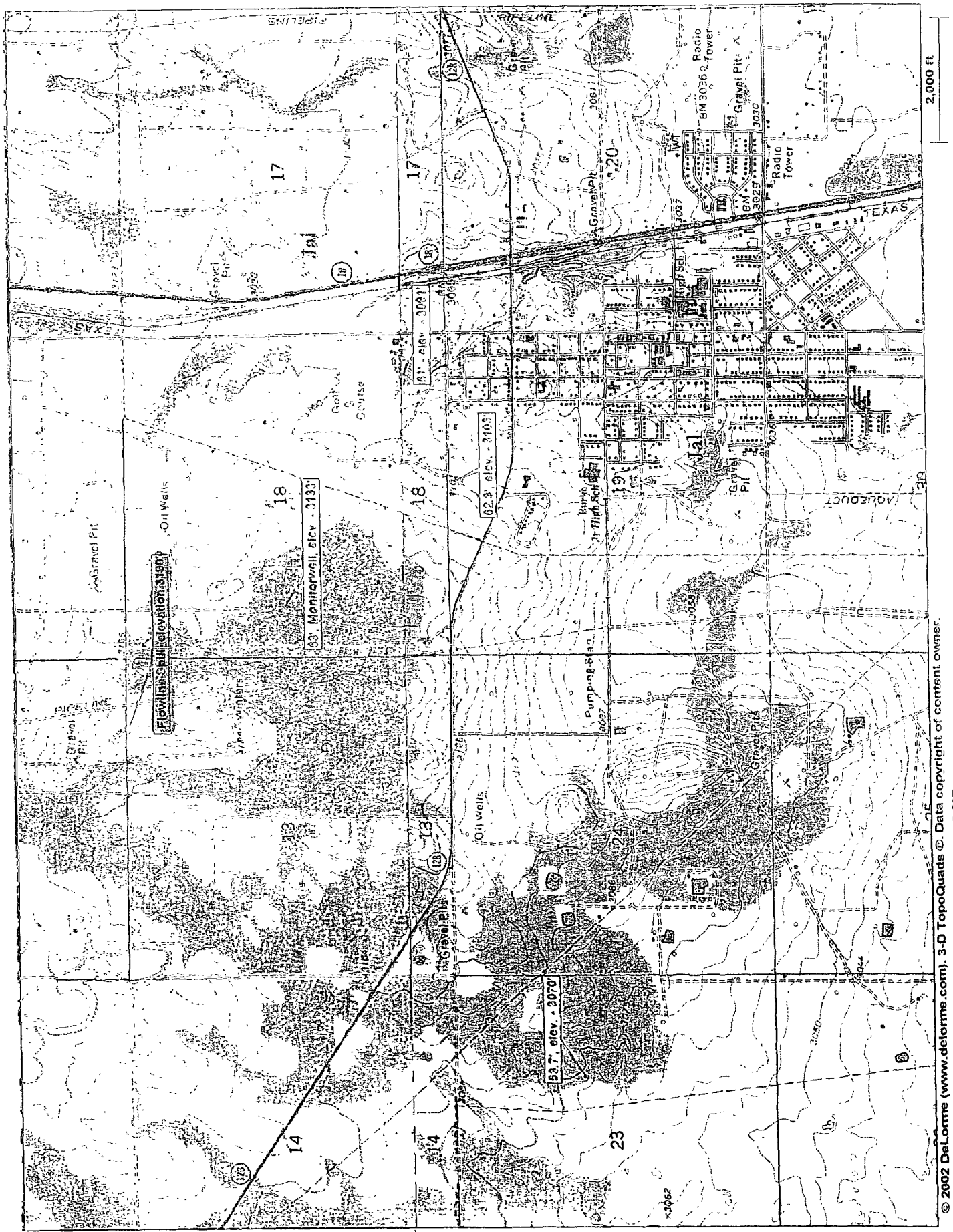
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 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

- 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)





RATTLESNAK

T. 24 S.

T. 25 S.

T. 26 S.

10'

32°00'

R. 36 E.

R. 37 E.

R. 38 E.

103°10'

WINKLER COUNTY

Compiled by Alfred Clebsch, Jr.,

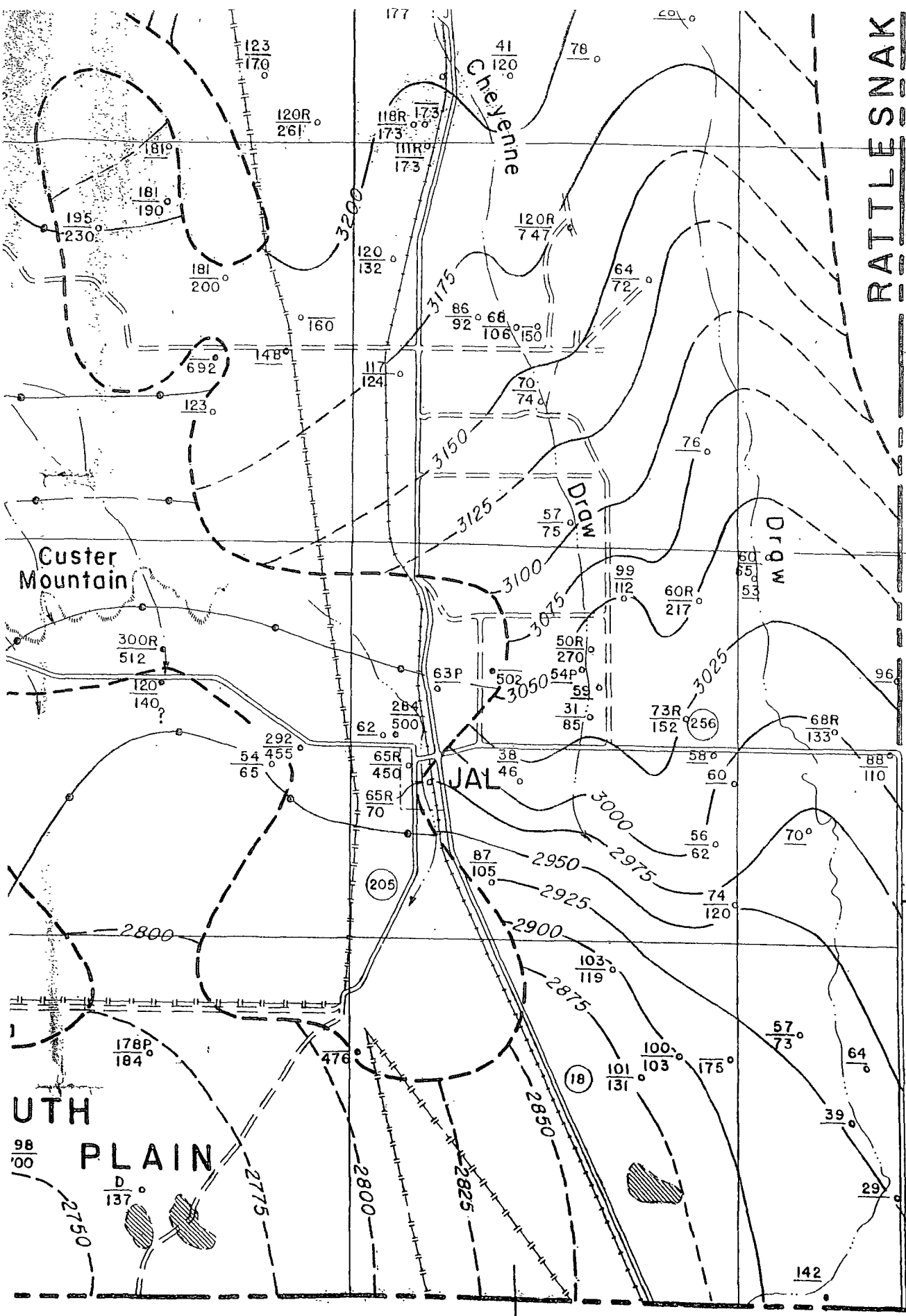


TABLE 6 RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

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Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level		Year completed	Surface diam. of wells	Method of lift	Use of water	Remarks
					Depth below land surface (feet)	Date measured					
24.36.35.222	do	Tr	250M	3,600	229.9	3-29-53	—	6	Lw	S	—
24.36.30.340	do	Tr	450 ± M	3,320	199.6	11-27-53	—	6	Lw	S	—
24.36.3.000	—	To	—	3,600	160.1	5-12-53	—	7½	N	N	—
9.333	Charles Whittem	To(?)	390 ± M	3,390	198.1	3-12-53	—	11½	N	N	—
9.333	do	To	230	3,395	195.0	5-6-53	1948	7	N	N	—
19.511	Humble Oil Co.	To	160	—	—	—	1941	—	—	—	WBZ sand, 138-158 feet. EY 10 gpm
24.36.15.222	Canmer Oil Co.	To	200	3,370	196.5	5-12-53	1957	7	Lw	D	—
22.220	Continental Oil Co.	Tr	692	3,360	—	—	—	8½	Li	D	A. H. Meyers "A" well 1. Intake set at about 475 feet. Maximum yield 6 gpm.
23.222	—	To	—	3,345	147.9	3-6-53	—	6½	Lw	I	Measurement made inside pipe column.
27.221	J. R. Wilson	To	—	3,320	122.9	3-6-53	—	10	N	N	—
24.37.5.111	EPNG	To	173	3,275	111	9-8-52	1952	10½	Te	In,D	Jal Plant 4, well 6.
7.434	Fowler Hair	To	192M	3,300	119.9	3-6-53	—	6½	N	N	—
10.123	Feany Produc-	Tr	717	3,260	120	2-53	1953	—	Li	In	EY 42 gpm. Chemical analysis in table 8.
16.211	Fowler Hair	To(?)	72M	3,205	64.5	3-5-53	—	5	N	N	—
24.37.15.342	—	To	106M	3,255	67.7	3-11-53	—	9	N	N	—
16.423	Humble Oil Co.	To	150	3,240	—	—	1951	6¾	Te	D	Fowler-Elzenburger Camp well 1. WBZ 90-150 feet
17.422	Fowler Hair	To	92M	3,260	66.5	3-6-53	—	7½	N	N	—
19.254	—	To	126M	3,290	117.4	3-5-53	—	10	Lw	S	—
21.444	Bolterhide Water Co.	To	76M	3,240	69.6	3-2-53	—	7½	N	N	—
25.322	Fowler Hair	To	—	3,336	76.1	3-3-53	—	6½	Lw	D,S	—
34.320	Plains Produc-	To	75 ± M	3,460	56.8	3-2-53	—	12	N	N	—
25.33.20.413	—	Tr	—	3,395	208-250	8-16-58	—	6	Lw	D,S	—
51.244	Nack Ritz	Tr	320	3,400	257.5	7-26-54	—	8	Lw	S	—
25.34.1.452	Madern Ranch	Tr	900+	3,305	231.0	4-15-53	—	6	N	N	—

NEW MEXICO BUREAU OF MINES &amp; MINERAL RESOURCES

25.34.15.242	—	Tr	168	3,335	161.9	7-25-54	—	10	Lw	S	—
25.35.10.225	Georgis Bryant	To	85M	3,160	76.9	4-2-53	—	9	Lw	S	—
21.122	—	Tr	—	3,250	175.5	4-2-53	—	8½	N	N	—
25.36.10.515	W. D. Dinwiddie	Tr	512	3,150	300	—	—	—	Lw	S	—
15.111	do	Tr(?)	110	3,125	120.2	5-55	1951	—	N	N	—
25.254	—	Qal	65M	3,070	35.7	3-10-55	—	6½	Lw	S	—
26.112	Humble Oil Co.	Tr	155	3,115	292.4	4-15-53	—	—	N	N	—
25.37.1.340	Pace Oil Co.	To	217	3,400	60	—	—	20	Te	In,D	—
2.352	Richmond Drill-	To	112M	3,110	98.8	3-29-53	—	7	Lw	D	—
2.535	Standard Oil Co.	Tr	502	3,110	—	—	1958	—	Lw	D	WBZ 470-502 feet.
10.412	EPNG	To	270	3,120	50	12-20-49	1949	12	Te	In,D	Jal Plant 3, well 2.
10.431	M. B. Owens	To	—	3,100	54.5	2-26-53	—	7½	Lw	S	MWP
15.512a	City of Jal	To	152	3,080	73	6-56	1954	12	Te	P	New city well. EY 750 gpm. Chemical analysis in table 8.
25.37.15.221	J. M. Owens	To	—	3,160	59.2	2-26-55	—	—	Ti	In	EY 30 gpm. PR.
15.225	Sun Oil Co.	To	—	3,090	—	—	—	—	Lw	D	Chemical analysis in table 8.
15.411	—	Qal	85M	3,070	31.1	2-26-55	—	6½	N	N	—
17.111	—	Qal	—	3,165	62.6	3-5-53	—	—	Lw	S	MWP
19.211	—	To	—	3,068	62.3	5-30-55	—	6	Je	D	—
19.221	City of Jal	Tr	500	3,110	204.0	11-11-54	1948	10	N	N	Chemical analysis in table 8.
19.240	do.	Tr	450	3,040	65	1942	—	—	—	—	Old public-supply well. WBZ 70-450 feet. EY (1942) 50 gpm. Chemical analysis in table 8.
20.510	do.	Qal	70	3,035	65	1-18-42	—	6×6 ft.	—	—	Dug. WBZ "clayey sand" 65-70 feet. EY 50 gpm. Chemical analysis in table 8.
25.37.20.415	EPNG	Tr	119	—	—	—	—	10½	Je	In,D	Jal General Camp well 1.
21.411	G. B. Haddock	To	46M	3,050	58.2	2-12-53	—	6	Lw	S	EY 1 gpm.
24.211	—	To	—	3,071	58.4	2-12-53	—	6	N	N	—
24.422	—	To	—	3,050	60.2	2-12-53	—	8	N	N	—
25.411	—	To	62M	3,055	56.4	2-12-53	—	6	N	N	—
53.111	Olson Oil Co.	Qal	105	3,000	67.4	2-16-53	—	12	N	N	—
56.244	—	To	120	3,035	74.2	2-15-53	—	10	N	N	—
25.38.6.122	Fowler Hair	To	65M	3,100	60.5	3-3-53	—	6½	Lw	S	—
6.154	—	To	—	3,095	59.1	2-25-53	—	5	N	N	Cased shothole.
9.545	—	To	—	3,230	95.7	2-25-53	—	6½	Lw	D,S	EY 30 gpm.

GROUND WATER

LEA COUNTY

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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		Date measured	Year completed	Surface diameter of wells	Method of lift	Use of water	Remarks
					Depth below land surface (feet)							
25.38 19.342	Pure Oil Co.	To(?)	133	3,061	68		1952	—	—	—	In	Dollarhide Gasoline Plant well 2
21.121	Tom Linebury	To	110	3,103	87.7		2-12-53	—	7	Lw	S	—
29.131	—	Qal	—	3,040	69.9		2-15-53	—	6	Lw	N	—
26.32.21.322	Battle Ax Ranch	Tr(?)	253	3,140	180		7-23-54	—	—	Li	D,S	—
26.33.3.444	W. D. Dinwiddie	Qal	180	3,315	102.8		7-23-54	—	6	N	N	—
3.444a	do.	Qal	—	3,315	—		—	—	6(?)	Lw	S	Chemical analysis in table 8. Located 50 feet west of 26.33.3.444.
9.443	—	Qal(?)	—	3,280	106.6		7-26-54	—	—	Lw	S	—
22.433	Battle Ax Ranch	Qal	200(?)	3,270	79.7		7-26-54	—	6	Lw	S	—
26.34.6.213	—	Tr	360	3,330	141.9		7-23-54	—	8	Lw	S	—
26.35.13.222	—	Qal	—	2,990	229.1		12-12-58	—	7	Lw	S	Chemical analysis in table 8
26.36.9.440	Frank Anthneys	Qal	184M	2,940	177.8		12-12-58	—	7	Lw	D,S	MWP
18.311	City of Jal	Qal	559	2,981	220.8		3-17-60	1960	24	Te(?)	P	Yield 453 gpm. Gravel packed. WBZ 275-300, 400-465, 500-530 feet
19.233	do	Qal	700	2,950	198.0		—	1960	24	Te(?)	P	Yield 408 gpm. Gravel packed. WBZ 270-280, 400-480, 550-600, 670-680 feet
21.443	—	—	137(?)	2,900	Dry		12-11-58	—	11	N	N	—
26.37.2.133	Clyde Cooper	Qal(?)	119	3,000	103.4		2-16-53	1937	8	Lw	S	—
7.331	EPNG	Tr	476	2,960	—		—	1937	8½	Te	In,D	Jal Plant 1, well 1.
12.314	—	Qal	—	3,010	102.3		2-16-53	—	9½	N	N	—
12.331	—	Qal	103 ± M	3,000	99.9		2-17-53	—	3	N	N	Cased shothole
12.441	Humble Oil Co	Qal	175	—	—		—	1944	—	—	—	WBZ 125-150 feet. EY 68 gpm.
14.122	—	Qal	131M	2,985	100.6		2-17-53	—	3	N	N	Cased shothole.
26.38.7.244	Tom Linebury	Qal	73	3,000	57.1		2-24-53	—	8½	N	N	—
8.444	do.	Qal	66	3,000	64.5		2-24-53	—	6½	Lw	S	—
17.414	do.	Qal	—	2,975	39.4		2-24-53	—	5½	Lw	S	—
21.344	do	Qal	—	2,955	29.0		2-13-53	—	3	N	N	Cased shothole
32.141	do	Tr(?)	—	2,950	142.4		2-13-53	—	26	N	N	—

TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX.

Explanations of symbols are included in the headnotes of Table 6.

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level		Date measured	Year completed	Surface diam-eter of wells	Method of lift	Use of water	Remarks
					Depth be-low land surface (feet)							
Gaines County Tex.												
A-12.25.341	—	To	50(?)	3,545	40.8	12- 9-53	—	6	Lw	N		—
A-28.3.413	Greenwood	—	—	3,485	35.1	12- 9-53	—	—	Lw	S		—
Andrews County, Tex.												
A-29.17.320	H. O. Sims	To(?)	82	3,510	79.4	7-28-40	—	—	Lw	S		—
A-39.4.420	do.	To	81	3,478	72.4	10- 9-53	—	6½	Lw	S		—
A-39.14.111	Humble Oil Co.	—	215	3,410	Dry	—	—	—	—	—		—
A-40.16.330	M. L. Goins	To	80	3,305	74.1	10-15-53	—	—	Lw	D,S		—
Winkler County, Tex.												
C-22.6	Tom Linebury	Qal	—	2,940	45.0	2-13-53	—	6	N	N		—

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Township: 25S Range: 35E 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

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	25S	35E	05				1	165	165	165
C	25S	35E	18				1	230	230	230
C	25S	35E	21				2	205	230	218

Record Count: 4

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NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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Avg Depth to Water Report

Water Column Report

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
-----	-----	-----	-----	------	---	---	-------	-----	-----	-----

(Depth Water in Feet)

No Records found, try again

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NAD27 X: Y: Zone: ☐ Search Radius:

County: ☐ Basin: ☐ Number: Suffix:

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

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	25S	37E	19				9	27	63	44
CP	25S	37E	20				6	23	60	34
CP	25S	37E	29				5	187	250	219
CP	25S	37E	35				1	185	185	185

Record Count: 21

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NAD27   X:                      Y:                      Zone:                      Search Radius:

County:                      Basin:                      Number:                      Suffix:

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

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Avg Depth to Water Report

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POD / SURFACE DATA REPORT    03/08/2006

DB File Nbr	Use	Diversion	Owner	POD Number
CP 00120	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00120
CP 00121	COM	15.6	CHAPARRAL SERVICES, INC.	CP 00121
CP 00124	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00124
CP 00211	DOM	0	J. M. OWEN	CP 00211 DCL
CP 00216	DOM	0	J. M. OWEN	CP 00216 DCL
CP 00217	DOM	0	J. M. OWEN	CP 00217 DCL
CP 00219	DOM	0	J. M. OWEN	CP 00219 DCL
CP 00299	DOM	0	J. J. SMITH	CP 00299 DCL
CP 00300	STK	0	J. J. SMITH	CP 00300 DCL
CP 00387	DOM	3	PAUL S. BALLINGER	CP 00387 1
				CP 00387 REPAR 1
				CP 00387 REPAR 2
				CP 00388 EXP
CP 00388	DOM	0	JAKE MC KOWEN .	CP 00425
CP 00425	COM	70	PAUL PRATHER P AND S BRINE SAL	CP 00428
CP 00428	DOM	3	ANNICE KATHLEEN BUTTER	CP 00429
CP 00429	DOM	3	HOMER E. MOLDER	CP 00444
CP 00444	DOM	3	D. C. BUFFINGTON	CP 00460
CP 00460	DOM	3	E. W. RUSCHE	CP 00461 DCL
CP 00461	DOM	0	GOERGE L. BUCKLES COMPANY	CP 00487
CP 00487	DOM	3	L. L. REED	CP 00506
CP 00506	DOM	3	CHARLES D. TAFF	CP 00507
CP 00507	SAN	3	UNION TEX PETE CO.	CP 00515
CP 00515	DOM	3	JOHN SHROYER	CP 00518 EXP
CP 00518	DOM	0	V.B. BROCK	CP 00526 EXP
CP 00526	DOM	0	A.D. KEMP	CP 00533
CP 00533	DOM	3	A.D. KEMP	CP 00534
CP 00534	DOM	3	DAN COX	CP 00541
CP 00541	DOM	3	BILLY W. MOSLEY	CP 00557
CP 00557	DOM	3	LUCILLE BOCK WEBB	CP 00565
CP 00565	DOM	3	SAM R. BEAIRD	CP 00607
CP 00607	DOM	3	RAYMOND F. GRAY	

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NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic  
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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	24S	35E	10				1	300	300	300

Record Count: 1

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NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	24S	36E	04				3	155	178	165
CP	24S	36E	15				2	173	450	312
CP	24S	36E	20				1	97	97	97
CP	24S	36E	23				1	160	160	160
CP	24S	36E	33				1	53	53	53

Record Count: 8

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POD Reports and Downloads

Township: 24S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	24S	37E	05				1	106	106	106
CP	24S	37E	08				1	90	90	90
CP	24S	37E	23				1	94	94	94
CP	24S	37E	24				1	100	100	100
CP	24S	37E	25				1	90	90	90
CP	24S	37E	28				1	70	70	70

Record Count: 6

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

Township: 26S Range: 35E 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

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

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

Township: 26S 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 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
-----	-----	-----	-----	------	---	---	-------	-----	-----	-----

(Depth Water in Feet)

No Records found, try again

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

Township: 26S Range: 37E 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

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AVERAGE DEPTH OF WATER REPORT 03/08/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
-----	-----	-----	-----	------	---	---	-------	-----	-----	-----

(Depth Water in Feet)

No Records found, try again

CP 00460	DOM	3	E. W. RUSCHE	CP 00460	Shallow	25S	37E 19	2 1 3
CP 00461	DOM	0	GOERGE L. BUCKLES COMPANY	CP 00461 DCL		25S	37E 10	4 3 2
CP 00487	DOM	3	L. L. REED	CP 00487	Shallow	25S	37E 29	1 2
CP 00506	DOM	3	CHARLES D. TAFF	CP 00506		25S	37E 29	2
CP 00507	SAN	3	UNION TEX PETE CO.	CP 00507		25S	37E 05	4 2
CP 00515	DOM	3	JOHN SHROYER	CP 00515	Shallow	25S	37E 19	2 4 3
CP 00518	DOM	0	V.B. BROCK	CP 00518 EXP		25S	37E 19	1 2 4
CP 00526	DOM	0	A.D. KEMP	CP 00526 EXP		25S	37E 19	1 4 4
CP 00533	DOM	3	A.D. KEMP	CP 00533	Shallow	25S	37E 19	1 4 4
CP 00534	DOM	3	DAN COX	CP 00534	Shallow	25S	37E 19	2 4 1
CP 00541	DOM	3	BILLY W. MOSLEY	CP 00541	Shallow	25S	37E 19	2 2 4
CP 00557	DOM	3	LUCILLE BOCK WEBB	CP 00557	Shallow	25S	37E 20	3 3 3
CP 00565	DOM	3	SAM R. BEAIRD	CP 00565		25S	37E 19	1 2 3
CP 00607	DOM	3	RAYMOND F. GRAY	CP 00607	Shallow	25S	37E 19	1 2 2
CP 00608	DOM	3	FLOYD MCCUNE MATHIS	CP 00608		25S	37E 19	1 1 1
CP 00619	DOM	3	JOHN T. SWINFORD	CP 00619	Shallow	25S	37E 20	3 1
CP 00620	DOM	3	D. E. BAILEY	CP 00620	Shallow	25S	37E 20	1 3 3
CP 00638	DOM	3	DONALD R. TRICE	CP 00638	Shallow	25S	37E 29	1 1
CP 00661	DOM	3	D. E. BAILEY	CP 00661	Shallow	25S	37E 20	1 3 3
CP 00710	DOM	3	S. A. SEARCY	CP 00710	Shallow	25S	37E 19	2 2 3
CP 00777	DOM	3	GUAN D. MILLER	CP 00777	Shallow	25S	37E 20	3 2 4
CP 00782	INJ	0	ARCO OIL AND GAS COMPANY	CP 00782	Shallow	25S	37E 24	1 1 2
CP 00783	INJ	0	ARCO OIL AND GAS COMPANY	CP 00783	Shallow	25S	37E 23	1 2 1
CP 00784	INJ	0	ARCO GAS AND OIL COMPANY	CP 00784	Shallow	25S	37E 23	1 4 3
CP 00844	STK	0	TRUSTEES/JAL PUBLIC LIBRARY	CP 00844		25S	37E 17	3 3
CP 00888	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00888		25S	37E 18	2 2 4
CP 00889	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00889		25S	37E 07	3 3 2
CP 00891	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00891		25S	37E 18	2 2 3
CP 00892	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00892		25S	37E 18	2 2 3
CP 00893	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00893		25S	37E 18	2 2 4
CP 00894	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00894		25S	37E 18	2 2 4
CP 00900	POL	0	SHELL PIPELINE COMPANY LP	CP 00900	Shallow	25S	37E 32	4 3 4
CP 00901	POL	0	SHELL PIPELINE COMPANY LP	CP 00901	Shallow	25S	37E 32	4 3 4
CP 00902	POL	0	SHELL PIPELINE COMPANY LP	CP 00902	Shallow	25S	37E 32	4 3 4
CP 00903	POL	0	SHELL PIPELINE COMPANY LP	CP 00903	Shallow	25S	37E 32	4 3 4
CP 00904	POL	0	SHELL PIPELINE COMPANY LP	CP 00904	Shallow	25S	37E 32	4 3 4
CP 00905	POL	0	SHELL PIPELINE COMPANY LP	CP 00905	Shallow	25S	37E 32	4 3 4
CP 00906	POL	0	SHELL PIPELINE COMPANY LP	CP 00906	Shallow	25S	37E 32	4 3 4
CP 00909	STK	3	GEORGE WILLIS	CP 00909	Shallow	25S	37E 35	4 4 4

Record Count: 56

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

Township: 25S Range: 37E Sections:

NAD27 X: Y: Zone:  Search Radius:

County:  Basin:  Number: Suffix:

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

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POD / SURFACE DATA REPORT 03/08/2006

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q
CP 00120	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00120	Shallow	25S	37E	20	2	3	1
CP 00121	COM	15.6	CHAPARRAL SERVICES, INC.	CP 00121	Shallow	25S	37E	20	2	4	3
CP 00124	COM	31.2	CHAPARRAL SERVICES, INC.	CP 00124		25S	37E	20	2	4	1
CP 00211	DOM	0	J. M. OWEN	CP 00211 DCL		25S	37E	21	2	4	3
CP 00216	DOM	0	J. M. OWEN	CP 00216 DCL		25S	37E	22	1	2	2
CP 00217	DOM	0	J. M. OWEN	CP 00217 DCL		25S	37E	10	4	3	4
CP 00219	DOM	0	J. M. OWEN	CP 00219 DCL		25S	37E	10	4	3	3
CP 00299	DOM	0	J. J. SMITH	CP 00299 DCL		25S	37E	03	2	4	2
CP 00300	STK	0	J. J. SMITH	CP 00300 DCL		25S	37E	03	4	2	1
CP 00387	DOM	3	PAUL S. BALLINGER	CP 00387 1	Shallow	25S	37E	29	2	3	
				CP 00387 REPAR 1	Shallow	25S	37E	29	2	3	
				CP 00387 REPAR 2	Shallow	25S	37E	29	2	3	
CP 00388	DOM	0	JAKE MC KOWEN	CP 00388 EXP		25S	37E	19	2	2	
CP 00425	COM	70	PAUL PRATHER P AND S BRINE SAL	CP 00425	Shallow	25S	37E	16	4	4	4
CP 00428	DOM	3	ANNICE KATHLEEN BUTTER	CP 00428		25S	37E	20	1		
CP 00429	DOM	3	HOMER E. MOLDER	CP 00429	Shallow	25S	37E	19	2		
CP 00444	DOM	3	D. C. BUFFINGTON	CP 00444	Shallow	25S	37E	19	2	2	

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are biggest to smallest)

CP 00600	DOM	3	FLOYD MCCUNE MATHIS	CP 00608
CP 00619	DOM	3	JOHN T. SWINFORD	CP 00619
CP 00620	DOM	3	D. E. BAILEY	CP 00620
CP 00638	DOM	3	DONALD R. TRICE	CP 00638
CP 00661	DOM	3	D. E. BAILEY	CP 00661
CP 00710	DOM	3	S. A. SEARCY	CP 00710
CP 00777	DOM	3	GUAN D. MILLER	CP 00777
CP 00782	INJ	0	ARCO OIL AND GAS COMPANY	CP 00782
CP 00783	INJ	0	ARCO OIL AND GAS COMPANY	CP 00783
CP 00784	INJ	0	ARCO GAS AND OIL COMPANY	CP 00784
CP 00844	STK	0	TRUSTEES/JAL PUBLIC LIBRARY	CP 00844
CP 00888	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00888
CP 00889	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00889
CP 00891	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00891
CP 00892	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00892
CP 00893	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00893
CP 00894	DOM	3	CLAY & GERALDINE (JERI) OSBORN	CP 00894
CP 00900	POL	0	SHELL PIPELINE COMPANY LP	CP 00900
CP 00901	POL	0	SHELL PIPELINE COMPANY LP	CP 00901
CP 00902	POL	0	SHELL PIPELINE COMPANY LP	CP 00902
CP 00903	POL	0	SHELL PIPELINE COMPANY LP	CP 00903
CP 00904	POL	0	SHELL PIPELINE COMPANY LP	CP 00904
CP 00905	POL	0	SHELL PIPELINE COMPANY LP	CP 00905
CP 00906	POL	0	SHELL PIPELINE COMPANY LP	CP 00906
CP 00909	STK	3	GEORGE WILLIS	CP 00909

Record Count: 56

Water Resources

Data Category:  
Ground WaterGeographic Area:  
New Mexico

go

# Ground-water levels for New Mexico

## Search Results -- 1 sites found

Search Criteria

site\_no list = 320149103134201

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

USGS 320149103134201 26S.36E.23.222322

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

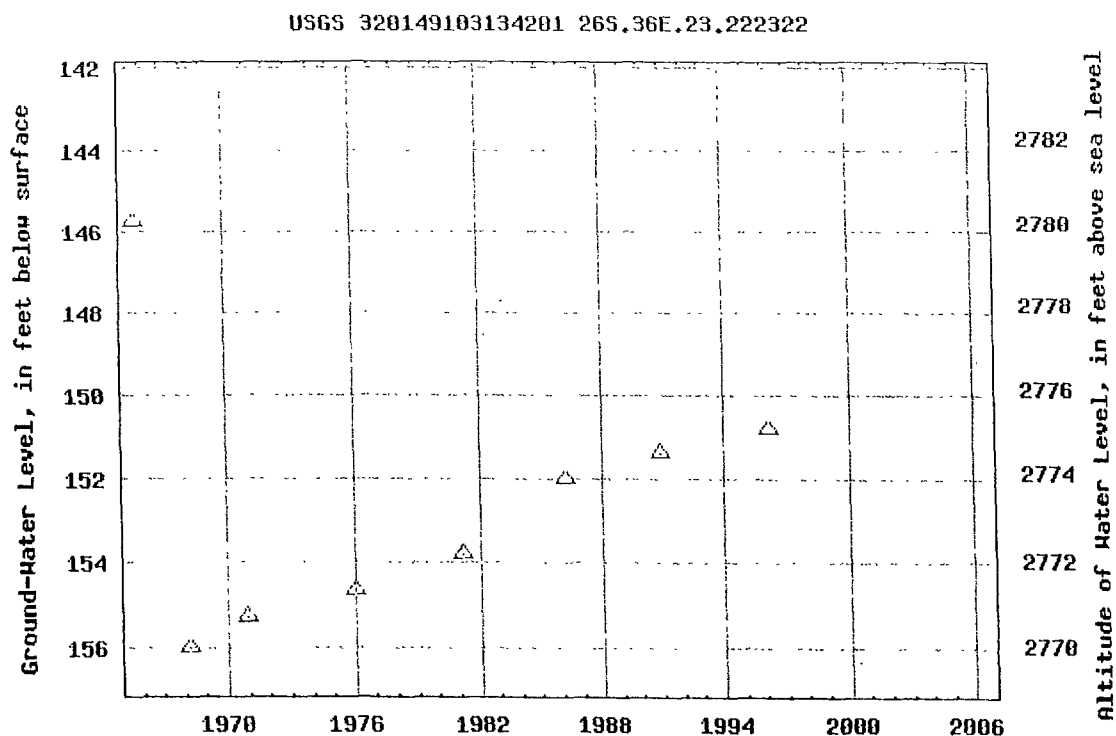
Latitude 32°01'49", Longitude 103°13'42" NAD27

Land-surface elevation 2,925.80 feet above sea level NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = 320251103154201

Save file of selected sites to local disk for future upload

USGS 320251103154201 26S.36E.09.44421B

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°02'51", Longitude 103°15'42" NAD27

Land-surface elevation 2,934.70 feet above sea level NGVD29

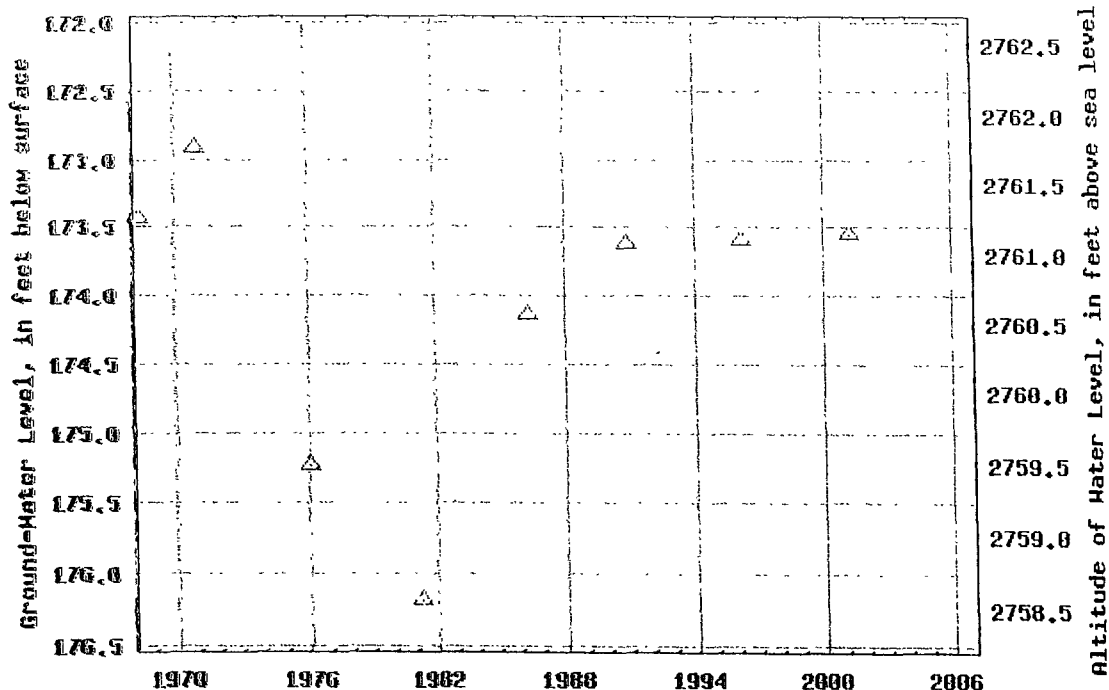
The depth of the well is 200 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 320251103154201 26S.36E.09.44421B



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

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 = • 320042103103901

Save file of selected sites to local disk for future upload

USGS 320042103103901 26S.37E.29.24230

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

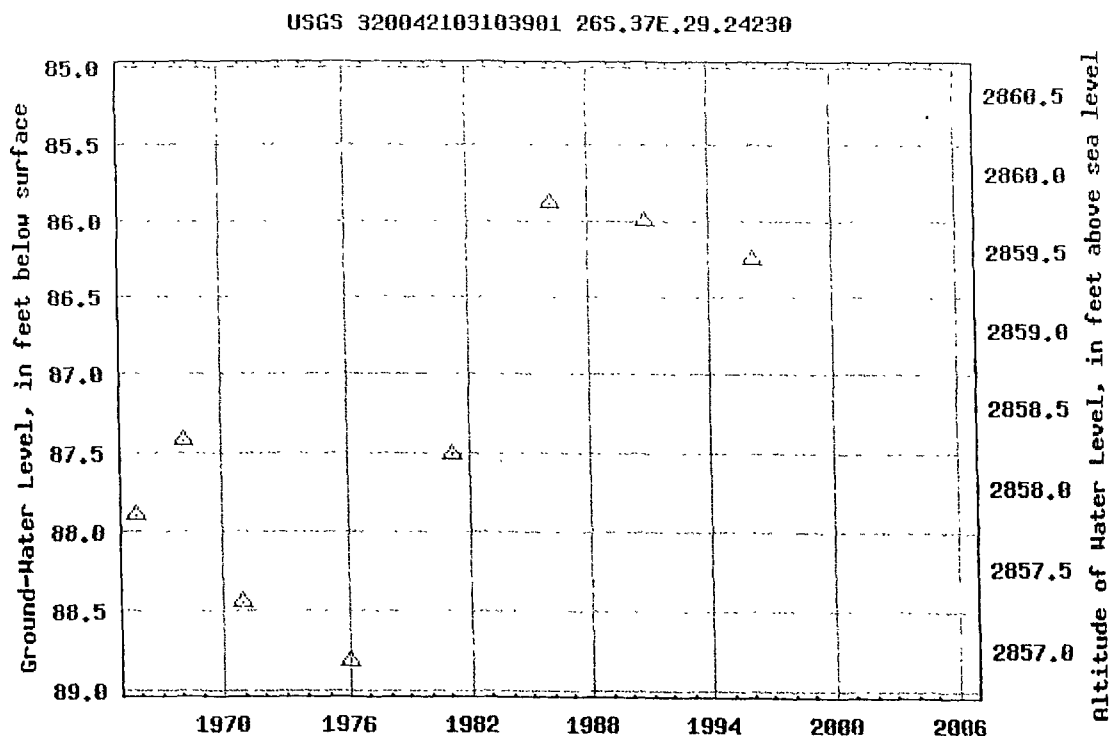
Latitude 32°00'42", Longitude 103°10'39" NAD27

Land-surface elevation 2,945.70 feet above sea level NGVD29

The depth of the well is 115 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = 320046103085101

Save file of selected sites to local disk for future upload

USGS 320046103085101 26S.37E.27.23212

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

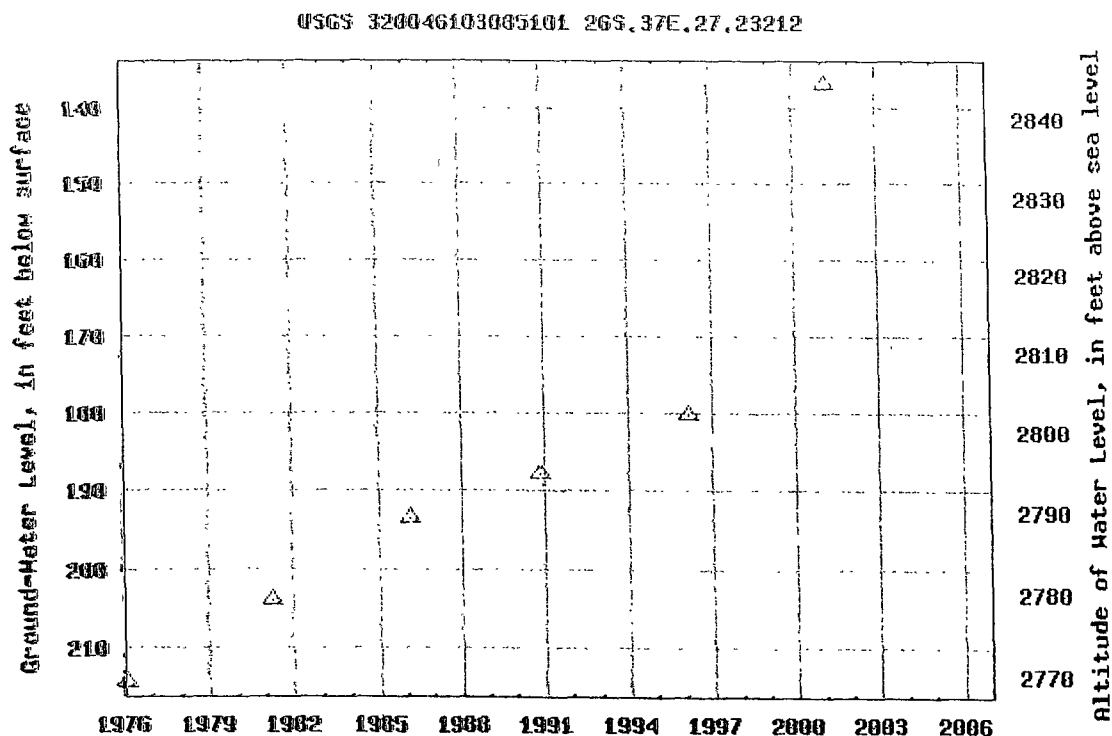
Latitude 32°00'46", Longitude 103°08'51" NAD27

Land-surface elevation 2,982.20 feet above sea level NGVD29

The depth of the well is 525 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) 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.

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 = 320104103120301

Save file of selected sites to local disk for future upload

USGS 320104103120301 26S.37E.19.433143

Available data for this site

EPA Surf your Watershed

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°01'04", Longitude 103°12'03" NAD27

Land-surface elevation 2,941.40 feet above sea level NGVD29

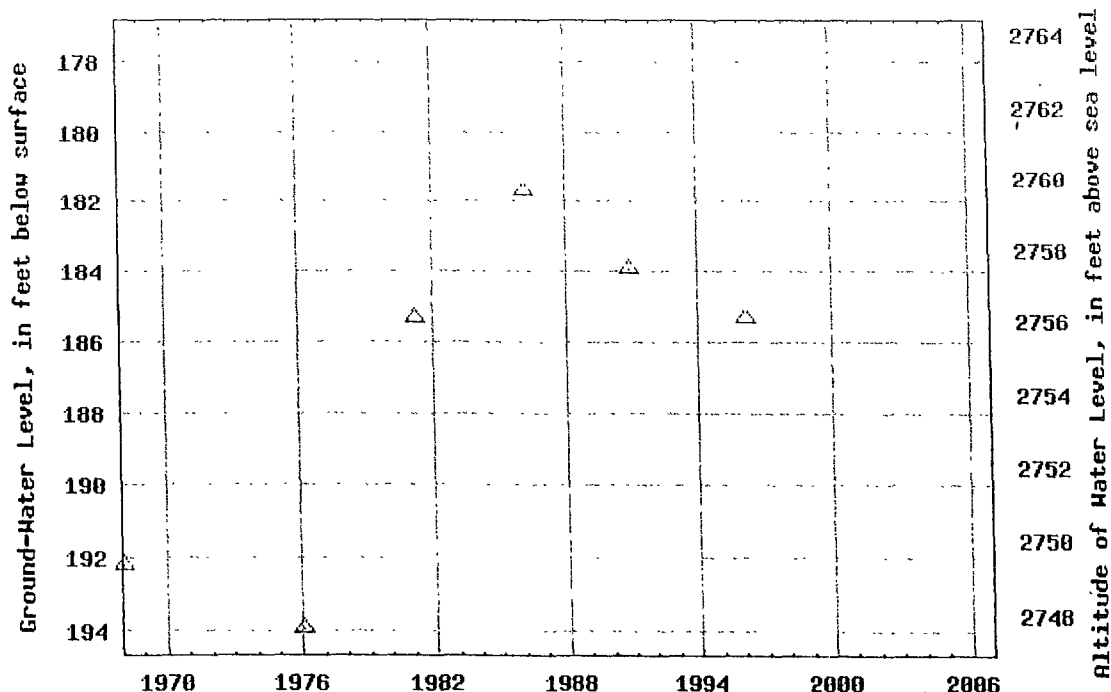
The depth of the well is 500 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 320104103120301 26S.37E.19.433143



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

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 = • 320303103100901

Save file of selected sites to local disk for future upload

USGS 320303103100901 26S.37E.09.32411A

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

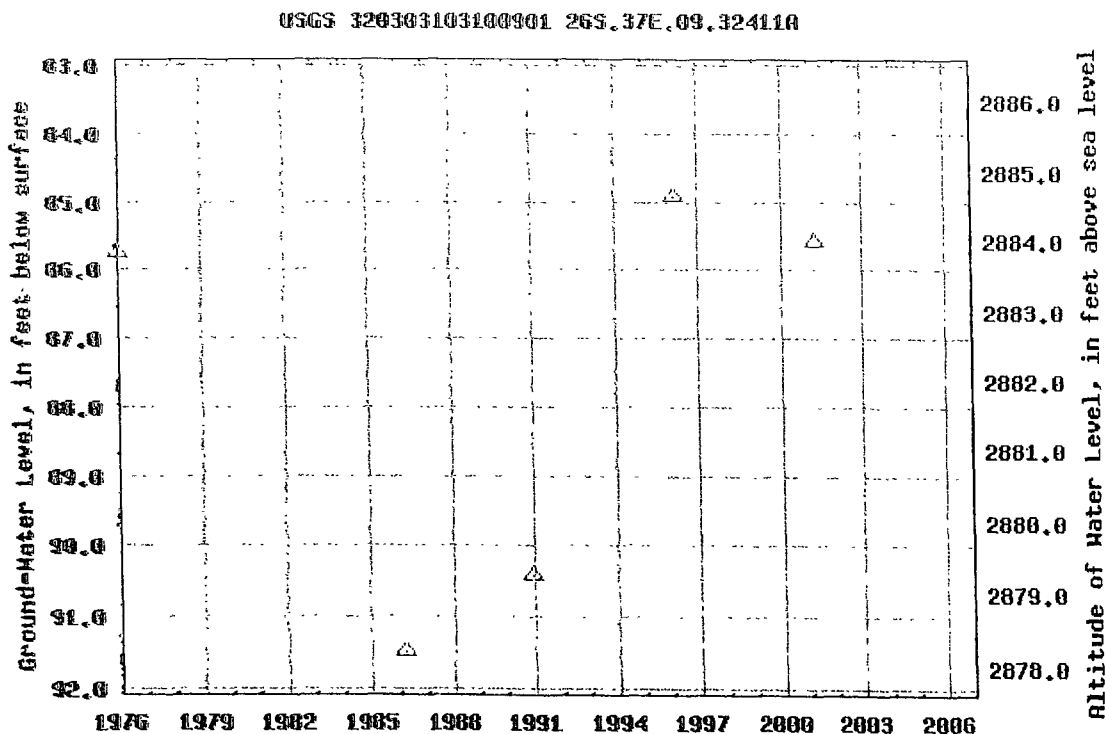
Latitude 32°03'03", Longitude 103°10'09" NAD27

Land-surface elevation 2,969.60 feet above sea level NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = 320259103122201

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

USGS 320259103122201 26S.37E.07.314424

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

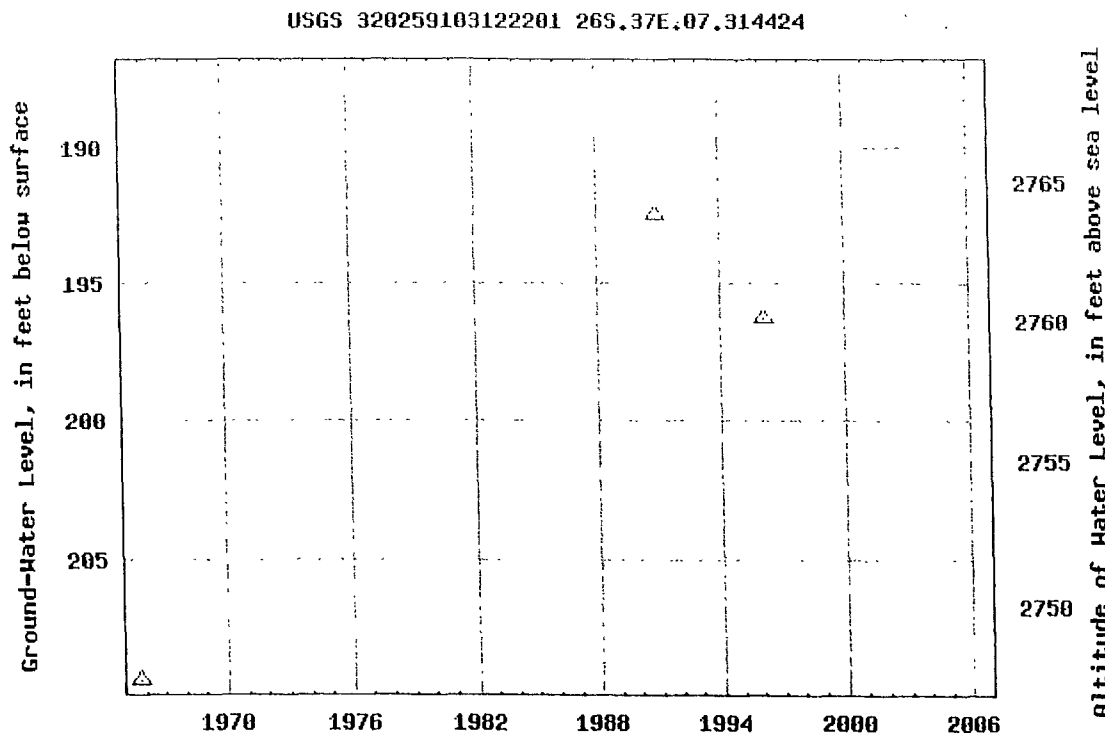
Latitude 32°02'59", Longitude 103°12'22" NAD27

Land-surface elevation 2,956.40 feet above sea level NGVD29

The depth of the well is 470 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) 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.

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 = 320251103071401

Save file of selected sites to local disk for future upload

USGS 320251103071401 26S.37E.12.33243

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°02'51", Longitude 103°07'14" NAD27

Land-surface elevation 3,004.20 feet above sea level NGVD29

The depth of the well is 160 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

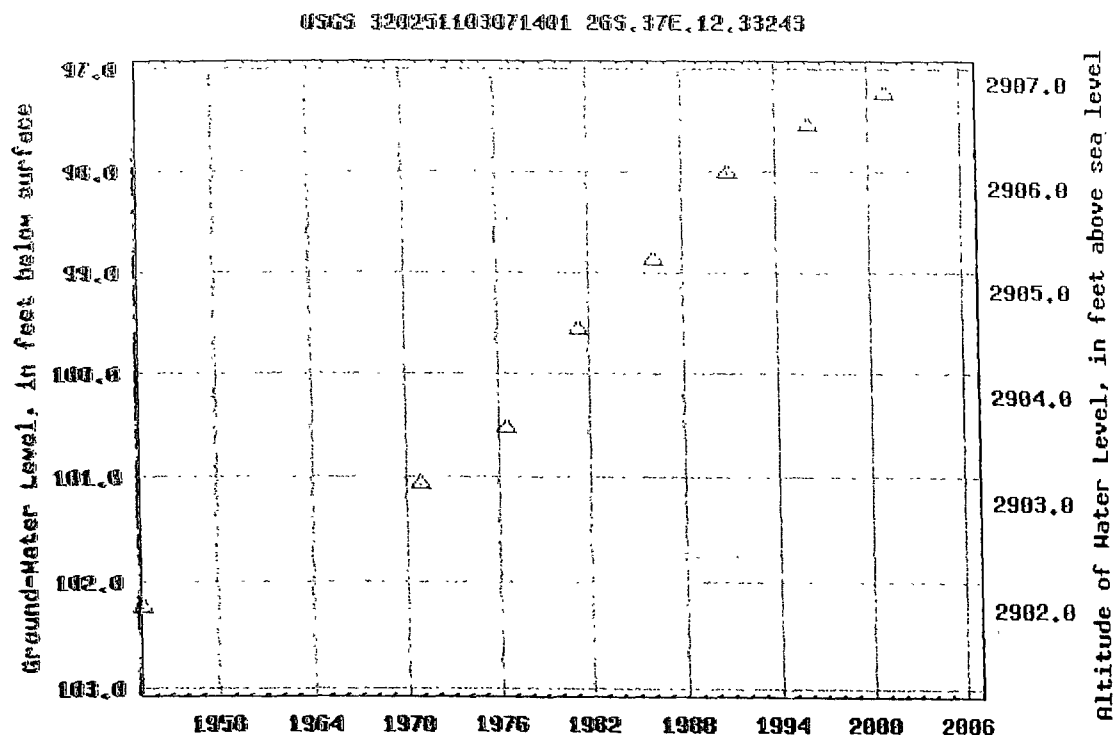
Output formats

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.

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 = • 320309103080401

Save file of selected sites to local disk for future upload

USGS 320309103080401 26S.37E.14.122122

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code

Latitude 32°03'09", Longitude 103°08'04" NAD27

Land-surface elevation 2,998.90 feet above sea level NGVD29

The depth of the well is 131 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

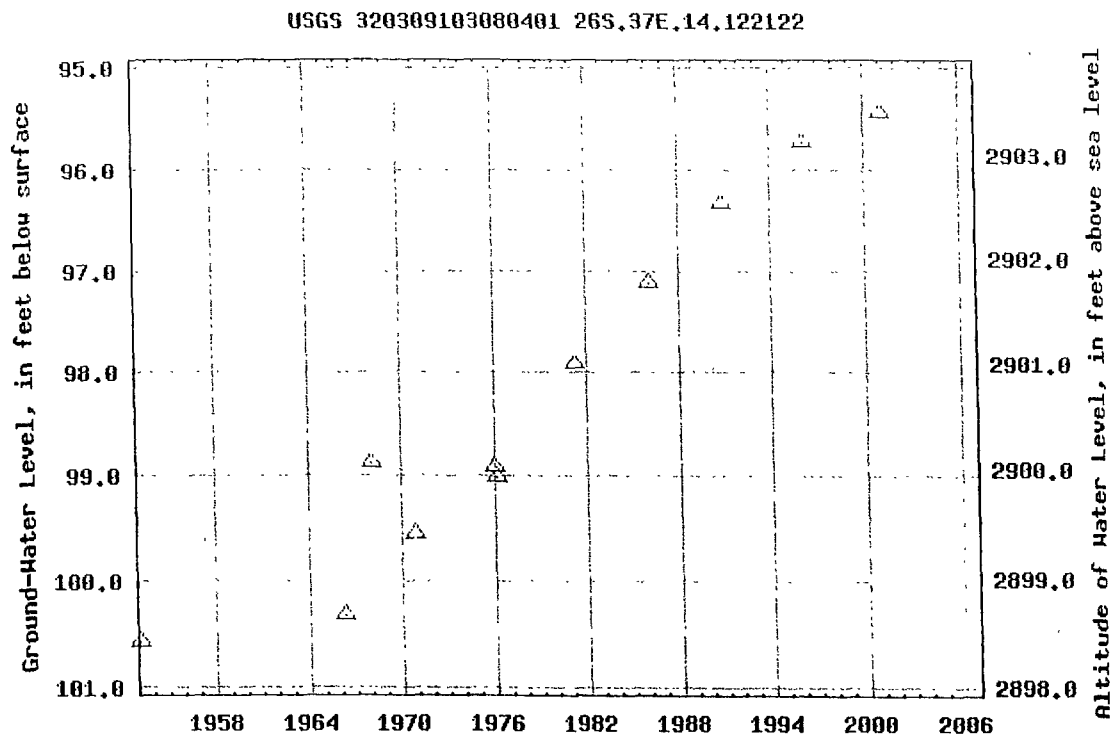
Output formats

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.

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 = 320918103211701

Save file of selected sites to local disk for future upload

USGS 320918103211701 25S.35E.03.233244

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

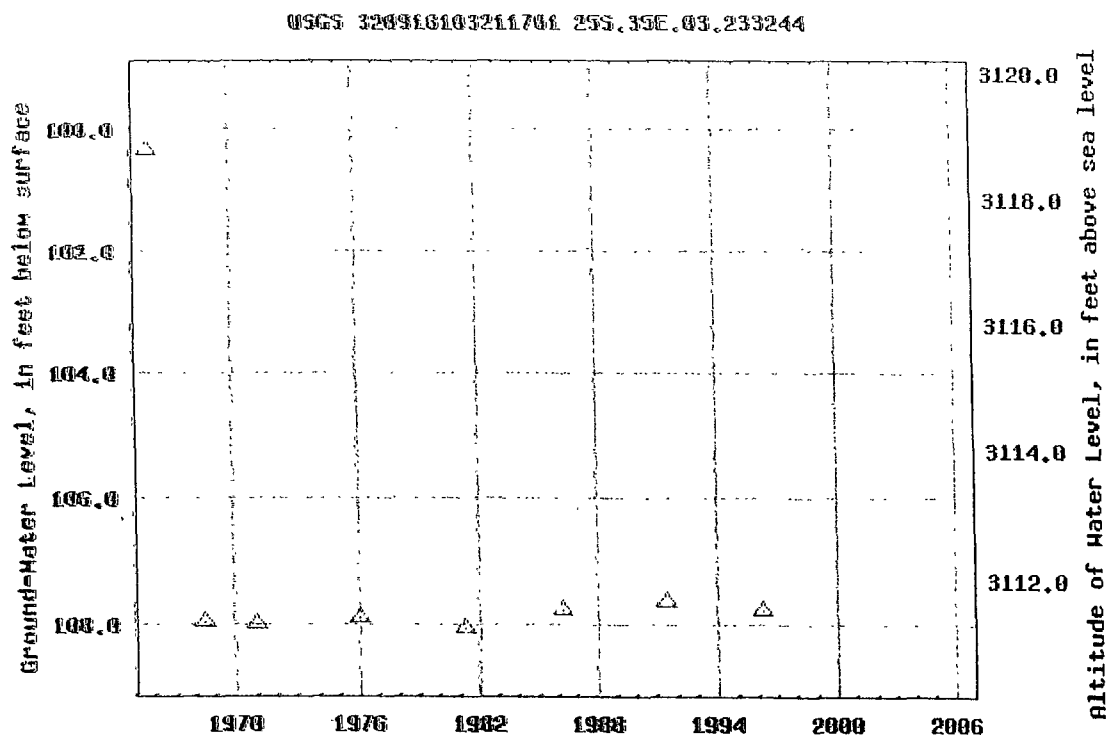
Latitude 32°09'18", Longitude 103°21'17" NAD27

Land-surface elevation 3,219.20 feet above sea level NGVD29

The depth of the well is 122 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

Water Resources

Data Category:  
Ground WaterGeographic Area:  
New Mexico

go

## Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site\_no list = • 320721103221201

Save file of selected sites to local disk for future upload

USGS 320721103221201 25S.35E.21.122212

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code

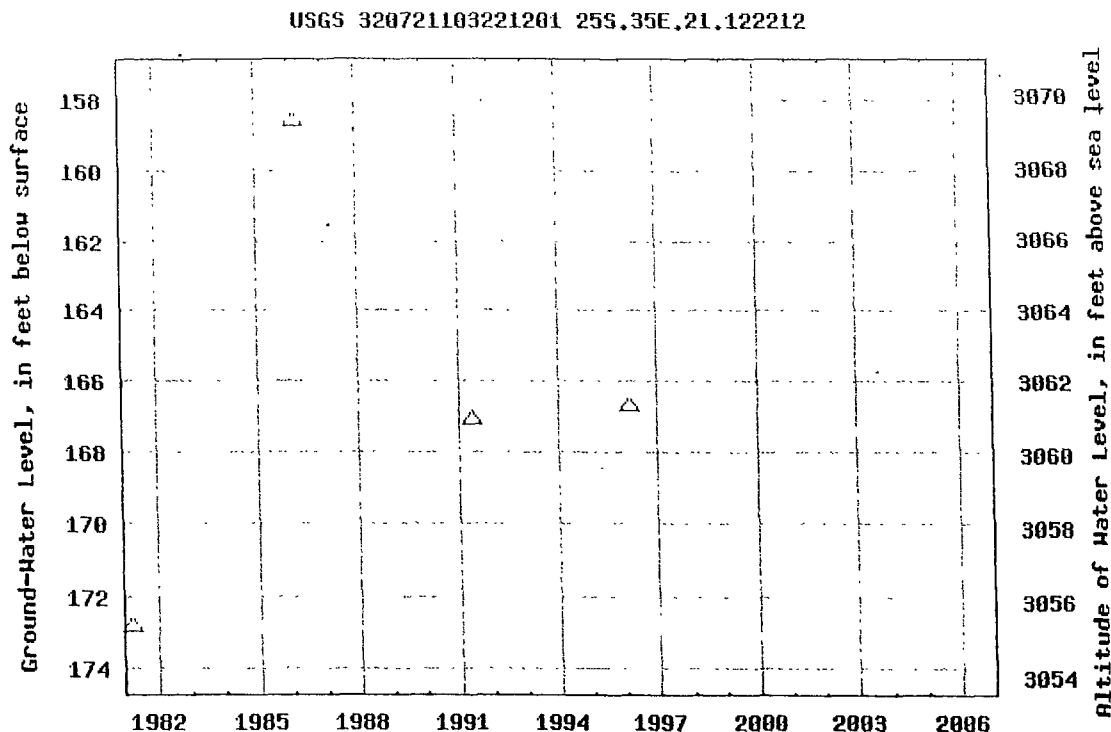
Latitude 32°07'21", Longitude 103°22'12" NAD27

Land-surface elevation 3,228.00 feet above sea level NGVD29

The depth of the well is 275 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) 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.

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 = 320916103182501

Save file of selected sites to local disk for future upload

USGS 320916103182501 25S.36E.06.13442

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°09'16", Longitude 103°18'25" NAD27

Land-surface elevation 3,261.30 feet above sea level NGVD29

The depth of the well is 605 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

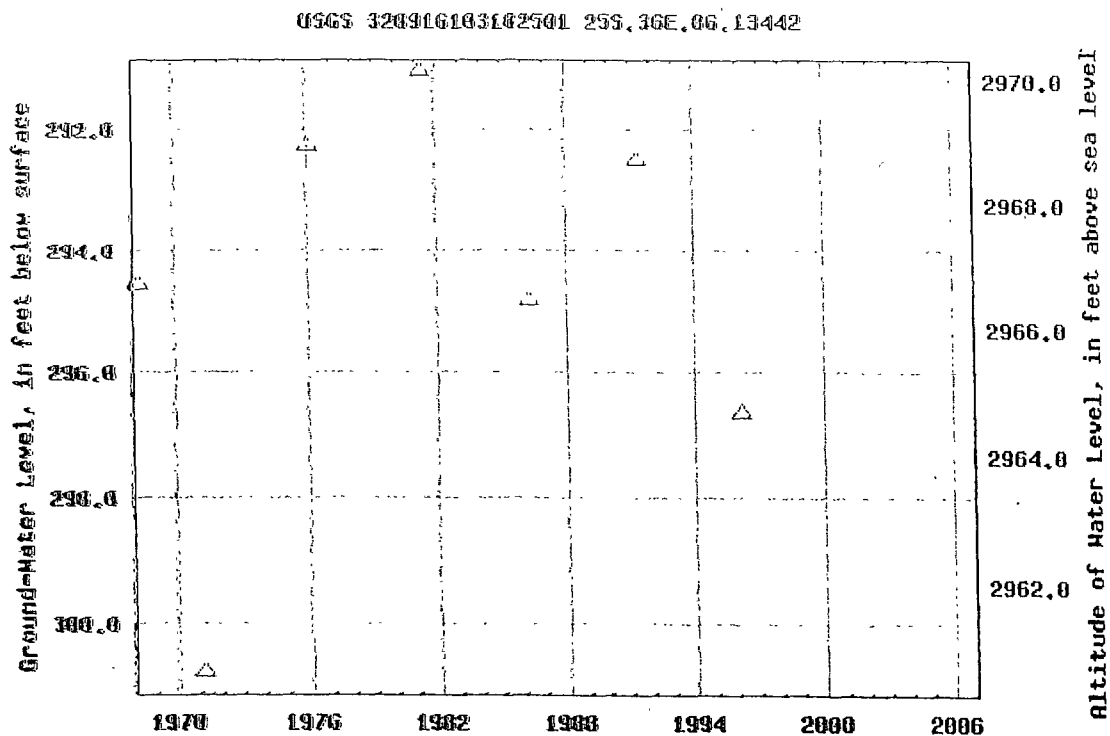
Output formats

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.

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 = • 320813103152901

Save file of selected sites to local disk for future upload

USGS 320813103152901 25S.36E.10.31431

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

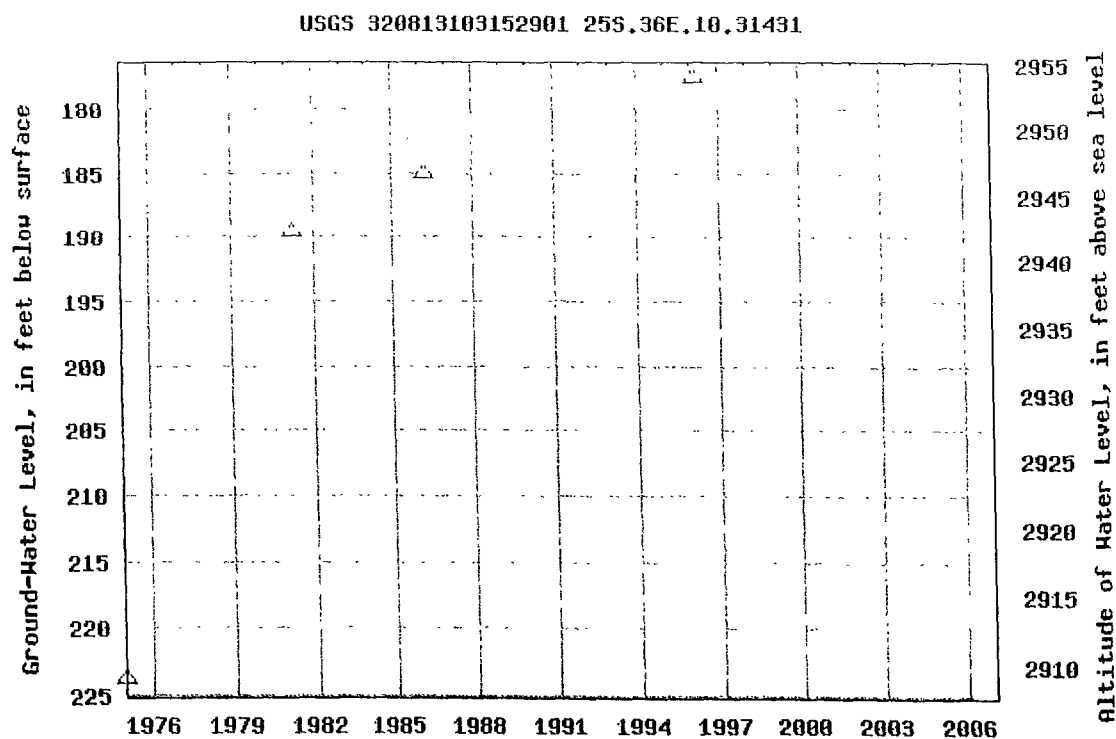
Latitude 32°08'13", Longitude 103°15'29" NAD27

Land-surface elevation 3,132.10 feet above sea level NGVD29

The depth of the well is 512 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) 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.

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 = • 320639103071301

Save file of selected sites to local disk for future upload

USGS 320639103071301 25S.37E.24.14333

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

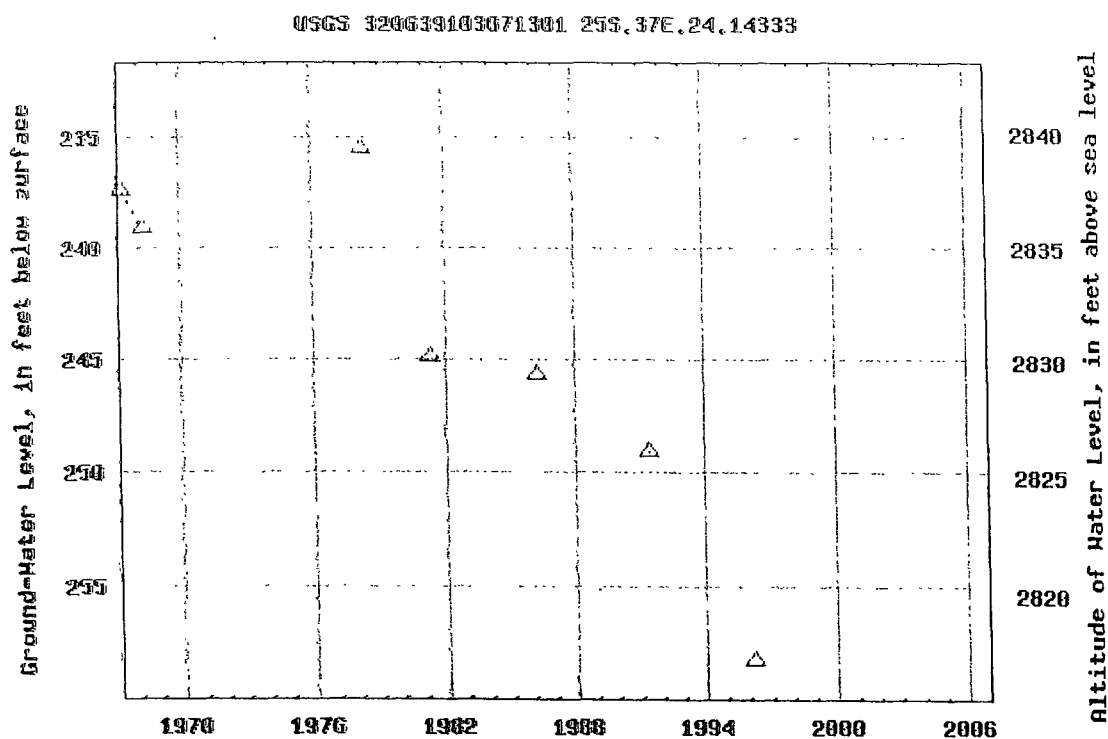
Latitude 32°06'39", Longitude 103°07'13" NAD27

Land-surface elevation 3,075.10 feet above sea level NGVD29

The depth of the well is 901 feet below land surface.

This well is completed in the RUSTLER FORMATION (312RSLR) 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.

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 = • 320651103110202

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

USGS 320651103110202 25S.37E.20.231342A

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

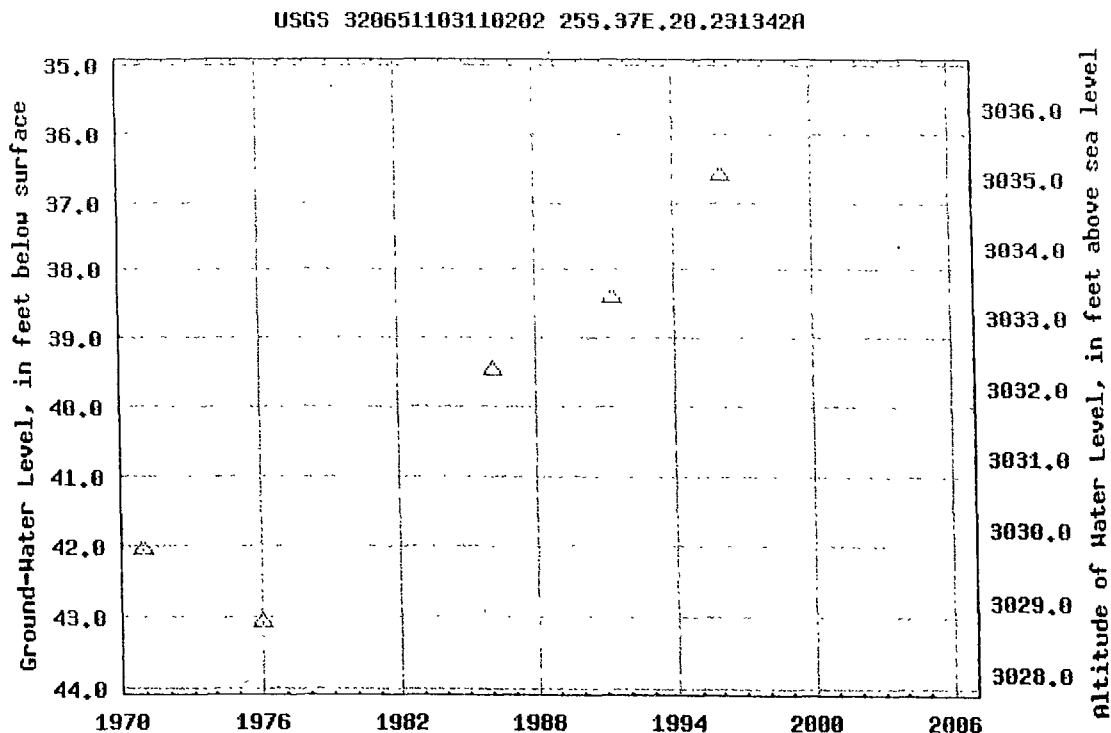
Latitude 32°06'51", Longitude 103°11'02" NAD27

Land-surface elevation 3,071.70 feet above sea level NGVD29

The depth of the well is 510 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 320724103071502

Save file of selected sites to local disk for future upload

USGS 320724103071502 25S.37E.13.312434

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'24", Longitude 103°07'15" NAD27

Land-surface elevation 3,081.80 feet above sea level NGVD29

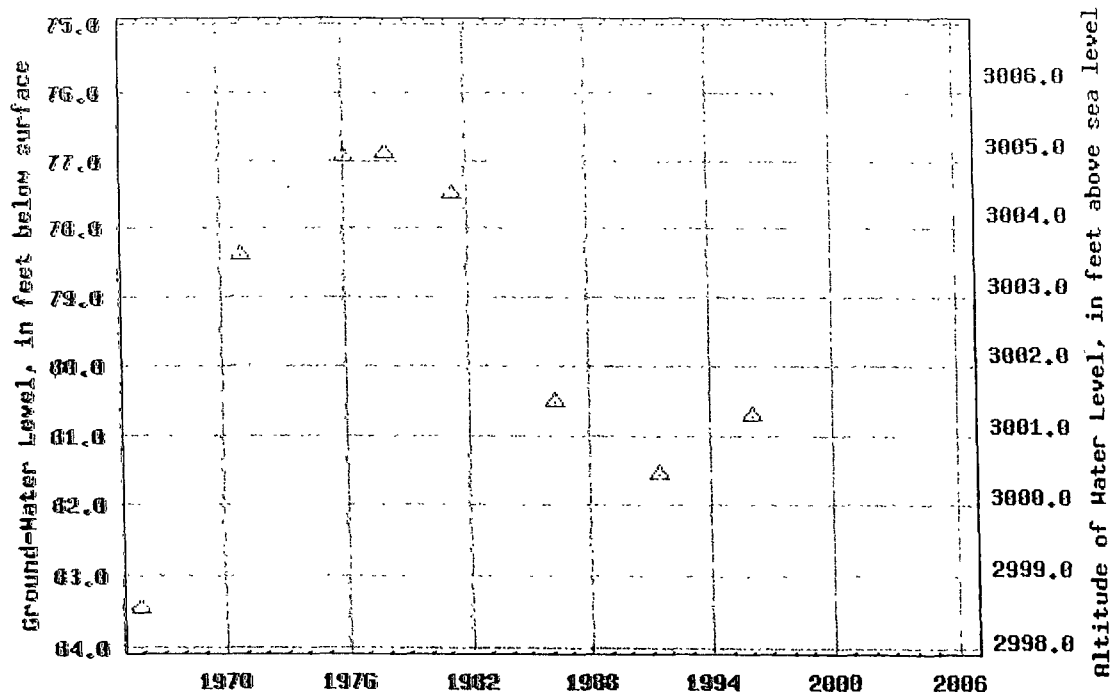
The depth of the well is 145 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 320724103071502 25S.37E.13.312434



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

Water Resources

Data Category:  
Ground WaterGeographic Area:  
New Mexico

go

# Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site\_no list = • 320634103083901

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

USGS 320634103083901 25S.37E.22.42142

Available data for this site

Ground-water: Levels

GO

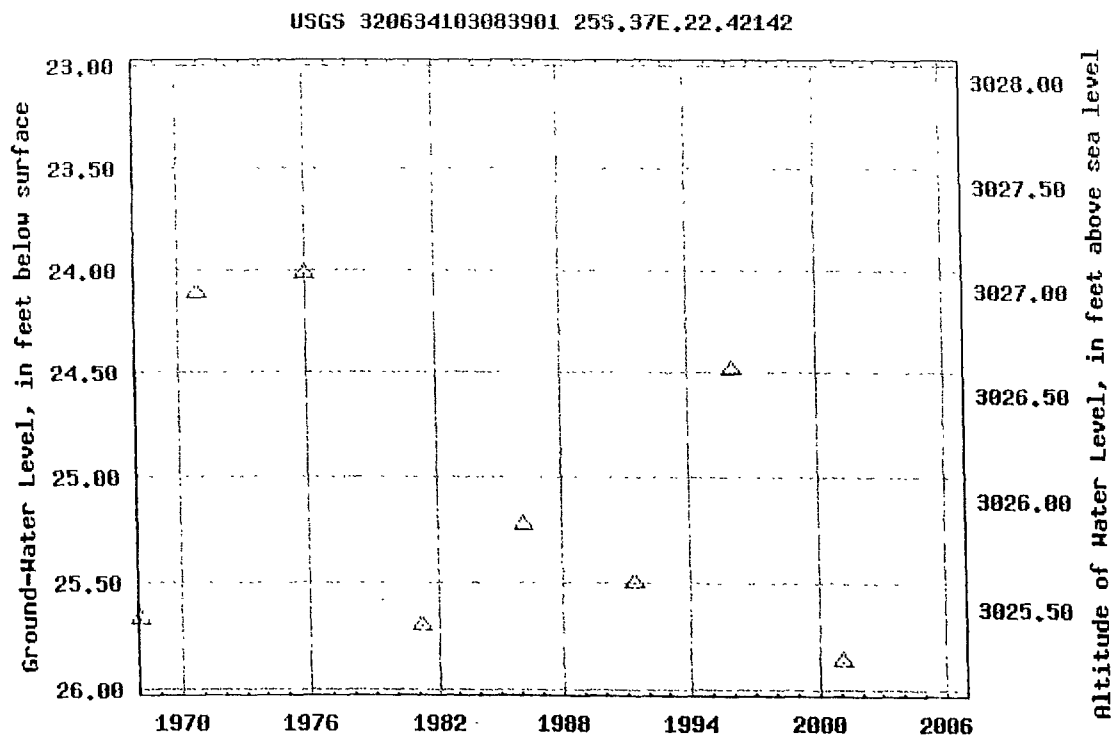
Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°06'34", Longitude 103°08'39" NAD27

Land-surface elevation 3,051.10 feet above sea level NGVD29

The depth of the well is 42 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 320510103101301

Save file of selected sites to local disk for future upload

USGS 320510103101301 25S.37E.33.11444

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°05'10", Longitude 103°10'13" NAD27

Land-surface elevation 3,001.70 feet above sea level NGVD29

The depth of the well is 105 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

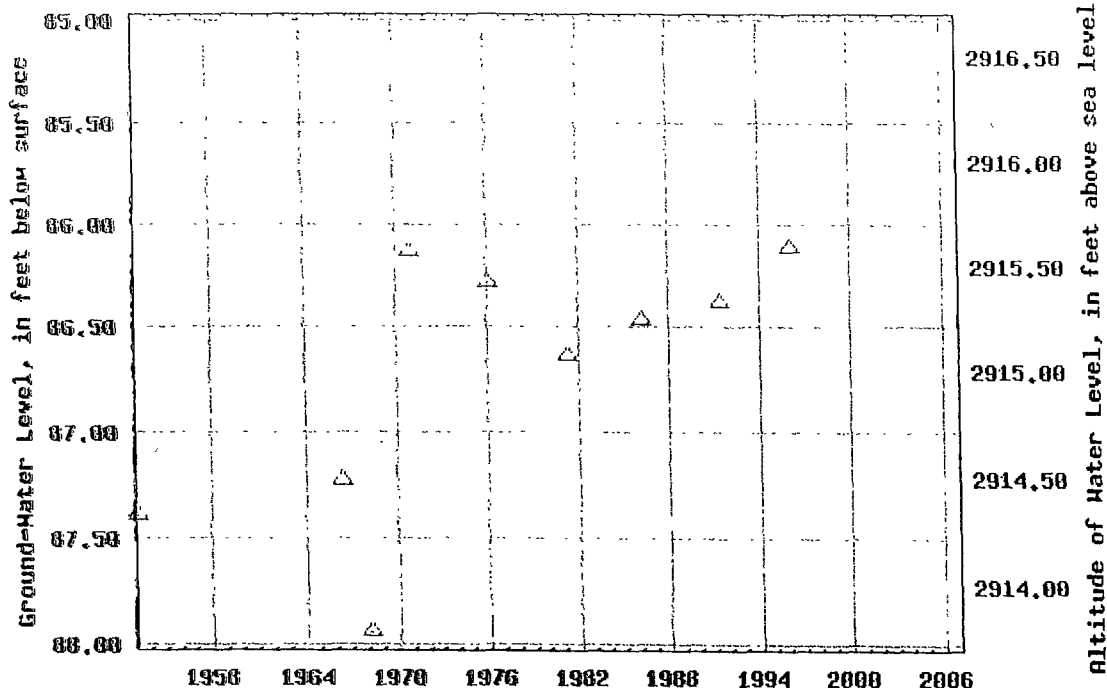
Table of data

Tab-separated data

Graph of data

Reselect period

USGS 320510103101301 25S.37E.33.11444



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

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 = • 320547103065702

Save file of selected sites to local disk for future upload

USGS 320547103065702 25S.37E.25.23332A

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°05'47", Longitude 103°06'57" NAD27

Land-surface elevation 3,054.70 feet above sea level NGVD29

The depth of the well is 62 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

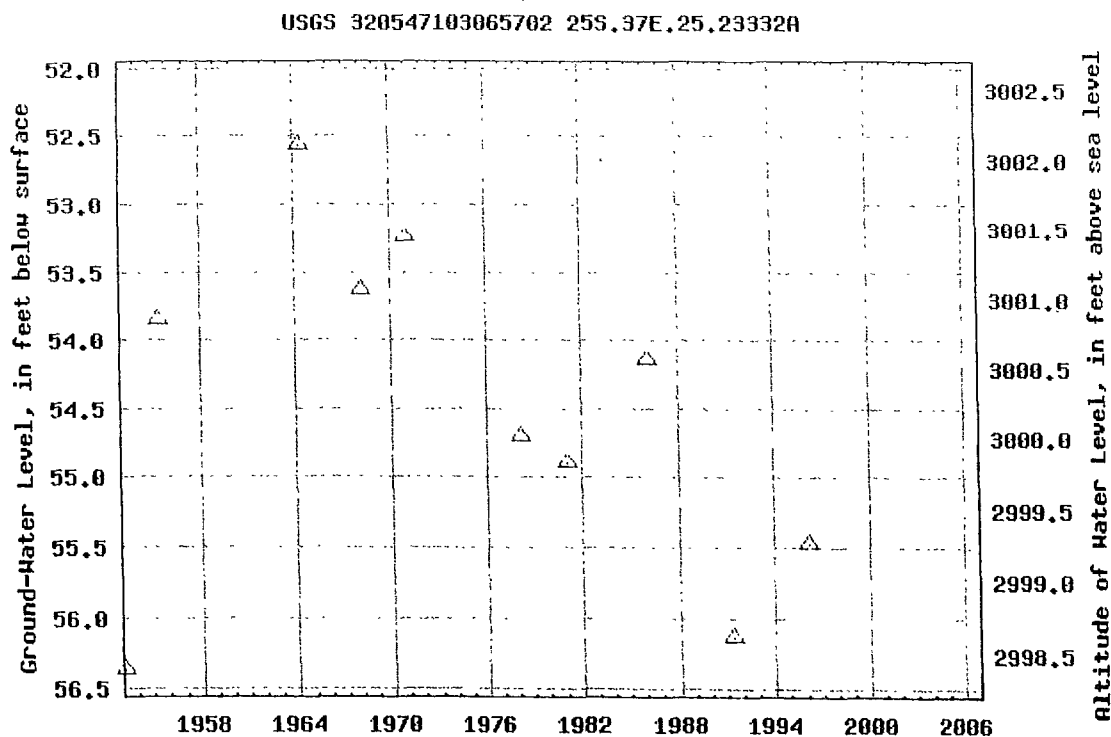
Output formats

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.

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 = • 320550103081001

Save file of selected sites to local disk for future upload

USGS 320550103081001 25S.37E.26.143232

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

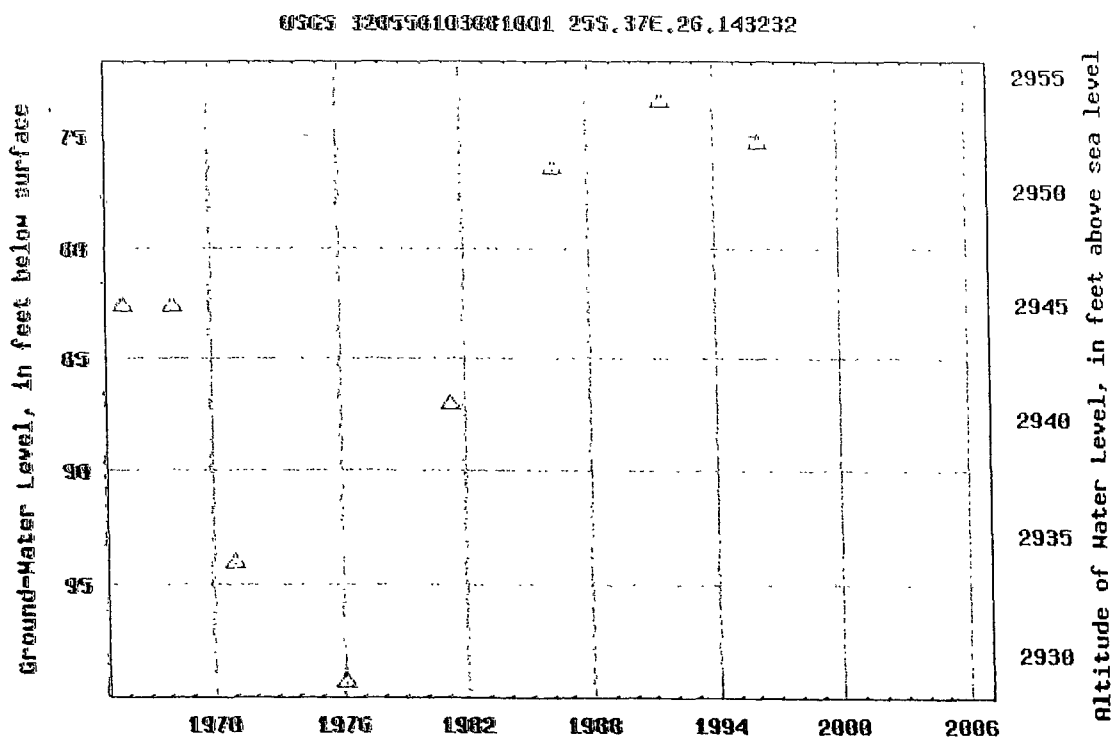
Latitude 32°05'50", Longitude 103°08'10" NAD27

Land-surface elevation 3,027.60 feet above sea level NGVD29

The depth of the well is 106 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

Water Resources

Data Category:  
Ground WaterGeographic Area:  
New Mexico

go

# Ground-water levels for New Mexico

## Search Results -- 1 sites found

Search Criteria

site\_no list = • 320730103114801

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

USGS 320730103114801 25S.37E.18.421110

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

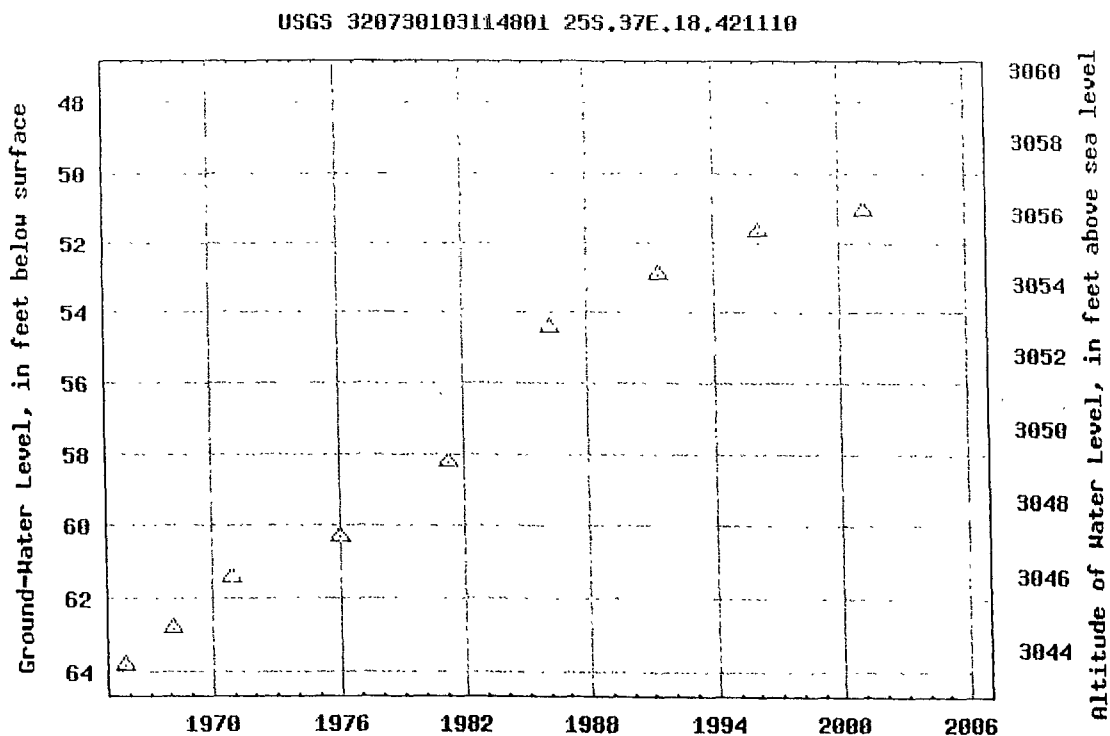
Latitude 32°07'30", Longitude 103°11'48" NAD27

Land-surface elevation 3,107.20 feet above sea level NGVD29

The depth of the well is 100 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 320823103082901

Save file of selected sites to local disk for future upload

USGS 320823103082901 25S.37E.11.133343

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°08'23", Longitude 103°08'29" NAD27

Land-surface elevation 3,122.10 feet above sea level NGVD29

The depth of the well is 192 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

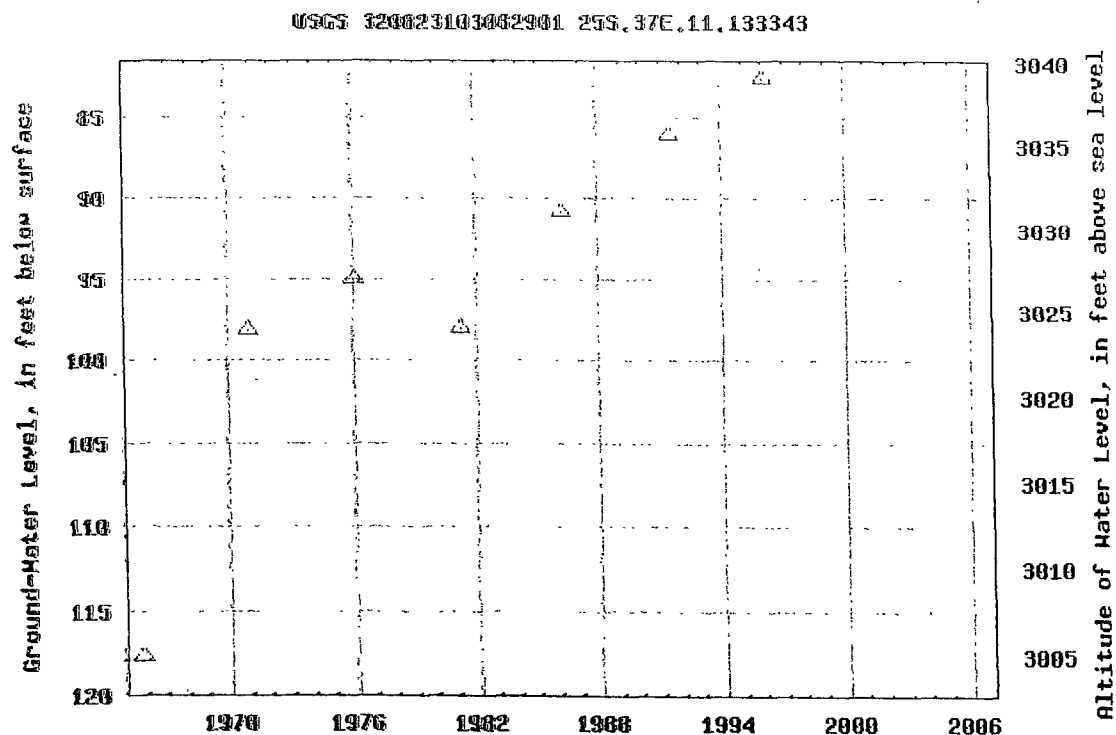
Output formats

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.

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 = • 320850103080501

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

USGS 320850103080501 25S.37E.02.344141

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

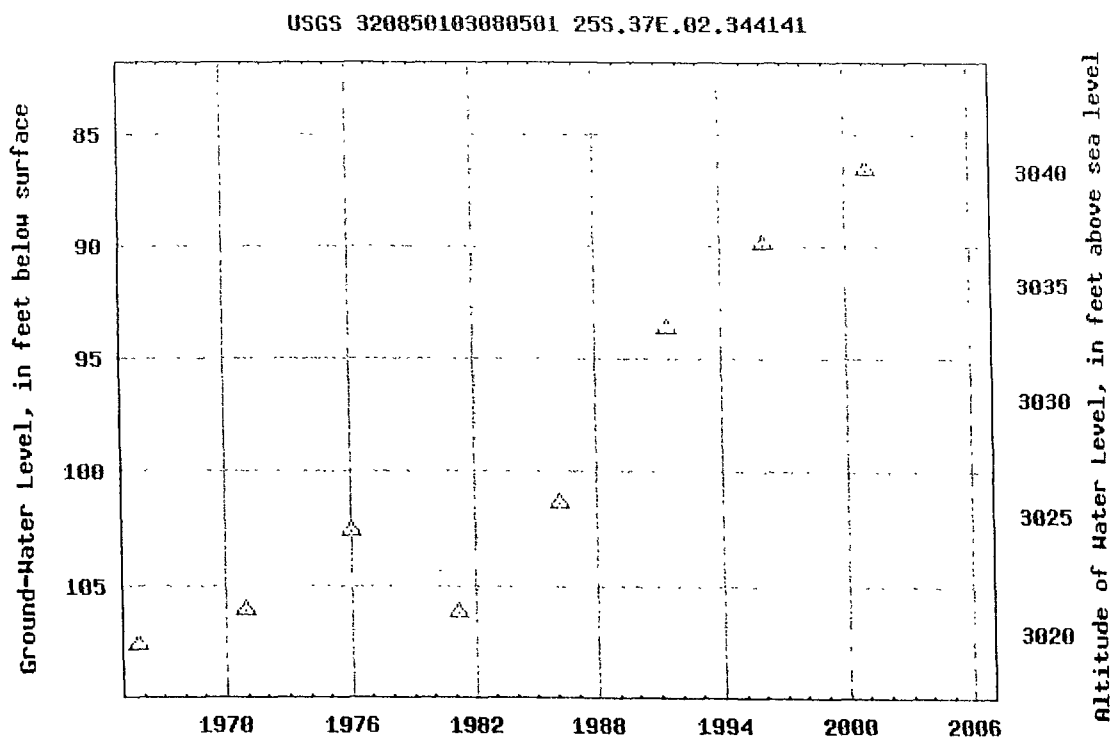
Latitude 32°08'50", Longitude 103°08'05" NAD27

Land-surface elevation 3,126.70 feet above sea level NGVD29

The depth of the well is 154 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

Water Resources

Data Category:  
Ground WaterGeographic Area:  
New Mexico

go

# Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site\_no list = 321003103085201

Save file of selected sites to local disk for future upload

USGS 321003103085201 24S.37E.34.412331

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'03", Longitude 103°08'52" NAD27

Land-surface elevation 3,169.00 feet above sea level NGVD29

The depth of the well is 75 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

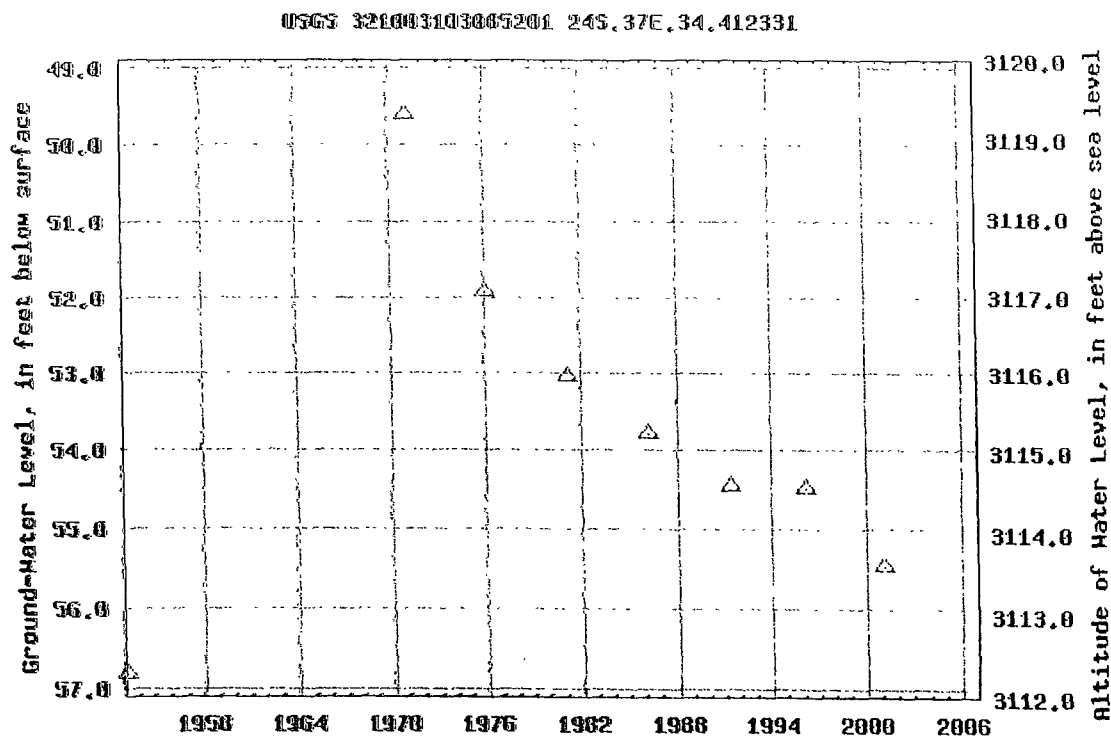
Output formats

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.

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 = 321050103090301

Save file of selected sites to local disk for future upload

USGS 321050103090301 24S.37E.27.344333

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code

Latitude 32°10'50", Longitude 103°09'03" NAD27

Land-surface elevation 3,174.50 feet above sea level NGVD29

The depth of the well is 84 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

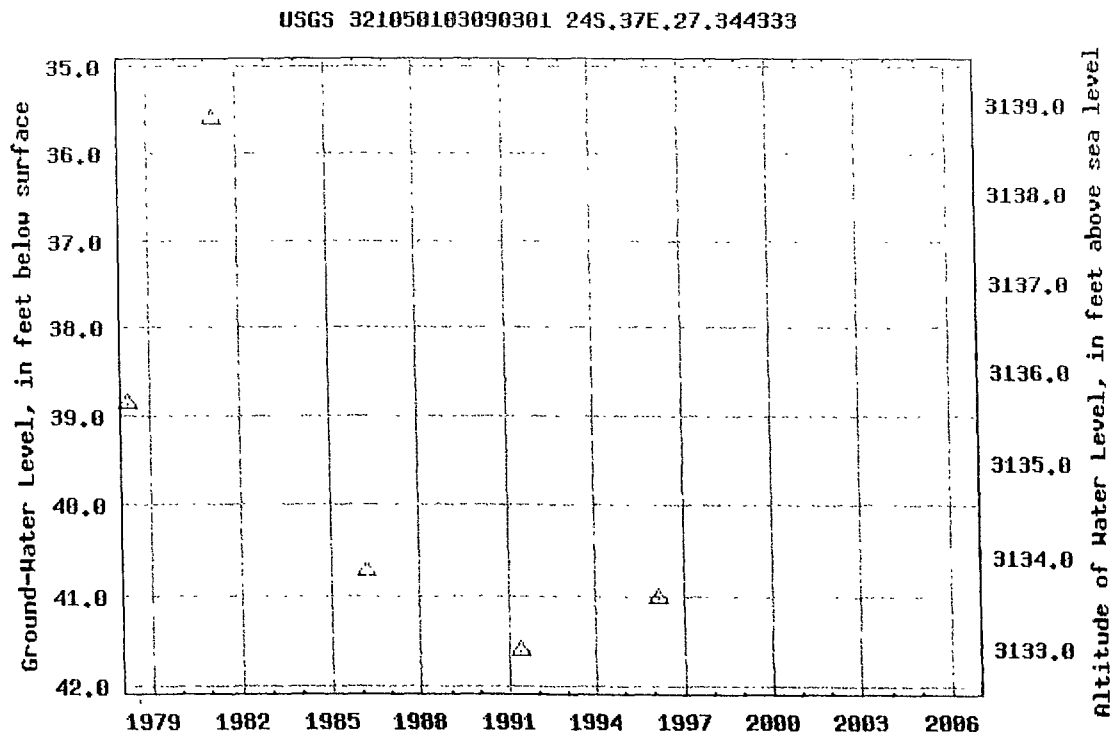
Output formats

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.

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 = • 321105103064901

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

USGS 321105103064901 24S.37E.25.234121

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

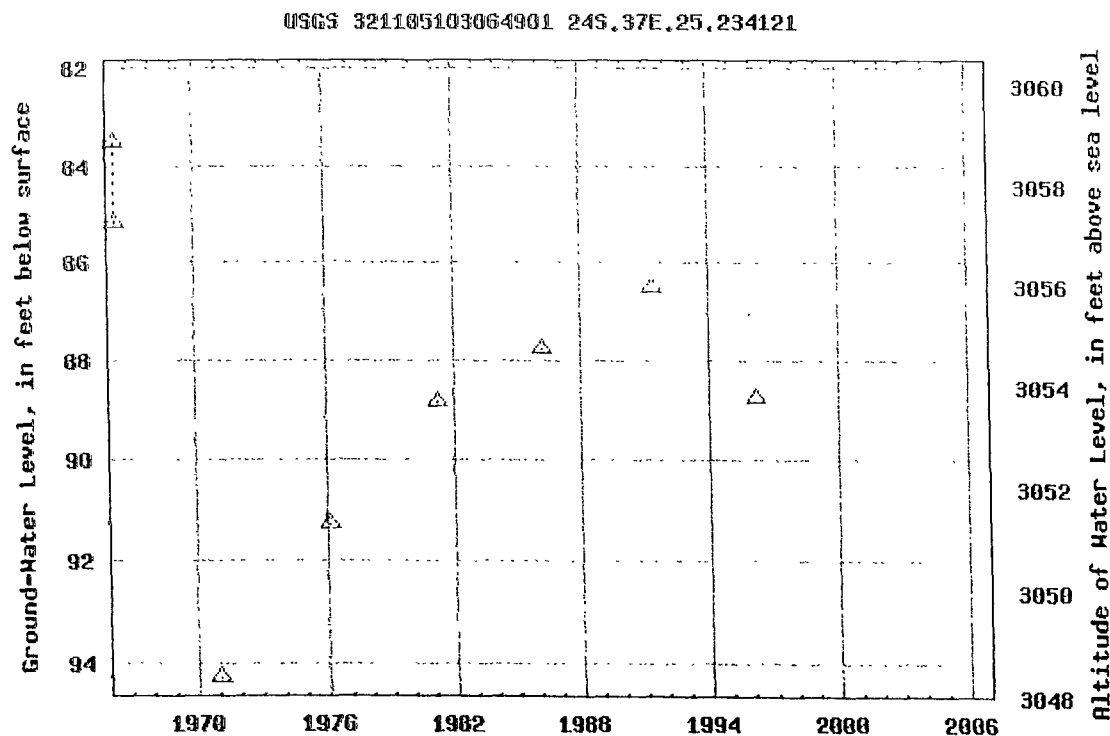
Latitude 32°11'05", Longitude 103°06'49" NAD27

Land-surface elevation 3,142.50 feet above sea level NGVD29

The depth of the well is 135 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 321125103093001

Save file of selected sites to local disk for future upload

USGS 321125103093001 24S.37E.28.242233

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code

Latitude 32°11'25", Longitude 103°09'30" NAD27

Land-surface elevation 3,205.00 feet above sea level NGVD29

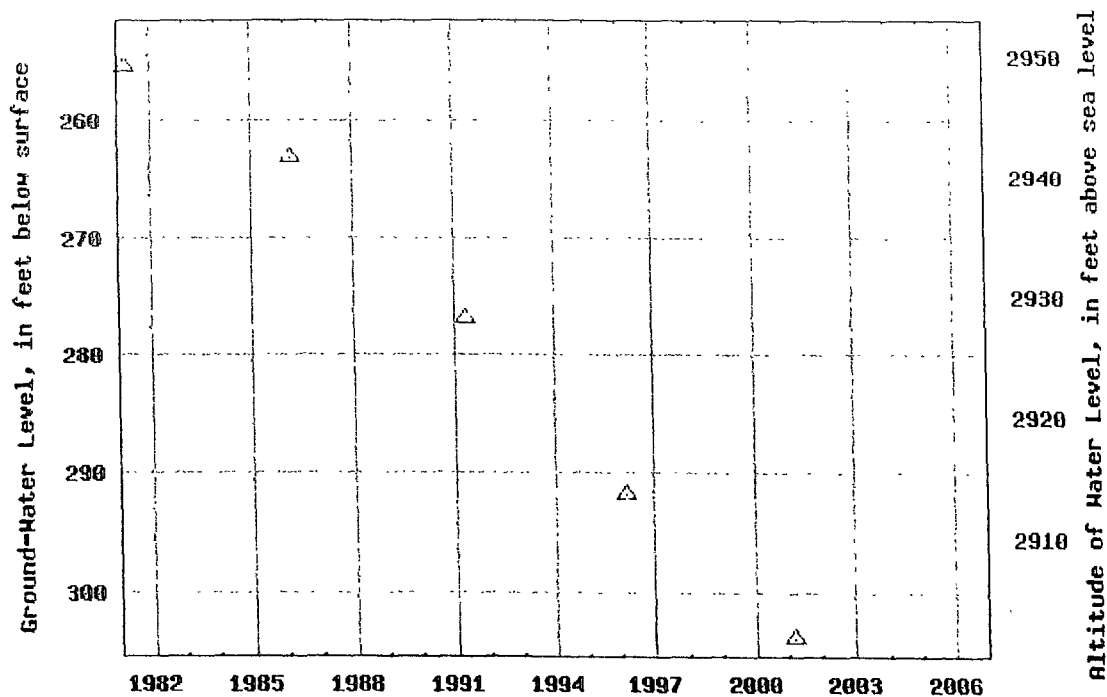
The depth of the well is 770 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

[Table of data](#)[Tab-separated data](#)[Graph of data](#)[Reselect period](#)

USGS 321125103093001 24S.37E.28.242233



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

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 = 321045103092301

Save file of selected sites to local disk for future upload

USGS 321045103092301 24S.37E.27.332111

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'45", Longitude 103°09'23" NAD27

Land-surface elevation 3,194.20 feet above sea level NGVD29

The depth of the well is 830 feet below land surface.

This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

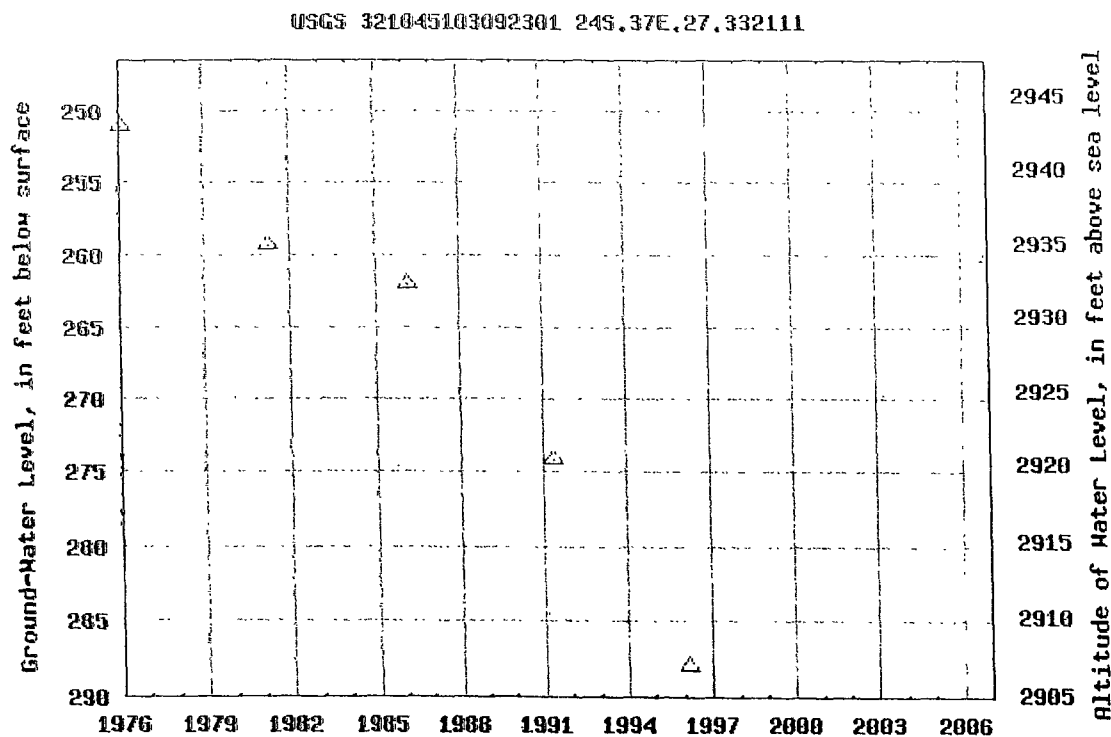
## Output formats

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.

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 = 321235103094701

Save file of selected sites to local disk for future upload

USGS 321235103094701 24S.37E.16.42313

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

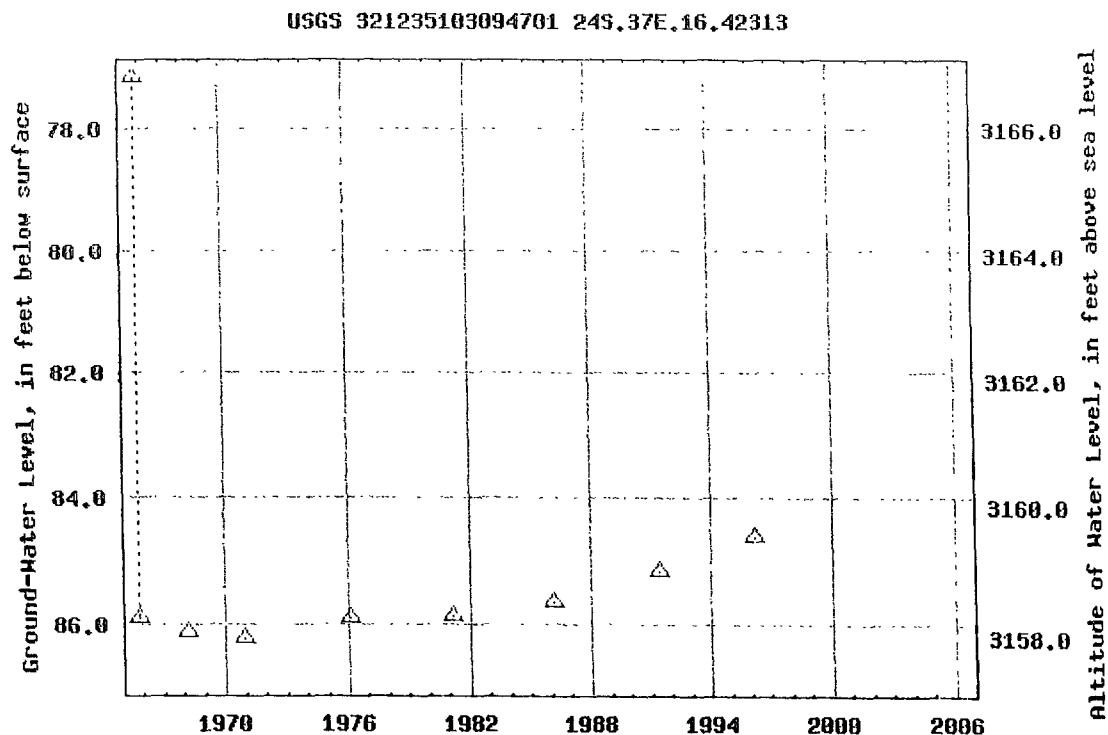
Latitude 32°12'35", Longitude 103°09'47" NAD27

Land-surface elevation 3,244.10 feet above sea level NGVD29

The depth of the well is 150 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 321312103080602

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

USGS 321312103080602 24S.37E.11.34440

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

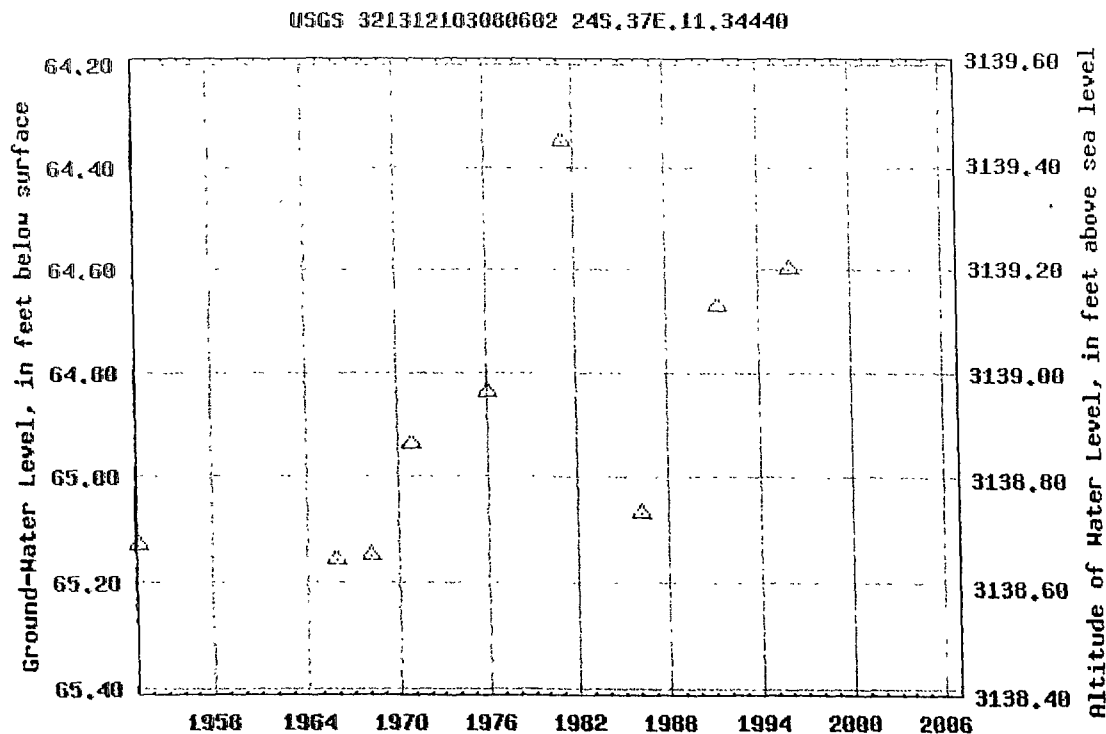
Latitude 32°13'12", Longitude 103°08'06" NAD27

Land-surface elevation 3,203.80 feet above sea level NGVD29

The depth of the well is 80 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.

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 = • 321219103120401

Save file of selected sites to local disk for future upload

USGS 321219103120401 24S.37E.18.433332

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'19", Longitude 103°12'04" NAD27

Land-surface elevation 3,302.10 feet above sea level NGVD29

The depth of the well is 150 feet below land surface.

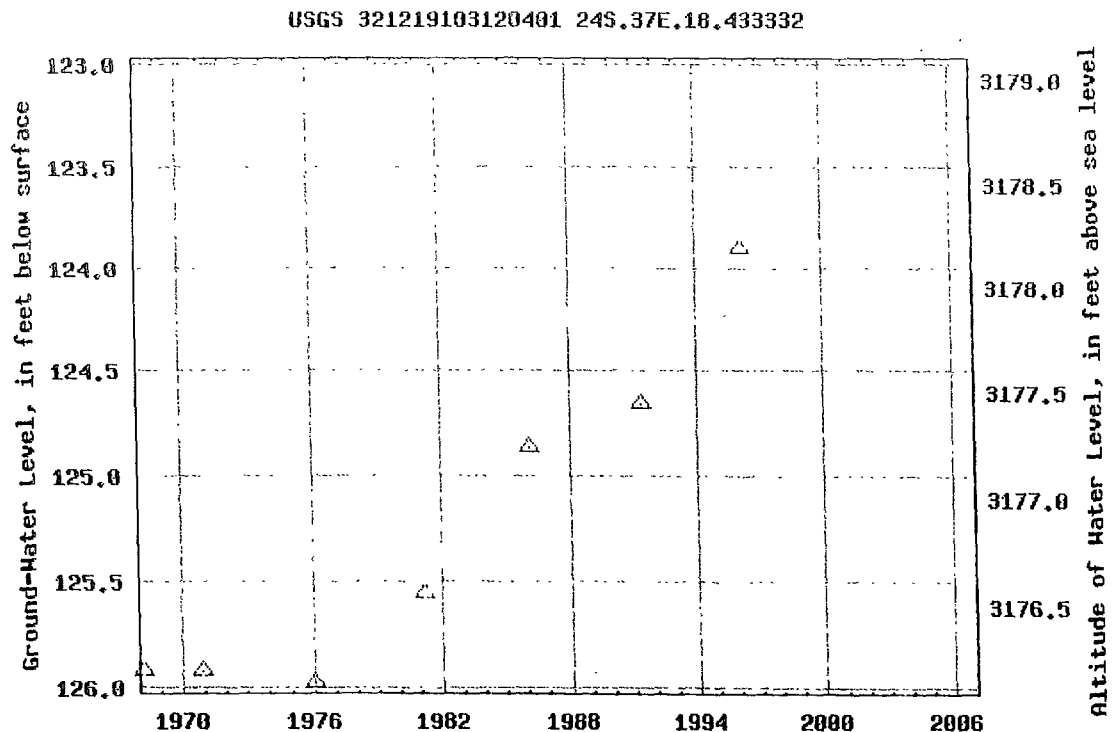
This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) local aquifer.**Output formats**

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.

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 = 321316103094001

Save file of selected sites to local disk for future upload

USGS 321316103094001 24S.37E.09.444111

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°13'16", Longitude 103°09'40" NAD27

Land-surface elevation 3,274.90 feet above sea level NGVD29

The depth of the well is 160 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

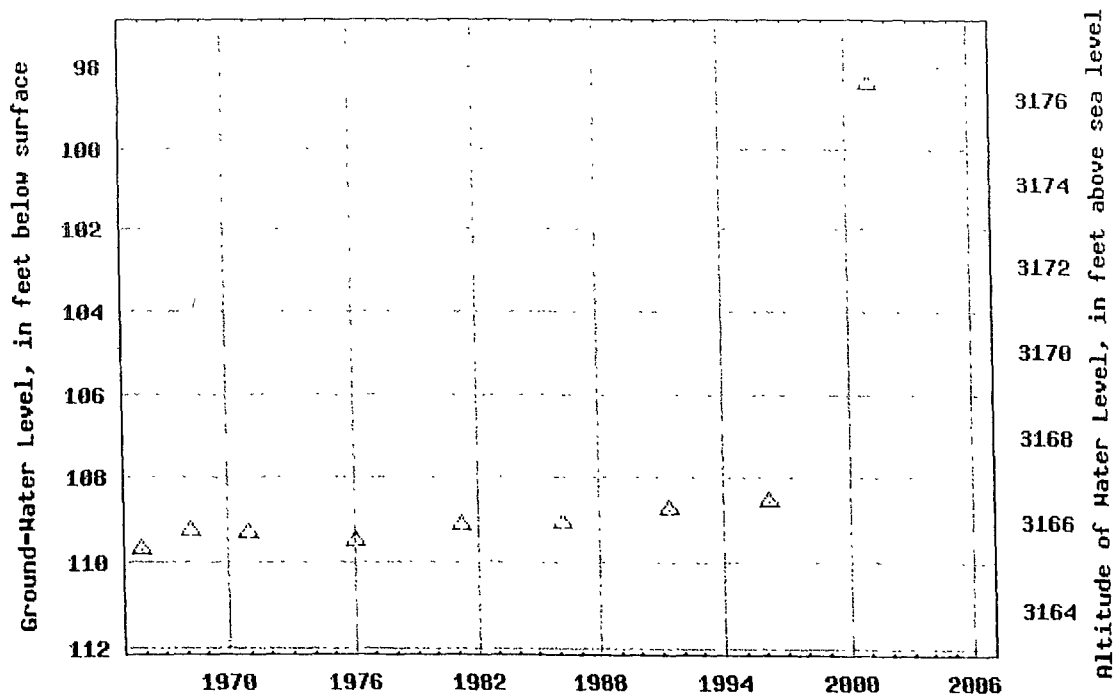
Table of data

Tab-separated data

Graph of data

Reselect period

USGS 321316103094001 24S.37E.09.444111



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

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 = 321319103115701

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

USGS 321319103115701 24S.37E.07.431244

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

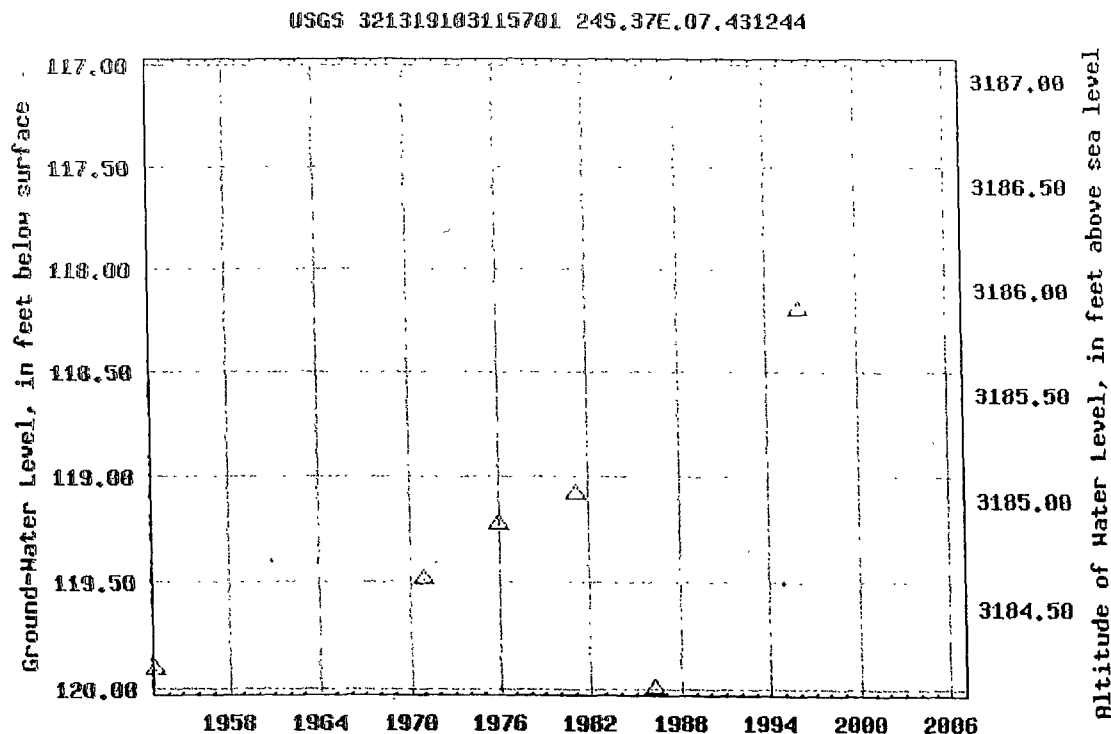
Latitude 32°13'19", Longitude 103°11'57" NAD27

Land-surface elevation 3,304.10 feet above sea level NGVD29

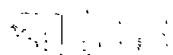
The depth of the well is 152 feet below land surface.

This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND  
OTHER SURFACE DEPOSITS (110AVMB) 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.



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 = • 321215103134302

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

USGS 321215103134302 24S.36E.23.222132

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

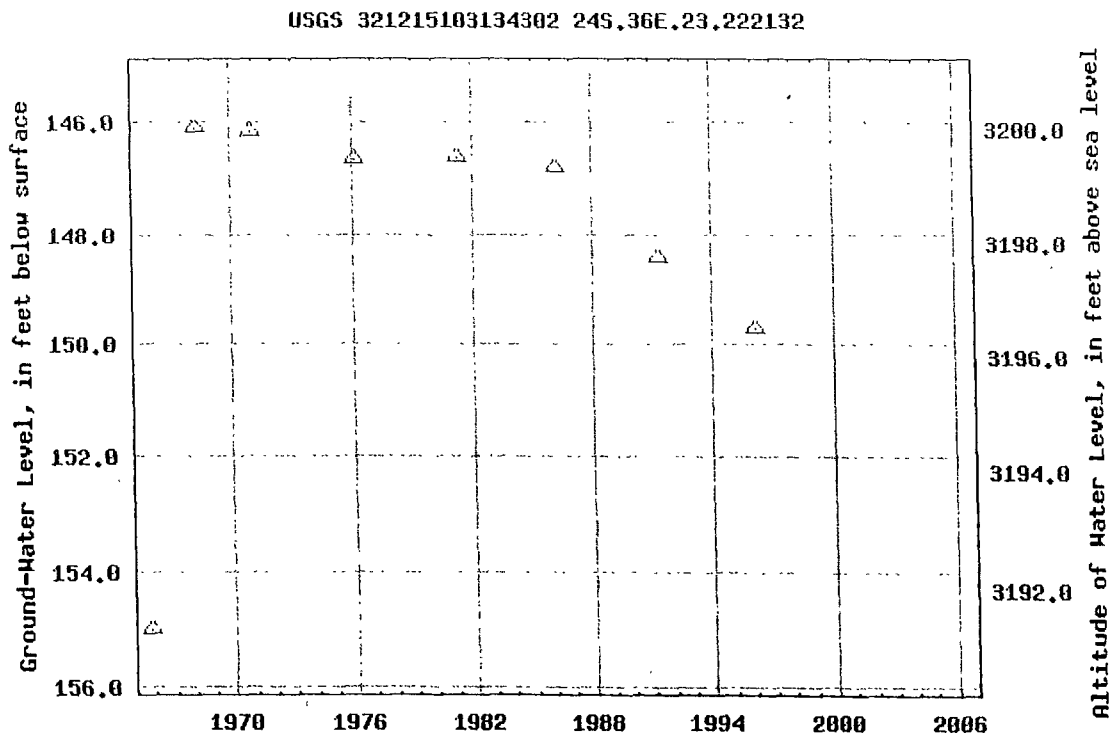
Latitude 32°12'15", Longitude 103°13'43" NAD27

Land-surface elevation 3,346.20 feet above sea level NGVD29

The depth of the well is 170 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.

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 = • 321024103162901

Save file of selected sites to local disk for future upload

USGS 321024103162901 24S.36E.33.13343

Available data for this site

Ground-water Levels

GO

Lea County, New Mexico

Hydrologic Unit Code

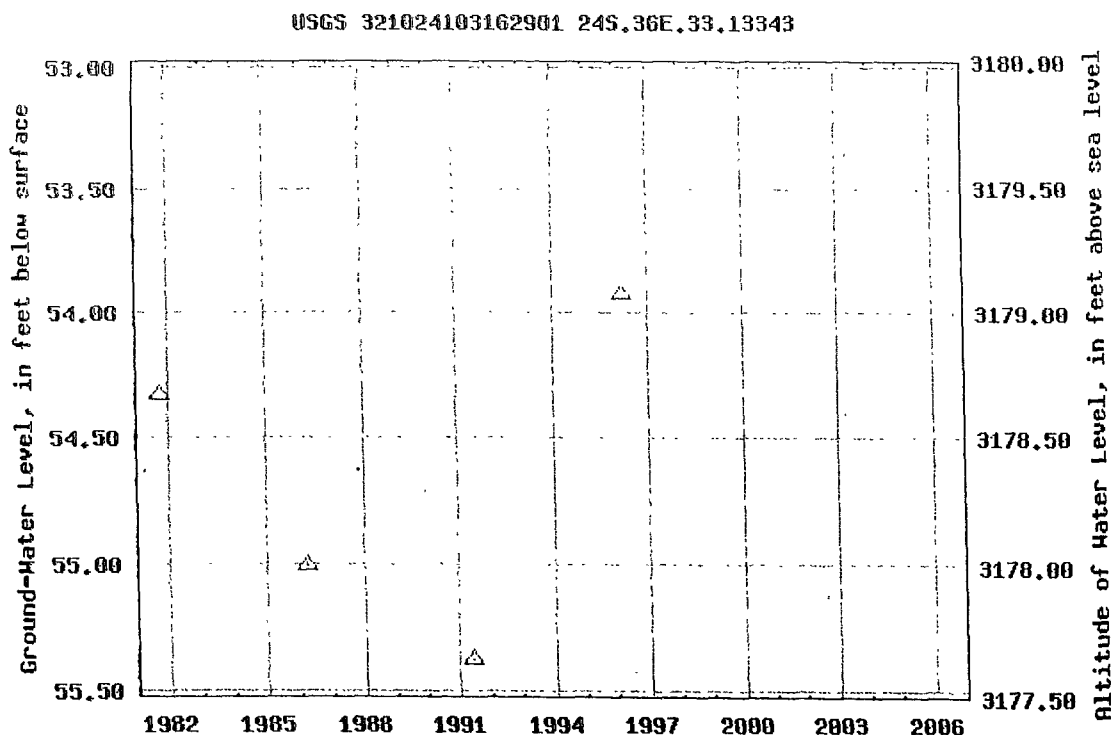
Latitude 32°10'24", Longitude 103°16'29" NAD27

Land-surface elevation 3,233.00 feet above sea level NGVD29

The depth of the well is 75 feet below land surface.

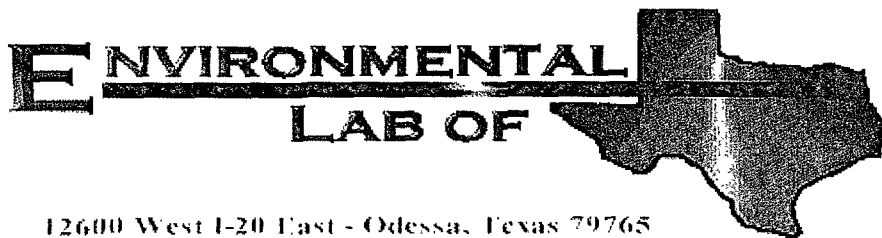
This well is completed in the ALLUVIUM, BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB) local aquifer.

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.

## APPENDIX B



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737

Location: Lea County, NM

Lab Order Number: 6J31010

Report Date: 11/07/06

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-#1 (0-1 0) BEB Bottom 7 0'	6J31010-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#2 (0-1 0) BEB Bottom 14 0'	6J31010-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#3 (0-1 0) BEB Bottom 7 0'	6J31010-04	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#4 (0-1 0) BEB Bottom 4 0'	6J31010-05	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#5 (0-1 0) BEB Bottom 7 0'	6J31010-07	Soil	10/30/06 00.00	10-31-2006 14 20
SP-#6 (0-1 0) BEB Bottom 3 0'	6J31010-09	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#7 (0-1 0) BEB Bottom 2 5'	6J31010-10	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#8 (0-1 0) BEB Bottom 2 0'	6J31010-11	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#9 (0-1 0) BEB Bottom 1 0'	6J31010-12	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#10 (0-1 0) BEB Bottom 1 0'	6J31010-13	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#11 (0-1 0) BEB Bottom 2 0'	6J31010-14	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#12 (0-1 0) BEB Bottom 3 0'	6J31010-15	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#13 (0-1 0) BEB Bottom 2 5'	6J31010-17	Soil	10/30/06 00 00	10-31-2006 14 20

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**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#1 (0-1.0) BEB Bottom 7.0' (6J31010-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60105	11/01/06	11/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		86.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.2 %	70-130		"	"	"	"	
<b>SP-#2 (0-1.0) BEB Bottom 14.0' (6J31010-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60105	11/01/06	11/02/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		83.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.6 %	70-130		"	"	"	"	
<b>SP-#3 (0-1.0) BEB Bottom 7.0' (6J31010-04) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	

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1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#3 (0-1.0) BEB Bottom 7.0' (6J31010-04) Soil</b>									
Carbon Ranges C12-C28	ND	10 0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		79.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70 0 %	70-130		"	"	"	"	
<b>SP-#4 (0-1.0) BEB Bottom 4.0' (6J31010-05) Soil</b>									
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	"	"	"	"	"	"	
Ethylbenzene	ND	0 0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0 0250	"	"	"	"	"	"	
Xylene (o)	ND	0 0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 0 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76 8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71 2 %	70-130		"	"	"	"	
<b>SP-#5 (0-1.0) BEB Bottom 7.0' (6J31010-07) Soil</b>									
Benzene	ND	0 0250	mg/kg dry	25	EK60303	11/03/06	11/06/06	EPA 8021B	
Toluene	ND	0 0250	"	"	"	"	"	"	
Ethylbenzene	ND	0 0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0 0250	"	"	"	"	"	"	
Xylene (o)	ND	0 0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60109	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76 2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-130		"	"	"	"	

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Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#6 (0-1.0) BEB Bottom 3.0' (6J31010-09) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		74.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-130		"	"	"	"	
<b>SP-#7 (0-1.0) BEB Bottom 2.5' (6J31010-10) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.6 %	70-130		"	"	"	"	
<b>SP-#8 (0-1.0) BEB Bottom 2.0' (6J31010-11) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	28.4	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	28.4	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.2 %	70-130		"	"	"	"	

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Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

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**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#9 (0-1.0) BEB Bottom 1.0' (6J31010-12) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	85.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [8.60]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	85.7	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.6 %	70-130		"	"	"	"	
<b>SP-#10 (0-1.0) BEB Bottom 1.0' (6J31010-13) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		81.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-130		"	"	"	"	
<b>SP-#11 (0-1.0) BEB Bottom 2.0' (6J31010-14) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	37.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [6.34]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	37.2	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		84.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	70-130		"	"	"	"	

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Highlander Environmental Corp  
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Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#12 (0-1.0) BEB Bottom 3.0' (6J31010-15) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		83.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.4 %	70-130		"	"	"	"	
<b>SP-#13 (0-1.0) BEB Bottom 2.5' (6J31010-17) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		77.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-130		"	"	"	"	

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Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

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**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#1 (0-1.0) BEB Bottom 7.0' (6J31010-01) Soil</b>									
Chloride	12.8	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	2.3	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#2 (0-1.0) BEB Bottom 14.0' (6J31010-02) Soil</b>									
Chloride	608	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	2.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#3 (0-1.0) BEB Bottom 7.0' (6J31010-04) Soil</b>									
Chloride	124	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.4	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#4 (0-1.0) BEB Bottom 4.0' (6J31010-05) Soil</b>									
Chloride	589	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.9	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#5 (0-1.0) BEB Bottom 7.0' (6J31010-07) Soil</b>									
Chloride	701	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	8.0	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#6 (0-1.0) BEB Bottom 3.0' (6J31010-09) Soil</b>									
Chloride	760	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#7 (0-1.0) BEB Bottom 2.5' (6J31010-10) Soil</b>									
Chloride	609	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.1	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#8 (0-1.0) BEB Bottom 2.0' (6J31010-11) Soil</b>									
Chloride	161	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.4	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

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Project Number 2737  
Project Manager Ike Tavarez

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**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#9 (0-1.0) BEB Bottom 1.0' (6J31010-12) Soil</b>									
Chloride	214	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.1	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP-#10 (0-1.0) BEB Bottom 1.0' (6J31010-13) Soil</b>									
Chloride	455	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	8.9	0 1	%	1	EK60229	10/31/06	11/02/06	% calculation	
<b>SP-#11 (0-1.0) BEB Bottom 2.0' (6J31010-14) Soil</b>									
Chloride	10.7	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.2	0 1	%	1	EK60229	10/31/06	11/02/06	% calculation	
<b>SP-#12 (0-1.0) BEB Bottom 3.0' (6J31010-15) Soil</b>									
Chloride	724	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.7	0 1	%	1	EK60229	10/31/06	11/02/06	% calculation	
<b>SP-#13 (0-1.0) BEB Bottom 2.5' (6J31010-17) Soil</b>									
Chloride	9.80	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	4.9	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

Environmental Lab of Texas

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Highlander Environmental Corp.  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60105 - EPA 5030C (GC)**

**Blank (EK60105-BLK1)**

Prepared & Analyzed 11/01/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate a,a,a-Trifluorotoluene	33.0		ug/kg	40.0		82.5	80-120			
Surrogate 4-Bromofluorobenzene	37.2		"	40.0		93.0	80-120			

**LCS (EK60105-BS1)**

Prepared & Analyzed 11/01/06

Benzene	1.45	0.0250	mg/kg wet	1.25		116	80-120			
Toluene	1.40	0.0250	"	1.25		112	80-120			
Ethylbenzene	1.27	0.0250	"	1.25		102	80-120			
Xylene (p/m)	2.95	0.0250	"	2.50		118	80-120			
Xylene (o)	1.19	0.0250	"	1.25		95.2	80-120			
Surrogate a,a,a-Trifluorotoluene	36.7		ug/kg	40.0		91.8	80-120			
Surrogate 4-Bromofluorobenzene	35.3		"	40.0		88.2	80-120			

**Calibration Check (EK60105-CCV1)**

Prepared 11/01/06 Analyzed 11/02/06

Benzene	53.8		ug/kg	50.0		108	80-120			
Toluene	48.7		"	50.0		97.4	80-120			
Ethylbenzene	47.7		"	50.0		95.4	80-120			
Xylene (p/m)	97.2		"	100		97.2	80-120			
Xylene (o)	40.6		"	50.0		81.2	80-120			
Surrogate a,a,a-Trifluorotoluene	36.8		"	40.0		92.0	80-120			
Surrogate 4-Bromofluorobenzene	35.1		"	40.0		87.8	80-120			

**Matrix Spike (EK60105-MS1)**

Source: 6J27009-05

Prepared 11/01/06 Analyzed 11/02/06

Benzene	1.46	0.0250	mg/kg dry	1.41	ND	104	80-120			
Toluene	1.45	0.0250	"	1.41	ND	103	80-120			
Ethylbenzene	1.47	0.0250	"	1.41	ND	104	80-120			
Xylene (p/m)	3.09	0.0250	"	2.81	ND	110	80-120			
Xylene (o)	1.26	0.0250	"	1.41	ND	89.4	80-120			
Surrogate a,a,a-Trifluorotoluene	32.5		ug/kg	40.0		81.2	80-120			
Surrogate 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60105 - EPA 5030C (GC)**

Matrix Spike Dup (EK60105-MSD1)		Source: 6J27009-05		Prepared 11/01/06		Analyzed 11/02/06			
Benzene	1.52	0.0250	mg/kg dry	1.41	ND	108	80-120	3.77	20
Toluene	1.46	0.0250	"	1.41	ND	104	80-120	0.966	20
Ethylbenzene	1.44	0.0250	"	1.41	ND	102	80-120	1.94	20
Xylene (p/m)	3.04	0.0250	"	2.81	ND	108	80-120	1.83	20
Xylene (o)	1.20	0.0250	"	1.41	ND	85.1	80-120	4.93	20
Surrogate a,a,a-Trifluorotoluene	32.3		ug/kg	40.0		80.8	80-120		
Surrogate 4-Bromofluorobenzene	39.7		"	40.0		99.2	80-120		

**Batch EK60109 - Solvent Extraction (GC)**

Blank (EK60109-BLK1)		Prepared & Analyzed 11/01/06			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet		
Carbon Ranges C12-C28	ND	10.0	"		
Carbon Ranges C28-C35	ND	10.0	"		
Total Hydrocarbons	ND	10.0	"		
Surrogate 1-Chlorooctane	44.4		mg/kg	50.0	88.8 70-130
Surrogate 1-Chlorooctadecane	41.3		"	50.0	82.6 70-130

LCS (EK60109-BS1)		Prepared & Analyzed 11/01/06			
Carbon Ranges C6-C12	468	10.0	mg/kg wet	500	93.6 75-125
Carbon Ranges C12-C28	442	10.0	"	500	88.4 75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	75-125
Total Hydrocarbons	910	10.0	"	1000	91.0 75-125
Surrogate 1-Chlorooctane	56.9		mg/kg	50.0	114 70-130
Surrogate 1-Chlorooctadecane	42.5		"	50.0	85.0 70-130

Calibration Check (EK60109-CCV1)		Prepared 11/01/06		Analyzed 11/02/06	
Carbon Ranges C6-C12	205		mg/kg	250	82.0 80-120
Carbon Ranges C12-C28	231		"	250	92.4 80-120
Total Hydrocarbons	435		"	500	87.0 80-120
Surrogate 1-Chlorooctane	45.5		"	50.0	91.0 70-130
Surrogate 1-Chlorooctadecane	37.4		"	50.0	74.8 70-130

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60109 - Solvent Extraction (GC)**

Matrix Spike (EK60109-MS1)		Source: 6J30014-03		Prepared 11/01/06 Analyzed 11/02/06						
Carbon Ranges C6-C12	512	10.0	mg/kg dry	576	ND	88.9	75-125			
Carbon Ranges C12-C28	486	10.0	"	576	ND	84.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	998	10.0	"	1150	ND	86.8	75-125			
Surrogate 1-Chlorooctane	50.8		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	38.7		"	50.0		77.4	70-130			

Matrix Spike Dup (EK60109-MSD1)		Source: 6J30014-03		Prepared 11/01/06 Analyzed 11/02/06						
Carbon Ranges C6-C12	524	10.0	mg/kg dry	576	ND	91.0	75-125	2.32	20	
Carbon Ranges C12-C28	498	10.0	"	576	ND	86.5	75-125	2.44	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1020	10.0	"	1150	ND	88.7	75-125	2.18	20	
Surrogate 1-Chlorooctane	53.4		mg/kg	50.0		107	70-130			
Surrogate 1-Chlorooctadecane	39.1		"	50.0		78.2	70-130			

**Batch EK60110 - Solvent Extraction (GC)**

Blank (EK60110-BLK1)				Prepared 11/01/06 Analyzed 11/02/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	46.2		mg/kg	50.0		92.4	70-130			
Surrogate 1-Chlorooctadecane	42.7		"	50.0		85.4	70-130			

LCS (EK60110-BS1)				Prepared 11/01/06 Analyzed 11/02/06						
Carbon Ranges C6-C12	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	452	10.0	"	500		90.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	938	10.0	"	1000		93.8	75-125			
Surrogate 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate 1-Chlorooctadecane	44.1		"	50.0		88.2	70-130			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60110 - Solvent Extraction (GC)**

**Calibration Check (EK60110-CCV1)**

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	204		mg/kg	250		81.6	80-120			
Carbon Ranges C12-C28	269		"	250		108	80-120			
Total Hydrocarbons	472		"	500		94.4	80-120			
Surrogate 1-Chlorooctane	46.3		"	50.0		92.6	70-130			
Surrogate 1-Chlorooctadecane	37.0		"	50.0		74.0	70-130			

**Matrix Spike (EK60110-MS1)**

Source: 6J31010-09

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	481	10.0	mg/kg dry	536	ND	89.7	75-125			
Carbon Ranges C12-C28	452	10.0	"	536	ND	84.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	933	10.0	"	1070	ND	87.2	75-125			
Surrogate 1-Chlorooctane	51.0		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	39.1		"	50.0		78.2	70-130			

**Matrix Spike Dup (EK60110-MSD1)**

Source: 6J31010-09

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	478	10.0	mg/kg dry	536	ND	89.2	75-125	0.626	20	
Carbon Ranges C12-C28	462	10.0	"	536	ND	86.2	75-125	2.19	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	940	10.0	"	1070	ND	87.9	75-125	0.747	20	
Surrogate 1-Chlorooctane	48.5		mg/kg	50.0		97.0	70-130			
Surrogate 1-Chlorooctadecane	35.0		"	50.0		70.0	70-130			

**Batch EK60303 - EPA 5030C (GC)**

**Blank (EK60303-BLK1)**

Prepared 11/03/06 Analyzed 11/06/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number. 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60303 - EPA 5030C (GC)**

LCS (EK60303-BS1)		Prepared 11/03/06 Analyzed 11/06/06								
Benzene	1.41	0.0250	mg/kg wet	1.25		113	80-120			
Toluene	1.43	0.0250	"	1.25		114	80-120			
Ethylbenzene	1.50	0.0250	"	1.25		120	80-120			
Xylene (p/m)	2.91	0.0250	"	2.50		116	80-120			
Xylene (o)	1.40	0.0250	"	1.25		112	80-120			
Surrogate a,a,a-Trifluorotoluene	41.3		ug/kg	40.0		103	80-120			
Surrogate 4-Bromofluorobenzene	46.5		"	40.0		116	80-120			

Calibration Check (EK60303-CCV1)		Prepared 11/03/06 Analyzed 11/07/06								
Benzene	59.8		ug/kg	50.0		120	80-120			
Toluene	53.5		"	50.0		107	80-120			
Ethylbenzene	55.9		"	50.0		112	80-120			
Xylene (p/m)	102		"	100		102	80-120			
Xylene (o)	50.2		"	50.0		100	80-120			
Surrogate a,a,a-Trifluorotoluene	44.5		"	40.0		111	80-120			
Surrogate 4-Bromofluorobenzene	37.5		"	40.0		93.8	80-120			

Matrix Spike (EK60303-MS1)		Source: 6K01013-01		Prepared 11/03/06 Analyzed 11/07/06						
Benzene	1.58	0.0250	mg/kg dry	1.33	ND	119	80-120			
Toluene	1.42	0.0250	"	1.33	ND	107	80-120			
Ethylbenzene	1.37	0.0250	"	1.33	ND	103	80-120			
Xylene (p/m)	2.79	0.0250	"	2.66	ND	105	80-120			
Xylene (o)	1.27	0.0250	"	1.33	ND	95.5	80-120			
Surrogate a,a,a-Trifluorotoluene	40.6		ug/kg	40.0		102	80-120			
Surrogate 4-Bromofluorobenzene	44.0		"	40.0		110	80-120			

Matrix Spike Dup (EK60303-MSD1)		Source: 6K01013-01		Prepared 11/03/06 Analyzed 11/07/06						
Benzene	1.51	0.0250	mg/kg dry	1.33	ND	114	80-120	4.29	20	
Toluene	1.38	0.0250	"	1.33	ND	104	80-120	2.84	20	
Ethylbenzene	1.33	0.0250	"	1.33	ND	100	80-120	2.96	20	
Xylene (p/m)	2.85	0.0250	"	2.66	ND	107	80-120	1.89	20	
Xylene (o)	1.32	0.0250	"	1.33	ND	99.2	80-120	3.80	20	
Surrogate a,a,a-Trifluorotoluene	42.0		ug/kg	40.0		105	80-120			
Surrogate 4-Bromofluorobenzene	41.7		"	40.0		104	80-120			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EK60103 - Water Extraction</b>									
<b>Blank (EK60103-BLK1)</b>				Prepared 11/01/06 Analyzed 11/03/06					
Chloride	ND	0.500	mg/kg						
<b>LCS (EK60103-BS1)</b>				Prepared 11/01/06 Analyzed 11/03/06					
Chloride	10.9	0.500	mg/kg	10.0	109	80-120			
<b>Calibration Check (EK60103-CCV1)</b>				Prepared 11/01/06 Analyzed 11/03/06					
Chloride	11.0		mg/L	10.0	110	80-120			
<b>Duplicate (EK60103-DUP1)</b>				Source: 6J31002-05		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	2290	50.0	mg/kg		2270		0.877	20	
<b>Duplicate (EK60103-DUP2)</b>				Source: 6J31010-13		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	458	10.0	mg/kg		455		0.657	20	
<b>Matrix Spike (EK60103-MS1)</b>				Source: 6J31002-05		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	3390	50.0	mg/kg	1000	2270	112	80-120		
<b>Matrix Spike (EK60103-MS2)</b>				Source: 6J31010-13		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	693	10.0	mg/kg	200	455	119	80-120		
<b>Batch EK60229 - General Preparation (Prep)</b>									
<b>Blank (EK60229-BLK1)</b>				Prepared 10/31/06 Analyzed 11/01/06					
% Solids	100		%						
<b>Duplicate (EK60229-DUP1)</b>				Source: 6J31009-01		Prepared 10/31/06 Analyzed 11/01/06			
% Solids	92.0		%		92.2		0.217	20	

Environmental Lab of Texas

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

### Notes and Definitions

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

11/7/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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# Analysis Request and Chain of Custody Record

## HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.  
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: 606 SITE MANAGER: Ike Tavares

PROJECT NO.: 2737 PROJECT NAME: C06 - Salt #7 Well flow line leak  
Lea County, NM

SAMPLE IDENTIFICATION

GRAB

COMP.

MATRIX

DATE

TIME

PRESERVATIVE METHOD

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

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COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HINOS

ICE

NONE

LAB ID. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION



**Environmental Lab of Texas**  
Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
Date/ Time: 10/31/06 2:20  
Lab ID #: 6.531010  
Initials: CK

**Sample Receipt Checklist**

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	4.0 ° C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

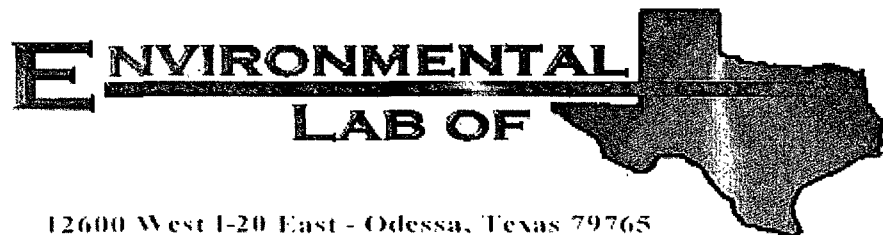
**Variance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737

Location: Lea County, NM

Lab Order Number: 6K13008

Report Date: 11/16/06

Highlander Environmental Corp  
1910 N. Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavaréz

Fax (432) 682-3946

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-#2 (1-1.5') BEB Bottom 14.0'	6K13008-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#4 (1-1.5') BEB Bottom 4.0'	6K13008-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#5 (1-1.5') BEB Bottom 7.0'	6K13008-03	Soil	10/30/06 00 00	10-31-2006 14 20
SP-#12 (1-1.5') BEB Bottom 3.0'	6K13008-04	Soil	10/30/06 00 00	10-31-2006 14 20

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-#2 (1-1.5') BEB Bottom 14.0' (6K13008-01) Soil</b>									
Chloride	553	10 0	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	
<b>SP-#4 (1-1.5') BEB Bottom 4.0' (6K13008-02) Soil</b>									
Chloride	214	5 00	mg/kg	10	EK61508	11/15/06	11/15/06	EPA 300 0	
<b>SP-#5 (1-1.5') BEB Bottom 7.0' (6K13008-03) Soil</b>									
Chloride	514	10 0	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	
<b>SP-#12 (1-1.5') BEB Bottom 3.0' (6K13008-04) Soil</b>									
Chloride	664	10 0	mg/kg	20	EK61508	11/15/06	11/15/06	EPA 300 0	

Highlander Environmental Corp  
1910 N. Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EK61508 - Water Extraction</b>										
<b>Blank (EK61508-BLK1)</b>				Prepared & Analyzed 11/15/06						
Chloride	ND	0.500	mg/kg							
<b>LCS (EK61508-BS1)</b>				Prepared & Analyzed 11/15/06						
Chloride	10.1	0.500	mg/kg	10.0		101	80-120			
<b>Calibration Check (EK61508-CCV1)</b>				Prepared & Analyzed 11/15/06						
Chloride	10.5		mg/L	10.0		105	80-120			
<b>Duplicate (EK61508-DUP1)</b>				<b>Source: 6K13008-01</b>		Prepared & Analyzed 11/15/06				
Chloride	561	10.0	mg/kg		553			1.44	20	
<b>Duplicate (EK61508-DUP2)</b>				<b>Source: 6K14009-01</b>		Prepared & Analyzed 11/15/06				
Chloride	1910	40.0	mg/kg		1870			2.12	20	
<b>Matrix Spike (EK61508-MS1)</b>				<b>Source: 6K13008-01</b>		Prepared & Analyzed 11/15/06				
Chloride	769	10.0	mg/kg	200	553	108	80-120			
<b>Matrix Spike (EK61508-MS2)</b>				<b>Source: 6K14009-01</b>		Prepared & Analyzed 11/15/06				
Chloride	2830	40.0	mg/kg	800	1870	120	80-120			

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.*

Page 3 of 4

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager: Ike Tavarez

Fax (432) 682-3946

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K Tuttle*

Date:

11/16/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas:*

Page 4 of 4

## Analysis Request and Chain of Custody Record

## HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

PAGE: 2 OF: 2

ANALYSIS REQUEST  
(Circle or Specify Method No.)

CLIENT NAME:		SITE MANAGER:		NUMBER OF CONTAINERS	PRESERVATIVE METHOD	ANALYSIS REQUEST																		
PROJECT NO.:		PROJECT NAME:				HTX 8020/803	MTX 8020/803	418.1	5015 MOD.	TT005	PCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Metals Ag As Ba Cd Cr Pd Hg Se	TCIP Volatiles	TCIP Semi Volatiles	ECI	GCMS Vol. 8240/8280/824	GCMS Saml. Vol. 8270/825	PCN's 8020/808	Post. 808/808	BOD, TSS, pH, TDS, Chlorides	Gamma Spec.	Alpha Beta (air)	PLM (Asbestos)	
6K 13008 LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	HTX 8020/803	MTX 8020/803	418.1	5015 MOD.	TT005	PCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Metals Ag As Ba Cd Cr Pd Hg Se	TCIP Volatiles	TCIP Semi Volatiles	ECI	GCMS Vol. 8240/8280/824	GCMS Saml. Vol. 8270/825	PCN's 8020/808	Post. 808/808	BOD, TSS, pH, TDS, Chlorides	Gamma Spec.	Alpha Beta (air)	PLM (Asbestos)
11	10/30/06		S	X		SP-# 8 (0-1.0') BEB Bottom 2.0'																		
12			S	X		SP-# 9 (0-1.0') BEB Bottom 1.0'																		
13			S	X		SP-# 10 (0-1.0') BEB Bottom 1.0'																		
14			S	X		SP-# 11 (0-1.0') BEB Bottom 2.0'																		
15			S	X		SP-# 12 (0-1.0') BEB Bottom 3.0'																		
16			S	X		SP-# 12 (1-1.5') BEB Bottom 3.0'																		
17			S	X		SP-# 13 (0-1.0') BEB Bottom 2.5'																		
RELINQUISHED BY: (Signature) _____ Date: 10/31/06 Time: 2:20							RECEIVED BY: (Signature) _____ Date: _____ Time: _____							SAMPLED BY: (Print & Sign) _____ Date: 10/30/06 Time: _____										
RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____							RECEIVED BY: (Signature) _____ Date: _____ Time: _____							SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL \$ _____ HAND DELIVERED UPS OTHER: _____										
RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____							RECEIVED BY: (Signature) _____ Date: _____ Time: _____							HIGHLANDER CONTACT PERSON: _____ Results by: _____										
RECEIVING LABORATORY: F L T ADDRESS: _____ CITY: Midland STATE: Texas ZIP: _____ CONTACT: _____ PHONE: _____ DATE: 10/31/06 TIME: 2:20							RECEIVED BY: (Signature) _____ DATE: 10/31/06 TIME: 2:20							Ike Tavaréz										
SAMPLE CONDITION WHEN RECEIVED: _____ MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other							REMARKS: _____							RUSH Charges Authorised: Yes No										

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy

COPY

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
 Date/ Time: 10/31/00 2:20  
 Lab ID #: 1031010 WK13008  
 Initials: CK

**COPY**

### Sample Receipt Checklist

Client Initials

1 Temperature of container/ cooler?	Yes	No	4.0 °C	
2 Shipping container in good condition?	Yes	No		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody present?	Yes	No		
6 Sample instructions complete of Chain of Custody?	Yes	No		
7 Chain of Custody signed when relinquished/ received?	Yes	No		
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	Yes	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	Yes	No		
12 Samples in proper container/ bottle?	Yes	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No		
15 Preservations documented on Chain of Custody?	Yes	No		
16 Containers documented on Chain of Custody?	Yes	No		
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
18 All samples received within sufficient hold time?	Yes	No	See Below	
19 VOC samples have zero headspace?	Yes	No	Not Applicable	

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event

**Jeanne McMurrey**

---

**From:** "Tim Reed" <treed@hec-enviro.com>  
**To:** "Jeanne McMurrey" <jeanne@elabtxas.com>  
**Sent:** Monday, November 13, 2006 9:34 AM  
**Subject:** RE: Report #6J31010 COG/ Jal Mat #7 (complete)

November 13, 2006

Jeanne Mc Murrey  
Environmental Labs of Texas  
Lab Order Number 6J31010  
COG Jalmat #7  
Project Number 2737

Jeanne:

Please analyze the following additional samples for chloride:

SP-#2 (1-1.5')  
SP-#4 (1-1.5')  
SP-#5 (1-1.5')  
SP-#12 (1-1.5')

Thank you,

Tim Reed, P.G.  
Vice President  
Highlander Environmental Corp.  
office - (432) 682-4559  
fax - (432) 682-3946  
cell - (432) 557-4680

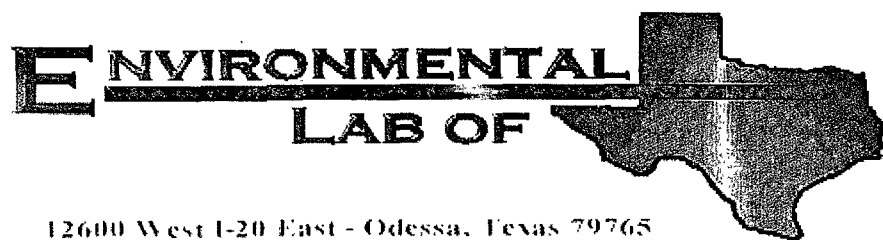
-----Original Message-----

**From:** Jeanne McMurrey [mailto:jeanne@elabtxas.com]  
**Sent:** Tuesday, November 07, 2006 5:25 PM  
**To:** Tim Reed; Ike Tavaréz  
**Subject:** Re: Report #6J31010 COG/ Jal Mat #7 (complete)

Jeanne McMurrey  
Environmental Lab of Texas I, Ltd.  
12600 West I-20 East  
Odessa, Texas 79765  
432-563-1800

--  
This message has been scanned for viruses and  
dangerous content by Basin Broadband, and is  
believed to be clean.

11/13/2006



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737

Location: Lea County, NM

Lab Order Number: 6J31011

Report Date: 11/08/06

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project: COG/ Jalmat #7 Well Flow Line Leak  
Project Number: 2737  
Project Manager: Ike Tavarez

Fax (432) 682-3946

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP- West Side Wall North	6J31011-01	Soil	10/30/06 00 00	10-31-2006 14 20
SP- West Side Wall South	6J31011-02	Soil	10/30/06 00 00	10-31-2006 14 20
SP- West Side Wall Middle	6J31011-03	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall North	6J31011-04	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall South	6J31011-05	Soil	10/30/06 00 00	10-31-2006 14 20
SP- East Side Wall Middle	6J31011-06	Soil	10/30/06 00 00	10-31-2006 14 20
SP- North Side Wall	6J31011-07	Soil	10/30/06 00 00	10-31-2006 14 20
SP- South Side Wall	6J31011-08	Soil	10/30/06 00 00	10-31-2006 14 20

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP- West Side Wall North (6J31011-01) Soil</b>									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		84.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.6 %	70-130		"	"	"	"	
<b>SP- West Side Wall South (6J31011-02) Soil</b>									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.8 %	70-130		"	"	"	"	
<b>SP- West Side Wall Middle (6J31011-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas

Page 2 of 11

Highlander Environmental Corp.  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP- East Side Wall North (6J31011-04) Soil</b>									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		73.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-130		"	"	"	"	
<b>SP- East Side Wall South (6J31011-05) Soil</b>									
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		81.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-130		"	"	"	"	
<b>SP- East Side Wall Middle (6J31011-06) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10 0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10 0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10 0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.0 %	70-130		"	"	"	"	

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP- North Side Wall (6J31011-07) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		77.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.2 %	70-130		"	"	"	"	
<b>SP- South Side Wall (6J31011-08) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EK60303	11/06/06	11/06/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK60110	11/01/06	11/02/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		76.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.6 %	70-130		"	"	"	"	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP- West Side Wall North (6J31011-01) Soil</b>									
Chloride	8.07	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.4	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- West Side Wall South (6J31011-02) Soil</b>									
Chloride	143	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	6.2	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- West Side Wall Middle (6J31011-03) Soil</b>									
Chloride	78.8	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	5.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- East Side Wall North (6J31011-04) Soil</b>									
Chloride	287	10 0	mg/kg	20	EK60103	11/01/06	11/03/06	EPA 300 0	
% Moisture	3.3	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- East Side Wall South (6J31011-05) Soil</b>									
Chloride	J [2.36]	5 00	mg/kg	10	EK60103	11/01/06	11/03/06	EPA 300 0	J
% Moisture	4.7	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- East Side Wall Middle (6J31011-06) Soil</b>									
Chloride	22.6	5 00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300 0	
% Moisture	1.1	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- North Side Wall (6J31011-07) Soil</b>									
Chloride	5.40	5 00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300.0	
% Moisture	5.8	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	
<b>SP- South Side Wall (6J31011-08) Soil</b>									
Chloride	J [4.00]	5.00	mg/kg	10	EK60501	11/05/06	11/05/06	EPA 300 0	J
% Moisture	4.8	0 1	%	1	EK60229	10/31/06	11/01/06	% calculation	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavaréz

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch EK60110 - Solvent Extraction (GC)**

**Blank (EK60110-BLK1)**

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	46.2		mg/kg	50.0		92.4	70-130			
Surrogate 1-Chlorooctadecane	42.7		"	50.0		85.4	70-130			

**LCS (EK60110-BS1)**

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	486	10.0	mg/kg wet	500		97.2	75-125			
Carbon Ranges C12-C28	452	10.0	"	500		90.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	938	10.0	"	1000		93.8	75-125			
Surrogate 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate 1-Chlorooctadecane	44.1		"	50.0		88.2	70-130			

**Calibration Check (EK60110-CCV1)**

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	204		mg/kg	250		81.6	80-120			
Carbon Ranges C12-C28	269		"	250		108	80-120			
Total Hydrocarbons	472		"	500		94.4	80-120			
Surrogate 1-Chlorooctane	46.3		"	50.0		92.6	70-130			
Surrogate 1-Chlorooctadecane	37.0		"	50.0		74.0	70-130			

**Matrix Spike (EK60110-MS1)**

Source: 6J31010-09

Prepared 11/01/06 Analyzed 11/02/06

Carbon Ranges C6-C12	481	10.0	mg/kg dry	536	ND	89.7	75-125			
Carbon Ranges C12-C28	452	10.0	"	536	ND	84.3	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	933	10.0	"	1070	ND	87.2	75-125			
Surrogate 1-Chlorooctane	51.0		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	39.1		"	50.0		78.2	70-130			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EK60110 - Solvent Extraction (GC)**

Matrix Spike Dup (EK60110-MSD1)		Source: 6J31010-09		Prepared 11/01/06		Analyzed 11/02/06				
Carbon Ranges C6-C12	478	10 0	mg/kg dry	536	ND	89 2	75-125	0 626	20	
Carbon Ranges C12-C28	462	10 0	"	536	ND	86 2	75-125	2 19	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	ND		75-125		20	
Total Hydrocarbons	940	10 0	"	1070	ND	87 9	75-125	0 747	20	
Surrogate 1-Chlorooctane	48 5		mg/kg	50 0		97 0	70-130			
Surrogate 1-Chlorooctadecane	35 0		"	50 0		70 0	70-130			

**Batch EK60303 - EPA 5030C (GC)**

Blank (EK60303-BLK1)		Prepared 11/03/06		Analyzed 11/06/06						
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	"							
Ethylbenzene	ND	0 0250	"							
Xylene (p/m)	ND	0 0250	"							
Xylene (o)	ND	0 0250	"							
Surrogate a,a,a-Trifluorotoluene	38 4		ug/kg	40 0		96 0	80-120			
Surrogate 4-Bromofluorobenzene	39 2		"	40 0		98 0	80-120			

LCS (EK60303-BS1)		Prepared 11/03/06		Analyzed 11/06/06						
Benzene	1 41	0 0250	mg/kg wet	1 25		113	80-120			
Toluene	1 43	0 0250	"	1 25		114	80-120			
Ethylbenzene	1 50	0 0250	"	1 25		120	80-120			
Xylene (p/m)	2 91	0 0250	"	2 50		116	80-120			
Xylene (o)	1 40	0 0250	"	1 25		112	80-120			
Surrogate a,a,a-Trifluorotoluene	41 3		ug/kg	40 0		103	80-120			
Surrogate 4-Bromofluorobenzene	46 5		"	40 0		116	80-120			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch EK60303 - EPA 5030C (GC)**

**Calibration Check (EK60303-CCV1)**

Prepared 11/03/06 Analyzed 11/07/06

Benzene	59.8		ug/kg	50.0		120	80-120			
Toluene	53.5		"	50.0		107	80-120			
Ethylbenzene	55.9		"	50.0		112	80-120			
Xylene (p/m)	102		"	100		102	80-120			
Xylene (o)	50.2		"	50.0		100	80-120			
Surrogate a,a,a-Trifluorotoluene	44.5		"	40.0		111	80-120			
Surrogate 4-Bromofluorobenzene	37.5		"	40.0		93.8	80-120			

**Matrix Spike (EK60303-MS1)**

Source: 6K01013-01

Prepared 11/03/06 Analyzed 11/07/06

Benzene	1.58	0.0250	mg/kg dry	1.33	ND	119	80-120			
Toluene	1.42	0.0250	"	1.33	ND	107	80-120			
Ethylbenzene	1.37	0.0250	"	1.33	ND	103	80-120			
Xylene (p/m)	2.79	0.0250	"	2.66	ND	105	80-120			
Xylene (o)	1.27	0.0250	"	1.33	ND	95.5	80-120			
Surrogate a,a,a-Trifluorotoluene	40.6		ug/kg	40.0		102	80-120			
Surrogate 4-Bromofluorobenzene	44.0		"	40.0		110	80-120			

**Matrix Spike Dup (EK60303-MSD1)**

Source: 6K01013-01

Prepared 11/03/06 Analyzed 11/07/06

Benzene	1.51	0.0250	mg/kg dry	1.33	ND	114	80-120	4.29	20	
Toluene	1.38	0.0250	"	1.33	ND	104	80-120	2.84	20	
Ethylbenzene	1.33	0.0250	"	1.33	ND	100	80-120	2.96	20	
Xylene (p/m)	2.85	0.0250	"	2.66	ND	107	80-120	1.89	20	
Xylene (o)	1.32	0.0250	"	1.33	ND	99.2	80-120	3.80	20	
Surrogate a,a,a-Trifluorotoluene	42.0		ug/kg	40.0		105	80-120			
Surrogate 4-Bromofluorobenzene	41.7		"	40.0		104	80-120			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EK60103 - Water Extraction</b>										
<b>Blank (EK60103-BLK1)</b>					Prepared 11/01/06 Analyzed 11/03/06					
Chloride	ND	0.500	mg/kg							
<b>LCS (EK60103-BS1)</b>					Prepared 11/01/06 Analyzed 11/03/06					
Chloride	10.9	0.500	mg/kg	10.0		109	80-120			
<b>Calibration Check (EK60103-CCV1)</b>					Prepared 11/01/06 Analyzed 11/03/06					
Chloride	11.0		mg/L	10.0		110	80-120			
<b>Duplicate (EK60103-DUP1)</b>					<b>Source: 6J31002-05</b>		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	2290	50.0	mg/kg		2270			0.877	20	
<b>Duplicate (EK60103-DUP2)</b>					<b>Source: 6J31010-13</b>		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	458	10.0	mg/kg		455			0.657	20	
<b>Matrix Spike (EK60103-MS1)</b>					<b>Source: 6J31002-05</b>		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	3390	50.0	mg/kg	1000	2270	112	80-120			
<b>Matrix Spike (EK60103-MS2)</b>					<b>Source: 6J31010-13</b>		Prepared 11/01/06 Analyzed 11/03/06			
Chloride	693	10.0	mg/kg	200	455	119	80-120			
<b>Batch EK60229 - General Preparation (Prep)</b>										
<b>Blank (EK60229-BLK1)</b>					Prepared 10/31/06 Analyzed 11/01/06					
% Solids	100		%							
<b>Duplicate (EK60229-DUP1)</b>					<b>Source: 6J31009-01</b>		Prepared 10/31/06 Analyzed 11/01/06			
% Solids	92.0		%		92.2			0.217	20	

Environmental Lab of Texas

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EK60501 - Water Extraction</b>										
<b>Blank (EK60501-BLK1)</b>										
					Prepared & Analyzed 11/05/06					
Chloride	ND	0.500	mg/kg							
<b>LCS (EK60501-BS1)</b>										
					Prepared & Analyzed 11/05/06					
Chloride	10.2	0.500	mg/kg	10.0		102	80-120			
<b>Calibration Check (EK60501-CCV1)</b>										
					Prepared & Analyzed 11/05/06					
Chloride	11.1		mg/L	10.0		111	80-120			
<b>Duplicate (EK60501-DUP1)</b>										
				Source: 6J31011-06		Prepared & Analyzed 11/05/06				
Chloride	23.3	5.00	mg/kg		22.6			3.05	20	
<b>Duplicate (EK60501-DUP2)</b>										
				Source: 6K01010-04		Prepared & Analyzed 11/05/06				
Chloride	1700	500	mg/kg		1800			5.71	20	
<b>Matrix Spike (EK60501-MS1)</b>										
				Source: 6J31011-06		Prepared & Analyzed 11/05/06				
Chloride	122	5.00	mg/kg	100	22.6	99.4	80-120			

Environmental Lab of Texas

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Highlander Environmental Corp.  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

### Notes and Definitions

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

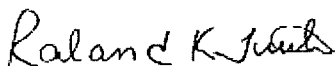
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

11/8/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.



# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
 Date/ Time: 10/31/00 2:20  
 Lab ID #: 10531011  
 Initials: CK

### Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	Yes	No	4.0 °C	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by EL0T?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 VOC samples have zero headspace?	Yes	No	Not Applicable	

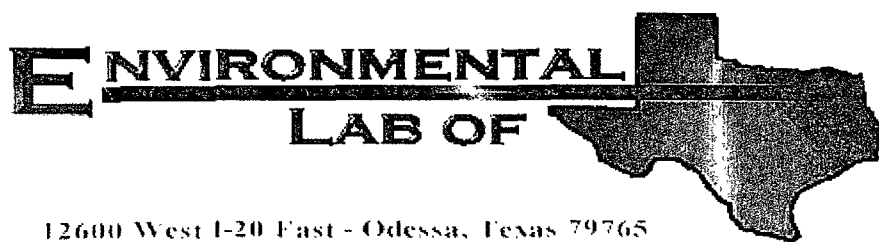
### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737

Location: Lea County, NM

Lab Order Number: 7C01008

Report Date: 03/05/07

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP#2 2'-2 5' BEB	7C01008-01	Soil	02/28/07 00 00	03-01-2007 13 20
SP#5 2'-2 5' BEB	7C01008-03	Soil	02/28/07 00 00	03-01-2007 13 20
SP#12 2'-2 5' BEB	7C01008-06	Soil	02/28/07 00 00	03-01-2007 13 20

Highlander Environmental Corp  
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Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager: Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP#2 2'-2.5' BEB (7C01008-01) Soil</b>									
Chloride	189	10 0	mg/kg	20	EC70501	03/02/07	03/03/07	EPA 300 0	
<b>SP#5 2'-2.5' BEB (7C01008-03) Soil</b>									
Chloride	243	5 00	mg/kg	10	EC70501	03/02/07	03/03/07	EPA 300 0	
<b>SP#12 2'-2.5' BEB (7C01008-06) Soil</b>									
Chloride	228	5 00	mg/kg	10	EC70501	03/02/07	03/03/07	EPA 300 0	

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Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EC70501 - General Preparation (WetChem)</b>										
<b>Blank (EC70501-BLK1)</b>										
					Prepared 03/02/07 Analyzed 03/03/07					
Chloride	ND	0.500	mg/kg							
<b>LCS (EC70501-BS1)</b>										
					Prepared 03/02/07 Analyzed 03/03/07					
Chloride	10.8	0.500	mg/kg	10.0		108	80-120			
<b>Calibration Check (EC70501-CCV1)</b>										
					Prepared 03/02/07 Analyzed 03/03/07					
Chloride	9.59		mg/kg	10.0		95.9	80-120			
<b>Duplicate (EC70501-DUP1)</b>										
					Source: 7B28001-01 Prepared 03/02/07 Analyzed 03/03/07					
Chloride	304	10.0	mg/kg		304			0.00	20	
<b>Duplicate (EC70501-DUP2)</b>										
					Source: 7C01016-01 Prepared 03/02/07 Analyzed 03/03/07					
Chloride	154	10.0	mg/kg		157			1.93	20	
<b>Matrix Spike (EC70501-MS1)</b>										
					Source: 7B28001-01 Prepared 03/02/07 Analyzed 03/03/07					
Chloride	538	10.0	mg/kg	200	304	117	80-120			
<b>Matrix Spike (EC70501-MS2)</b>										
					Source: 7C01016-01 Prepared 03/02/07 Analyzed 03/03/07					
Chloride	661	10.0	mg/kg	200	157	252	80-120			M1

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas*

Page 3 of 4

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavaréz

Fax: (432) 682-3946

#### Notes and Definitions

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference See Blank Spike (LCS)  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By: \_\_\_\_\_

Date: 3/5/2007

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
La Tasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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# Analysis Request and Chain of Custody Record

## HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.  
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: **C06**

SITE MANAGER: **Ike Tovar**

PROJECT NO.: **2737**

PROJECT NAME: **C06 - Tel Mat #7 Flowline Leak**

SAMPLE IDENTIFICATION  
**Lea Cont/1, NM**

PRESERVATIVE METHOD  
HCL  
HNO3  
ICE  
NONE

NUMBER OF CONTAINERS  
FILTERED (Y/N)

DATE

TIME

LAB I.D. NUMBER

DATE

TIME

LAB I.D. NUMBER

DATE

TIME

LAB I.D. NUMBER

DATE

TIME

LAB I.D. NUMBER

DATE

TIME

LAB I.D. NUMBER

PROJECT NAME: **C06 - Tel Mat #7 Flowline Leak**

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**Lea Cont/1, NM**

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DATE

TIME

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
 Date/ Time: 4/1/07 13:20  
 Lab ID #: 7001008  
 Initials: UK

### Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	4.0 °C	
#2	Shipping container in good condition?	<del>Yes</del>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<del>Not Present</del>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<del>Not Present</del>	
#5	Chain of Custody present?	<del>Yes</del>	No		
#6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No		
#7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No		
#8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<del>Yes</del>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No		
#11	Containers supplied by ELOT?	<del>Yes</del>	No		
#12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below	
#13	Samples properly preserved?	<del>Yes</del>	No	See Below	
#14	Sample bottles intact?	<del>Yes</del>	No		
#15	Preservations documented on Chain of Custody?	<del>Yes</del>	No		
#16	Containers documented on Chain of Custody?	<del>Yes</del>	No		
#17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below	
#18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<del>Not Applicable</del>	
#20	VOC samples have zero headspace?	Yes	No	<del>Not Applicable</del>	

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event

# **Analytical Report 287996**

**for**

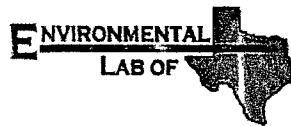
**Highlander Environmental Corp.**

**Project Manager: Ike Tavarez**

**COG / Jalmat # 7 Well Flowline Leak**

**2737**

**18-AUG-07**



**12600 West I-20 East Odessa, Texas 79765**

**A Xenco Laboratories Company**

**NELAC certification numbers:**

**Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675**

**Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America**



18-AUG-07

Project Manager: **Ike Tavarez**  
**Highlander Environmental Corp.**  
1910 N. Big Spring Street  
Midland, TX 79705

Reference: XENCO Report No: **287996**  
**COG / Jalmat # 7 Well Flowline Leak**  
Project Address: Lea County, NM

**Ike Tavarez:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287996. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287996 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Brent Barron**

Odessa Laboratory Director

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*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



# Certificate of Analysis Summary 287996

Highlander Environmental Corp., Midland, TX

Project Name: COG / Jalmat # 7 Well Flowline Leak

Project Id: 2737

Contact: Ike Tavaraz

Project Location: Lea County, NM

Date Received in Lab: Thu Aug-16-07 09 40 am


Report Date: 18-AUG-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	287996-001	287996-003	287996-005			
	<i>Field Id:</i>	SP-6 (2'-2 5') BEB (3 0')	SP-7 (2'-2 5') BEB (2 5')	SP-10 (2'-2 5') BEB (1 0')			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
<b>Total Chloride by EPA 325.3</b>	<i>Sampled:</i>	Aug-14-07 00:00	Aug-14-07 00 00	Aug-14-07 00:00			
	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-17-07 16:30	Aug-17-07 16:30	Aug-17-07 16:30			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		53.2 5.00	85.1 5.00	85.1 5 00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

  
Brent Barron  
Odessa Laboratory Director



## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

11381 Meadowglen Lane Suite L Houston, Tx 77082-2647  
9701 Harry Hines Blvd , Dallas, TX 75220  
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238  
2505 N. Falkenburg Rd., Tampa, FL 33619  
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



## Blank Spike Recovery



Project Name: COG / Jalmat # 7 Well Flowline Leak

Work Order #: 287996

Project ID:

2737

Lab Batch #: 702529

Sample: 702529-1-BKS

Matrix: Solid

Date Analyzed: 08/17/2007

Date Prepared: 08/17/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

### BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3  Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Chloride	ND	100	90.3	90	75-125	

Blank Spike Recovery [D] =  $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.

Analysis Request and Chain of Custody Record															PAGE: / OF: /		
HIGHLANDER ENVIRONMENTAL CORP.															ANALYSIS REQUEST		
1910 N. Big Spring St. Midland, Texas 79705															(Circle or Specify Method No.)		
(432) 682-4559															Fax (432) 682-3946		
CLIENT NAME: <u>COG Operating</u>										SITE MANAGER: <u>Ike Tavares</u>					PRESERVATIVE METHOD		
PROJECT NO. <u>2737</u>										PROJECT NAME: <u>COG/Jalrat #7 well Flowline Leak</u>					NUMBER OF CONTAINERS		
LAB I.D. NUMBER										DATE					TIME		
MATRIX										COMP					GRADE		
SAMPLE IDENTIFICATION										NUMBER OF CONTAINERS					FILTERED (Y/N)		
287996										HCL					HNO3		
										ICE					NONE		
										HTEX 8020/008					HTEX 8020/008		
										TYP 418.1					TYP 418.1		
										PAH 8270					PAH 8270		
										ACMA Metals Ag As Ba Cd Cr Pb Hg Se					ACMA Metals Ag As Ba Cd Cr Pb Hg Se		
										TCLP Metals Ag As Ba Cd Cr Pb Hg Se					TCLP Metals Ag As Ba Cd Cr Pb Hg Se		
										TCLP Volatiles					TCLP Volatiles		
										TCLP Semi Volatiles					TCLP Semi Volatiles		
										RCI					RCI		
										GCMS Vol 8240/8240/824					GCMS Vol 8240/8240/824		
										GCMS Semi Vol 8270/825					GCMS Semi Vol 8270/825		
										PCB's 8280/808					PCB's 8280/808		
										Pest. 809/808					Pest. 809/808		
										BOD, TSS, pH, TDS (Character)					BOD, TSS, pH, TDS (Character)		
										Gamma Spec					Gamma Spec		
										Alpha Beta (Air)					Alpha Beta (Air)		
										PLM (Asbestos)					PLM (Asbestos)		
01	8/14/07		S	X	SP-6 (2'-2.5') DEB (3.0')	1											
02			S	X	SP-6 (3'-3.5') DEB (3.0')	1											
03			S	X	SP-7 (2'-2.5') DEB (2.5')	1											
04			S	X	SP-7 (3'-3.5') DEB (2.5')	1											
05			S	X	SP-10 (2'-2.5') DEB (1.0')	1											
06			S	X	SP-10 (3'-3.5') DEB (1.0')	1											

RELINQUISHED BY: (Signature)	Date: <u>8/16/07</u>	RECEIVED BY: (Signature)	Date: <u>8/16/07</u>	SAMPLED BY: (Print & Sign)	Date: <u>8/16/07</u>
RELINQUISHED BY: (Signature)	Date: <u>8/16/07</u>	RECEIVED BY: (Signature)	Date: <u>8/16/07</u>	SAMPLE SHIPPED BY: (Circle)	Date: <u>8/16/07</u>
RELINQUISHED BY: (Signature)	Date: <u>8/16/07</u>	RECEIVED BY: (Signature)	Date: <u>8/16/07</u>	FEDEX	BUS
RELINQUISHED BY: (Signature)	Date: <u>8/16/07</u>	RECEIVED BY: (Signature)	Date: <u>8/16/07</u>	HAND DELIVERED	UPS
RECEIVING LABORATORY: <u>ELT</u>	STATE: <u>TX</u>	ZIP: <u>79705</u>	DATE: <u>8-16-07</u>	TIME: <u>9:40</u>	HIGHLANDER CONTACT PERSON: <u>Ike Tavares</u>
ADDRESS: <u>1910 N. Big Spring St.</u>	CITY: <u>Midland</u>	STATE: <u>TX</u>	ZIP: <u>79705</u>	DATE: <u>8-16-07</u>	TIME: <u>9:40</u>
CONTACT: <u>Phone: (432) 682-4559</u>	FAX: <u>(432) 682-3946</u>	EMAIL: <u>info@hlc.com</u>	WEBSITE: <u>www.hlc.com</u>	REMARKS: <u>20' 40' 40' 40' w/ labels</u>	RESULTS BY: <u>Ike Tavares</u>
SAMPLE CONDITION WHEN RECEIVED: <u>Good</u>	MATRIX: <u>W-Peter</u>	A-Alp	SD-Solid	REMARKS: <u>20' 40' 40' 40' w/ labels</u>	RESULTS BY: <u>Ike Tavares</u>
		EL-Sludge	O-Other		

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp - Project Manager retains pink copy - Accounting receives Gold copy

**Environmental Lab of Texas**  
Variance/ Corrective Action Report- Sample Log-In

Client Highlander  
Date/ Time 8 16 07 9 40  
Lab ID # 287996  
Initials GL

**Sample Receipt Checklist**

			Client Initials	
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>20</u> °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<del>Not Present</del>
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<del>Not Present</del>
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont / Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	Yes	<del>No</del>	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	Yes	No	<del>Not Applicable</del>
#20	VOC samples have zero headspace?	Yes	No	<del>Not Applicable</del>

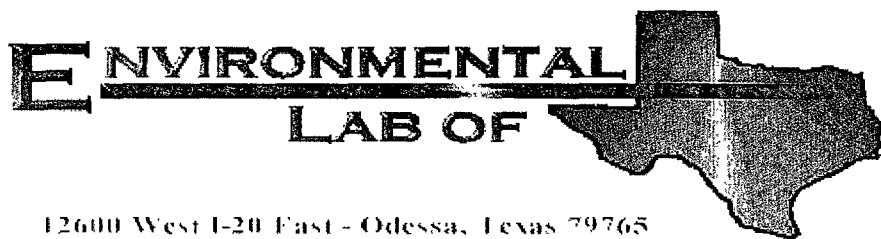
**Variance Documentation**

Contact \_\_\_\_\_ Contacted by \_\_\_\_\_ Date/ Time. \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken \_\_\_\_\_

- Check all that Apply.
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat Yates Unit Well #7

Project Number: None Given

Location: None Given

Lab Order Number: 6J30001

Report Date: 11/02/06

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavarez

Fax (432) 682-3946

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS #4	6J30001-01	Soil	10/26/06 00:00	10-30-2006 09 00
SS #5	6J30001-02	Soil	10/26/06 00 00	10-30-2006 09 00
SS #7	6J30001-03	Soil	10/26/06 00 00	10-30-2006 09 00
SS #12	6J30001-04	Soil	10/26/06 00 00	10-30-2006 09 00

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project: COG/ Jalmat Yates Unit Well #7  
Project Number: None Given  
Project Manager: Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS #4 (6J30001-01) Soil</b>									
Carbon Ranges C6-C12	35.5	10.0	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	270	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	25.9	10.0	"	"	"	"	"	"	
Total Hydrocarbons	331	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		79.8 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.8 %		70-130	"	"	"	"	
<b>SS #5 (6J30001-02) Soil</b>									
Carbon Ranges C6-C12	268	10.0	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	2920	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	142	10.0	"	"	"	"	"	"	
Total Hydrocarbons	3330	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.0 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		87.8 %		70-130	"	"	"	"	
<b>SS #7 (6J30001-03) Soil</b>									
Carbon Ranges C6-C12	15.8	10.0	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	928	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	74.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	1020	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		80.6 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.8 %		70-130	"	"	"	"	
<b>SS #12 (6J30001-04) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EJ63105	10/30/06	10/31/06	EPA 8015M	
Carbon Ranges C12-C28	44.3	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	44.3	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		77.2 %		70-130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.2 %		70-130	"	"	"	"	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS #4 (6J30001-01) Soil</b>									
% Moisture	5.8	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
<b>SS #5 (6J30001-02) Soil</b>									
% Moisture	4.7	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
<b>SS #7 (6J30001-03) Soil</b>									
% Moisture	3.0	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
<b>SS #12 (6J30001-04) Soil</b>									
% Moisture	5.6	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63105 - Solvent Extraction (GC)**

**Blank (EJ63105-BLK1)**

Prepared 10/30/06 Analyzed 10/31/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet						
Carbon Ranges C12-C28	ND	10.0	"						
Carbon Ranges C28-C35	ND	10.0	"						
Total Hydrocarbons	ND	10.0	"						
Surrogate 1-Chlorooctane	59.0		mg/kg	50.0		118		70-130	
Surrogate 1-Chlorooctadecane	55.1		"	50.0		110		70-130	

**LCS (EJ63105-BS1)**

Prepared 10/30/06 Analyzed 10/31/06

Carbon Ranges C6-C12	503	10.0	mg/kg wet	500		101		75-125	
Carbon Ranges C12-C28	470	10.0	"	500		94.0		75-125	
Carbon Ranges C28-C35	ND	10.0	"	0.00				75-125	
Total Hydrocarbons	974	10.0	"	1000		97.4		75-125	
Surrogate 1-Chlorooctane	55.6		mg/kg	50.0		111		70-130	
Surrogate 1-Chlorooctadecane	43.2		"	50.0		86.4		70-130	

**Calibration Check (EJ63105-CCV1)**

Prepared 10/30/06 Analyzed 10/31/06

Carbon Ranges C6-C12	471		mg/kg	500		94.2		80-120	
Carbon Ranges C12-C28	441		"	500		88.2		80-120	
Total Hydrocarbons	912		"	1000		91.2		80-120	
Surrogate 1-Chlorooctane	130		"	100		130		70-130	
Surrogate 1-Chlorooctadecane	108		"	100		108		70-130	

**Matrix Spike (EJ63105-MS1)**

Source: 6J30006-02

Prepared 10/30/06 Analyzed 10/31/06

Carbon Ranges C6-C12	538	10.0	mg/kg dry	503	ND	107		75-125	
Carbon Ranges C12-C28	527	10.0	"	503	ND	105		75-125	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND			75-125	
Total Hydrocarbons	1060	10.0	"	1010	ND	105		75-125	
Surrogate 1-Chlorooctane	59.5		mg/kg	50.0		119		70-130	
Surrogate 1-Chlorooctadecane	49.0		"	50.0		98.0		70-130	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavaréz

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63105 - Solvent Extraction (GC)**

Matrix Spike Dup (EJ63105-MSD1)		Source: 6J30006-02		Prepared: 10/30/06		Analyzed: 10/31/06				
Carbon Ranges C6-C12	445	10.0	mg/kg dry	503	ND	88.5	75-125	18.9	20	
Carbon Ranges C12-C28	435	10.0	"	503	ND	86.5	75-125	19.1	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	880	10.0	"	1010	ND	87.1	75-125	18.6	20	
Surrogate 1-Chlorooctane	49.6		mg/kg	50.0		99.2	70-130			
Surrogate 1-Chlorooctadecane	37.8		"	50.0		75.6	70-130			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EJ63101 - General Preparation (Prep)</b>										
<b>Blank (EJ63101-BLK1)</b>		Prepared 10/30/06 Analyzed 10/31/06								
% Solids	100		%							
<b>Duplicate (EJ63101-DUP1)</b>		Source: 6J26007-01		Prepared 10/30/06 Analyzed 10/31/06						
% Solids	94.0		%		93.9			0.106	20	
<b>Duplicate (EJ63101-DUP2)</b>		Source: 6J30001-04		Prepared 10/30/06 Analyzed 10/31/06						
% Solids	94.2		%		94.4			0.212	20	
<b>Duplicate (EJ63101-DUP3)</b>		Source: 6J30014-01		Prepared 10/30/06 Analyzed 10/31/06						
% Solids	90.0		%		90.1			0.111	20	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat Yates Unit Well #7  
Project Number None Given  
Project Manager Ike Tavarez

Fax: (432) 682-3946

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K Tuttle*

Date:

11/2/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas  
Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
Date/ Time: 10/30/06 9:00  
Lab ID #: 16530001  
Initials: CK

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	3.5 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELDT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

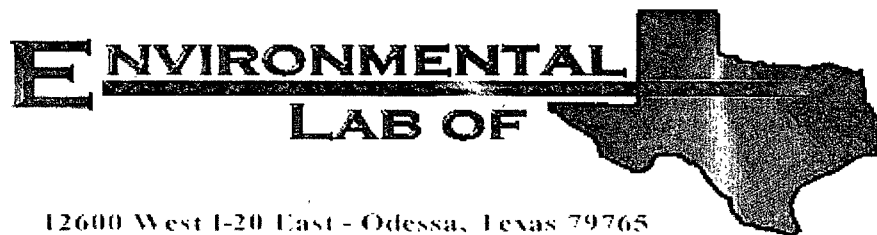
Contact: Jeff Kindley Contacted by: Jeanne M. Murray Date/ Time: 10-30-06 @ 1110

Regarding: COC request TPH only Label request TPH+BTEX

Corrective Action Taken:

Client only wants to run TPH

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

## Analytical Report

**Prepared for:**

Ike Tavaréz

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: COG/ Jalmat #7 Well Flow Line Leak

Project Number: 2737

Location: Lea County, NM

Lab Order Number: 7C01009

Report Date: 03/08/07

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS #5 0-1 0'	7C01009-01	Soil	02/28/07 00 00	03-01-2007 13 20
SS #7 0-1 0'	7C01009-02	Soil	02/28/07 00 00	03-01-2007 13 20

Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number. 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS #5 0-1.0' (7C01009-01) Soil</b>									
Carbon Ranges C6-C12	24.8	10.0	mg/kg dry	1	EC70207	03/02/07	03/08/07	EPA 8015M	
Carbon Ranges C12-C28	632	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	75.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	733	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	
<b>SS #7 0-1.0' (7C01009-02) Soil</b>									
Carbon Ranges C6-C12	J [7.29]	10.0	mg/kg dry	1	EC70207	03/02/07	03/08/07	EPA 8015M	J
Carbon Ranges C12-C28	313	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	49.5	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		114 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS #5 0-1.0' (7C01009-01) Soil									
% Moisture	5.1	0.1	%	1	EC70806	03/07/07	03/07/07	% calculation	
SS #7 0-1.0' (7C01009-02) Soil									
% Moisture	5.1	0.1	%	1	EC70806	03/07/07	03/07/07	% calculation	

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EC70207 - Solvent Extraction (GC)**

**Blank (EC70207-BLK1)**

Prepared 03/02/07 Analyzed 03/07/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	50.8		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	60.6		"	50.0		121	70-130			

**LCS (EC70207-BS1)**

Prepared 03/02/07 Analyzed 03/07/07

Carbon Ranges C6-C12	624	10.0	mg/kg wet	500		125	75-125			
Carbon Ranges C12-C28	544	10.0	"	500		109	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1170	10.0	"	1000		117	75-125			
Surrogate 1-Chlorooctane	58.5		mg/kg	50.0		117	70-130			
Surrogate 1-Chlorooctadecane	57.9		"	50.0		116	70-130			

**Calibration Check (EC70207-CCV1)**

Prepared 03/02/07 Analyzed 03/08/07

Carbon Ranges C6-C12	232		mg/kg	250		92.8	80-120			
Carbon Ranges C12-C28	245		"	250		98.0	80-120			
Total Hydrocarbons	478		"	500		95.6	80-120			
Surrogate 1-Chlorooctane	62.9		"	50.0		126	70-130			
Surrogate 1-Chlorooctadecane	62.4		"	50.0		125	70-130			

**Matrix Spike (EC70207-MS1)**

Source: 7C01009-01

Prepared 03/02/07 Analyzed 03/08/07

Carbon Ranges C6-C12	651	10.0	mg/kg dry	527	24.8	119	75-125			
Carbon Ranges C12-C28	1030	10.0	"	527	632	75.5	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	75.5		75-125			
Total Hydrocarbons	1680	10.0	"	1050	733	90.2	75-125			
Surrogate 1-Chlorooctane	55.6		mg/kg	50.0		111	70-130			
Surrogate 1-Chlorooctadecane	58.6		"	50.0		117	70-130			

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax (432) 682-3946

### Organics by GC - Quality Control

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch EC70207 - Solvent Extraction (GC)

Matrix Spike Dup (EC70207-MSD1)	Source: 7C01009-01			Prepared 03/02/07 Analyzed 03/08/07						
Carbon Ranges C6-C12	677	10 0	mg/kg dry	527	24 8	124	75-125	4 12	20	
Carbon Ranges C12-C28	1040	10 0	"	527	632	77 4	75-125	2 49	20	
Carbon Ranges C28-C35	ND	10 0	"	0 00	75 5		75-125		20	
Total Hydrocarbons	1720	10 0	"	1050	733	94.0	75-125	4 13	20	
Surrogate 1-Chlorooctane	58 6		mg/kg	50 0		117	70-130			
Surrogate 1-Chlorooctadecane	58 9		"	50 0		118	70-130			

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1910 N Big Spring St  
Midland TX, 79705

Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavaréz

Fax (432) 682-3946

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**

**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EC70806 - General Preparation (Prep)</b>										
<b>Blank (EC70806-BLK1)</b>		Prepared & Analyzed 03/07/07								
% Solids	100		%							
<b>Duplicate (EC70806-DUP1)</b>		<b>Source: 7C01009-01</b>		Prepared & Analyzed 03/07/07						
% Solids	95.2		%		94.9			0.316	20	

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A Xenco Laboratories Company

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Highlander Environmental Corp  
1910 N Big Spring St  
Midland TX, 79705

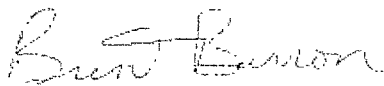
Project COG/ Jalmat #7 Well Flow Line Leak  
Project Number 2737  
Project Manager Ike Tavarez

Fax: (432) 682-3946

### Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag)  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date:

3/8/2007

Brent Barron, Laboratory Director/Corp. Technical Director  
Celey D. Keene, Org. Tech Director  
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer  
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

A Xenco Laboratories Company

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## PAGE: 1 OF: 1

ANALYSIS REQUEST  
or Specify Method No.)

Fax (432) 682-3946

(432) 682-4559

**SITE MANAGER:**

Ike Tavares

PROJECT NAME:

PROJECT NAME:  
C06-JalMat #7 Flowline Lease

Country, NY

10

## References

Only

LAB 13.

1145 2101

SS #7 0 - 1.0'

REVIEWED BY: (Signature)

Date: 3/10/

RECEIVED BY: (Signature)

Date: \_\_\_\_\_

RELINQUISHED BY: (Signature)

Date: \_\_\_\_\_

RECEIVED: 15 SEP 1997

Date: \_\_\_\_\_

DEPARTMENT OF JUSTICE

Date: \_\_\_\_\_

**DECLASSIFIED BY: 6802 JAL/STW (S)**

Date: \_\_\_\_\_

RECEIVING LABORATORY:

---

(JANUARY) : 18 1818

100

CITY: Oxford

77

22

100

\_\_\_\_\_

**SAMPLE CONDITION WHEN RECEIVED:**

## NOTES

— 104 —

A-347-

9-25

**REF:REFS:**

	4.0°C	w/abc
1	0.0000	0.0000
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15-5011

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Please fill out all copies - Laboratory retains yellow copy Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy Accounting receives Gold copy.

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Highlander  
 Date/ Time: 3/1/07 13:20  
 Lab ID #: 17C01009  
 Initials: OK

### Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	4.0 °C	
#2	Shipping container in good condition?	<del>Yes</del>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<del>Not Present</del>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<del>Not Present</del>	
#5	Chain of Custody present?	<del>Yes</del>	No		
#6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No		
#7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No		
#8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<del>Yes</del>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No		
#11	Containers supplied by ELOT?	<del>Yes</del>	No		
#12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below	
#13	Samples properly preserved?	<del>Yes</del>	No	See Below	
#14	Sample bottles intact?	<del>Yes</del>	No		
#15	Preservations documented on Chain of Custody?	<del>Yes</del>	No		
#16	Containers documented on Chain of Custody?	<del>Yes</del>	No		
#17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below	
#18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<del>Not Applicable</del>	
#20	VOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable	

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event

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

## Energy Minerals and Natural Resources

## Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

## OPERATOR

☒ AMENDED Initial Report ☐ Final Report

Name of Company	COG Operating LLC	Contact	Phyllis Edwards
Address	550 W. Texas Ave, Ste 1300 Midland, TX 79701	Telephone No.	432-683-4340
Facility Name	Jalmat Yates Unit #7	Facility Type	Gas Well
Surface Owner	Mineral Owner	Lease No. 301048	

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	12	25S	36E	990	South	1650	East	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

## NATURE OF RELEASE

Type of Release	produced oil & water leak	Volume of Release	6 BO & 75 BW	Volume Recovered	1 BO & 5 BW
Source of Release	hole in flowline	Date and Hour of Occurrence	9/5/06 time unknown	Date and Hour of Discovery	9/5/06 apprx 3:00 PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Left message w/ Hobbs NMOCD		
By Whom?	COG employee Boyd Chesser	Date and Hour	3:00 PM 9/5/06		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Hole in flowline. Replace flow line.

Describe Area Affected and Cleanup Action Taken.\*

Leak ¼ mile SE of well toward battery. Leak ran along flowline (200' x 1') to edge of lease road (4' x 30'), then crossed road (850' x 1'). Repaired flowline leak. Picked up all standing fluids that could be recovered. Raked up oily dirt & piled up to be picked up & hauled off. Highlander Environmental will assess the leak area and will begin clean-up work the week of 9-18 to 9-22. Call Boyd Chesser w/ COG @ 432-557-5379 or Ike @ Highlander Environmental @ 432-425-3878.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

## OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Phyllis A. Edwards			
Title: Regulatory Analyst	Approval Date:	Expiration Date:	
E-mail Address: pedwards@conchoresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 9/13/06	Phone: 432-685-4340		

\* Attach Additional Sheets If Necessary