



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

June 16, 2006

COG Operating LLC., (COG)  
550 W. Texas, Suite 1300  
Midland, TX 79701

**RE:** Closure Approval with conditions  
UL- K Sec18-T25S-R37E  
Jalmat Yates Unit, Well #31  
Dated: May 24, 2006

The New Mexico Oil Conservation Division, (OCD), personnel reviewed the closure plan submitted by Highlander Environmental Corp., (HEC), and referenced above. The plan is **hereby approved** according to the information provided, including the following:

1. Please ensure any future runoff or releases are contained and not allowed to flow into capped/encapsulated material.

Please be advised that OCD approval does not relieve COG of liability should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve COG of responsibility for compliance with federal, state or local laws and/or regulations.

If you have any questions or need any assistance call: (505) 393-6161 x113 or email: [psheeley@state.nm.us](mailto:psheeley@state.nm.us)

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Wayne Price - Environmental Bureau Chief  
Chris Williams - District I Supervisor  
Larry Johnson - Environmental Engineer  
Cheryl O'Connor - Lawyer  
Daniel Sanchez - Enforcement Office

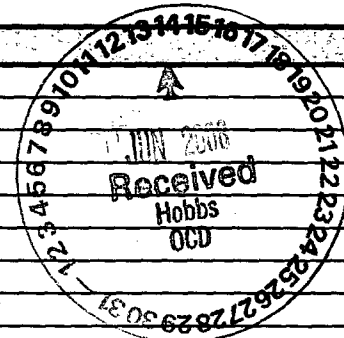
*Application - pPAC0609644553  
RP # 811*

AP# 30025264090000

## SITE INFORMATION

## General Site Information:

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site:                       | Jalmat Yates Unit #31                                                                                                                                                                      |
| Company:                    | COG Operating Company                                                                                                                                                                      |
| Section, Township and Range | Section 18, T25S, R37 E                                                                                                                                                                    |
| Unit Letter:                | K                                                                                                                                                                                          |
| Lease Number:               | 301048                                                                                                                                                                                     |
| County:                     | Lea                                                                                                                                                                                        |
| GPS:                        | 32° 07' 38.2", 103° 12' 17.3"                                                                                                                                                              |
| Surface Owner:              | Clay Osborne                                                                                                                                                                               |
| Mineral Owner:              |                                                                                                                                                                                            |
| Directions:                 | From Jal, New Mexico, intersection of Hwy. 18 and Hwy. 128, go 1.1 miles west on 128, turn (north) into lease, go 0.2 miles and turn right (east) and go 0.1 mile to Jalmat Yates Well #31 |



## Release Data:

|                          |                      |
|--------------------------|----------------------|
| Date Released:           | 2/13/2005            |
| Type Release:            | produced water       |
| Source of Contamination: | Well- Hole in Tubing |
| Fluid Released:          | Volume Unknown       |
| Fluids Recovered:        | Surface - None       |

## Official Communication:

|               |                                 |                                |
|---------------|---------------------------------|--------------------------------|
| Name:         | Diane Kuykendall                | Ike Tavarez                    |
| 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) 683-7443                  | (432) 682- 4559                |
| Fax:          | (432) 683-7441                  | (432) 682- 3946                |
| Email:        | dkuykendall@conchoresources.com | itavarez@hec-enviro.com        |

## Ranking Criteria

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

## Acceptable Soil RRAL (mg/kg)

| Benzene | Total BTEX | TPH |
|---------|------------|-----|
| 10      | 50         | 100 |



# *Highlander Environmental Corp.*

Midland, Texas

May 24, 2006

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

**RE: Borehole Installation and Closure Plan for the Spill at the Jalmat Yates, Well #31, Section 18, Township 25 South, Range 37 East, Lea County, New Mexico, Operated by COG Operating LLC. (API #30-025-26409), Lease No. 301048**

Dear Mr. Sheeley:

Highlander Environmental Corp. (Highlander) was contacted by COG Operating (COG) to assess the soil impact from a spill that occurred at the Jalmat Yates, Well #31 located in Section 18, Township 25 South, Range 37 East, Lea County, New Mexico. The Site location is shown on Figure 1.

## **Background and Site Inspection**

As reported in the C-141, the spill occurred on February 13, 2005, due to a hole in the well tubing. The fluids from the release filled the well cellar and flowed east of the well location. An unknown quantity of produced water was released, impacting an area approximately 60' x 3'. The fluids also flowed down an apparent animal burrow. No fluids were recovered off the ground.

On April 1, 2005, Highlander personnel inspected the spill area. A pulling unit was on location and the well was being repaired at the time of the inspection. Spills were noted around the well's cellar. The cellar measured approximately 5' x 5' x 2' deep.

## **Groundwater and Regulatory**

The Site is located in Section 18, Township 25 South, Range 37 East. The USGS database reported a depth to water at 51' in the southeast quarter of Section 18, Township 25 South, Range 37 East. The State of New Mexico Well Reports did not show any water wells in Section 18. 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 New Mexico" showed wells in Sections 15 and 23, Township 25 South, Range 36 East with reported depths 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. A monitor well, located in the western edge of Section 18, reportedly had a water level of approximately 63.0' in 2004. The State of New Mexico Well Reports, USGS reports 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).

If additional groundwater data is obtained, and it is determined that the groundwater depth is greater than 50' below surface, the RRAL for TPH will be 1,000 mg/kg. However, based on the regional groundwater data, the proposed RRAL for TPH is 100 mg/kg.

### **Previous Correspondence**

Based on the assessment work performed to date, it appears that some of the fluids from the release may have migrated through the subsurface into a closed reserve pit adjacent to the location. In order to assess the subsurface soils surrounding the reserve pit, COG proposed to install two (2) boreholes at the site. Prior to the installation of the boreholes, Highlander submitted a Work Plan titled, "Work Plan for the Spill at the Jalmat Yates, Well #31, Section 18, Township 25 South, Range 37 East, Lea County, New Mexico, Operated by COG Operating LLC. (API #30-025-26409), Lease No. 301048," dated April 10, 2006, to the NMOCD for review and approval. The work plan consisted of the installation of (2) boreholes, one each east and west of the reserve pit to assess the subsurface soils.

### **Borehole Installation**

Upon approval from the NMOCD, on May 16, 2006, Highlander supervised the installation of the boreholes. Prior to the installation of the boreholes, a visual inspection was performed around the perimeter of the reserve pit. The edges of the pit were not definitely defined, however, pieces of exposed liner appeared to mark the approximate edges of the pit. The area of the reserve pit measured approximately 100' x 100'. One borehole (BH-1) was installed near the animal burrow outside west edge of the reserve pit. The remaining borehole (BH-2) was installed outside the east edge of the reserve pit. The borehole locations and the approximate edge of the reserve pit are shown on Figure 2.



The boreholes were installed using an air-rotary type drilling rig. Soil samples were collected at 5 foot intervals during drilling operations, field screened with a PID, and field screened for chloride. Soil samples were collected in five foot increments to a depth of 45' below ground surface, to where the field chloride testing indicated concentrations well below 250 mg/kg. The boreholes were then advanced to a depth of 50' below surface, to evaluate whether groundwater was to be encountered at a depth of 50' or less from the surface. No groundwater was encountered during the installation of the boreholes. The subsurface lithology consisted of silty/fine grain sand and caliche from approximate depths of 0-25' below surface. A clay formation was encountered at an approximately depth of 30.0' below surface, which extended down to the total depth of the boreholes.

The soil samples were field screened for chlorides to determine if impact extended to groundwater or showed distinctive decline with depth. Selected soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO, benzene, toluene, ethylbenzene, and xylene (BTEX) by method SW 846 5030/8021B, and chloride by method SW846-9252. All samples were collected and preserved in laboratory prepared sample containers with standard QA/QC procedures. All samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. The results of the sampling are shown in Table 1. The boring logs are shown in Appendix B. The laboratory reports and chain of custody are shown in Appendix C.

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

### **Borehole Sample Results**

Referring to Table 1, the samples selected for TPH and BTEX analysis were all below the reporting limit, with the exception of BH-1 (5-6'), where a trace of TPH was detected at 27.2 mg/kg.

The upper subsurface soils, at 5.0'-6.0' in both BH-1 and BH-2 did exhibit detectable chloride concentrations of 2,770 mg/kg and 2,020 mg/kg, however, these levels declined with depth with chloride concentrations of 528 mg/kg (20.0') and 70.9 mg/kg (15.0'), respectively. At 25.0'-30.0' below surface, the chloride concentrations did increase in both boreholes with chloride concentrations of 6,910 mg/kg (BH-1) and 4,830 mg/kg (BH-2). As the boreholes advanced deeper into the clay formation, concentrations declined below 250 mg/kg. The deepest samples at 45.0'-46.0' in BH-1 and BH-2 exhibited chloride concentrations of 33.4 mg/kg and 30.2 mg/kg, respectively.



While the chloride concentrations increased at or above the top of the clay formation, the clay formation appears to have retarded the migration of chloride. In addition, the groundwater depth in this area appears to be greater the 50.0' below surface. Based on the borehole data, the depth of chloride migration in the subsurface soil has been defined and does not appear to have impacted groundwater at the site at this time. To prevent further vertical migration of the chloride, COG proposes to cap the area of the closed reserved pit to ensure the chloride residue in the subsurface soils does not pose a potential future threat to groundwater.

## **Work Plan/Proposed Remedial Activity**

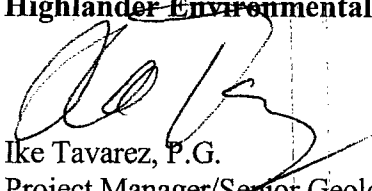
### **Soil Capping**

COG proposes to cap the reserve pit area with a 40 mil impervious, synthetic liner to encapsulate the impacted subsurface soil. Capping is a process used to cover contaminated soils to prevent the migration (movement) of the pollutants. This migration can be caused by rainwater or surface water moving over or vertically through the Site.

Based on the visual inspection and exposed liner at the surface, the area of the reserve pit is estimated at approximately 100' x 100'. To ensure proper capping, the reserve pit will need some preparation for the installation of the liner. The reserve pit will be excavated to a depth of 3.0' below surface (below root zone) and hauled to proper disposal. The total area prepared for capping will measure approximately 130' x 130' for proper coverage of the edges. The cap area is shown on Figure 3. If necessary, approximately 6" of sand will be placed on the bottom of the excavation to prevent damage to the liner if caliche (rock) formation is exposed. Once capped, the excavation will be backfilled with clean fill material.

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

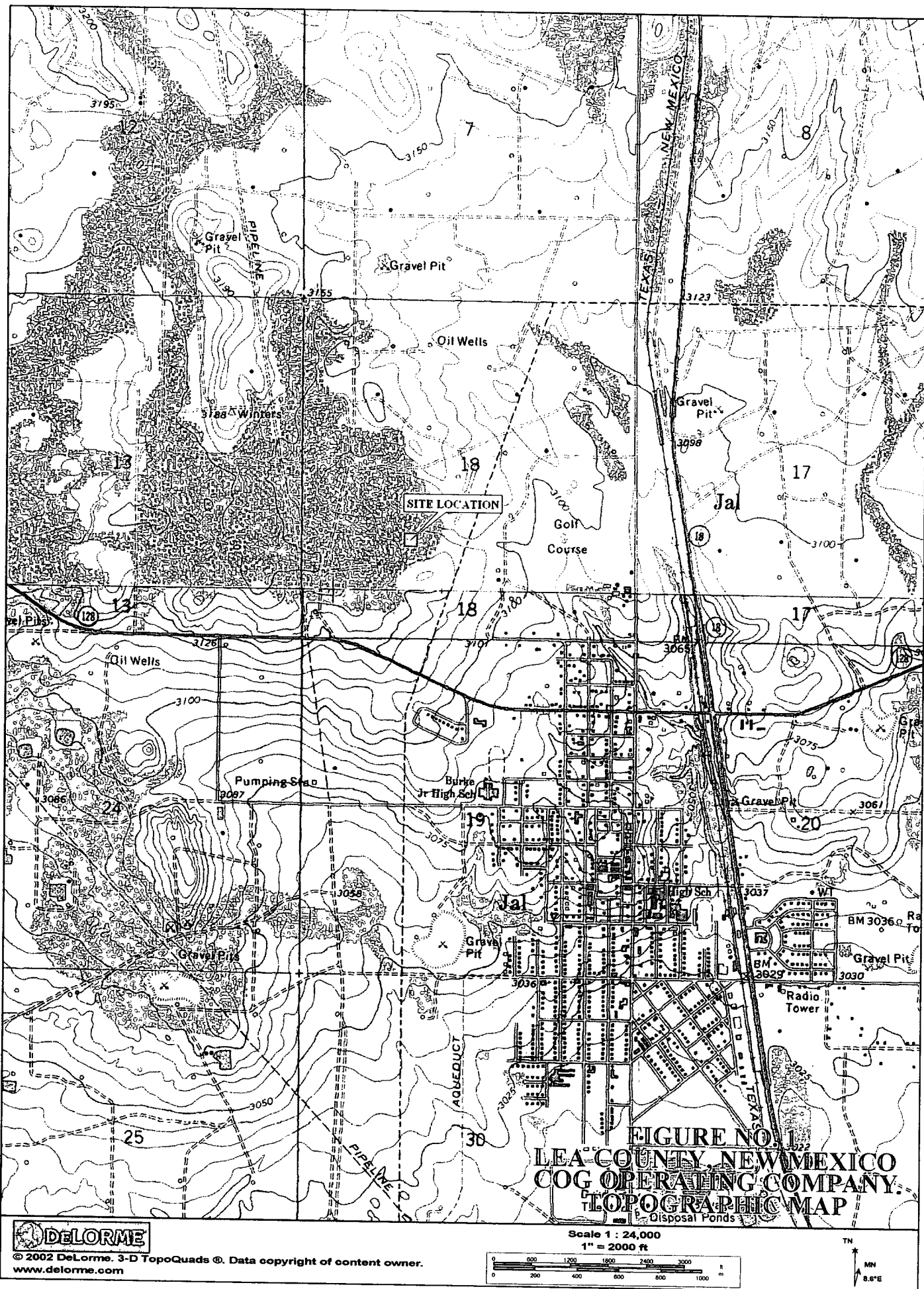
**Highlander Environmental Corp.**

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

cc: COG - Erick Nelson



## Figures



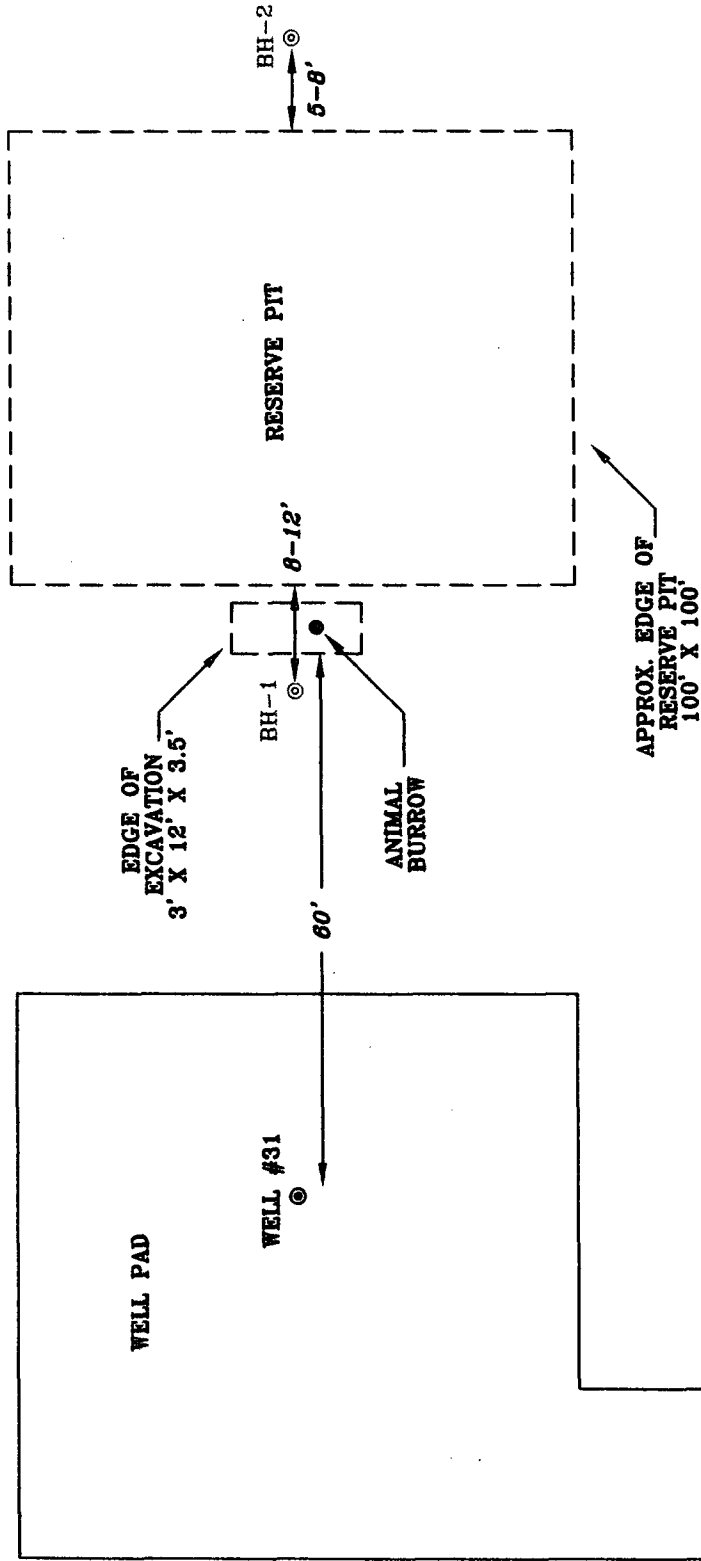


FIGURE NO. 2

|                                                  |
|--------------------------------------------------|
| LEA COUNTY, NEW MEXICO                           |
| COG OPERATING, LLC<br>JALMAT #31                 |
| HIGHLANDER ENVIRONMENTAL CORP.<br>MIDLAND, TEXAS |

|                 |                 |                        |
|-----------------|-----------------|------------------------|
| DATE:<br>4/4/06 | DRAWN BY:<br>JJ | FILE:<br>ENVIRONMENTAL |
|-----------------|-----------------|------------------------|

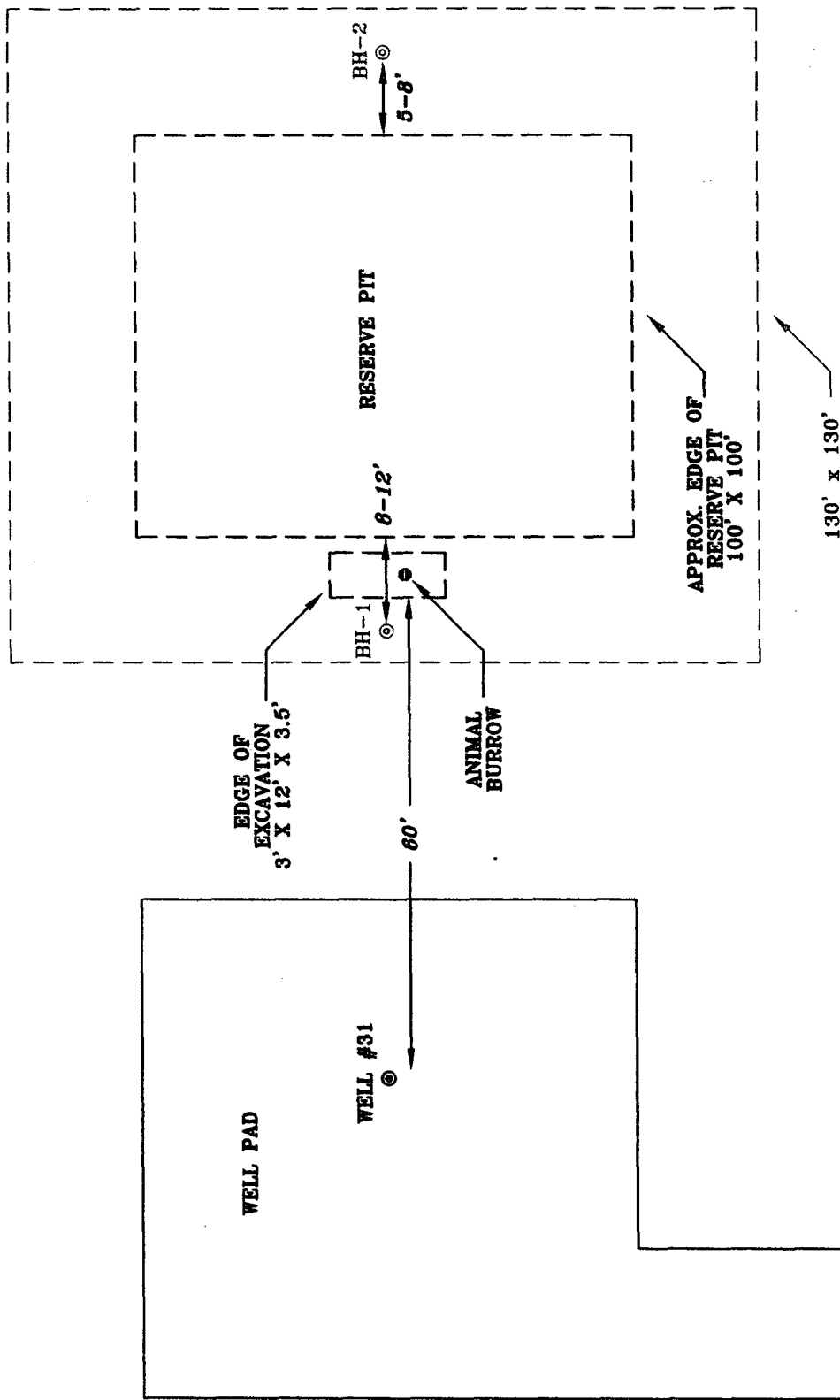
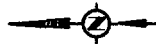


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

COG OPERATING, LLC  
JALMAT #31

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE:  
4/4/06

DRAWN BY:  
JJ

FILE:  
ENVIRONMENTAL  
JALMAT #31

NOT TO SCALE

--- PROPOSED CAP  
● BOREHOLE LOCATIONS

## Tables

Table 1

COG Operating, LLC  
Jalmat #31 Site  
Lea County, New Mexico

| Sample ID | Date Sampled | Sample Depth (ft) | TPH (mg/kg) |         |       | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylene (mg/kg) | Chloride (mg/kg) |
|-----------|--------------|-------------------|-------------|---------|-------|-----------------|-----------------|----------------------|----------------|------------------|
|           |              |                   | C6-C12      | C12-C35 | Total |                 |                 |                      |                |                  |
| BH-1      | 5/16/2006    | 5-6               | <10.0       | 27.2    | 27.2  | <0.025          | <0.025          | <0.025               | <0.025         | 2,770            |
|           | 5/16/2006    | 10-11             | -           | -       | -     | -               | -               | -                    | -              | 1,090            |
|           | 5/16/2006    | 15-16             | <10.0       | <10.0   | <10.0 | <0.025          | <0.025          | <0.025               | <0.025         | 1,460            |
|           | 5/16/2006    | 20-21             | -           | -       | -     | -               | -               | -                    | -              | 528              |
|           | 5/16/2006    | 25-26             | <10.0       | <10.0   | <10.0 | <0.025          | <0.025          | <0.025               | <0.025         | 6,910            |
|           | 5/16/2006    | 30-31             | -           | -       | -     | -               | -               | -                    | -              | 5,220            |
|           | 5/16/2006    | 35-36             | -           | -       | -     | -               | -               | -                    | -              | 550              |
|           | 5/16/2006    | 40-41             | -           | -       | -     | -               | -               | -                    | -              | 863              |
|           | 5/16/2006    | 45-46             | -           | -       | -     | -               | -               | -                    | -              | 33.4             |
| BH-2      | 5/16/2006    | 5-6               | <10.0       | <10.0   | <10.0 | <0.025          | <0.025          | <0.025               | <0.025         | 2,020            |
|           | 5/16/2006    | 10-11             | -           | -       | -     | -               | -               | -                    | -              | 1,210            |
|           | 5/16/2006    | 15-16             | <10.0       | <10.0   | <10.0 | <0.025          | <0.025          | <0.025               | <0.025         | 70.9             |
|           | 5/16/2006    | 20-21             | -           | -       | -     | -               | -               | -                    | -              | 974              |
|           | 5/16/2006    | 25-26             | <10.0       | <10.0   | <10.0 | <0.025          | <0.025          | <0.025               | <0.025         | 4,830            |
|           | 5/16/2006    | 30-31             | -           | -       | -     | -               | -               | -                    | -              | 4,430            |
|           | 5/16/2006    | 35-36             | -           | -       | -     | -               | -               | -                    | -              | 2,130            |
|           | 5/16/2006    | 40-41             | -           | -       | -     | -               | -               | -                    | -              | 260              |
|           | 5/16/2006    | 45-46             | -           | -       | -     | -               | -               | -                    | -              | 30.2             |

(- ) Not Analyzed

## **Appendix A**

**Water Well Data**  
**Average Depth to Groundwater (ft)**  
**COG Operating - Jalmat Yates Unit # 31**

| 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 |

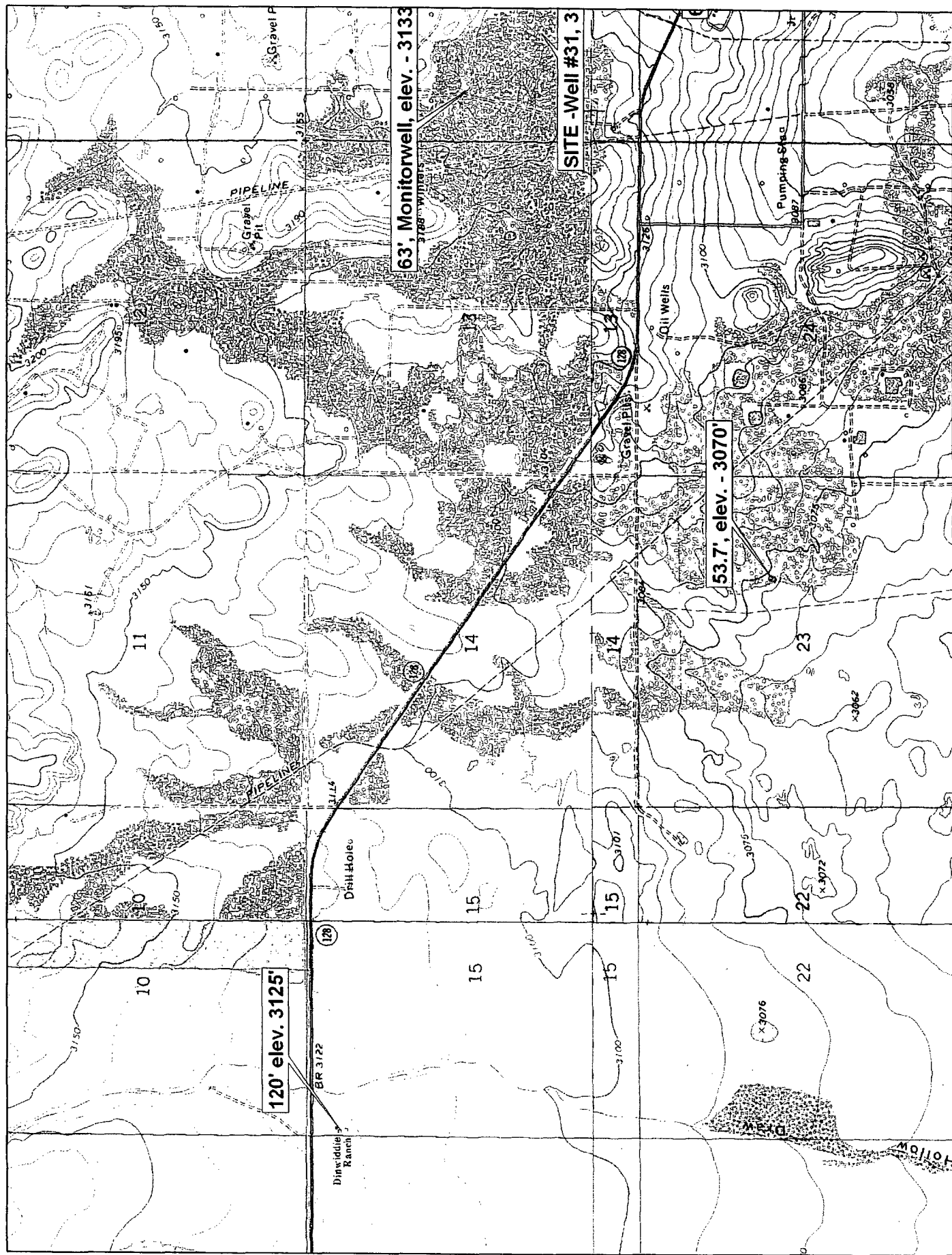
| 26 South 35 East |    |    |    |    |    |
|------------------|----|----|----|----|----|
| 6                | 5  | 4  | 3  | 2  | 1  |
| 7                | 8  | 9  | 10 | 11 | 12 |
| 18               | 17 | 16 | 15 | 14 | 13 |
| 19               | 20 | 21 | 22 | 23 | 24 |
| 30               | 29 | 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 |

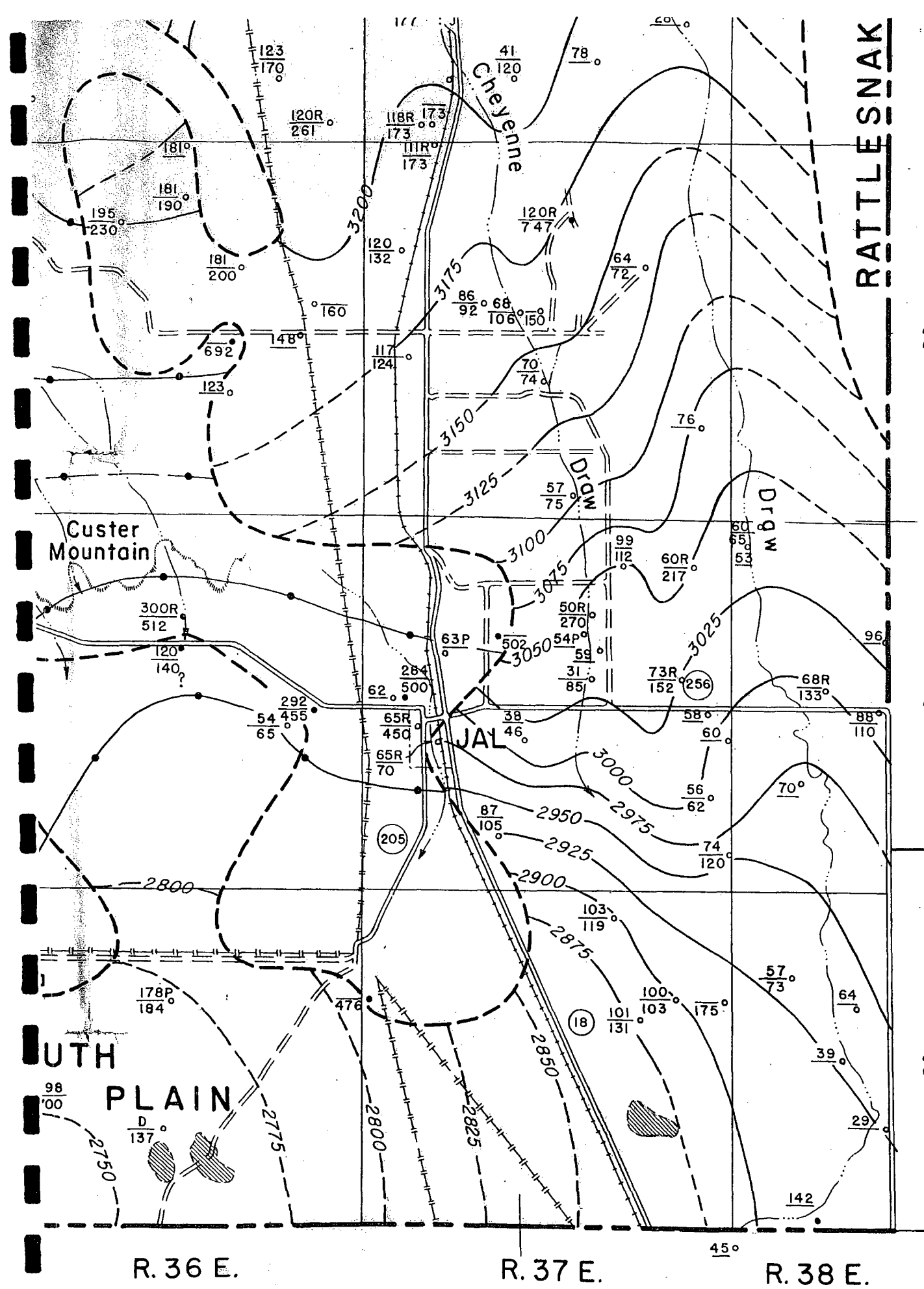
- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)





32°00'

RATTLE SNAK



WINKLER COUNTY

Compiled by Alfred Clebsch, Jr.,  
1960 using data collected mainly

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

| Location No. | Owner                  | Aquifer | Depth of well (feet) | Altitude of well (feet) | Water level                     |               | Year completed | Surface diameter of wells | Method of lift | Use of water | Remarks                                                                     |
|--------------|------------------------|---------|----------------------|-------------------------|---------------------------------|---------------|----------------|---------------------------|----------------|--------------|-----------------------------------------------------------------------------|
|              |                        |         |                      |                         | Depth below land surface (feet) | Date measured |                |                           |                |              |                                                                             |
| 24.34.35.122 | do.                    | Tr      | 258M                 | 3,410                   | 223.9                           | 3-29-53       | —              | 6                         | Lw             | S            | —                                                                           |
| 24.35.30.341 | do.                    | Tr      | 150 ± M              | 3,320                   | 139.6                           | 11-27-53      | —              | 6                         | Lw             | S            | —                                                                           |
| 24.36.3.111  | —                      | To      | —                    | 3,400                   | 181.1                           | 3-12-53       | —              | 7½                        | N              | N            | —                                                                           |
| 3.333        | Charles Whitten        | To(?)   | 190 ± M              | 3,390                   | 181.1                           | 3-12-53       | —              | 11½                       | N              | N            | —                                                                           |
| 9.133        | do.                    | To      | 230                  | 3,395                   | 195.0                           | 3-6-53        | 1948           | 7                         | N              | N            | —                                                                           |
| 13.314       | Humble Oil Co.         | To      | 160                  | —                       | —                               | —             | 1941           | —                         | —              | —            | WBZ sand, 138-158 feet. EY 10 gpm.                                          |
| 24.36.15.222 | Canmex Oil Co.         | To      | 200                  | 3,370                   | 181.3                           | 3-12-53       | 1937           | 7                         | Lw             | D            | —                                                                           |
| 22.220       | Continental Oil Co.    | Tr      | 692                  | 3,340                   | —                               | —             | —              | 8¼                        | 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        | —              | 6¼                        | 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           | 10¼                       | Te             | In,D         | Jal Plant 4, well 6.                                                        |
| 7.431        | Fowler Hair            | To      | 132M                 | 3,300                   | 119.9                           | 3-6-53        | —              | 6¼                        | N              | N            | —                                                                           |
| 10.123       | Trinity Production Co. | Tr      | 747                  | 3,260                   | 120                             | 2-53          | 1953           | —                         | Li             | In           | EY 42 gpm. Chemical analysis in table 8.                                    |
| 14.211       | Fowler Hair            | To(?)   | 72M                  | 3,205                   | 64.5                            | 3-3-53        | —              | 5                         | N              | N            | —                                                                           |
| 24.37.16.342 | —                      | To      | 106M                 | 3,235                   | 67.7                            | 3-11-53       | —              | 9                         | N              | N            | —                                                                           |
| 16.423       | Humble Oil Co.         | To      | 150                  | 3,240                   | —                               | —             | 1951           | 6¾                        | Te             | D            | Fowler-Ellenburger Camp well 1. WBZ 90-150 feet.                            |
| 17.422       | Fowler Hair            | To      | 92M                  | 3,260                   | 86.5                            | 3-4-53        | —              | 7½                        | N              | N            | —                                                                           |
| 19.234       | —                      | To      | 124M                 | 3,290                   | 117.4                           | 3-5-53        | —              | 10                        | Lw             | S            | —                                                                           |
| 21.444       | Dollarhide Water Co.   | To      | 74M                  | 3,210                   | 69.6                            | 3-2-53        | —              | 7½                        | N              | N            | —                                                                           |
| 25.322       | Fowler Hair            | To      | —                    | 3,136                   | 76.1                            | 3-3-53        | —              | 6½                        | Lw             | D,S          | —                                                                           |
| 34.320       | Plains Production Co.  | To      | 75 ± M               | 3,160                   | 56.8                            | 3-2-53        | —              | 12                        | N              | N            | —                                                                           |
| 25.33.20.443 | —                      | Tr      | —                    | 3,395                   | 200-250                         | 8-18-58       | —              | 6                         | Lw             | D,S          | —                                                                           |
| 31.244       | Nick Ritz              | Tr      | 320                  | 3,400                   | 257.5                           | 7-26-54       | —              | 8                         | Lw             | S            | —                                                                           |
| 25.34.1.132  | Madera Ranch           | Tr      | 300+                 | 3,385                   | 231.0                           | 4-15-53       | —              | 6                         | N              | N            | —                                                                           |

|              |                       |       |      |       |       |          |      |         |    |      |                                                                                          |
|--------------|-----------------------|-------|------|-------|-------|----------|------|---------|----|------|------------------------------------------------------------------------------------------|
| 25.34.15.242 | —                     | Tr    | 168  | 3,335 | 164.9 | 7-23-54  | —    | 10      | Lw | S    | —                                                                                        |
| 25.35.10.223 | Georgia Bryant        | To    | 83M  | 3,180 | 76.9  | 4-2-53   | —    | 9       | Lw | S    | —                                                                                        |
| 21.122       | —                     | Tr    | —    | 3,230 | 173.3 | 4-2-53   | —    | 8½      | N  | N    | —                                                                                        |
| 25.36.10.313 | W. D. Dinwiddie       | Tr    | 512  | 3,130 | 300   | —        | —    | —       | Lw | S    | —                                                                                        |
| 15.111       | do.                   | Tr(?) | 140  | 3,125 | 120.2 | 3-53     | 1951 | —       | N  | N    | —                                                                                        |
| 23.234       | —                     | Qal   | 65M  | 3,070 | 53.7  | 3-31-53  | —    | 6½      | Lw | S    | —                                                                                        |
| 24.112       | Humble Oil Co.        | Tr    | 455  | 3,115 | 292.4 | 4-15-53  | —    | —       | N  | N    | —                                                                                        |
| 25.37.1.340  | Pure Oil Co.          | To    | 217  | 3,108 | 60    | —        | —    | 20      | Te | In,D | —                                                                                        |
| 2.332        | Richmond Drilling Co. | To    | 112M | 3,140 | 98.8  | 3-29-53  | —    | 7       | Lw | D    | —                                                                                        |
| 9.333        | Stanolind Oil Co.     | Tr    | 502  | 3,140 | —     | —        | 1938 | —       | 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.                                                                     |
| 10.433       | M. B. Owens           | To    | —    | 3,100 | 54.3  | 2-26-53  | —    | 7½      | Lw | S    | MWP                                                                                      |
| 13.312a      | City of Jal           | To    | 152  | 3,080 | 73    | 6-54     | 1954 | 12      | Te | P    | New city well. EY 750 gpm. Chemical analysis in table 8.                                 |
| 25.37.15.221 | J. M. Owens           | To    | —    | 3,100 | 59.2  | 2-26-53  | —    | —       | Ti | In   | EY 30 gpm. PR.                                                                           |
| 15.223       | Sun Oil Co.           | To    | —    | 3,090 | —     | —        | —    | —       | Lw | D    | Chemical analysis in table 8.                                                            |
| 15.411       | —                     | Qal   | 85M  | 3,070 | 31.1  | 2-26-53  | —    | 6½      | N  | N    | —                                                                                        |
| 17.114       | —                     | Qal   | —    | 3,105 | 62.8  | 3-5-53   | —    | —       | Lw | S    | MWP                                                                                      |
| 19.211       | —                     | To    | —    | 3,088 | 62.3  | 5-30-55  | —    | 6       | Je | D    | —                                                                                        |
| 19.221       | City of Jal           | To    | 500  | 3,110 | 284.0 | 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. |
| 20.310       | 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.              |
| 25.37.20.413 | EPNG                  | Tr    | 419  | —     | —     | —        | —    | 10¼     | Je | In,D | Jal General Camp well 1.                                                                 |
| 21.411       | G. B. Hadfield        | To    | 46M  | 3,050 | 38.2  | 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    | —                                                                                        |
| 33.114       | Olsen Oil Co.         | Qal   | 105  | 3,000 | 87.4  | 2-16-53  | —    | 12      | N  | N    | —                                                                                        |
| 36.244       | —                     | To    | 120  | 3,035 | 74.2  | 2-13-53  | —    | 10      | N  | N    | —                                                                                        |
| 25.38.6.122  | Fowler Hair           | To    | 65M  | 3,100 | 60.5  | 3-3-53   | —    | 6½      | Lw | S    | —                                                                                        |
| 6.134        | —                     | To    | —    | 3,095 | 53.1  | 2-25-53  | —    | 3       | N  | N    | Cased shothole.                                                                          |
| 9.343        | —                     | To    | —    | 3,130 | 95.7  | 2-25-53  | —    | 6½      | Lw | D,S  | EY 30 gpm.                                                                               |

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           | Dollardhide 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 Antheys   | 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 diameter of wells | Method of lift | Use of water | Remarks |
|----------------------|----------------|---------|----------------------|-------------------------|---------------------------------|----------|---------------|----------------|---------------------------|----------------|--------------|---------|
|                      |                |         |                      |                         | Depth below 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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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | 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 |

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|     |     |     |     |      |   |   |       | Min                   | Max | Avg |

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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | 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 |

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|-----|-----|-----|-----|------|---|---|-------|-----|-----|-----|
| CP  | 24S | 35E | 10  |      |   |   | 1     | 300 | 300 | 300 |

Record Count: 1

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|-----|-----|-----|-----|------|---|---------|-----------------------|-----|-----|
| Bsn | Tws | Rng | Sec | Zone | X | Y Wells | 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  |

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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | 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  |

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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | Min                   | Max | Avg |

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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | Min                   | Max | Avg |

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|-----|-----|-----|-----|------|---|---|-------|-----------------------|-----|-----|
|     |     |     |     |      |   |   |       | Min                   | Max | Avg |

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|----------|-----|---|--------------------------------|--------------|---------|-----|--------|-------|
| 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     |         | 25S | 37E 19 | 1 4 4 |
| CP 00534 | DOM | 3 | DAN COX                        | CP 00534     | Shallow | 25S | 37E 19 | 1 4 4 |
| CP 00541 | DOM | 3 | BILLY W. MOSLEY                | CP 00541     | Shallow | 25S | 37E 19 | 2 4 1 |
| CP 00557 | DOM | 3 | LUCILLE BOCK WEBB              | CP 00557     | Shallow | 25S | 37E 19 | 2 2 4 |
| CP 00565 | DOM | 3 | SAM R. BEAIRD                  | CP 00565     | Shallow | 25S | 37E 20 | 3 3 3 |
| CP 00607 | DOM | 3 | RAYMOND F. GRAY                | CP 00607     |         | 25S | 37E 19 | 1 2 3 |
| CP 00608 | DOM | 3 | FLOYD MCCUNE MATHIS            | CP 00608     | Shallow | 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

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

POD / SURFACE DATA REPORT 03/08/2006

| DB File Nbr | Use | Diversion | Owner                          | (acre ft per annum) |
|-------------|-----|-----------|--------------------------------|---------------------|
| CP 00120    | COM | 31.2      | CHAPARRAL SERVICES, INC.       |                     |
| CP 00121    | COM | 15.6      | CHAPARRAL SERVICES, INC.       |                     |
| CP 00124    | COM | 31.2      | CHAPARRAL SERVICES, INC.       |                     |
| CP 00211    | DOM | 0         | J. M. OWEN                     |                     |
| CP 00216    | DOM | 0         | J. M. OWEN                     |                     |
| CP 00217    | DOM | 0         | J. M. OWEN                     |                     |
| CP 00219    | DOM | 0         | J. M. OWEN                     |                     |
| CP 00299    | DOM | 0         | J. J. SMITH                    |                     |
| CP 00300    | STK | 0         | J. J. SMITH                    |                     |
| CP 00387    | DOM | 3         | PAUL S. BALLINGER              |                     |
| CP 00388    | DOM | 0         | JAKE MC KOWEN                  |                     |
| CP 00425    | COM | 70        | PAUL PRATHER P AND S BRINE SAL |                     |
| CP 00428    | DOM | 3         | ANNICE KATHLEEN BUTTER         |                     |
| CP 00429    | DOM | 3         | HOMER E. MOLDER                |                     |
| CP 00444    | DOM | 3         | D. C. BUFFINGTON               |                     |

POD Number

Source

TwS Rng Sec q q q

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

(quarters are biggest to smallest)

|                  |         |     |     |    |   |   |   |
|------------------|---------|-----|-----|----|---|---|---|
| CP 00120         | Shallow | 25S | 37E | 20 | 2 | 3 | 1 |
| CP 00121         | Shallow | 25S | 37E | 20 | 2 | 4 | 3 |
| CP 00124         |         | 25S | 37E | 20 | 2 | 4 | 1 |
| CP 00211 DCL     |         | 25S | 37E | 21 | 2 | 4 | 3 |
| CP 00216 DCL     |         | 25S | 37E | 22 | 1 | 2 | 2 |
| CP 00217 DCL     |         | 25S | 37E | 10 | 4 | 3 | 4 |
| CP 00219 DCL     |         | 25S | 37E | 10 | 4 | 3 | 3 |
| CP 00299 DCL     |         | 25S | 37E | 03 | 2 | 4 | 2 |
| CP 00300 DCL     |         | 25S | 37E | 03 | 4 | 2 | 1 |
| 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 EXP     |         | 25S | 37E | 19 | 2 | 2 |   |
| CP 00425         | Shallow | 25S | 37E | 16 | 4 | 4 | 4 |
| CP 00428         |         | 25S | 37E | 20 | 1 |   |   |
| CP 00429         | Shallow | 25S | 37E | 19 | 2 |   |   |
| CP 00444         | Shallow | 25S | 37E | 19 | 2 | 2 |   |

|          |     |   |                                |          |
|----------|-----|---|--------------------------------|----------|
| CP 00608 | 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 Water

Geographic 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

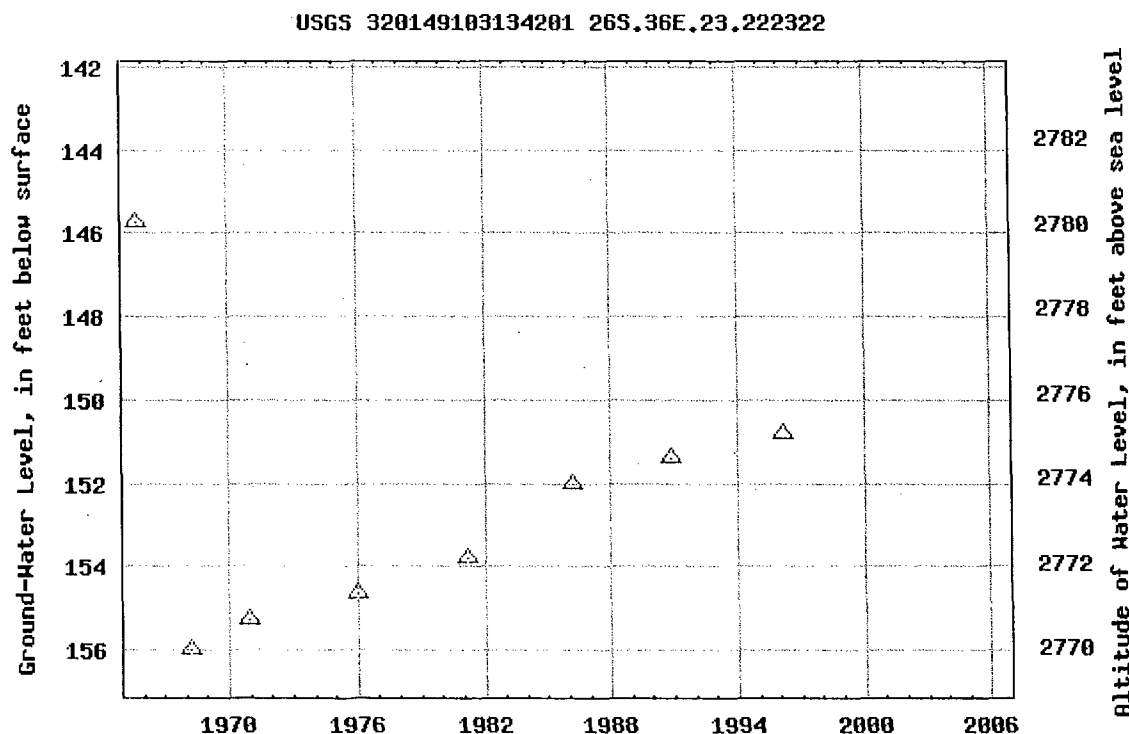
Latitude 32°01'49", Longitude 103°13'42" NAD27

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 WaterGeographic 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

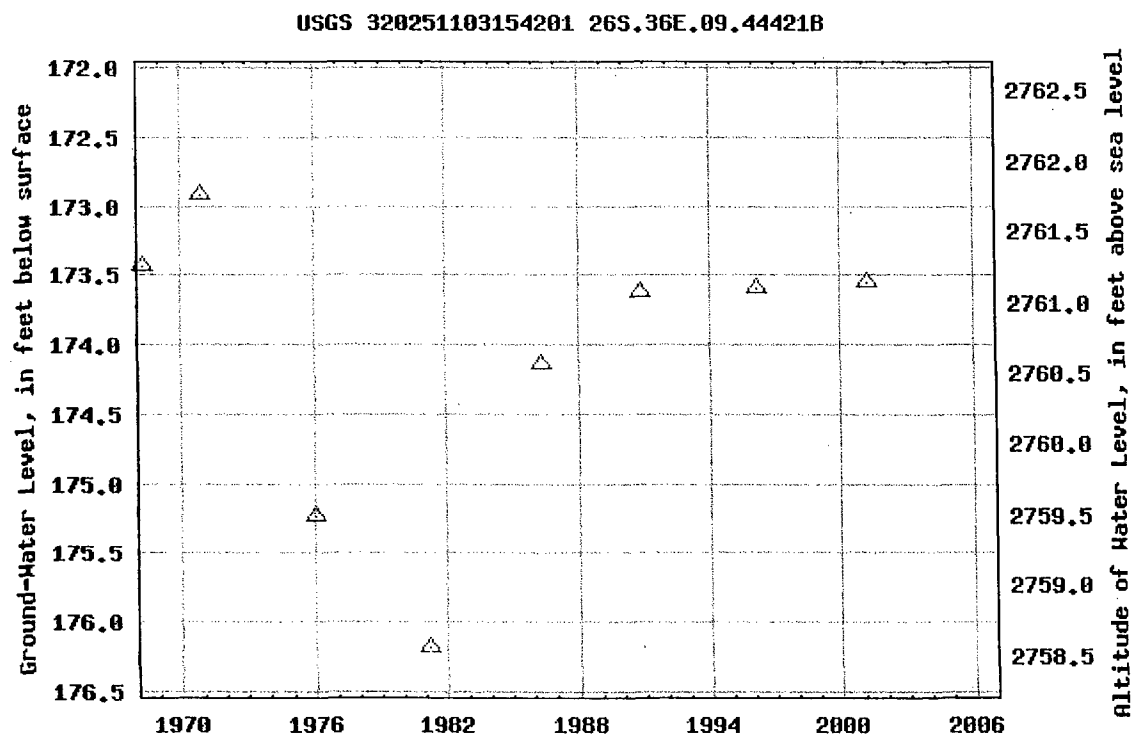
Latitude 32°02'51", Longitude 103°15'42" NAD27

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](#)

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

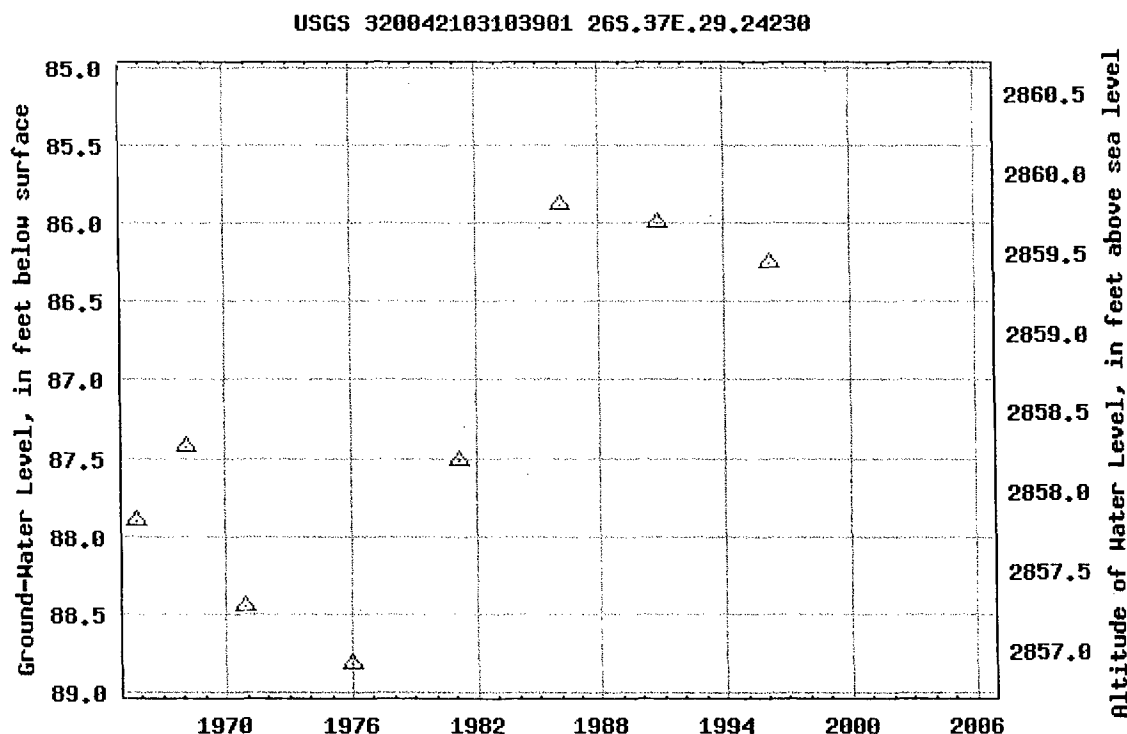
Latitude 32°00'42", Longitude 103°10'39" NAD27

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 WaterGeographic 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

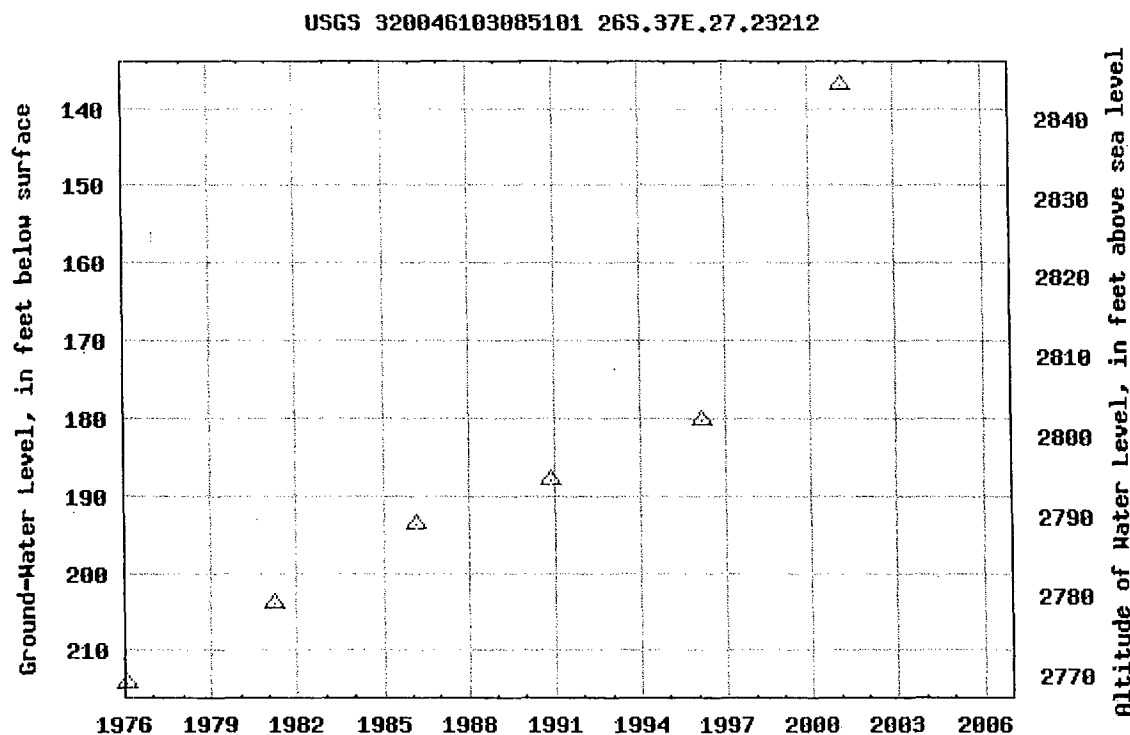
Latitude 32°00'46", Longitude 103°08'51" NAD27

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

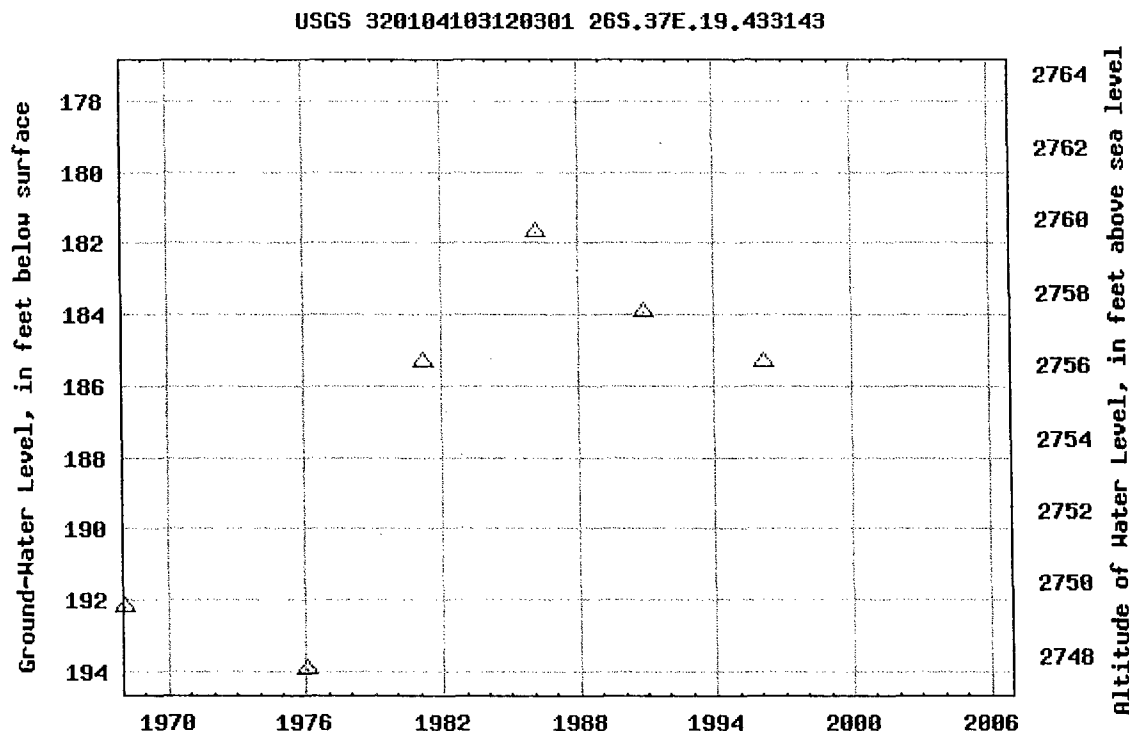
Latitude 32°01'04", Longitude 103°12'03" NAD27

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](#)

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 = • 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

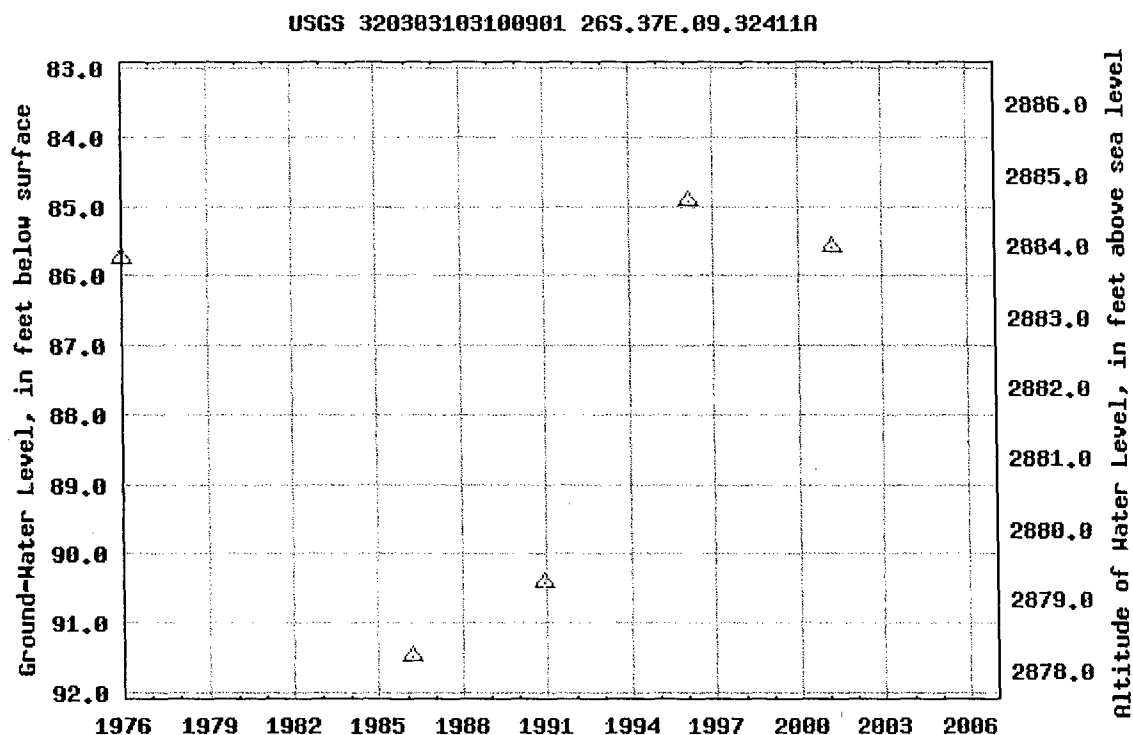
Latitude 32°03'03", Longitude 103°10'09" NAD27

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

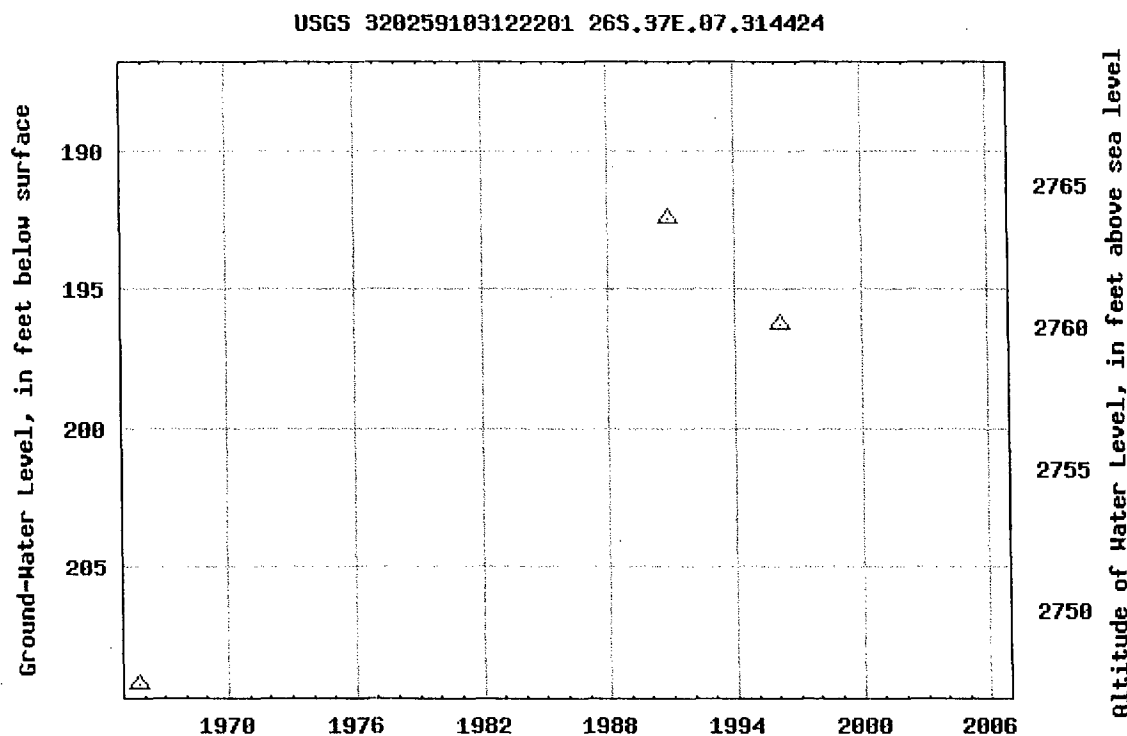
Latitude 32°02'59", Longitude 103°12'22" NAD27

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

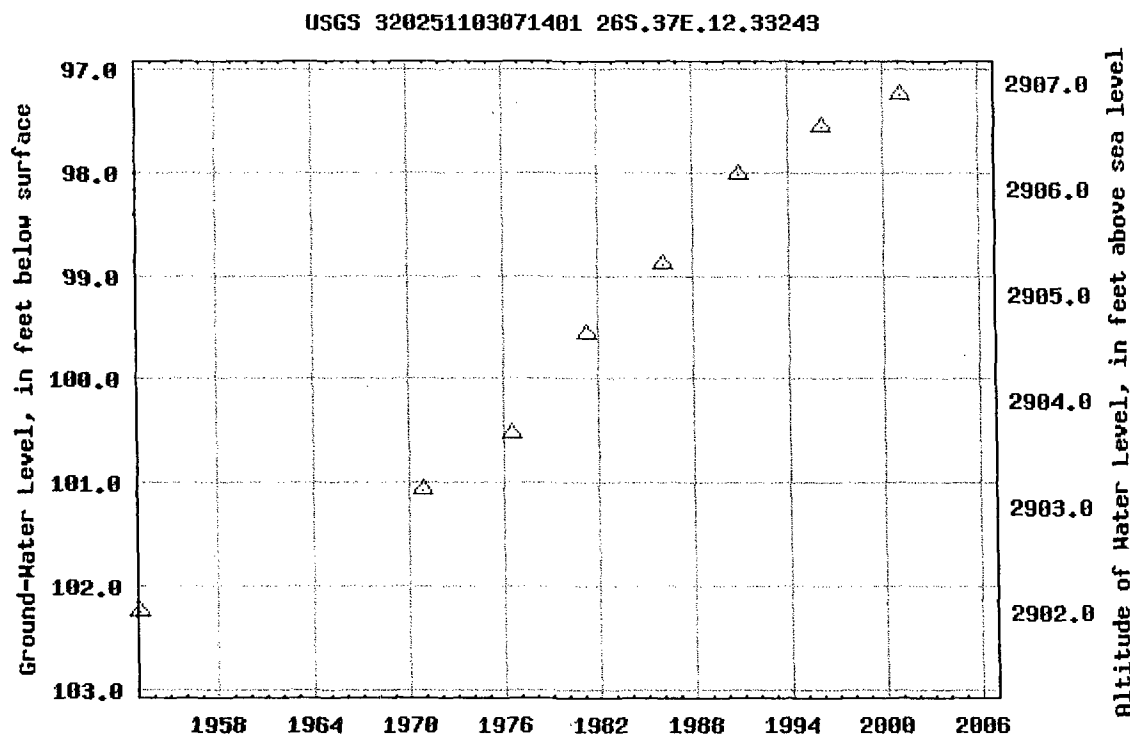
Latitude 32°02'51", Longitude 103°07'14" NAD27

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 WaterGeographic 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

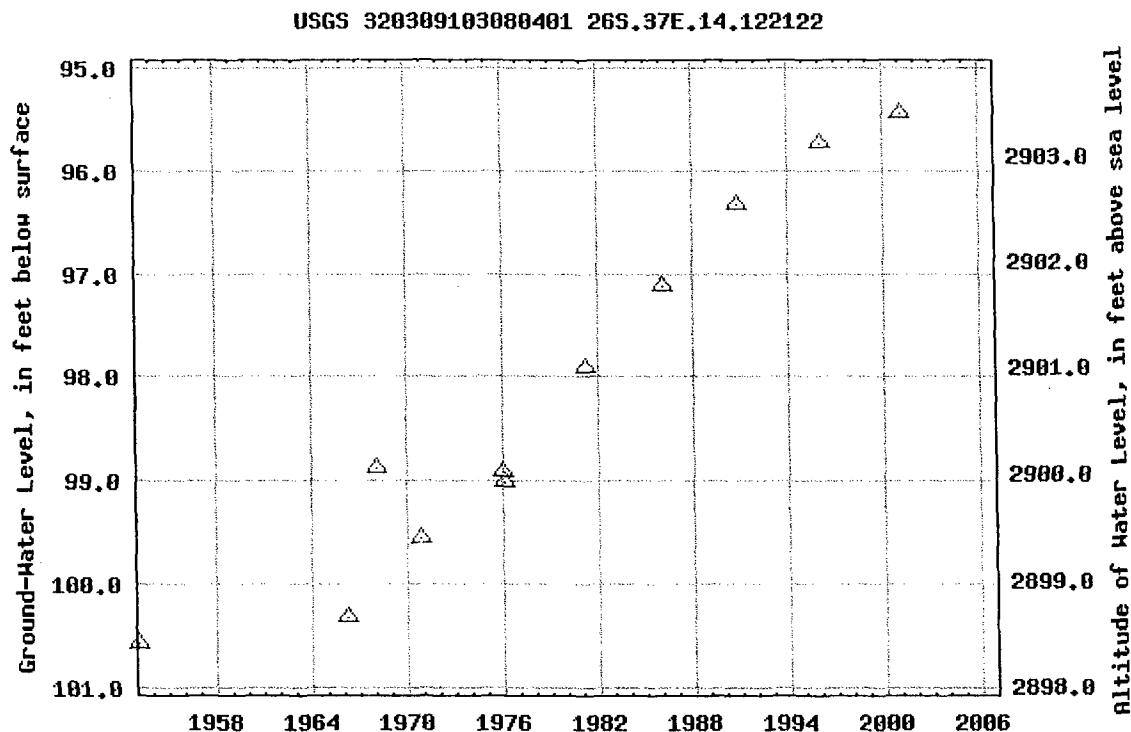
Latitude 32°03'09", Longitude 103°08'04" NAD27

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 WaterGeographic 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

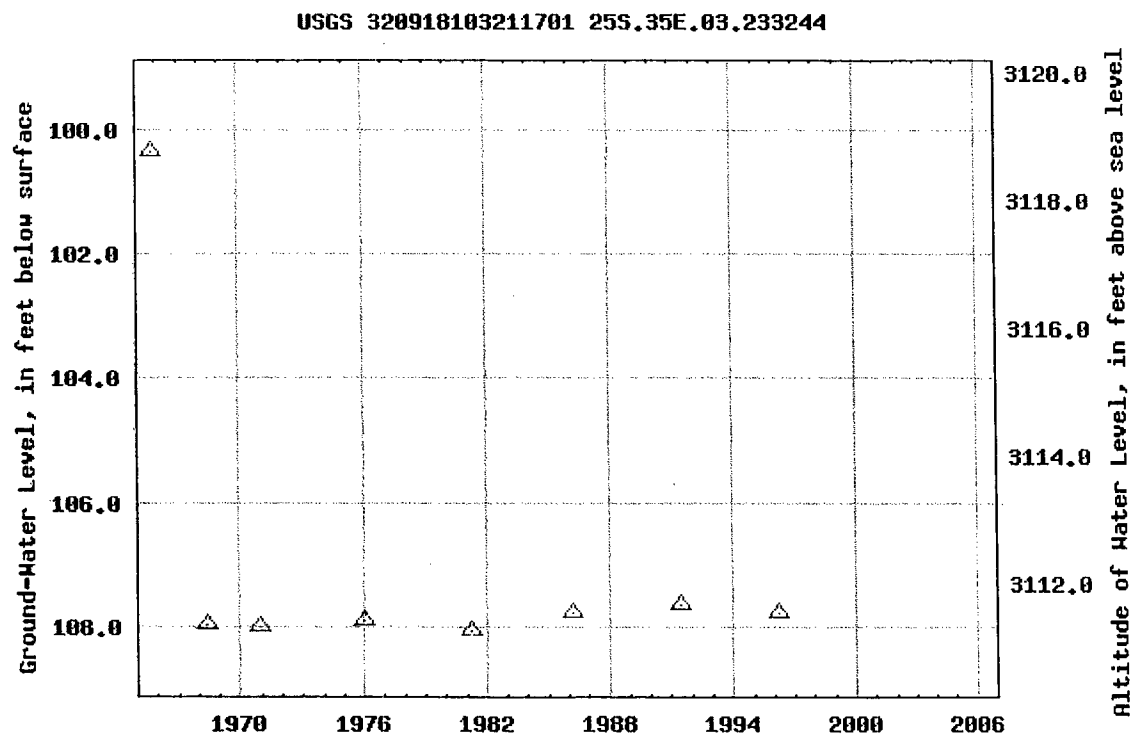
Latitude 32°09'18", Longitude 103°21'17" NAD27

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 Water

Geographic 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

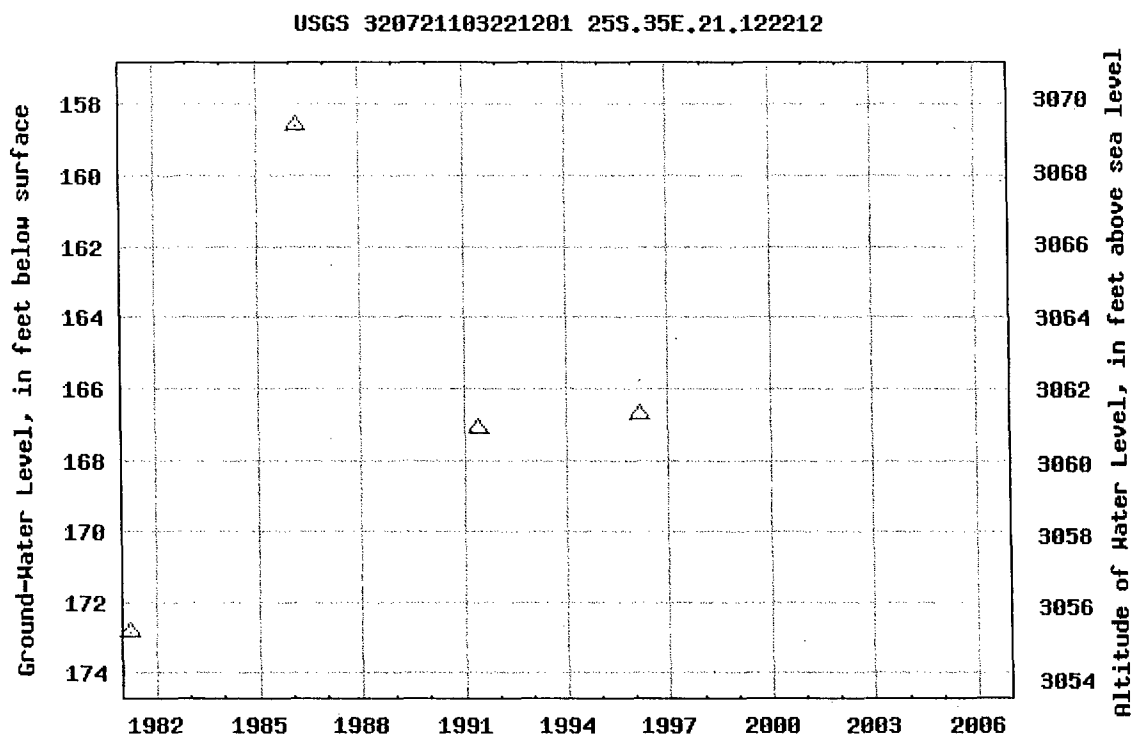
Latitude 32°07'21", Longitude 103°22'12" NAD27

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 WaterGeographic 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

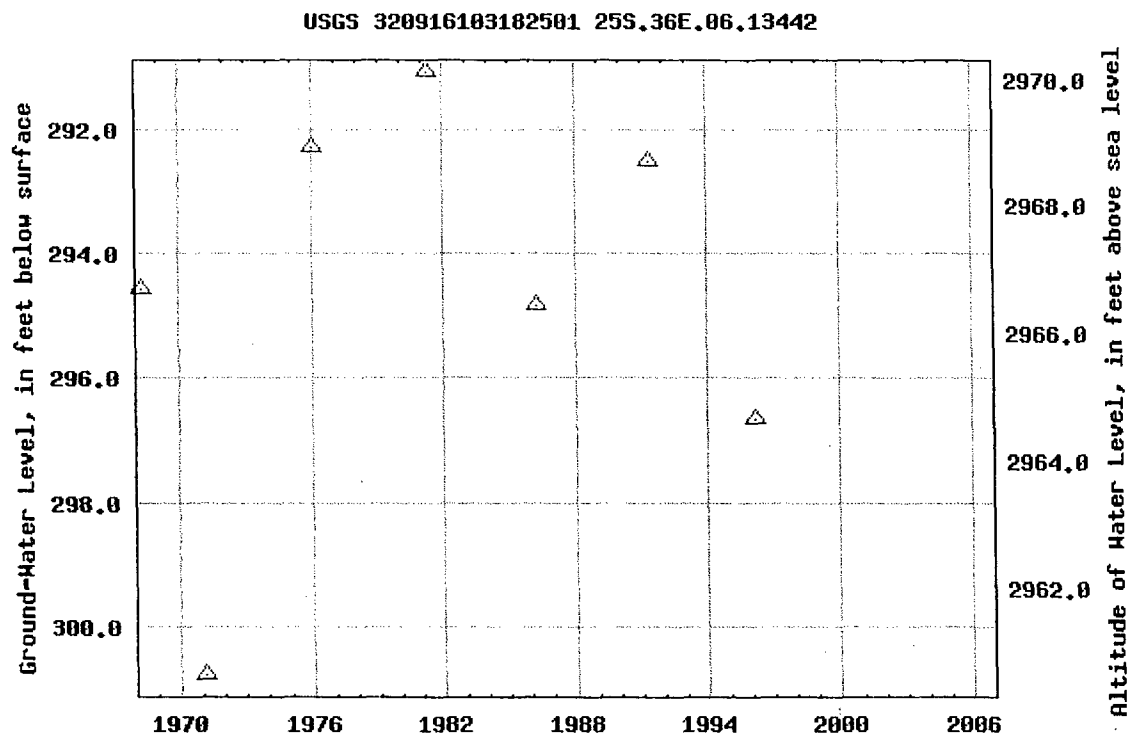
Latitude 32°09'16", Longitude 103°18'25" NAD27

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

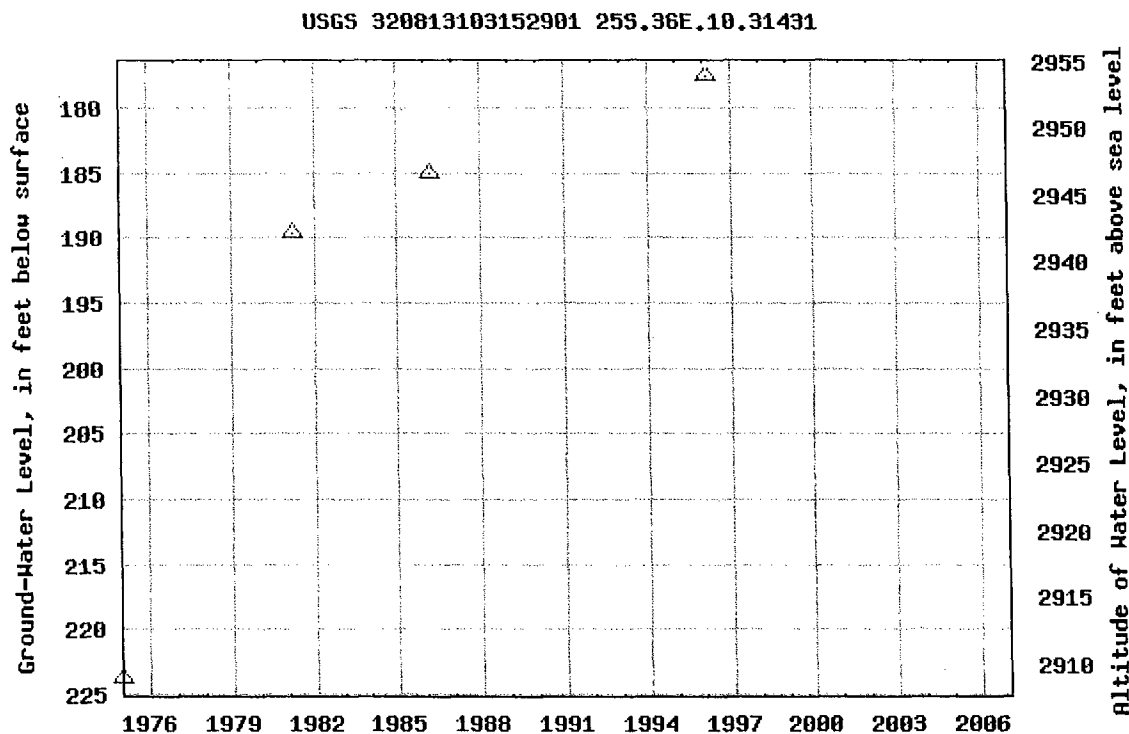
Latitude 32°08'13", Longitude 103°15'29" NAD27

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 WaterGeographic 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

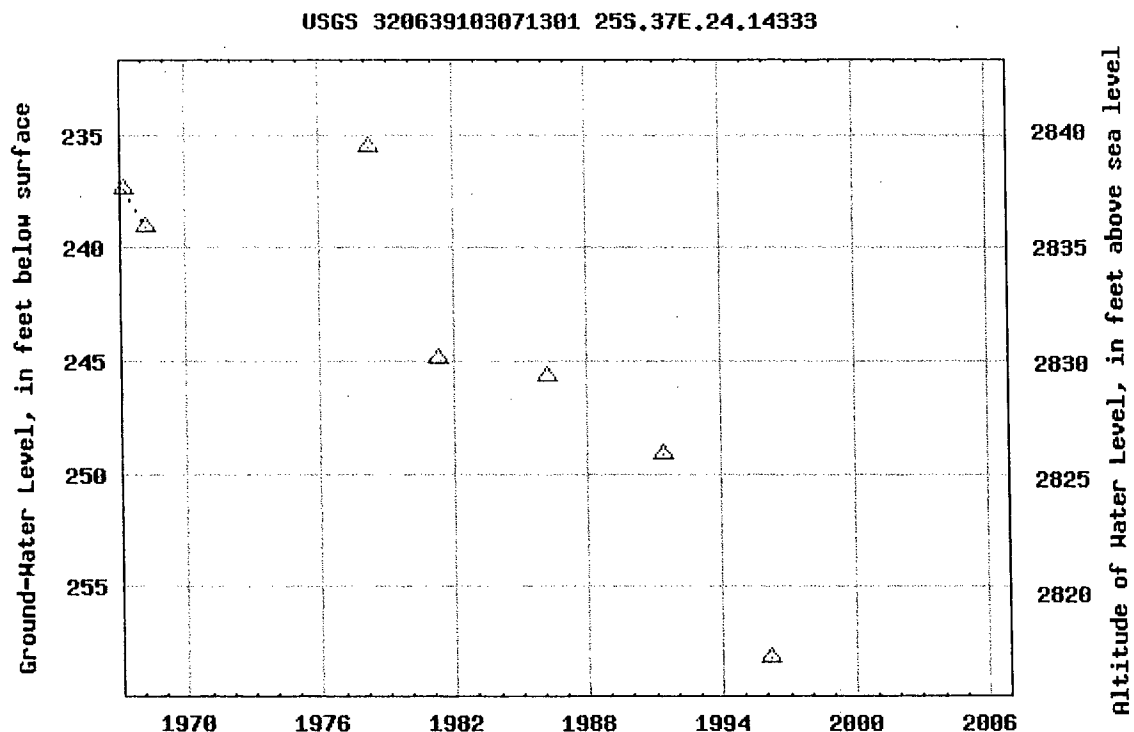
Latitude 32°06'39", Longitude 103°07'13" NAD27

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 WaterGeographic 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

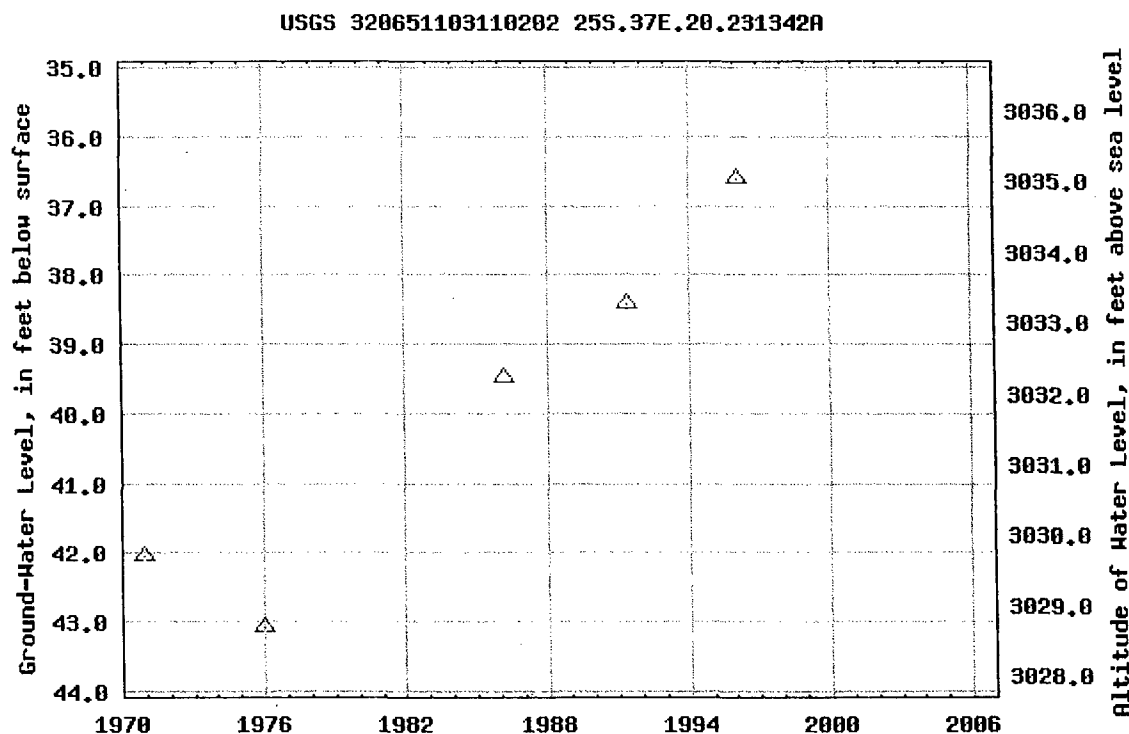
Latitude 32°06'51", Longitude 103°11'02" NAD27

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 WaterGeographic 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

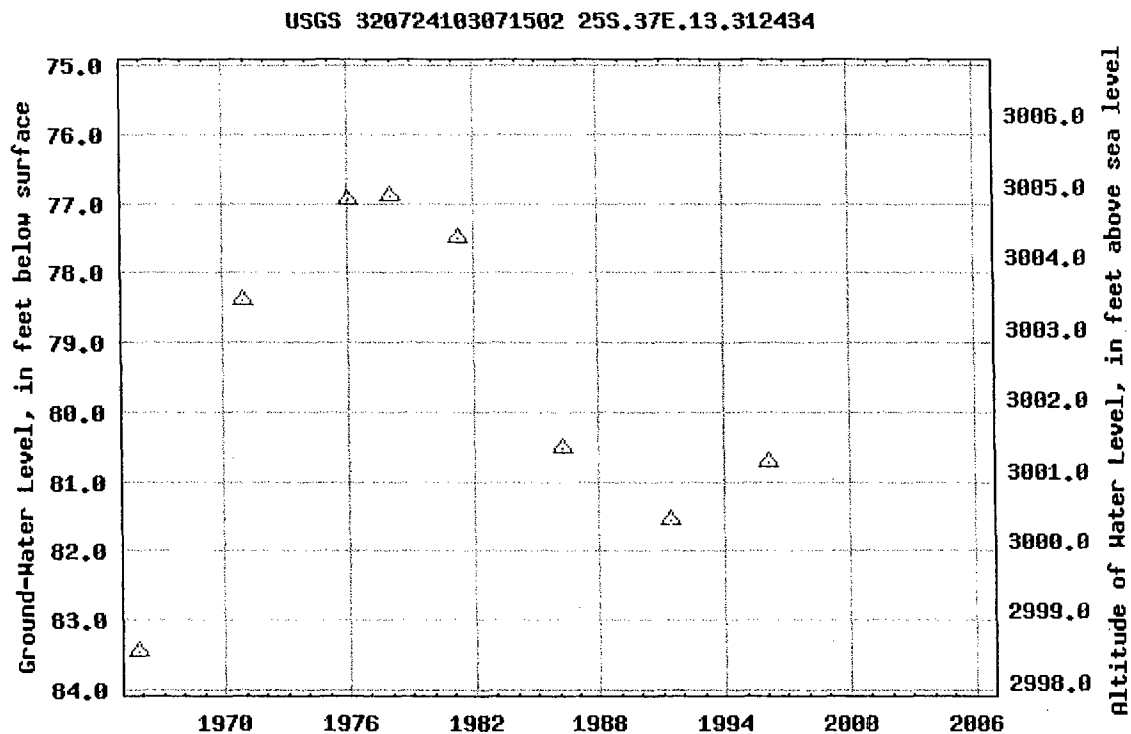
Latitude 32°07'24", Longitude 103°07'15" NAD27

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

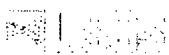
The depth of the well is 145 feet below land surface.

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](#)

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

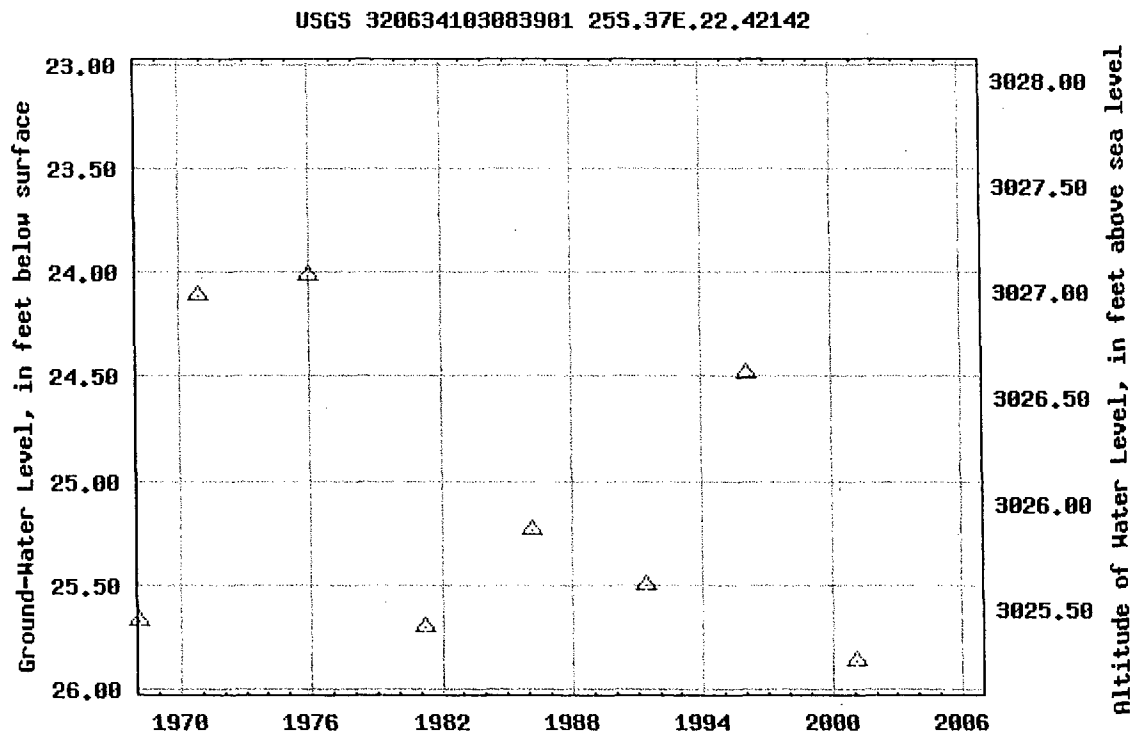
Latitude 32°06'34", Longitude 103°08'39" NAD27

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 WaterGeographic 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.

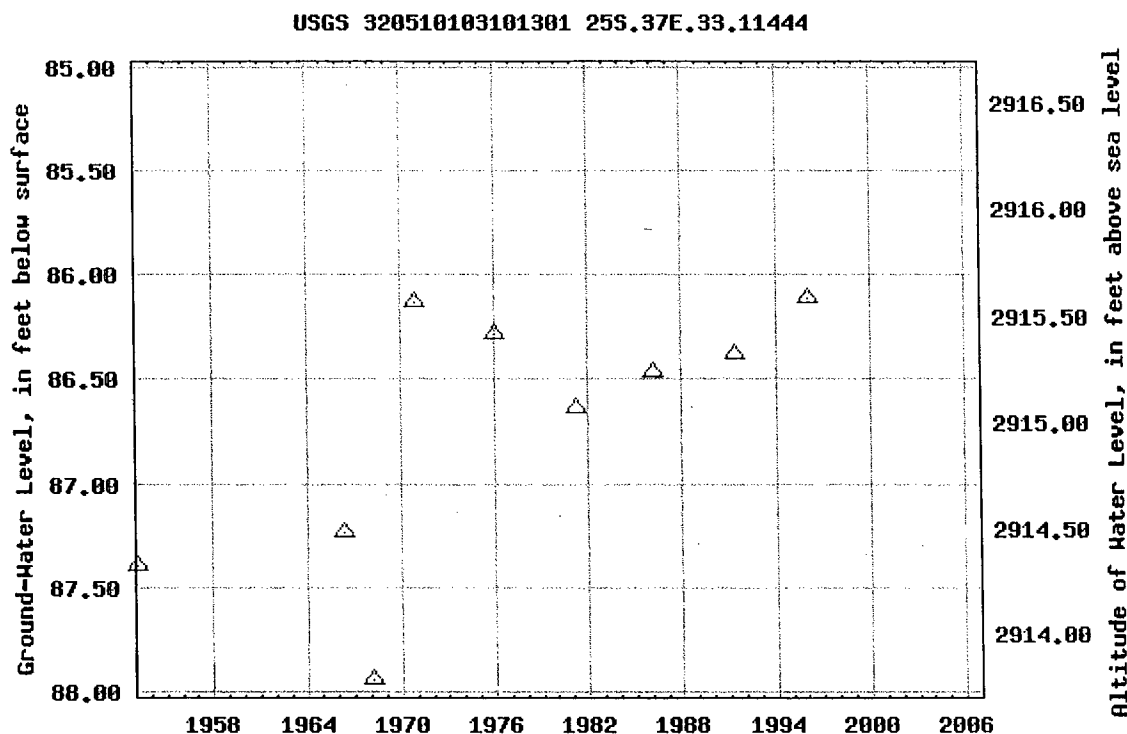
### Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



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 = • 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.

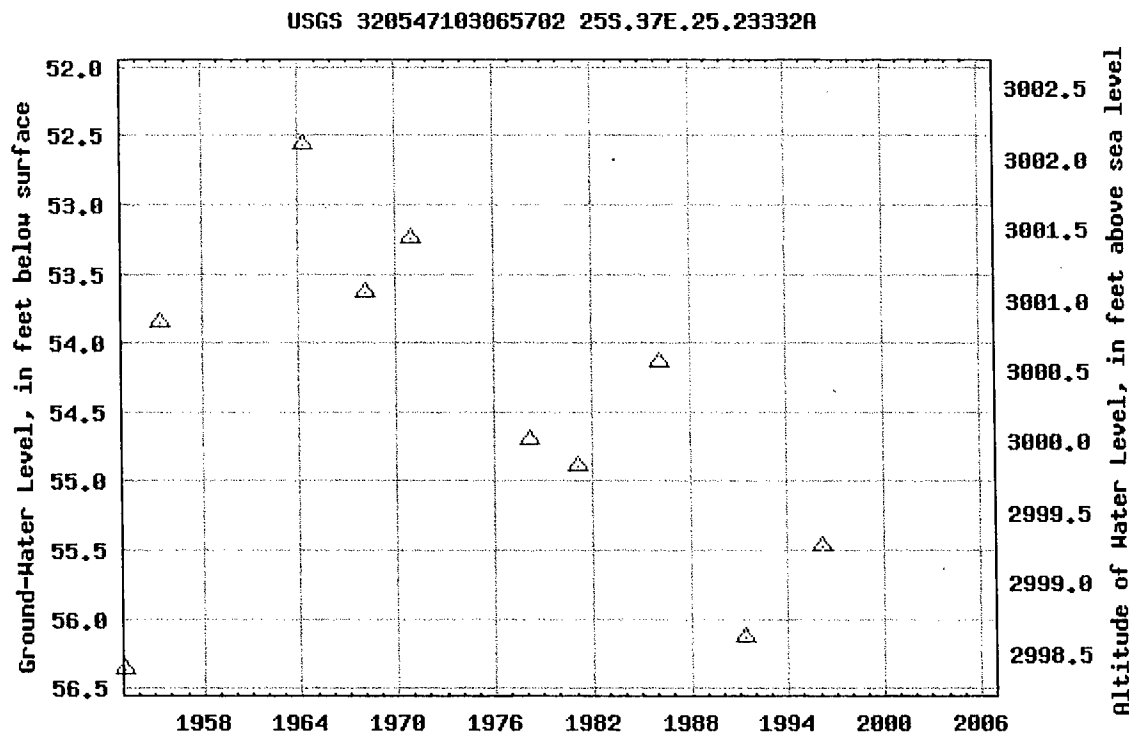
Output formats

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 WaterGeographic 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.

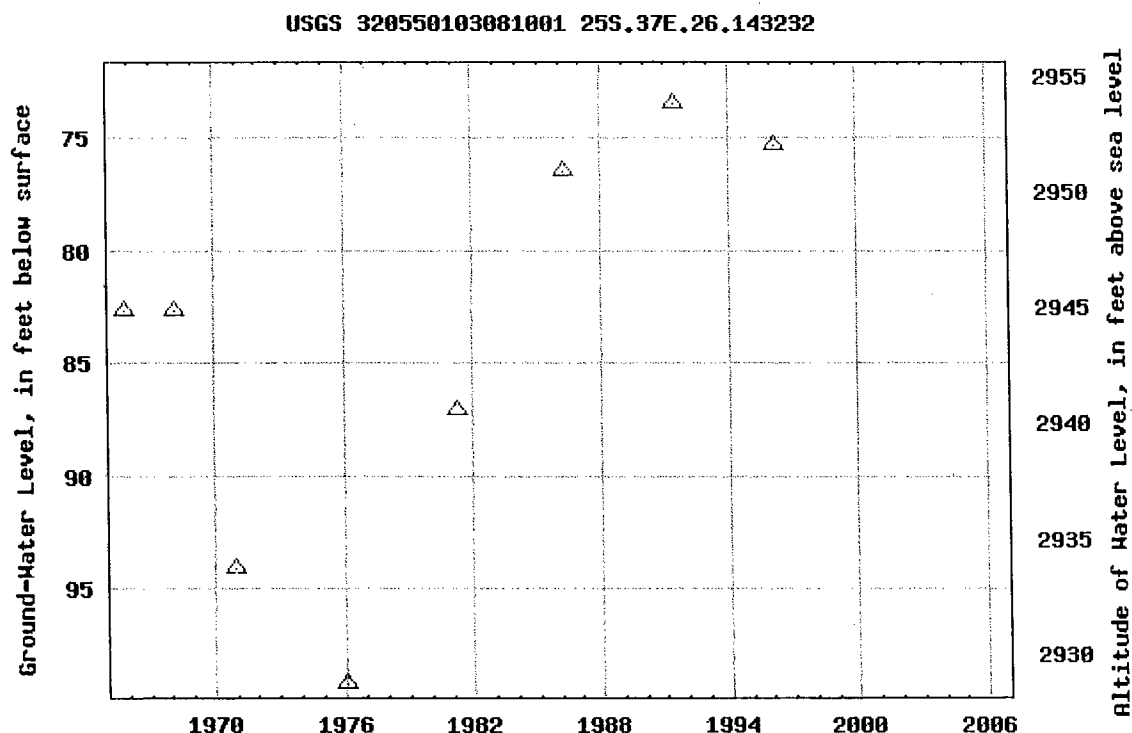
### Output formats

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

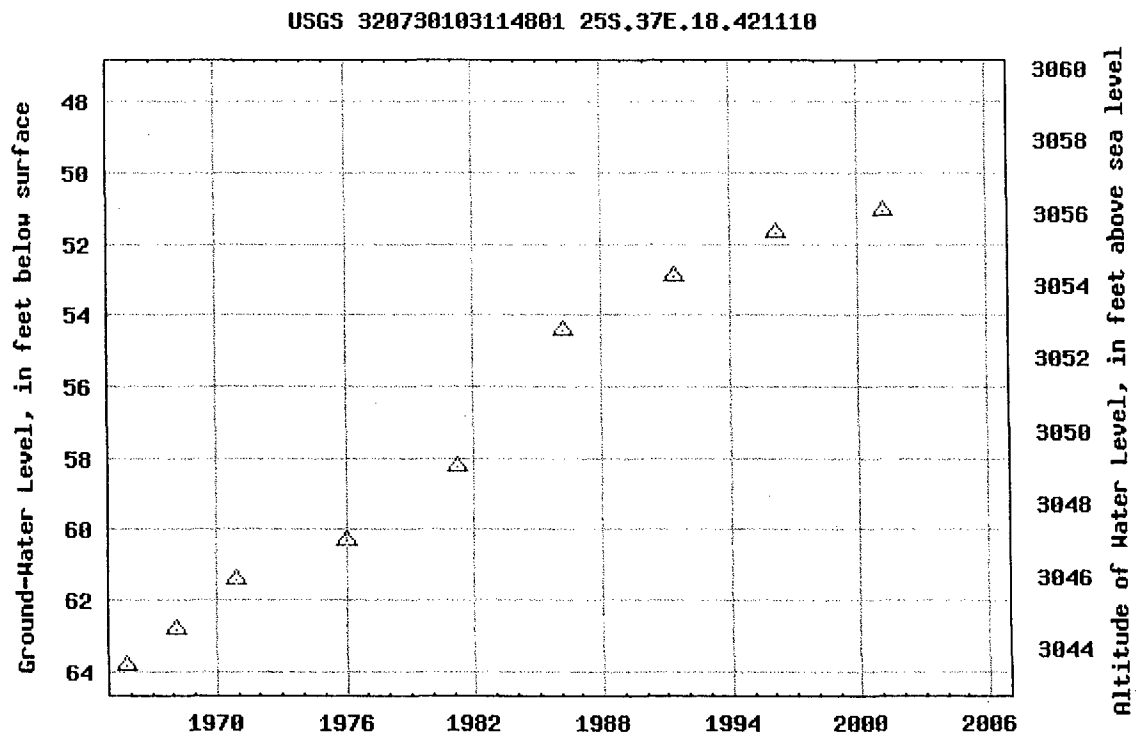
Latitude 32°07'30", Longitude 103°11'48" NAD27

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

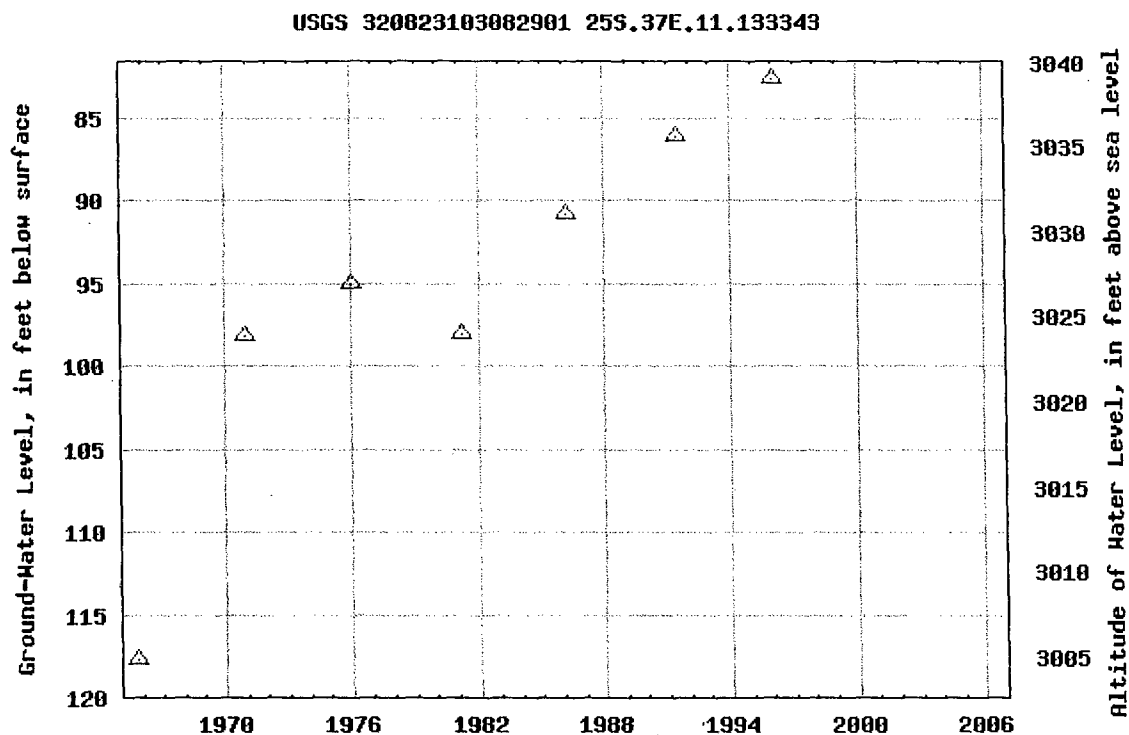
Latitude 32°08'23", Longitude 103°08'29" NAD27

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 WaterGeographic 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

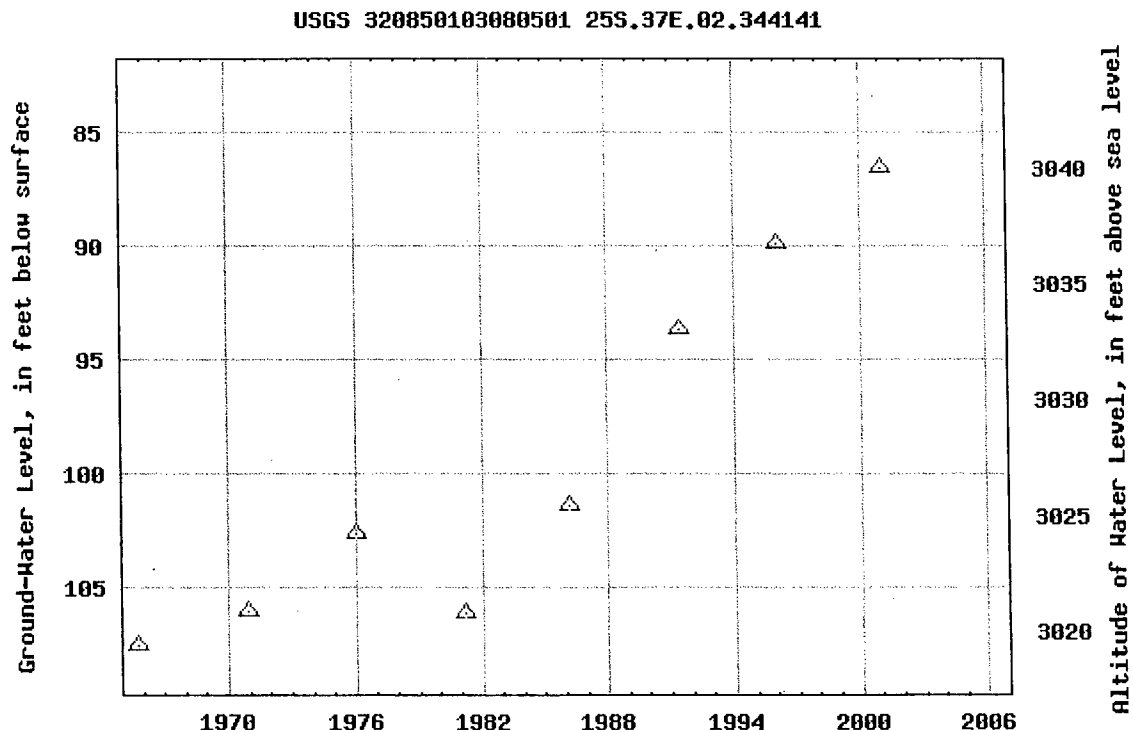
Latitude 32°08'50", Longitude 103°08'05" NAD27

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

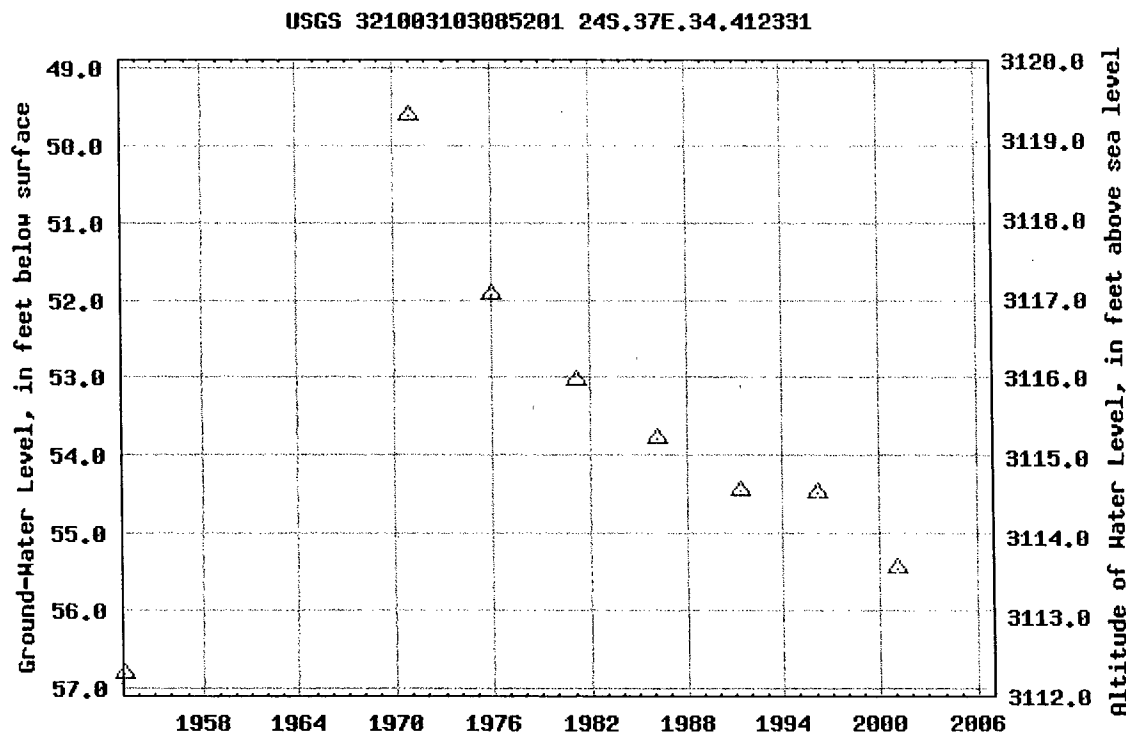
Latitude 32°10'03", Longitude 103°08'52" NAD27

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 WaterGeographic 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

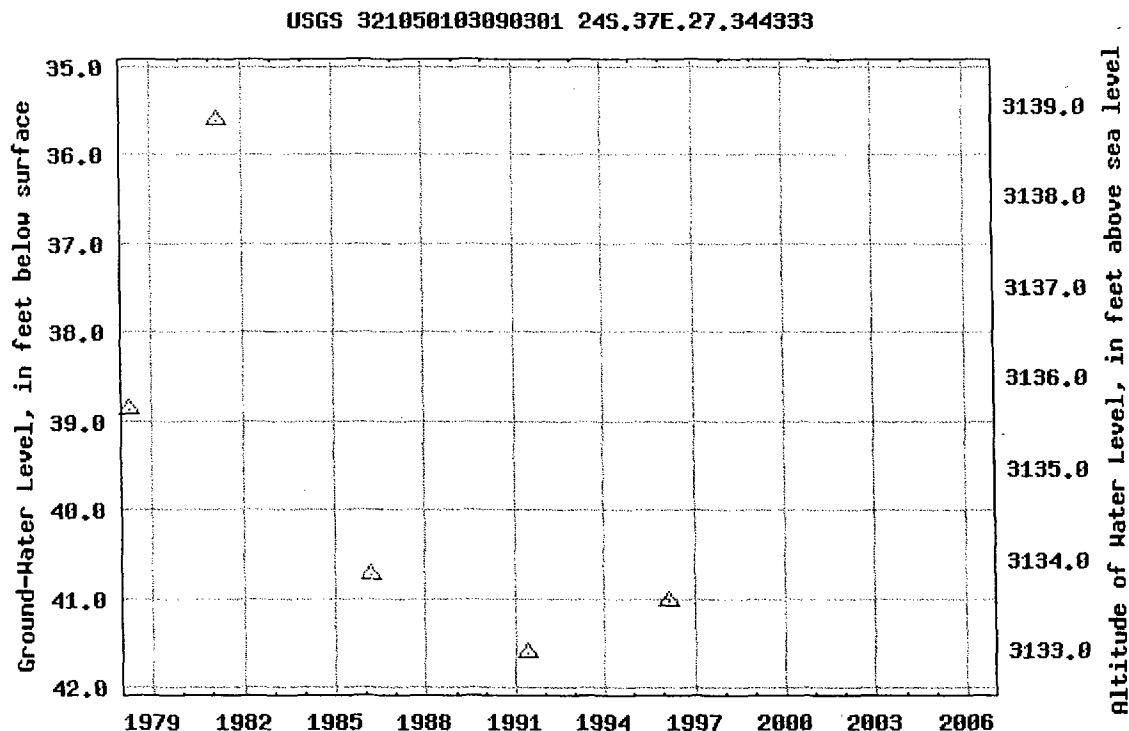
Latitude 32°10'50", Longitude 103°09'03" NAD27

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 WaterGeographic 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.

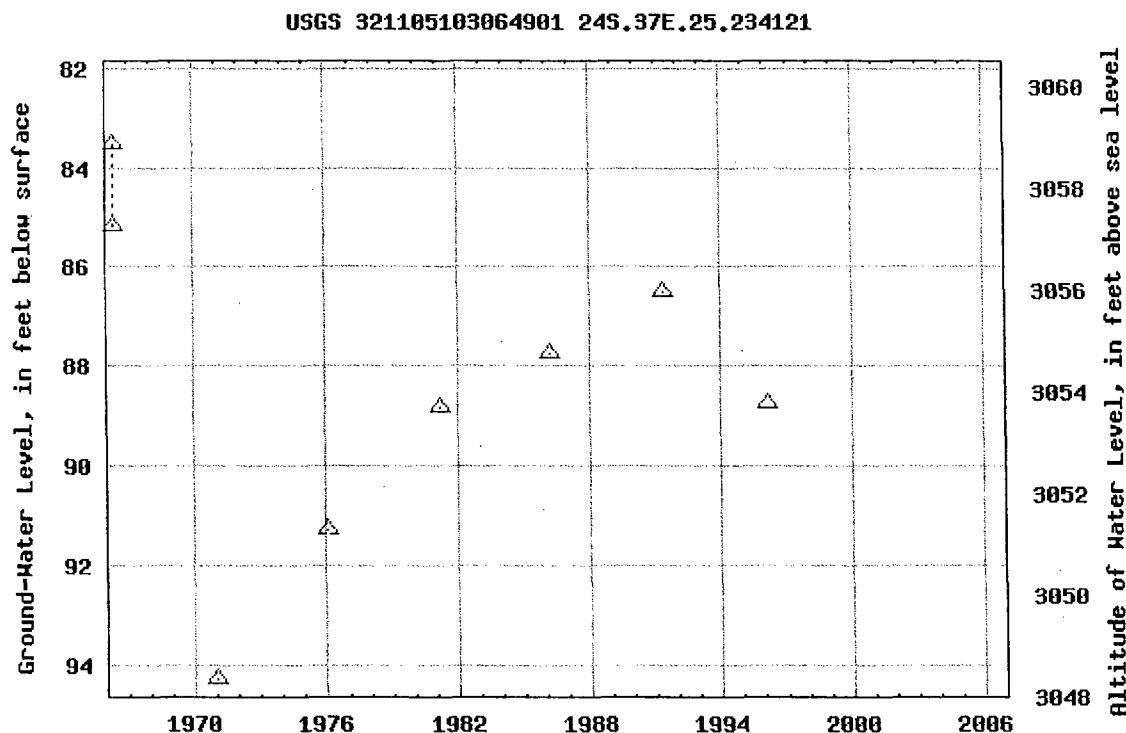
### Output formats

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 WaterGeographic 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

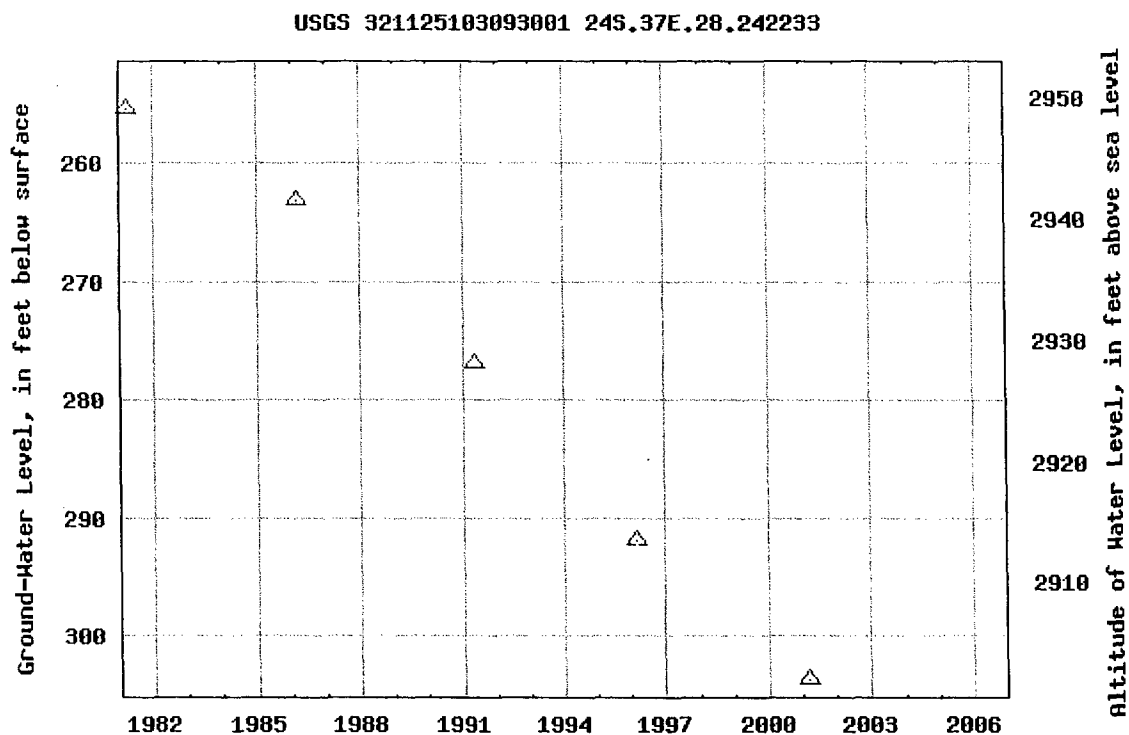
Hydrologic Unit Code

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](#)

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 = • 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

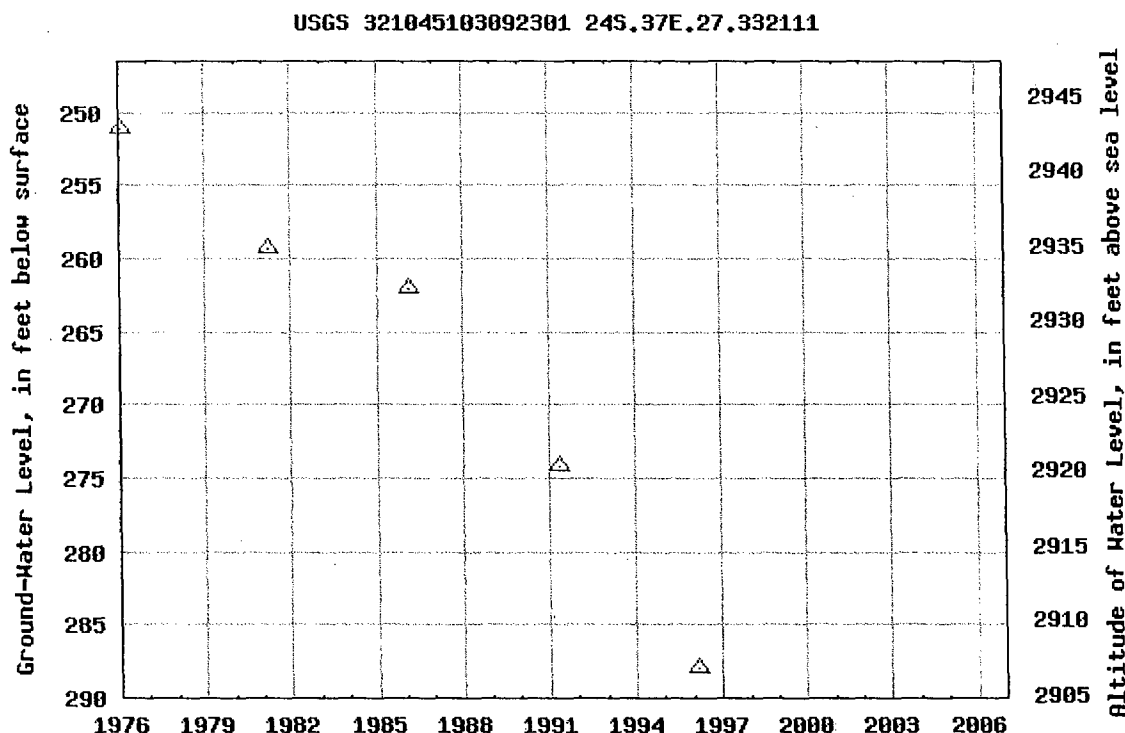
Latitude 32°10'45", Longitude 103°09'23" NAD27

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 WaterGeographic 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

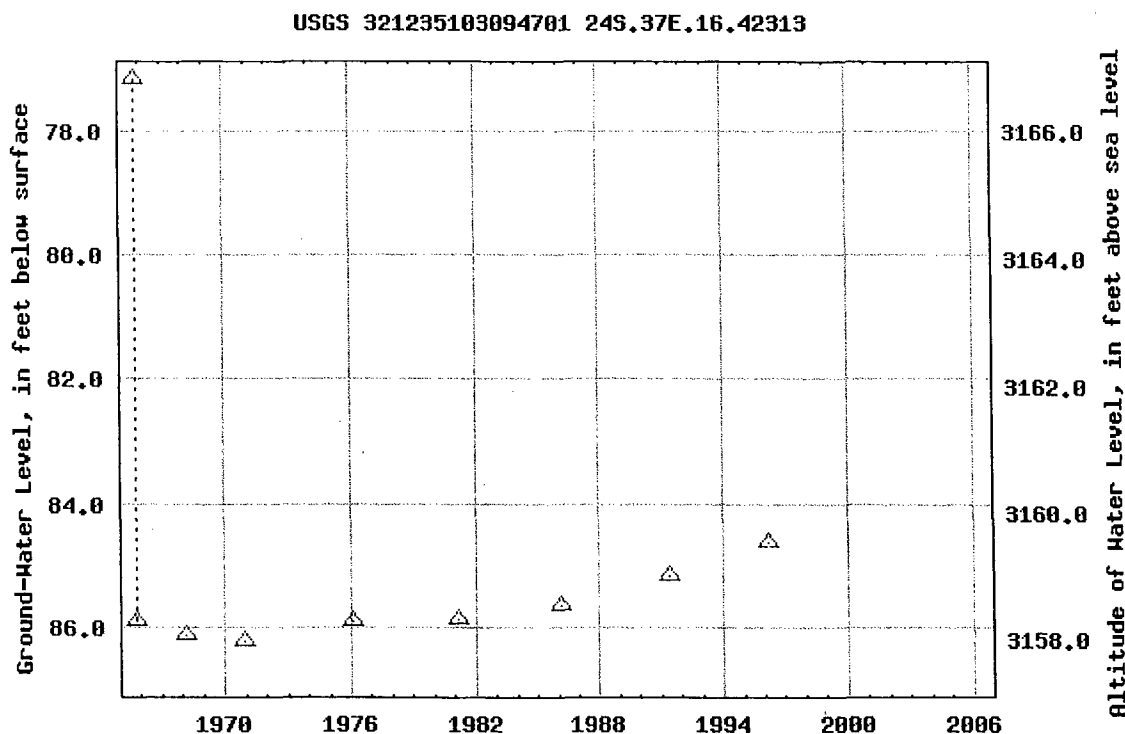
Latitude 32°12'35", Longitude 103°09'47" NAD27

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

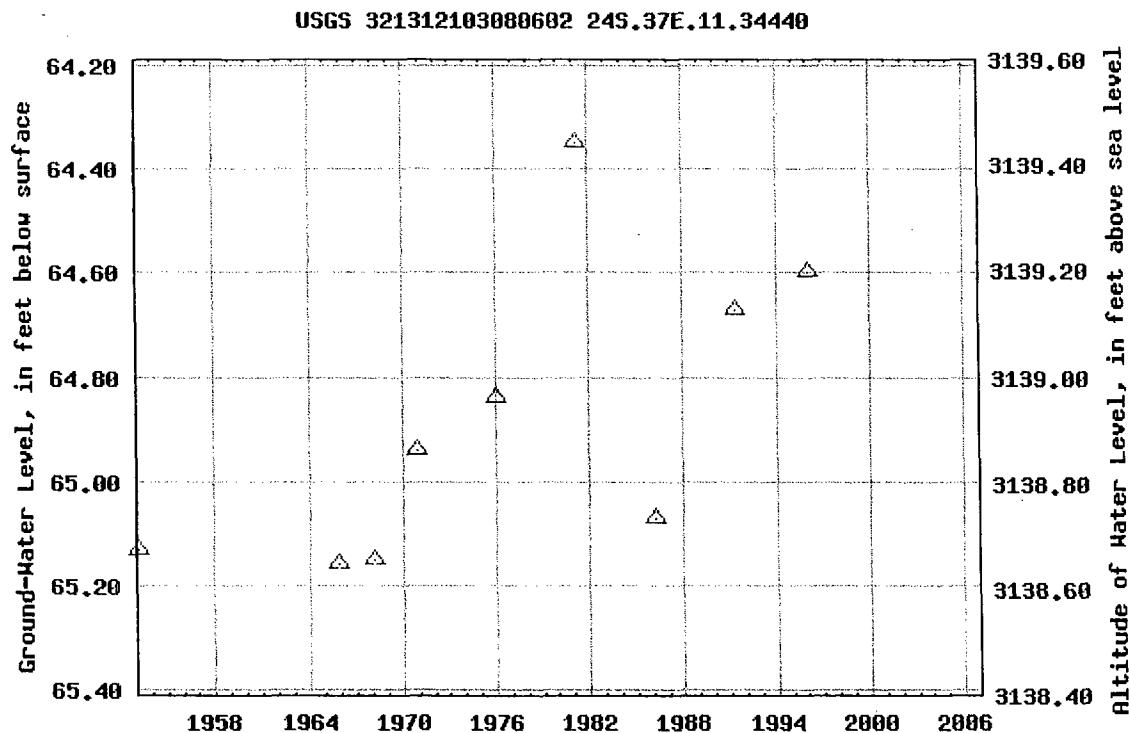
Latitude 32°13'12", Longitude 103°08'06" NAD27

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 WaterGeographic 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

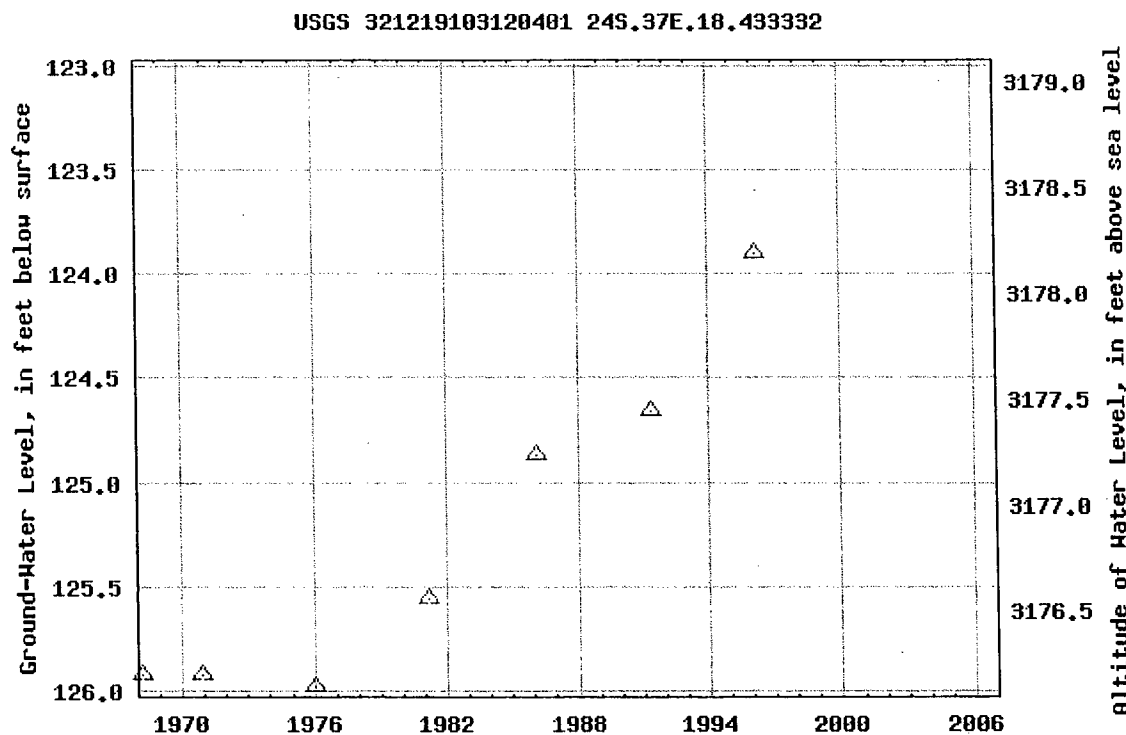
Latitude 32°12'19", Longitude 103°12'04" NAD27

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

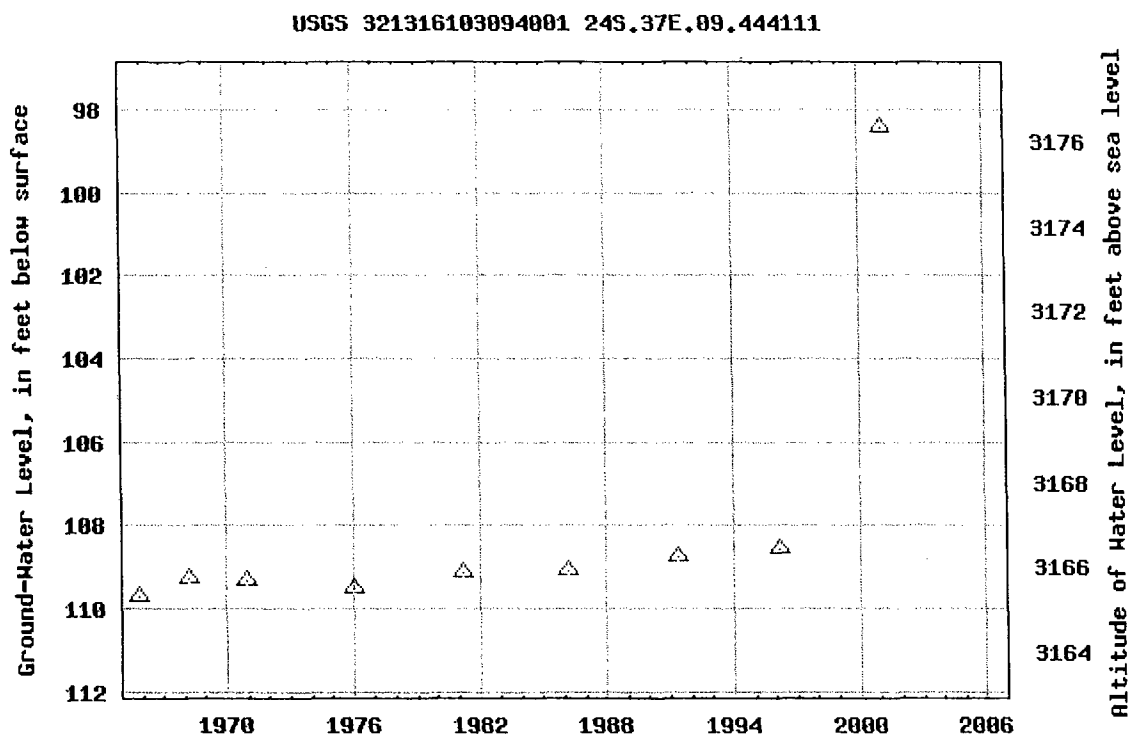
Latitude 32°13'16", Longitude 103°09'40" NAD27

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](#)

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

NWIS

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 = • 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

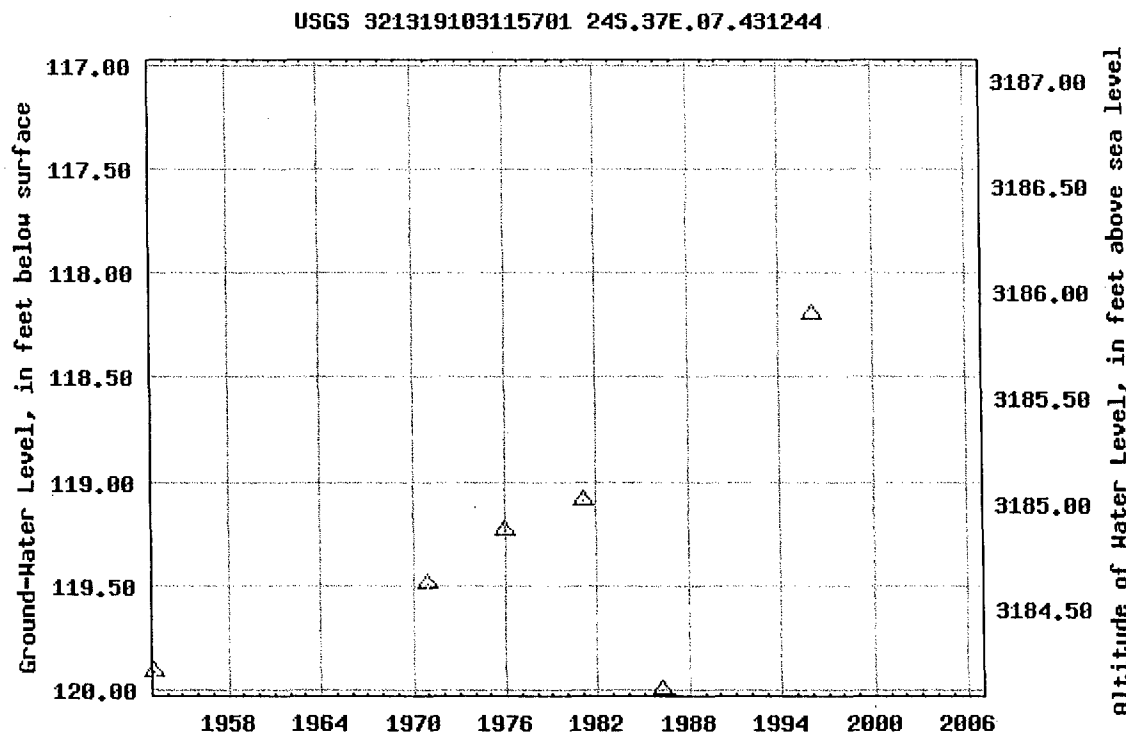
Latitude 32°13'19", Longitude 103°11'57" NAD27

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 WaterGeographic 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

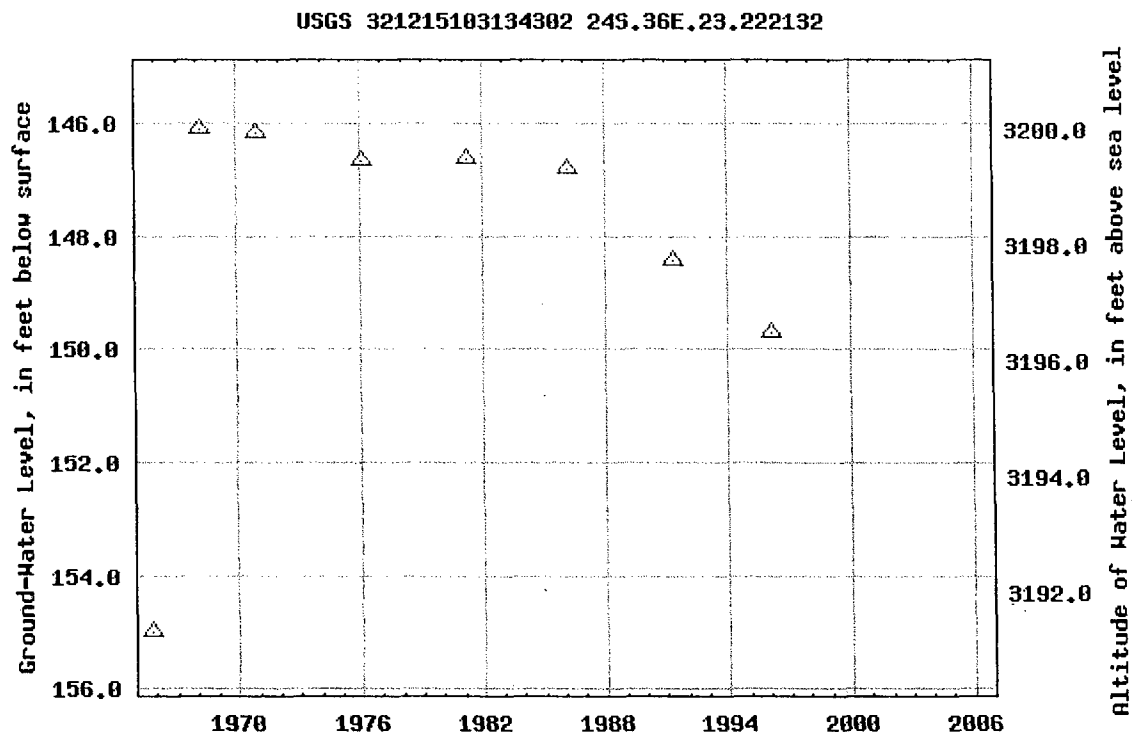
Latitude 32°12'15", Longitude 103°13'43" NAD27

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 WaterGeographic 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

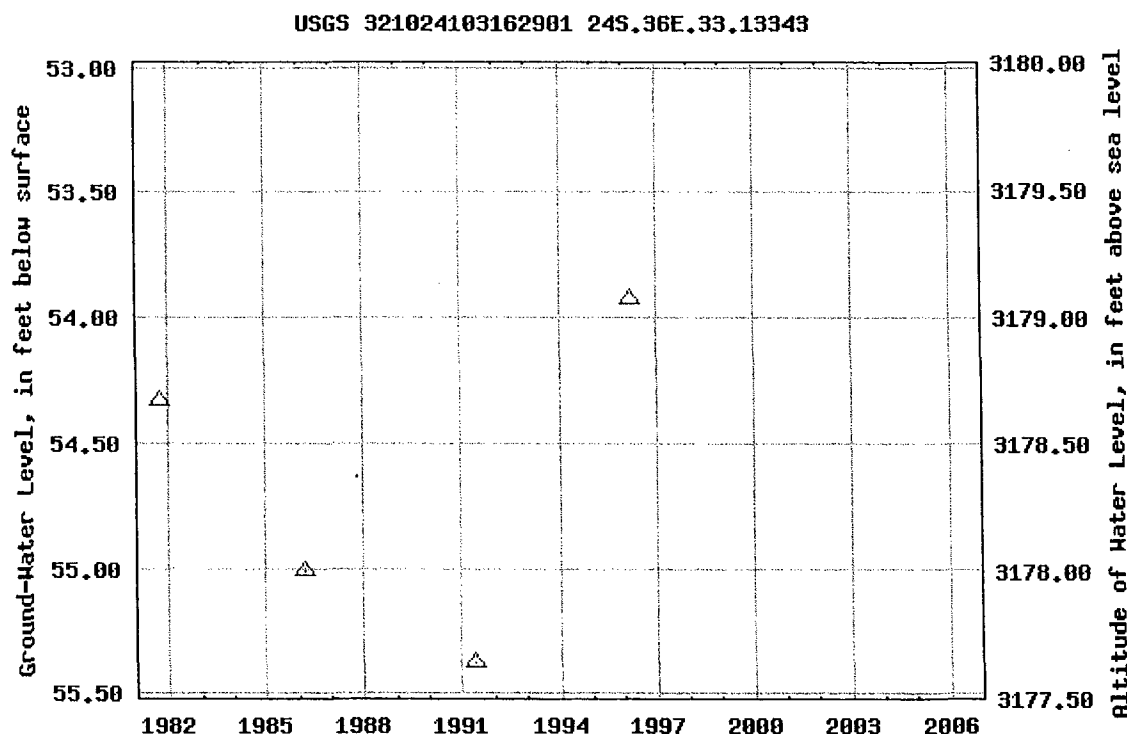
Latitude 32°10'24", Longitude 103°16'29" NAD27

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**

## SAMPLE LOG

Boring/Well: BH-1  
 Project Number: 2345  
 Client: COG  
 Site Location: Jalmat Well #31  
 Location: Lea County, New Mexico  
 Total Depth: 50'  
 Date Installed: 5/16/2006

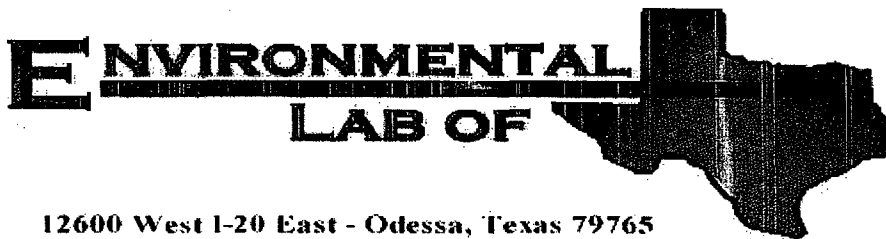
| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION                                                             |
|------------|-----|--------------------------------------------------------------------------------|
| 0-3        | -   | Lt. brown, fine grain sand, some traces of caliche                             |
| 3-5        | -   | White, caliche and tan, fine grain sand                                        |
| 5-6        | 8.0 | Tan, fine grain sand and some white caliche, sandy with depth                  |
| 10-11      | 5.9 | Tan, fine grain sand and tan, gravel                                           |
| 15-16      | 5.6 | Lt reddish, fine grain to silty sand, some gravel, streaks of compacted layers |
| 20-21      | 6.8 | Lt reddish, fine grain to silty sand, streaks of compacted layers              |
| 25-26      | 5.7 | Lt. green and tan, silty sand, some clay matrix,                               |
| 30-31      | 4.9 | Red, clay, dense, dry                                                          |
| 35-36      | 2.8 | Red, clay, dense, dry, with alternating layers red and lt. green clays         |
| 40-41      | 6.3 | Red, clay, dense, dry, alternating layers of red and lt. green clays           |
| 45-46      | 4.6 | Red, clay, dense, dry, with alternating layers of red and lt. green clays      |
| 50-51      | 2.3 | Lt. green, clay, dense, dry, alternating layers of red and green clays         |
|            |     |                                                                                |
|            |     |                                                                                |

## SAMPLE LOG

Boring/Well: BH-2  
Project Number: 2345  
Client: COG  
Site Location: Jalmat Well #31  
Location: Lea County, New Mexico  
Total Depth: 50'  
Date Installed: 5/16/2006

| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION                                                             |
|------------|-----|--------------------------------------------------------------------------------|
| 0-3        | -   | Lt. brown, fine grain sand, some traces of caliche                             |
| 3-5        | -   | White, caliche and tan, fine grain sand                                        |
| 5-6        | 1.8 | Tan, fine grain sand and some white caliche, sandy with depth                  |
| 10-11      | 1.2 | Tan, fine grain sand and tan, gravel                                           |
| 15-16      | 1.0 | Lt reddish, fine grain to silty sand, some gravel, streaks of compacted layers |
| 20-21      | 2.1 | Lt reddish, fine grain to silty sand, streaks of compacted layers              |
| 25-26      | 1.8 | Reddish -tan, silty sand and some traces of caliche and clay matrix,           |
| 30-31      | 1.3 | Lt. green and tan, silty sand and clay matrix,                                 |
| 35-36      | 1.0 | Lt. green, clay, dense, dry, alternating layers red and lt. red clays          |
| 40-41      | 2.0 | Lt. green, clay, dense, dry, alternating layers red and lt. green clays        |
| 45-46      | 1.2 | Red, clay, dense, dry, alternating layers red and lt. green clays              |
| 50-51'     | 0.8 | Lt. green, clay, dense, dry, alternating layers red and lt. green clays        |
|            |     |                                                                                |
|            |     |                                                                                |

## Appendix C



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 #31

Project Number: 2345

Location: Lea Co., NM

Lab Order Number: 6E18002

Report Date: 05/22/06

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID    | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|--------------|---------------|--------|----------------|----------------|
| BH-1 (5-6)   | 6E18002-01    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (10-11) | 6E18002-02    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (15-16) | 6E18002-03    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (20-21) | 6E18002-04    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (25-26) | 6E18002-05    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (30-31) | 6E18002-06    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (35-36) | 6E18002-07    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (40-41) | 6E18002-08    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-1 (45-46) | 6E18002-09    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (5-6)   | 6E18002-11    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (10-11) | 6E18002-12    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (15-16) | 6E18002-13    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (20-21) | 6E18002-14    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (25-26) | 6E18002-15    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (30-31) | 6E18002-16    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (35-36) | 6E18002-17    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (40-41) | 6E18002-18    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |
| BH-2 (45-46) | 6E18002-19    | Soil   | 05/16/06 00:00 | 05/17/06 17:25 |

Highlander Environmental Corp.  
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Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                               | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>BH-1 (5-6) (6E18002-01) Soil</b>   |        |                 |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250          | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 106 %           | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 86.0 %          | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0            | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C12-C28                 | 27.2   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                 | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | 27.2   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 97.2 %          | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 101 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>BH-1 (15-16) (6E18002-03) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250          | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 106 %           | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 81.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0            | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C12-C28                 | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                 | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | ND     | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 99.6 %          | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 101 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>BH-1 (25-26) (6E18002-05) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250          | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 104 %           | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 85.2 %          | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0            | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |

Environmental Lab of Texas

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Page 2 of 13

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                               | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>BH-1 (25-26) (6E18002-05) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Carbon Ranges C12-C28                 | ND     | 10.0               | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C28-C35                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 98.0 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 102 %              | 70-130    |          | "       | "        | "        | "         |       |
| <b>BH-2 (5-6) (6E18002-11) Soil</b>   |        |                    |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250             | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 108 %              | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 94.2 %             | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0               | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C12-C28                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 96.4 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 97.6 %             | 70-130    |          | "       | "        | "        | "         |       |
| <b>BH-2 (15-16) (6E18002-13) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250             | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 99.5 %             | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 80.8 %             | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0               | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C12-C28                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 94.6 %             | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 97.6 %             | 70-130    |          | "       | "        | "        | "         |       |

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                               | Result | Reporting<br>Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>BH-2 (25-26) (6E18002-15) Soil</b> |        |                    |           |          |         |          |          |           |       |
| Benzene                               | ND     | 0.0250             | mg/kg dry | 25       | EE61802 | 05/18/06 | 05/18/06 | 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     |        | 109 %              | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene       |        | 92.8 %             | 80-120    |          | "       | "        | "        | "         |       |
| Carbon Ranges C6-C12                  | ND     | 10.0               | mg/kg dry | 1        | EE61809 | 05/18/06 | 05/19/06 | EPA 8015M |       |
| Carbon Ranges C12-C28                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Carbon Ranges C28-C35                 | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon nC6-nC35            | ND     | 10.0               | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane             |        | 102 %              | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane         |        | 104 %              | 70-130    |          | "       | "        | "        | "         |       |

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                               | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|---------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>BH-1 (5-6) (6E18002-01) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 2770   | 50.0               | mg/kg | 100      | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| % Moisture                            | 13.2   | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |
| <b>BH-1 (10-11) (6E18002-02) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 1090   | 20.0               | mg/kg | 40       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-1 (15-16) (6E18002-03) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 1460   | 25.0               | mg/kg | 50       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| % Moisture                            | 6.2    | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |
| <b>BH-1 (20-21) (6E18002-04) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 528    | 10.0               | mg/kg | 20       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-1 (25-26) (6E18002-05) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 6910   | 100                | mg/kg | 200      | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| % Moisture                            | 10.7   | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |
| <b>BH-1 (30-31) (6E18002-06) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 5220   | 100                | mg/kg | 200      | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-1 (35-36) (6E18002-07) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 550    | 10.0               | mg/kg | 20       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-1 (40-41) (6E18002-08) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 863    | 10.0               | mg/kg | 20       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-1 (45-46) (6E18002-09) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 33.4   | 10.0               | mg/kg | 20       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-2 (5-6) (6E18002-11) Soil</b>   |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 2020   | 50.0               | mg/kg | 100      | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| % Moisture                            | 6.9    | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                               | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|---------------------------------------|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>BH-2 (10-11) (6E18002-12) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 1210   | 20.0               | mg/kg | 40       | EE62001 | 05/19/06 | 05/19/06 | EPA 300.0     |       |
| <b>BH-2 (15-16) (6E18002-13) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 70.9   | 5.00               | mg/kg | 10       | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| % Moisture                            | 2.4    | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |
| <b>BH-2 (20-21) (6E18002-14) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 974    | 50.0               | mg/kg | 100      | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| <b>BH-2 (25-26) (6E18002-15) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 4830   | 100                | mg/kg | 200      | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| % Moisture                            | 10.6   | 0.1                | %     | 1        | EE61910 | 05/18/06 | 05/19/06 | % calculation |       |
| <b>BH-2 (30-31) (6E18002-16) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 4430   | 50.0               | mg/kg | 100      | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| <b>BH-2 (35-36) (6E18002-17) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 2130   | 50.0               | mg/kg | 100      | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| <b>BH-2 (40-41) (6E18002-18) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 260    | 10.0               | mg/kg | 20       | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |
| <b>BH-2 (45-46) (6E18002-19) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                              | 30.2   | 5.00               | mg/kg | 10       | EE62002 | 05/21/06 | 05/21/06 | EPA 300.0     |       |

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EE61802 - EPA 5030C (GC)**

**Blank (EE61802-BLK1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| 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 | 45.3 |        | ug/kg     | 40.0 |  | 113  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 36.2 |        | "         | 40.0 |  | 90.5 | 80-120 |  |  |  |

**LCS (EE61802-BS1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | 1.06 | 0.0250 | mg/kg wet | 1.25 |  | 84.8 | 80-120 |  |  |  |
| Toluene                           | 1.05 | 0.0250 | "         | 1.25 |  | 84.0 | 80-120 |  |  |  |
| Ethylbenzene                      | 1.15 | 0.0250 | "         | 1.25 |  | 92.0 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.54 | 0.0250 | "         | 2.50 |  | 102  | 80-120 |  |  |  |
| Xylene (o)                        | 1.23 | 0.0250 | "         | 1.25 |  | 98.4 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 43.9 |        | ug/kg     | 40.0 |  | 110  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 36.0 |        | "         | 40.0 |  | 90.0 | 80-120 |  |  |  |

**Calibration Check (EE61802-CCV1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                                   |      |  |       |      |  |      |        |  |  |  |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene                           | 42.2 |  | ug/kg | 50.0 |  | 84.4 | 80-120 |  |  |  |
| Toluene                           | 41.7 |  | "     | 50.0 |  | 83.4 | 80-120 |  |  |  |
| Ethylbenzene                      | 51.3 |  | "     | 50.0 |  | 103  | 80-120 |  |  |  |
| Xylene (p/m)                      | 92.9 |  | "     | 100  |  | 92.9 | 80-120 |  |  |  |
| Xylene (o)                        | 47.0 |  | "     | 50.0 |  | 94.0 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 43.0 |  | "     | 40.0 |  | 108  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 42.0 |  | "     | 40.0 |  | 105  | 80-120 |  |  |  |

**Matrix Spike (EE61802-MS1)**

Source: 6E17002-01

Prepared: 05/18/06 Analyzed: 05/19/06

|                                   |      |        |           |      |    |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|----|------|--------|--|--|--|
| Benzene                           | 1.09 | 0.0250 | mg/kg dry | 1.26 | ND | 86.5 | 80-120 |  |  |  |
| Toluene                           | 1.08 | 0.0250 | "         | 1.26 | ND | 85.7 | 80-120 |  |  |  |
| Ethylbenzene                      | 1.19 | 0.0250 | "         | 1.26 | ND | 94.4 | 80-120 |  |  |  |
| Xylene (p/m)                      | 2.62 | 0.0250 | "         | 2.52 | ND | 104  | 80-120 |  |  |  |
| Xylene (o)                        | 1.26 | 0.0250 | "         | 1.26 | ND | 100  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 44.7 |        | ug/kg     | 40.0 |    | 112  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 38.2 |        | "         | 40.0 |    | 95.5 | 80-120 |  |  |  |

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946  
**Reported:**  
05/22/06 15:05

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EE61802 - EPA 5030C (GC)**

**Matrix Spike Dup (EE61802-MSD1)**

Source: 6E17002-01

Prepared: 05/18/06 Analyzed: 05/19/06

|                                   |      |        |           |      |    |      |        |       |    |  |
|-----------------------------------|------|--------|-----------|------|----|------|--------|-------|----|--|
| Benzene                           | 1.07 | 0.0250 | mg/kg dry | 1.26 | ND | 84.9 | 80-120 | 1.87  | 20 |  |
| Toluene                           | 1.08 | 0.0250 | "         | 1.26 | ND | 85.7 | 80-120 | 0.00  | 20 |  |
| Ethylbenzene                      | 1.22 | 0.0250 | "         | 1.26 | ND | 96.8 | 80-120 | 2.51  | 20 |  |
| Xylene (p/m)                      | 2.64 | 0.0250 | "         | 2.52 | ND | 105  | 80-120 | 0.957 | 20 |  |
| Xylene (o)                        | 1.30 | 0.0250 | "         | 1.26 | ND | 103  | 80-120 | 2.96  | 20 |  |
| Surrogate: a,a,a-Trifluorotoluene | 43.2 |        | ug/kg     | 40.0 |    | 108  | 80-120 |       |    |  |
| Surrogate: 4-Bromofluorobenzene   | 38.8 |        | "         | 40.0 |    | 97.0 | 80-120 |       |    |  |

**Batch EE61809 - Solvent Extraction (GC)**

**Blank (EE61809-BLK1)**

Prepared & Analyzed: 05/18/06

|                               |      |      |           |      |  |     |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|--|
| 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 Hydrocarbon nC6-nC35    | ND   | 10.0 | "         |      |  |     |        |  |  |  |
| Surrogate: 1-Chlorooctane     | 62.6 |      | mg/kg     | 50.0 |  | 125 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 63.5 |      | "         | 50.0 |  | 127 | 70-130 |  |  |  |

**LCS (EE61809-BS1)**

Prepared & Analyzed: 05/18/06

|                               |      |      |           |      |  |     |        |  |  |  |
|-------------------------------|------|------|-----------|------|--|-----|--------|--|--|--|
| Carbon Ranges C6-C12          | 566  | 10.0 | mg/kg wet | 500  |  | 113 | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 573  | 10.0 | "         | 500  |  | 115 | 75-125 |  |  |  |
| Total Hydrocarbon nC6-nC35    | 1140 | 10.0 | "         | 1000 |  | 114 | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 63.2 |      | mg/kg     | 50.0 |  | 126 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 57.1 |      | "         | 50.0 |  | 114 | 70-130 |  |  |  |

**Calibration Check (EE61809-CCV1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|                               |      |  |       |      |  |      |        |  |  |  |
|-------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 256  |  | mg/kg | 250  |  | 102  | 80-120 |  |  |  |
| Carbon Ranges C12-C28         | 285  |  | "     | 250  |  | 114  | 80-120 |  |  |  |
| Total Hydrocarbon nC6-nC35    | 541  |  | "     | 500  |  | 108  | 80-120 |  |  |  |
| Surrogate: 1-Chlorooctane     | 46.8 |  | "     | 50.0 |  | 93.6 | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 46.9 |  | "     | 50.0 |  | 93.8 | 70-130 |  |  |  |

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EE61809 - Solvent Extraction (GC)**

| Matrix Spike (EE61809-MS1)    | Source: 6E18011-02 |      |           | Prepared & Analyzed: 05/18/06 |    |      |        |  |  |  |
|-------------------------------|--------------------|------|-----------|-------------------------------|----|------|--------|--|--|--|
| Carbon Ranges C6-C12          | 590                | 10.0 | mg/kg dry | 535                           | ND | 110  | 75-125 |  |  |  |
| Carbon Ranges C12-C28         | 613                | 10.0 | "         | 535                           | ND | 115  | 75-125 |  |  |  |
| Total Hydrocarbon nC6-nC35    | 1200               | 10.0 | "         | 1070                          | ND | 112  | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane     | 56.9               |      | mg/kg     | 50.0                          |    | 114  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 49.9               |      | "         | 50.0                          |    | 99.8 | 70-130 |  |  |  |

| Matrix Spike Dup (EE61809-MSD1) | Source: 6E18011-02 |      |           | Prepared & Analyzed: 05/18/06 |    |     |        |      |    |  |
|---------------------------------|--------------------|------|-----------|-------------------------------|----|-----|--------|------|----|--|
| Carbon Ranges C6-C12            | 599                | 10.0 | mg/kg dry | 535                           | ND | 112 | 75-125 | 1.51 | 20 |  |
| Carbon Ranges C12-C28           | 625                | 10.0 | "         | 535                           | ND | 117 | 75-125 | 1.94 | 20 |  |
| Total Hydrocarbon nC6-nC35      | 1220               | 10.0 | "         | 1070                          | ND | 114 | 75-125 | 1.65 | 20 |  |
| Surrogate: 1-Chlorooctane       | 57.7               |      | mg/kg     | 50.0                          |    | 115 | 70-130 |      |    |  |
| Surrogate: 1-Chlorooctadecane   | 51.5               |      | "         | 50.0                          |    | 103 | 70-130 |      |    |  |

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EE61910 - General Preparation (Prep)**

**Blank (EE61910-BLK1)**

Prepared: 05/18/06 Analyzed: 05/19/06

|          |     |  |   |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|
| % Solids | 100 |  | % |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|

**Duplicate (EE61910-DUP1)**

Source: 6E12001-21

Prepared: 05/18/06 Analyzed: 05/19/06

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 92.1 |  | % |  | 92.0 |  |  | 0.109 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Duplicate (EE61910-DUP2)**

Source: 6E18006-02

Prepared: 05/18/06 Analyzed: 05/19/06

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 90.0 |  | % |  | 90.3 |  |  | 0.333 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Duplicate (EE61910-DUP4)**

Source: 6E18008-29

Prepared: 05/18/06 Analyzed: 05/19/06

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 95.5 |  | % |  | 95.2 |  |  | 0.315 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Duplicate (EE61910-DUP5)**

Source: 6E18009-14

Prepared: 05/18/06 Analyzed: 05/19/06

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 89.7 |  | % |  | 89.9 |  |  | 0.223 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Duplicate (EE61910-DUP6)**

Source: 6E18010-11

Prepared: 05/18/06 Analyzed: 05/19/06

|          |      |  |   |  |      |  |  |      |    |  |
|----------|------|--|---|--|------|--|--|------|----|--|
| % Solids | 93.8 |  | % |  | 93.8 |  |  | 0.00 | 20 |  |
|----------|------|--|---|--|------|--|--|------|----|--|

**Batch EE62001 - Water Extraction**

**Blank (EE62001-BLK1)**

Prepared & Analyzed: 05/19/06

|          |    |       |       |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 0.500 | mg/kg |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|

**LCS (EE62001-BS1)**

Prepared & Analyzed: 05/19/06

|          |      |       |       |      |  |     |        |  |  |  |
|----------|------|-------|-------|------|--|-----|--------|--|--|--|
| Chloride | 10.0 | 0.500 | mg/kg | 10.0 |  | 100 | 80-120 |  |  |  |
|----------|------|-------|-------|------|--|-----|--------|--|--|--|

**Calibration Check (EE62001-CCV1)**

Prepared & Analyzed: 05/19/06

|          |      |  |       |      |  |     |        |  |  |  |
|----------|------|--|-------|------|--|-----|--------|--|--|--|
| Chloride | 10.7 |  | mg/kg | 10.0 |  | 107 | 80-120 |  |  |  |
|----------|------|--|-------|------|--|-----|--------|--|--|--|

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte                                 | Result | Reporting<br>Limit                       | Units | Spike<br>Level                           | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|-----------------------------------------|--------|------------------------------------------|-------|------------------------------------------|------------------|------|----------------|-------|--------------|-------|
| <b>Batch EE62001 - Water Extraction</b> |        |                                          |       |                                          |                  |      |                |       |              |       |
| <b>Duplicate (EE62001-DUP1)</b>         |        | <b>Source: 6E17011-01</b>                |       | <b>Prepared &amp; Analyzed: 05/19/06</b> |                  |      |                |       |              |       |
| Chloride                                | 931    | 20.0                                     | mg/kg |                                          | 912              |      |                | 2.06  | 20           |       |
| <b>Duplicate (EE62001-DUP2)</b>         |        | <b>Source: 6E18002-03</b>                |       | <b>Prepared &amp; Analyzed: 05/19/06</b> |                  |      |                |       |              |       |
| Chloride                                | 1440   | 25.0                                     | mg/kg |                                          | 1460             |      |                | 1.38  | 20           |       |
| <b>Matrix Spike (EE62001-MS1)</b>       |        | <b>Source: 6E17011-01</b>                |       | <b>Prepared &amp; Analyzed: 05/19/06</b> |                  |      |                |       |              |       |
| Chloride                                | 1430   | 20.0                                     | mg/kg | 400                                      | 912              | 130  | 80-120         |       |              | S-07  |
| <b>Matrix Spike (EE62001-MS2)</b>       |        | <b>Source: 6E18002-03</b>                |       | <b>Prepared &amp; Analyzed: 05/19/06</b> |                  |      |                |       |              |       |
| Chloride                                | 2080   | 25.0                                     | mg/kg | 500                                      | 1460             | 124  | 80-120         |       |              | S-07  |
| <b>Batch EE62002 - Water Extraction</b> |        |                                          |       |                                          |                  |      |                |       |              |       |
| <b>Blank (EE62002-BLK1)</b>             |        | <b>Prepared &amp; Analyzed: 05/21/06</b> |       |                                          |                  |      |                |       |              |       |
| Chloride                                | ND     | 0.500                                    | mg/kg |                                          |                  |      |                |       |              |       |
| <b>LCS (EE62002-BS1)</b>                |        | <b>Prepared &amp; Analyzed: 05/21/06</b> |       |                                          |                  |      |                |       |              |       |
| Chloride                                | 10.3   | 0.500                                    | mg/kg | 10.0                                     |                  | 103  | 80-120         |       |              |       |
| <b>Calibration Check (EE62002-CCV1)</b> |        | <b>Prepared &amp; Analyzed: 05/21/06</b> |       |                                          |                  |      |                |       |              |       |
| Chloride                                | 10.5   |                                          | mg/L  | 10.0                                     |                  | 105  | 80-120         |       |              |       |
| <b>Duplicate (EE62002-DUP1)</b>         |        | <b>Source: 6E18002-15</b>                |       | <b>Prepared &amp; Analyzed: 05/21/06</b> |                  |      |                |       |              |       |
| Chloride                                | 4890   | 100                                      | mg/kg |                                          | 4830             |      |                | 1.23  | 20           |       |
| <b>Duplicate (EE62002-DUP2)</b>         |        | <b>Source: 6E18005-01</b>                |       | <b>Prepared &amp; Analyzed: 05/21/06</b> |                  |      |                |       |              |       |
| Chloride                                | 374    | 10.0                                     | mg/kg |                                          | 373              |      |                | 0.268 | 20           |       |

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch EE62002 - Water Extraction**

**Matrix Spike (EE62002-MS1)**

Source: 6E18002-15

Prepared & Analyzed: 05/21/06

|          |      |     |       |      |      |     |        |
|----------|------|-----|-------|------|------|-----|--------|
| Chloride | 7160 | 100 | mg/kg | 2000 | 4830 | 116 | 80-120 |
|----------|------|-----|-------|------|------|-----|--------|

**Matrix Spike (EE62002-MS2)**

Source: 6E18005-01

Prepared & Analyzed: 05/21/06

|          |     |      |       |     |     |     |        |
|----------|-----|------|-------|-----|-----|-----|--------|
| Chloride | 601 | 10.0 | mg/kg | 200 | 373 | 114 | 80-120 |
|----------|-----|------|-------|-----|-----|-----|--------|

Environmental Lab of Texas

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

Project: COG/ Jalmat #31  
Project Number: 2345  
Project Manager: Ike Tavaraz

Fax: (432) 682-3946

Reported:  
05/22/06 15:05

### Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.  
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:

5/22/2006

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

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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: <b>COG</b> |         | SITE MANAGER: <b>KE Lawler</b> |        | PROJECT NAME: <b>COG / Jalmat #31, loc w. n.m.</b> |      |
| LAB I.D. NUMBER         | DATE    | TIME                           | MATRIX | COMP.                                              | GRAB |
| 01                      | 5-16-06 |                                | S      |                                                    |      |
| 02                      |         |                                | S      |                                                    |      |
| 03                      |         |                                | S      |                                                    |      |
| 04                      |         |                                | S      |                                                    |      |
| 05                      |         |                                | S      |                                                    |      |
| 06                      |         |                                | S      |                                                    |      |
| 07                      |         |                                | S      |                                                    |      |
| 08                      |         |                                | S      |                                                    |      |
| 09                      |         |                                | S      |                                                    |      |
| 10                      |         |                                | S      |                                                    |      |

|                                  |                  |                          |            |
|----------------------------------|------------------|--------------------------|------------|
| RELINQUISHED BY: (Signature)     | Date: 5-17-06    | RECEIVED BY: (Signature) | Date: 5-25 |
| RELINQUISHED BY: (Signature)     | Date: 5-25       | RECEIVED BY: (Signature) | Date: 5-25 |
| RELINQUISHED BY: (Signature)     | Date: 5-25       | RECEIVED BY: (Signature) | Date: 5-25 |
| RECEIVING LABORATORY: <b>COG</b> | STATE: <b>TX</b> | ZIP: <b>79705</b>        |            |
| ADDRESS:                         |                  |                          |            |
| CITY:                            |                  |                          |            |
| CONTACT:                         |                  |                          |            |

|            |  |            |  |
|------------|--|------------|--|
| DATE: 5-25 |  | DATE: 5-25 |  |
| TIME: 5:25 |  | TIME: 5:25 |  |
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| TIME: 5:25 |  | TIME: 5:25 |  |
| DATE: 5-25 |  | DATE: 5-25 |  |
| TIME: 5:25 |  | TIME: 5:25 |  |

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 Environmental

Date/Time: 05-17-06 @ 1725

Order #: 6E18002

Initials: JMM

### Sample Receipt Checklist

|                                                           |                                         |                             |                        |   |
|-----------------------------------------------------------|-----------------------------------------|-----------------------------|------------------------|---|
| Temperature of container/cooler?                          | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 4.5                    | C |
| Shipping container/cooler in good condition?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Custody Seals intact on shipping container/cooler?        | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <del>Not present</del> |   |
| Custody Seals intact on sample bottles?                   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <del>Not present</del> |   |
| Chain of custody present?                                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Sample Instructions complete on Chain of Custody?         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Chain of Custody signed when relinquished and received?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Chain of custody agrees with sample label(s)              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Container labels legible and intact?                      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Samples in proper container/bottle?                       | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Samples properly preserved?                               | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Sample bottles intact?                                    | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Reservations documented on Chain of Custody?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Containers documented on Chain of Custody?                | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| Sufficient sample amount for indicated test?              | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| All samples received within sufficient hold time?         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                        |   |
| QC samples have zero headspace?                           | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Not Applicable         |   |

Other observations:

### Variance Documentation:

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

Corrective Action Taken: