

SITE INFORMATION

Report Type: Closure Report

General Site Information:

| | | | | | |
|------------------------------------|---|-------|------|----------------|--|
| Site: | State 2 Well #2 | | | | |
| Company: | OXY USA, Inc. | | | | |
| Section, Township and Range | Unit P | Sec 2 | T22S | R31E | |
| Lease Number: | | | | | |
| County: | Eddy County | | | | |
| GPS: | 32. 24 59.4° N | | | 103 44 30.6° W | |
| Surface Owner: | State | | | | |
| Mineral Owner: | | | | | |
| Directions: | From intersection of HWY 62 and E38/Louis Wittlock Rd, go south of Louis Wittlock Rd for approximately 7.7 miles. Turn east onto lease road and continue for 1.5 miles, turn south onto lease road and continue for .8 miles, location is on west side of road in pasture area. | | | | |
| | | | | | |
| | | | | | |

Release Data:

| | |
|---------------------------------|------------------------|
| Date Released: | 11/11/2005 |
| Type Release: | Produced water and oil |
| Source of Contamination: | Flowline failure |
| Fluid Released: | 30 bbls |
| Fluids Recovered: | 0 bbls |

Official Communication:

| | | |
|----------------------|----------------------|----------------------------|
| Name: | Dusty Wilson | Ike Tavarez |
| Company: | Oxy USA, Inc. | Tetra Tech |
| Address: | 6 Desta Drive | 4000 N. Big Spring, St. |
| | Suite 600 | Ste 401 |
| City: | Midland, TX 79705 | Midland, Texas |
| Phone number: | (432)685-5771 | (432)687-8110 |
| Fax: | | |
| Email: | dusty_wilson@oxy.com | Ike.Tavarez@tetrattech.com |

Ranking Criteria

| Depth to Groundwater: | Ranking Score | Site Data |
|---|----------------------|------------------|
| <50 ft | 20 | |
| 50-99 ft | 10 | |
| >100 ft. | 0 | |
| WellHead Protection: | Ranking Score | Site Data |
| Water Source <1,000 ft., Private <200 ft. | 20 | |
| Water Source >1,000 ft., Private >200 ft. | 0 | 0 |
| Surface Body of Water: | Ranking Score | Site Data |
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | 0 |
| Total Ranking Score: | | 0 |

| Acceptable Soil RRAL (mg/kg) | | |
|------------------------------|------------|-------|
| Benzene | Total BTEX | TPH |
| 10 | 50 | 5,000 |

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 06 2014

RECEIVED



TETRA TECH

December 3, 2013

Mr. Mike Bratcher
Environmental Bureau
Oil Conservation Division- District 2
1301 W. Grand Avenue
Artesia, New Mexico 88210

RE: Closure Report for the Flow Line Spill at the OXY USA INC., State 2, Well #2, Located in Unit Letter P, Section 2, Township 22 South, Range 31 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. was contacted by Pogo Producing Company (Now operated by OXY USA, Inc.) to assess and remediate a spill on the State 2 Well # 2 (flow-line), located in Unit Letter P, Section 2, Township 22 South, Range 31 East, Eddy County, New Mexico (Site). The spill occurred under Pogo Producing Company, which Oxy acquired the lease. The spill location coordinates are N 32° 24' 59.4", W 103° 44' 30.6". The Site is shown on Figure 1.

Background

According to the State of New Mexico C-141 report, Pogo Producing had a spill that occurred on November 11, 2005, from a hole in a poly-line (flow-line). A total of 10 barrels of oil and 20 barrels of produced water were released and no fluids were recovered. The oil and water were released in a sandy pasture. The initial C-141 is shown in Appendix A.

Groundwater and Regulatory

The New Mexico State Engineer's Office database did not show any wells in Section 2, however, wells in the vicinity to the north and south of the section had reported depths to water ranging from 400' to 600' below ground surface. The USGS reports did not show any wells in the vicinity of this site. Referring to the ChevronTexaco Depth to Water Map for Eddy County, there is a well shown

Tetra Tech

4000 North Big Spring, Ste 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



in Section 15 with a reported depth to water of 124'. Reviewing the topographic extract there is a windmill shown in this area. This windmill is located approximately halfway between the Site and the Waste Isolation Pilot Plant (WIPP) site to the southwest. The elevation of the surface at this windmill is approximately 90'-100' lower than the elevation of the site State 2 #2 site. Projecting the elevation to this site would indicate the depth to water to exceed 200' at the State 2 #2 site. The topographic extract is shown as Figure 1. A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Initial Assessment and Results

On December 29, 2005, Tetra Tech, Inc. personnel inspected and sampled the spill area. The spill area was located approximately 1,800 feet northeast from the well in a sandy pasture. During the inspection, an area approximately 120' x 160' had been excavated and worked. This area may have been from some of the overspray from the spill. At the release (flow-line), there was no apparent staining on the east side of the flow-line. A total of four (4) auger holes (AH-1 through AH-4) were installed using a stainless steel hand auger to assess the impacted soils. Soil samples were collected at 1.0 foot intervals and submitted for analysis of TPH by EPA method 8015 modified, BTEX by EPA method 8021B and chloride by EPA method 300.0.

Referring to Table 1, laboratory results indicated AH-1 and AH-3 exceeded the RRAL for TPH and BTEX at depths of 2.5' and 3.5', respectively. The remaining auger holes, AH-2 and AH-4, did not exhibit TPH and BTEX concentrations above RRAL. Chloride concentrations were elevated in AH-1 throughout the depth of the auger hole. AH-3 showed an increasing chloride concentration at 4-4.5' (7,080 mg/kg) and 5-5.5' (22,200 mg/kg). Deeper samples were not collected due to auger refusal. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The auger hole locations are shown on Figure 2. The laboratory results of the sampling are summarized in Table 1.



In order to complete delineation of the site, Highlander personnel were onsite May 25, 2006, to place backhoe trenches in the vicinity of the auger holes. Highlander supervised the placement of seven (7) trench locations (T-1 to T-7). Soil samples were collected at 2.0 foot intervals and submitted for analysis of chlorides. The analysis indicates that the chloride impacts have been delineated vertically and do not exceed a depth of 14 feet bgs. Horizontally, the site has been delineated east, west, and south but has not been completely delineated to the north. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The trench locations are shown on Figure 3 while concentrations in depths are shown on Figures 4 and 5. The laboratory results of the sampling are summarized in Table 2.

A work plan for this site was submitted to the NMOCD dated October 18, 2006, but was not reviewed. In a meeting in Artesia in December, 2008, it was decided that since the original work plan had not been reviewed, the site needed to be re-sampled in order to confirm the chloride concentrations had not changed.

Re-Evaluation and Results

Based upon the previously impacted areas, T-1, T-2 and T-6, on December 14, 2009, Tetra Tech personnel re-evaluated and sampled the spill area. A total of three (3) trenches were excavated (T-1, T-2 and T-6) to assess total chloride concentration. Soil samples were collected at two (2) foot intervals and submitted for analysis. The analysis indicates that the chloride concentrations were very similar in depth and concentration to the original testing performed at this site. The trench locations are shown on Figure 6 while concentrations and depths are shown on Table 3.

Remediation

In April of 2013, Tetra Tech personnel supervised the excavation of the impacted soils as discussed in the submitted work plan. The areas of T-1, T-2, T-4, and T-6 were excavated to a depth of 4.0' as highlighted (green) on Table 2 and Table 3 and shown on Figure 6. The area was capped with a 40 mil liner to prevent any further migration of contaminates. The impacted soil was transported to proper disposal and the excavation area was backfilled with clean soil to grade. The remediation was completed on April 26, 2013.



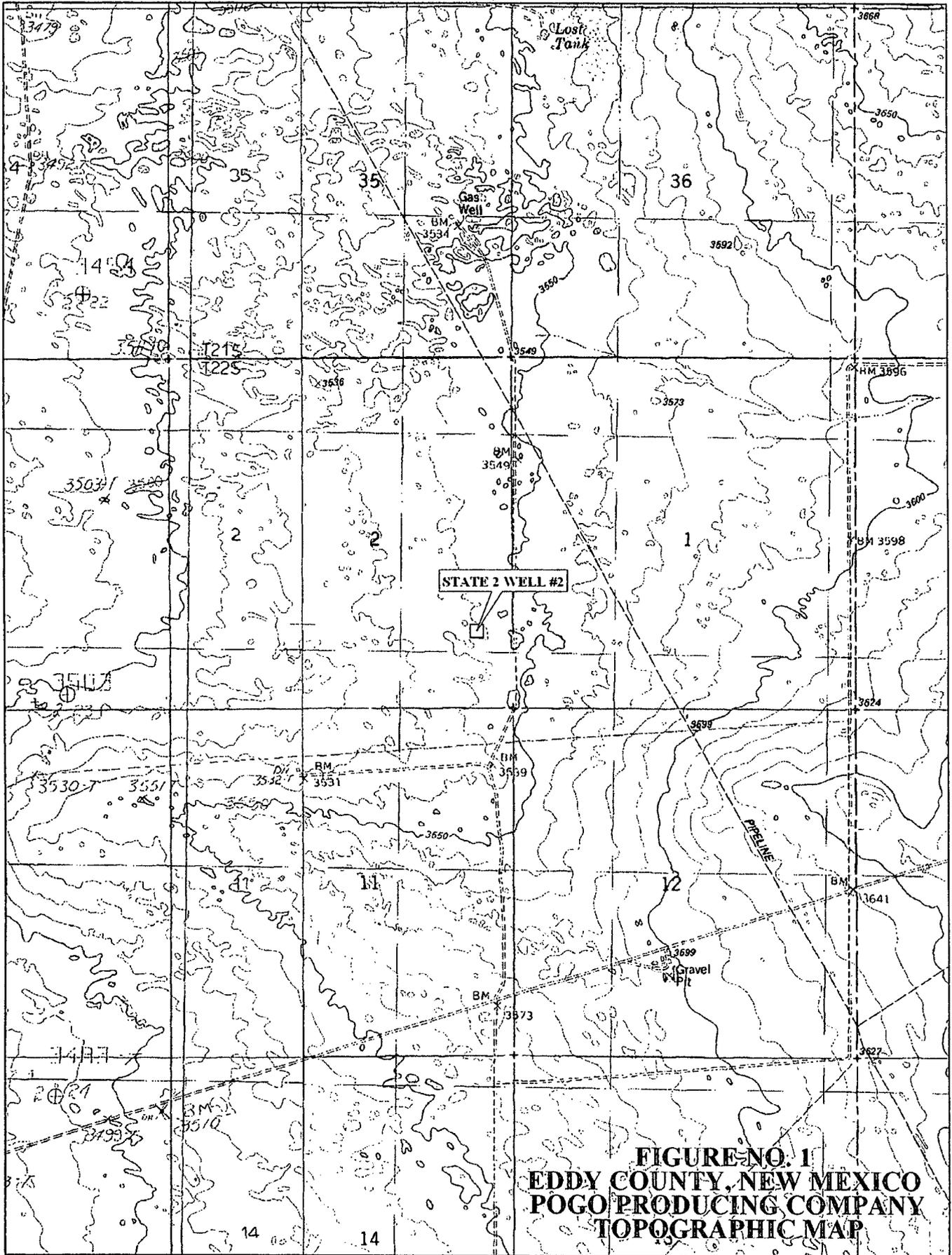
TETRA TECH

Due to the remedial actions taken, OXY USA, Inc. requests closure of this site. The final C-141 is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavares,
Project Manager, P.G.

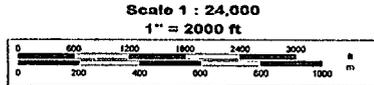
Figures



**FIGURE NO. 1
 EDDY COUNTY, NEW MEXICO
 POGO PRODUCING COMPANY
 TOPOGRAPHIC MAP**

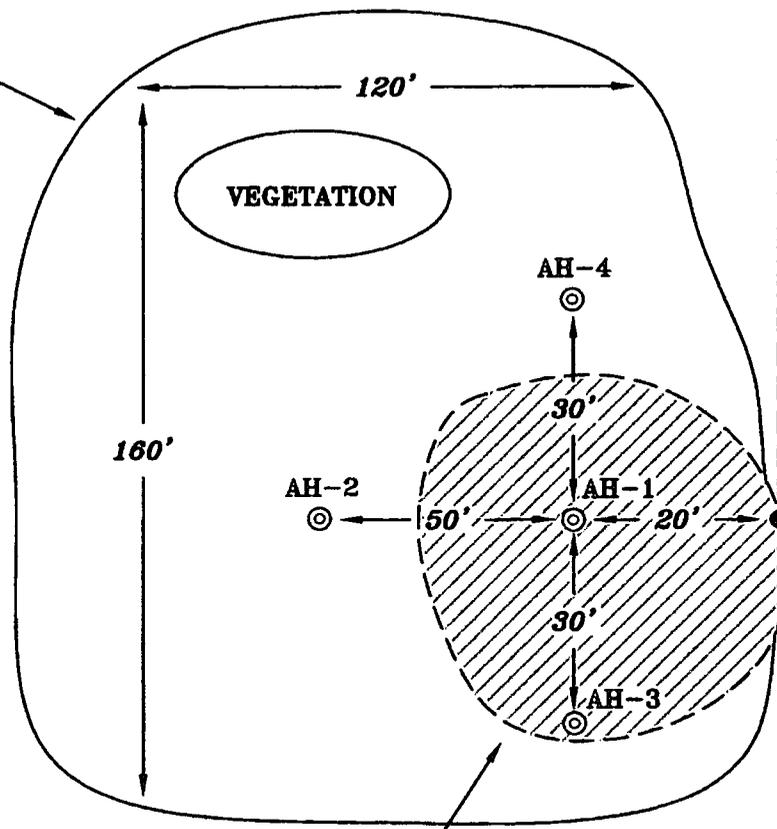


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 www.delorme.com





EDGE OF EXCAVATION
& WORKED AREA



APPROX. EDGE OF SPILL 60' X 60'

LEAK

FLOWLINES

⊙ AUGERHOLE LOCATIONS

▨ SPILL AREA

NOT TO SCALE

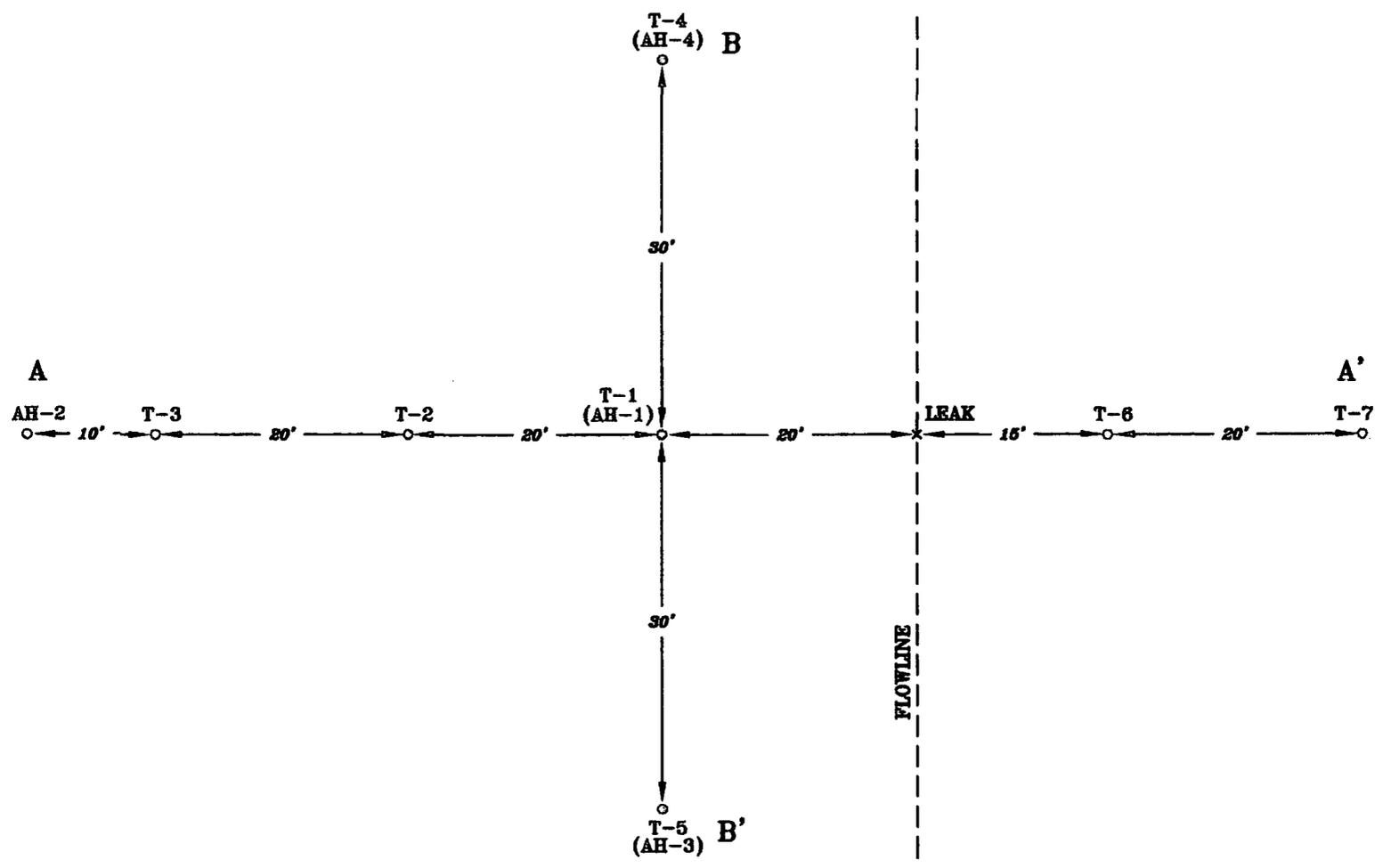
FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

OXY USA INC.
STATE 2 WELL #2

TETRA TECH INC.
MIDLAND, TEXAS

DATE:
2/27/06
DRAWN BY:
JL
FILE:
OXYUSA/EDDY
STATE 2 #2

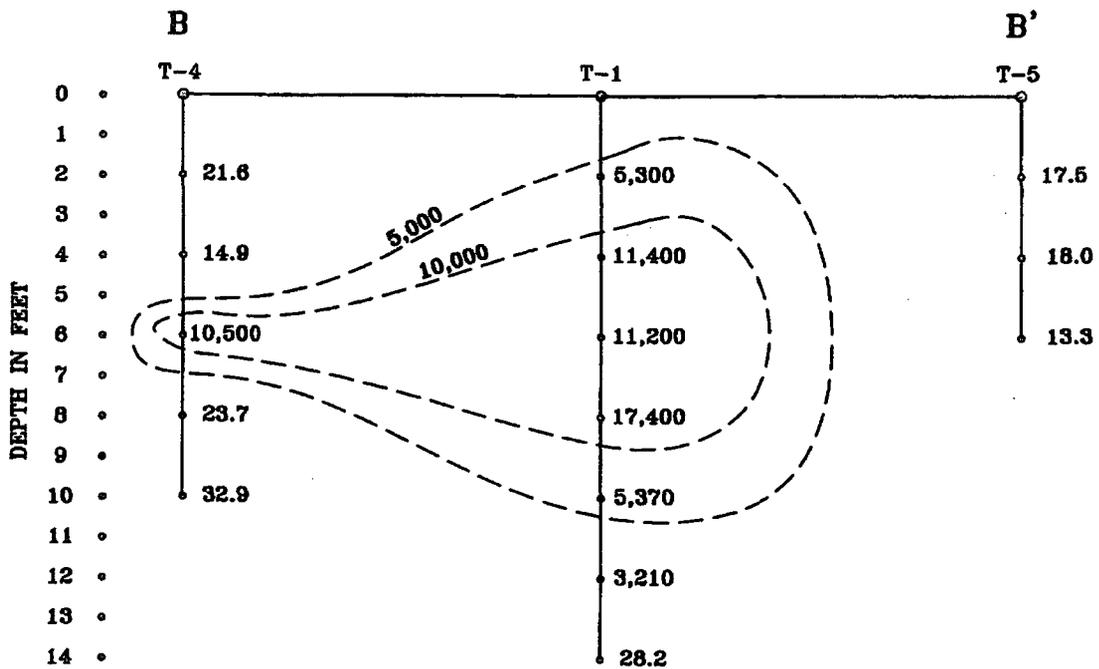
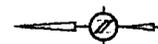


○ TEST TRENCH LOCATIONS

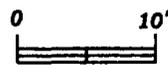


DATE:
5/31/06
DRAWN BY:
JJ
FILE:
OXY/POSD/EDDPA
STATE 2 #2

| |
|---|
| FIGURE NO. 3 |
| EDDY COUNTY, NEW MEXICO |
| OXY USA INC. STATE 2 WELL #2 |
| TETRA TECH INC. MIDLAND, TEXAS |

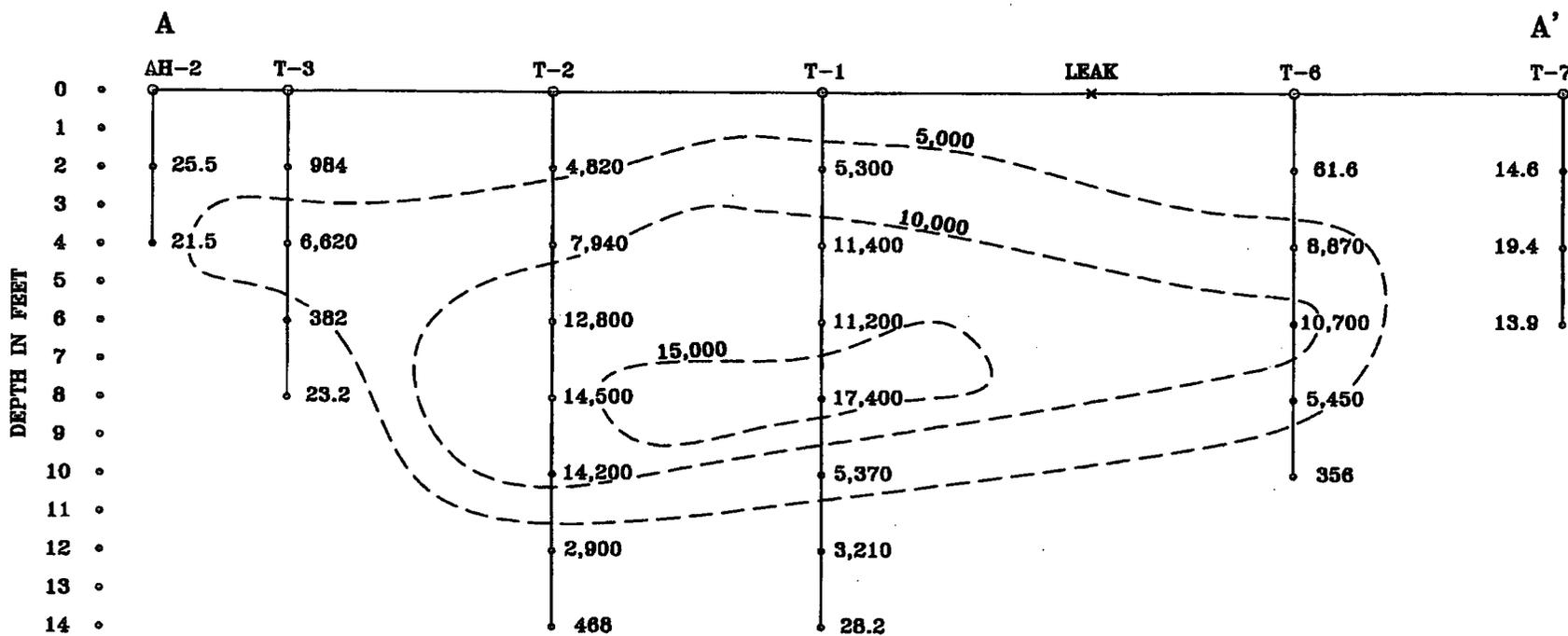


○ TEST TRENCH LOCATIONS



DATE:
5/31/06
DWN. BY:
JJ
FILE:
OXYPOOR/STATE 2 WELLS

| |
|-----------------------------------|
| FIGURE NO. 4 |
| EDDY COUNTY, NEW MEXICO |
| OXY USA INC. STATE 2 WELL #2 |
| TETRA TECH INC. MIDLAND, TEXAS |

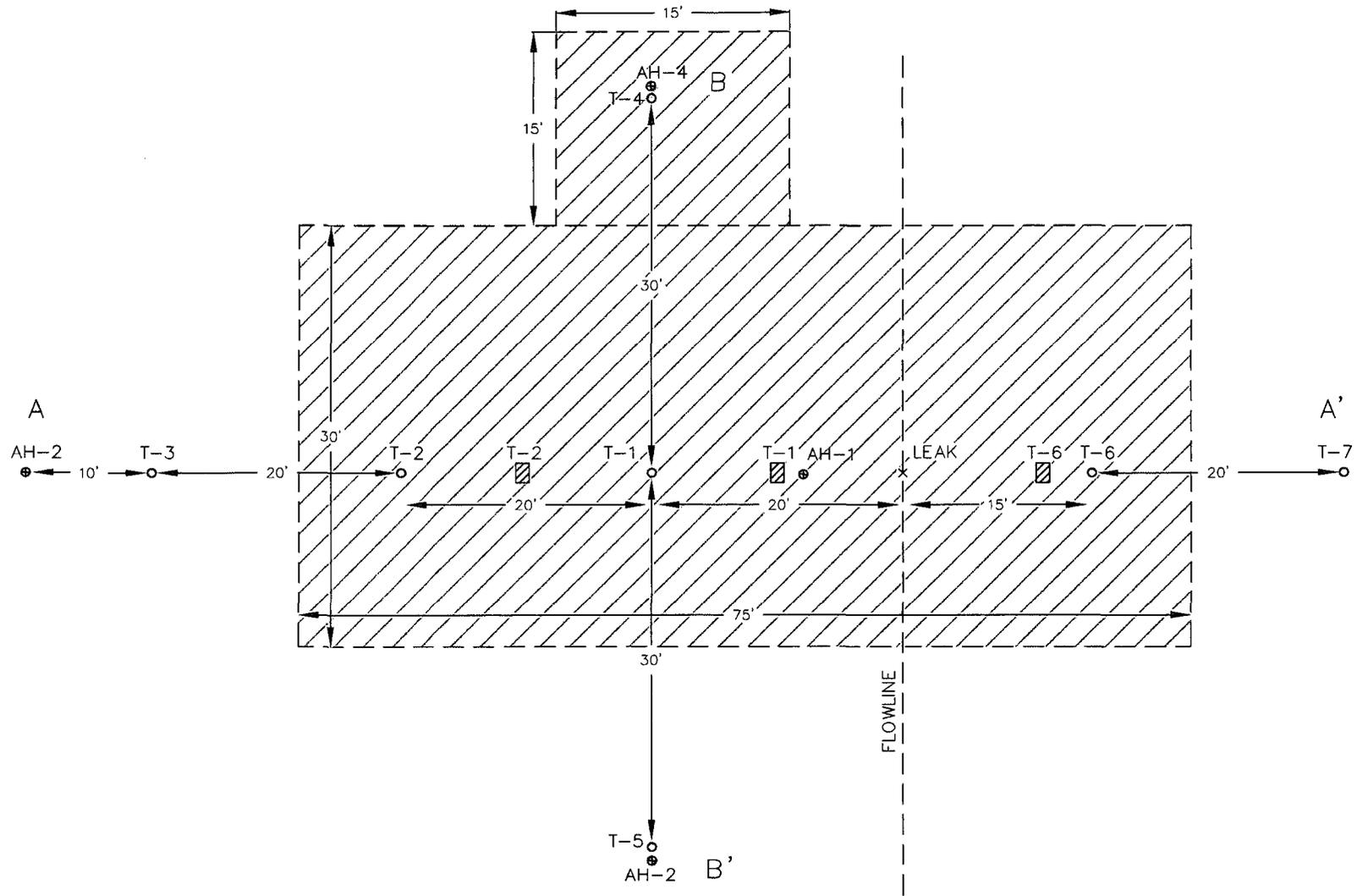


○ TEST TRENCH LOCATIONS



DATE:
5/31/08
DWL BY:
JJ
FILE:
OXYUSA222A
PAGE 2 OF 2

| |
|---|
| FIGURE NO. 5 |
| EDDY COUNTY, NEW MEXICO |
| OXY USA INC. STATE 2 WELL #2 |
| TETRA TECH INC. MIDLAND, TEXAS |



-  PROPOSED EXCAVATION AREA (4' DEEP)
-  EXTENT OF LINER
-  TEST TRENCH (12-14-09 REEVALUATION)
-  TEST TRENCH LOCATIONS
-  AUGER HOLE SAMPLE LOCATIONS



DATE:
12/11/2013
DWN. BY:
IM
FILE:
C:\P000\202B\
STATE 2 #2

| |
|-----------------------------------|
| FIGURE NO. 6 |
| EDDY COUNTY, NEW MEXICO |
| OXY USA INC. STATE 2 WELL #2 |
| TETRA TECH INC. MIDLAND, TEXAS |

Tables

Table 1
OXY USA INC.
State 2 Well #2 (flow-line Spill)
Eddy County, New Mexico

| Sample ID | Date Sampled | Sample Depth (ft) | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Chloride (mg/kg) |
|-----------|--------------|-------------------|-------------|---------|----------|-----------------|-----------------|----------------------|----------------|------------------|
| | | | C6-C12 | C12-C35 | Total | | | | | |
| AH-1 | 12/29/05 | 0-1 | 7,570 | 32,200 | 39,800 | 5.18 | 22.1 | 19.1 | 62.8 | 4,950 |
| | " | 1-1.5 | 5,760 | 22,500 | 28,300.0 | 10.8 | 29.2 | 17.8 | 55.9 | 4,690 |
| | " | 2-2.5 | 31.7 | 279 | 311 | <0.025 | <0.025 | <0.025 | <0.025 | 4,750 |
| | " | 3-3.5 | | | | | | | | 6,260 |
| | " | 4-4.5 | | | | | | | | 15,000 |
| | " | 5-5.5 | - | - | - | - | - | - | - | 15,400 |
| | " | 6-6.5 | - | - | - | - | - | - | - | 18,000 |
| | " | 7-7.5 | - | - | - | - | - | - | - | 17,400 |
| AH-2 | 12/29/05 | 0-1 | <10.0 | 25.4 | 25.4 | <0.025 | <0.025 | <0.025 | <0.025 | 33.9 |
| | " | 1-1.5 | <10.0 | <10.0 | <10.0 | - | - | - | - | 26.6 |
| | " | 2-2.5 | - | - | - | - | - | - | - | 25.5 |
| | " | 3-3.5 | - | - | - | - | - | - | - | 20.8 |
| | " | 4-4.5 | - | - | - | - | - | - | - | 21.4 |
| AH-3 | 12/29/05 | 0-1 | 245 | 1,690 | 1,940 | <0.025 | 0.0352 | 0.0995 | 0.462 | 415 |
| | " | 1-1.5 | 6,880 | 19,100 | 26,000 | 6.26 | 38.2 | 35.0 | 111.6 | 331 |
| | " | 2-2.5 | 4,700 | 14,000 | 18,700 | - | - | - | - | 30 |
| | " | 3-3.5 | 176 | 728 | 904 | <0.025 | <0.025 | 0.0956 | 0.573 | 111 |
| | " | 4-4.5 | - | - | - | - | - | - | - | 7,080 |
| | " | 5-5.5 | - | - | - | - | - | - | - | 22,200 |
| AH-4 | 12/29/05 | 0-1 | <10.0 | <10.0 | <10.0 | <0.025 | <0.025 | <0.025 | <0.025 | 39.7 |
| | " | 1-1.5 | <10.0 | <10.0 | <10.0 | | | | | 26.4 |
| | " | 2-2.5 | | | | | | | | 20.7 |
| | " | 3-3.5 | | | | | | | | 22.4 |
| | " | 4-4.5 | | | | | | | | 34.0 |

(-) Not Analyzed

Excavation Depth

Liner

Table 2
OXY USA INC.
State 2 Well #2 (flow-line Spill)
Eddy County, New Mexico

| Sample ID | Date Sampled | Sample Depth (ft) | Chloride (mg/kg) |
|-----------|--------------|-------------------|------------------|
| T-1 | 05/25/06 | 2.0 | 5,300 |
| | | 4.0 | 11,400 |
| | " | 6.0 | 11,200 |
| | " | 8.0 | 17,400 |
| | " | 10.0 | 5,370 |
| | " | 12.0 | 3,210 |
| | " | 14.0 | 28.2 |
| T-2 | 05/25/06 | 2.0 | 4,820 |
| | | 4.0 | 7,940 |
| | " | 6.0 | 12,800 |
| | " | 8.0 | 14,500 |
| | " | 10.0 | 14,200 |
| | " | 12.0 | 2,900 |
| | " | 14.0 | 268 |
| T-3 | 05/25/06 | 2.0 | 984 |
| | " | 4.0 | 6,620 |
| | " | 6.0 | 382 |
| | " | 8.0 | 23.2 |
| T-4 | 05/25/06 | 2.0 | 21.6 |
| | | 4.0 | 14.9 |
| | " | 6.0 | 10,500 |
| | " | 8.0 | 23.7 |
| | " | 10.0 | 32.9 |
| T-5 | 05/25/06 | 2.0 | 17.5 |
| | " | 4.0 | 18.0 |
| | " | 6.0 | 13.3 |
| T-6 | 05/25/06 | 2.0 | 61.6 |
| | | 4.0 | 8,870 |
| | " | 6.0 | 10,700 |
| | " | 8.0 | 5,450 |
| | " | 10.0 | 356 |
| T-7 | 05/25/06 | 2.0 | 14.6 |
| | " | 4.0 | 19.4 |
| | " | 6.0 | 14 |

 Excavated Depths
 Liner

Table 3
OXY USA INC.
PXP State 2 Well #2 Flow Line Release
Eddy County, New Mexico

| Sample ID | Date Sampled | Sample Depth (ft) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Chloride (mg/kg) |
|-----------|--------------|-------------------|-------------|---------|-------------|-----|-------|-----------------|-----------------|----------------------|----------------|------------------|
| | | | In-Situ | Removed | DRO | GRO | Total | | | | | |
| T-1 | 12/14/09 | 2' | X | | | | | | | | | 91 |
| | 12/14/09 | 4' | X | | | | | | | | | 320 |
| | 12/14/09 | 6' | X | | - | - | - | - | - | - | - | 2,050 |
| | 12/14/09 | 8' | X | | - | - | - | - | - | - | - | 12,200 |
| | 12/14/09 | 10' | X | | - | - | - | - | - | - | - | 6,810 |
| T-2 | 12/14/09 | 2' | X | | | | | | | | | 2,890 |
| | 12/14/09 | 4' | X | | | | | | | | | 7,770 |
| | 12/14/09 | 6' | X | | - | - | - | - | - | - | - | 13,600 |
| | 12/14/09 | 8' | X | | - | - | - | - | - | - | - | 20,800 |
| | 12/14/09 | 10' | X | | - | - | - | - | - | - | - | 10,500 |
| T-6 | 12/14/09 | 2' | X | | | | | | | | | 28 |
| | 12/14/09 | 4' | X | | | | | | | | | 107 |
| | 12/14/09 | 6' | X | | - | - | - | - | - | - | - | 4,040 |
| | 12/14/09 | 8' | X | | - | - | - | - | - | - | - | 12,900 |
| | 12/14/09 | 10' | X | | - | - | - | - | - | - | - | 1,460 |

(-) Not Analyzed

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT Form C-141
Revised October 10, 2003

OCT 06 2014

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|---|-------------------------------------|
| Name of Company Oxy USA, Inc | Contact Dusty Wilson |
| Address 6 Desta Drive Suite 600, Midland, TX 79705 | Telephone No. (432) 685-5771 |
| Facility Name State 2 Well #2 | Facility Type Flowline |

| | | |
|----------------------|---------------|----------------------|
| Surface Owner: State | Mineral Owner | Lease No. NM4 |
|----------------------|---------------|----------------------|

30-015-28416

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|---------------------|------------------------|---------------------|-----------------------------|---------------------------------------|---------------|----------------|-----------------------|
| Unit Letter P | Section 2 | Township 22S | Range 31E | Feet from the 660 | North/South Line South Line | Feet from the | East/West Line | County Eddy |
|-------------------------|---------------------|------------------------|---------------------|-----------------------------|---------------------------------------|---------------|----------------|-----------------------|

Latitude N ° Longitude W °

NATURE OF RELEASE

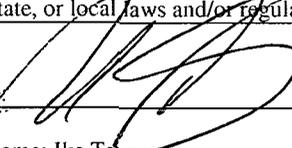
| | | |
|--|--|--|
| Type of Release: Produced Water & Oil | Volume of Release 10 bbls oil 20 bbls water | Volume Recovered 0 bbls |
| Source of Release Flowline | Date and Hour of Occurrence 11/14/05 11:00a.m. | Date and Hour of Discovery 11-14-05 12:30 pm |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher | |
| By Whom? | Date and Hour 11-14-05 1:30 p.m. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Flowline blew a hole in the middle of the pasture

Describe Area Affected and Cleanup Action Taken.*
Tetra Tech inspected site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled away for proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

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

| | | |
|--|----------------------------------|-----------------------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Ike Tavaréz | Approved by District Supervisor: | |
| Title: Project Manager | Approval Date: | Expiration Date: |
| E-mail Address: Ike.Tavaréz@tetrattech.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 12/16/2013 | Phone: (432) 687-8110 | |

* Attach Additional Sheets If Necessary

District I - (505) 393-6161
 P. O. Box 1980
 Hobbs, NM 88241-1980
 District II - (505) 748-1289
 811 South First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Road
 Aztec, NM 87410
 District IV - (505) 827-7131

State of New Mexico
 Energy Minerals and Natural Resources Department
 Oil Conservation Division
 2040 South Pacheco Street
 Santa Fe, New Mexico 87505
 (505) 827-7131

Form C-141
 Originated 2/13/97

Submit 2 copies to
 Appropriate District
 Office in accordance
 with Rule 116 on
 back side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|---|-------------------------------|
| Name Pogo Producing Co. | Company PAT ELLIS |
| Address P. O. Box 10340 Midland TX 79701 | Telephone No. 432-685-8100 |
| Facility Name STATE 2 Well #2 | Facility Type Flowline |
| Surface Owner P. | Mineral Owner NEW MEXICO |
| | Lease No. NM 4 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| F | 2 | 22S | 31E | 660 | SL | 2720 | FEL | Eddy |

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release oil & H ₂ O | Volume of Release 10 oil & 20 BWL | Volume Recovered 0 |
| Source of Release Poly Pipe Flowline developed hole | Date and Hour of Occurrence 11AM 11-14-05 12:30p | Date and Hour of Discovery 11-14-05 |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher | |
| By Whom? DAN TALLEY | Date and Hour 12:30p 11-14-05 | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken (Attach Additional Sheets If Necessary)

Flowline blew a hole in the middle of sandy
 PASTURE

Describe Area Affected and Cleanup Action Taken (Attach Additional Sheets If Necessary)

CONTAMINATED SOIL will be removed AND SENT TO
 SUNDANCE LAND FARM

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

| | | | |
|----------------------------|------------------------------------|----------------|-----------------------------------|
| Signature D. Talley | OIL CONSERVATION DIVISION | | |
| Printed Name DAN TALLEY | Approved by District Supervisor | Approval Date: | Expiration Date: |
| Title CONSULTANT | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date 11-15-05 | Phone 505 748 5460 | | |

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
OXY USA, Inc. - State 2 #2
Eddy County, New Mexico

21 South 30 East

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

21 South 31 East

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

21 South 32 East

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

22 South 30 East

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

22 South 31 East

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

22 South 32 East

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

23 South 30 East

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

23 South 31 East

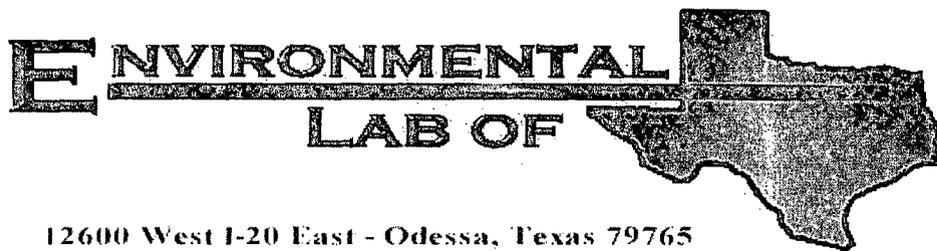
| | | | | | |
|----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

23 South 32 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 |

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data
-  Field water level
-  New Mexico Water and Infrastructure Data System

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: Pogo/ State 2 Well #2 (Flowline)

Project Number: 2526

Location: Eddy Co., NM

Lab Order Number: 5L30010

Report Date: 01/10/06

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/10/06 12:13

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|----------------|
| AH-1 0-1' | 5L30010-01 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 1-1.5' | 5L30010-02 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 2-2.5' | 5L30010-03 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 3-3.5' | 5L30010-04 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 4-4.5' | 5L30010-05 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 5-5.5' | 5L30010-06 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 6-6.5' | 5L30010-07 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-1 7-7.5' | 5L30010-08 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-2 0-1' | 5L30010-09 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-2 1-1.5' | 5L30010-10 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-2 2-2.5' | 5L30010-11 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-2 3-3.5' | 5L30010-12 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-2 4-4.5' | 5L30010-13 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 0-1' | 5L30010-14 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 1-1.5' | 5L30010-15 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 2-2.5' | 5L30010-16 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 3-3.5' | 5L30010-17 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 4-4.5' | 5L30010-18 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-3 5-5.5' | 5L30010-19 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-4 0-1' | 5L30010-20 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-4 1-1.5' | 5L30010-21 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-4 2-2.5' | 5L30010-22 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-4 3-3.5' | 5L30010-23 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |
| AH-4 4-4.5' | 5L30010-24 | Soil | 12/29/05 00:00 | 12/30/05 16:25 |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
01/10/06 12:13

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-1 0-1' (5L30010-01) Soil | | | | | | | | | |
| Benzene | 5.18 | 0.200 | mg/kg dry | 200 | EA60314 | 01/03/06 | 01/04/06 | EPA 8021B | |
| Toluene | 22.1 | 0.200 | " | " | " | " | " | " | |
| Ethylbenzene | 19.1 | 0.200 | " | " | " | " | " | " | |
| Xylene (p/m) | 41.6 | 0.200 | " | " | " | " | " | " | |
| Xylene (o) | 21.2 | 0.200 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 498 % | 80-120 | | " | " | " | " | S-04 |
| Surrogate: 4-Bromofluorobenzene | | 188 % | 80-120 | | " | " | " | " | S-04 |
| Gasoline Range Organics C6-C12 | 7570 | 100 | mg/kg dry | 10 | EA60315 | 01/03/06 | 01/04/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 32200 | 100 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 39800 | 100 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 25.2 % | 70-130 | | " | " | " | " | S-06 |
| Surrogate: 1-Chlorooctadecane | | 36.4 % | 70-130 | | " | " | " | " | S-06 |
| AH-1 1-1.5' (5L30010-02) Soil | | | | | | | | | |
| Benzene | 10.8 | 0.250 | mg/kg dry | 250 | EA60314 | 01/03/06 | 01/04/06 | EPA 8021B | |
| Toluene | 29.2 | 0.250 | " | " | " | " | " | " | |
| Ethylbenzene | 17.8 | 0.250 | " | " | " | " | " | " | |
| Xylene (p/m) | 37.6 | 0.250 | " | " | " | " | " | " | |
| Xylene (o) | 18.3 | 0.250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 610 % | 80-120 | | " | " | " | " | S-04 |
| Surrogate: 4-Bromofluorobenzene | | 170 % | 80-120 | | " | " | " | " | S-04 |
| Gasoline Range Organics C6-C12 | 5760 | 20.0 | mg/kg dry | 2 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 22500 | 20.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 28300 | 20.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 119 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 89.8 % | 70-130 | | " | " | " | " | |
| AH-1 2-2.5' (5L30010-03) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EA60912 | 01/09/06 | 01/09/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | J [0.0239] | 0.0250 | " | " | " | " | " | " | J |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 84.5 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 96.5 % | 80-120 | | " | " | " | " | |
| Gasoline Range Organics C6-C12 | 31.7 | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/04/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 279 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 311 | 10.0 | " | " | " | " | " | " | |

Environmental Lab of Texas

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

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/10/06 12:13

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|-----------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-1 2-2.5' (5L30010-03) Soil | | | | | | | | | |
| Surrogate: 1-Chlorooctane | | 116 % | 70-130 | | EA60315 | 01/03/06 | 01/04/06 | EPA 8015M | |
| Surrogate: 1-Chlorooctadecane | | 122 % | 70-130 | | " | " | " | " | |
| AH-2 0-1' (5L30010-09) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EA60314 | 01/03/06 | 01/05/06 | 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 | | 96.0 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 118 % | 80-120 | | " | " | " | " | |
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 25.4 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 25.4 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 102 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 105 % | 70-130 | | " | " | " | " | |
| AH-2 1-1.5' (5L30010-10) Soil | | | | | | | | | |
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | J [9.80] | 10.0 | " | " | " | " | " | " | J |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 109 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 111 % | 70-130 | | " | " | " | " | |
| AH-3 0-1' (5L30010-14) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EA60314 | 01/03/06 | 01/03/06 | EPA 8021B | |
| Toluene | 0.0352 | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | 0.0995 | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | 0.323 | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | 0.139 | 0.0250 | " | " | " | " | " | " | |
| Surrogate: a,a,a-Trifluorotoluene | | 103 % | 80-120 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 165 % | 80-120 | | " | " | " | " | S-04 |
| Gasoline Range Organics C6-C12 | 245 | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 1690 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 1940 | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 102 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 119 % | 70-130 | | " | " | " | " | |

Environmental Lab of Texas

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
01/10/06 12:13

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|---------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-3 1-1.5' (5L30010-15) Soil | | | | | | | | | |
| Benzene | 6.26 | 0.500 | mg/kg dry | 500 | EA60314 | 01/03/06 | 01/04/06 | EPA 8021B | |
| Toluene | 38.2 | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | 35.0 | 0.500 | " | " | " | " | " | " | |
| Xylene (p/m) | 76.7 | 0.500 | " | " | " | " | " | " | |
| Xylene (o) | 34.9 | 0.500 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 345 % | | 80-120 | " | " | " | " | S-04 |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 166 % | | 80-120 | " | " | " | " | S-04 |
| Gasoline Range Organics C6-C12 | 6880 | 20.0 | mg/kg dry | 2 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 19100 | 20.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 26000 | 20.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 123 % | | 70-130 | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 106 % | | 70-130 | " | " | " | " | |
| AH-3 2-2.5' (5L30010-16) Soil | | | | | | | | | |
| Gasoline Range Organics C6-C12 | 4700 | 20.0 | mg/kg dry | 2 | EA60315 | 01/03/06 | 01/03/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 14000 | 20.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 18700 | 20.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 108 % | | 70-130 | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 92.8 % | | 70-130 | " | " | " | " | |
| AH-3 3-3.5' (5L30010-17) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EA60912 | 01/09/06 | 01/09/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | 0.0956 | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | 0.388 | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | 0.185 | 0.0250 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 88.8 % | | 80-120 | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 81.2 % | | 80-120 | " | " | " | " | |
| Gasoline Range Organics C6-C12 | 176 | 10.0 | mg/kg dry | 1 | EA60907 | 01/09/06 | 01/10/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | 728 | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | 904 | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 92.8 % | | 70-130 | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 384 % | | 70-130 | " | " | " | " | S-04 |

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

Project: Pogo/ State 2 Well #2 (Flowline)
 Project Number: 2526
 Project Manager: Ike Tavarez

Fax: (432) 682-3946
 Reported:
 01/10/06 12:13

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| AH-4 0-1' (5L30010-20) Soil | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EA60314 | 01/03/06 | 01/05/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (p/m) | ND | 0.0250 | " | " | " | " | " | " | |
| Xylene (o) | ND | 0.0250 | " | " | " | " | " | " | |
| <i>Surrogate: a,a,a-Trifluorotoluene</i> | | 90.8 % | 80-120 | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 113 % | 80-120 | | " | " | " | " | |
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/04/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 96.4 % | 70-130 | | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 98.8 % | 70-130 | | " | " | " | " | |
| AH-4 1-1.5' (5L30010-21) Soil | | | | | | | | | |
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg dry | 1 | EA60315 | 01/03/06 | 01/04/06 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | " | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctane</i> | | 102 % | 70-130 | | " | " | " | " | |
| <i>Surrogate: 1-Chlorooctadecane</i> | | 105 % | 70-130 | | " | " | " | " | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
01/10/06 12:13

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| AH-1 0-1' (5L30010-01) Soil | | | | | | | | | |
| Chloride | 4950 | 100 | mg/kg | 200 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 3.3 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-1 1-1.5' (5L30010-02) Soil | | | | | | | | | |
| Chloride | 4690 | 100 | mg/kg | 200 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 3.4 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-1 2-2.5' (5L30010-03) Soil | | | | | | | | | |
| Chloride | 4750 | 100 | mg/kg | 200 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 1.6 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-1 3-3.5' (5L30010-04) Soil | | | | | | | | | |
| Chloride | 6260 | 100 | mg/kg | 200 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-1 4-4.5' (5L30010-05) Soil | | | | | | | | | |
| Chloride | 15000 | 200 | mg/kg | 400 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-1 5-5.5' (5L30010-06) Soil | | | | | | | | | |
| Chloride | 15400 | 200 | mg/kg | 400 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-1 6-6.5' (5L30010-07) Soil | | | | | | | | | |
| Chloride | 18000 | 200 | mg/kg | 400 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-1 7-7.5' (5L30010-08) Soil | | | | | | | | | |
| Chloride | 17400 | 200 | mg/kg | 400 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-2 0-1' (5L30010-09) Soil | | | | | | | | | |
| Chloride | 33.9 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 1.1 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavaréz

Fax: (432) 682-3946
Reported:
01/10/06 12:13

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| AH-2 1-1.5' (5L30010-10) Soil | | | | | | | | | |
| Chloride | 26.6 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 2.0 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-2 2-2.5' (5L30010-11) Soil | | | | | | | | | |
| Chloride | 25.5 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-2 3-3.5' (5L30010-12) Soil | | | | | | | | | |
| Chloride | 20.8 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-2 4-4.5' (5L30010-13) Soil | | | | | | | | | |
| Chloride | 21.4 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-3 0-1' (5L30010-14) Soil | | | | | | | | | |
| Chloride | 415 | 10.0 | mg/kg | 20 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 1.5 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-3 1-1.5' (5L30010-15) Soil | | | | | | | | | |
| Chloride | 331 | 10.0 | mg/kg | 20 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 3.0 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-3 2-2.5' (5L30010-16) Soil | | | | | | | | | |
| Chloride | 30.0 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 2.3 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-3 3-3.5' (5L30010-17) Soil | | | | | | | | | |
| Chloride | 111 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 1.5 | 0.1 | % | 1 | EA61001 | 01/09/06 | 01/10/06 | % calculation | |
| AH-3 4-4.5' (5L30010-18) Soil | | | | | | | | | |
| Chloride | 7080 | 100 | mg/kg | 200 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/10/06 12:13

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| AH-3 5-5.5' (5L30010-19) Soil | | | | | | | | | |
| Chloride | 22200 | 200 | mg/kg | 400 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| AH-4 0-1' (5L30010-20) Soil | | | | | | | | | |
| Chloride | 39.7 | 5.00 | mg/kg | 10 | EA60504 | 01/03/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 1.3 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-4 1-1.5' (5L30010-21) Soil | | | | | | | | | |
| Chloride | 26.4 | 5.00 | mg/kg | 10 | EA60506 | 01/05/06 | 01/05/06 | EPA 300.0 | |
| % Moisture | 2.3 | 0.1 | % | 1 | EA60401 | 01/03/06 | 01/04/06 | % calculation | |
| AH-4 2-2.5' (5L30010-22) Soil | | | | | | | | | |
| Chloride | 20.7 | 5.00 | mg/kg | 10 | EA60506 | 01/05/06 | 01/05/06 | EPA 300.0 | |
| AH-4 3-3.5' (5L30010-23) Soil | | | | | | | | | |
| Chloride | 22.4 | 5.00 | mg/kg | 10 | EA60506 | 01/05/06 | 01/05/06 | EPA 300.0 | |
| AH-4 4-4.5' (5L30010-24) Soil | | | | | | | | | |
| Chloride | 34.0 | 5.00 | mg/kg | 10 | EA60506 | 01/05/06 | 01/05/06 | EPA 300.0 | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/10/06 12:13

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60314 - EPA 5030C (GC)

Blank (EA60314-BLK1)

Prepared & Analyzed: 01/03/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| 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 | 34.3 | | ug/kg | 40.0 | | 85.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 46.5 | | " | 40.0 | | 116 | 80-120 | | | |

LCS (EA60314-BS1)

Prepared: 01/03/06 Analyzed: 01/04/06

| | | | | | | | | | | |
|-----------------------------------|--------|---------|-----------|--------|--|------|--------|--|--|--|
| Benzene | 0.0535 | 0.00100 | mg/kg wet | 0.0500 | | 107 | 80-120 | | | |
| Toluene | 0.0507 | 0.00100 | " | 0.0500 | | 101 | 80-120 | | | |
| Ethylbenzene | 0.0516 | 0.00100 | " | 0.0500 | | 103 | 80-120 | | | |
| Xylene (p/m) | 0.0987 | 0.00100 | " | 0.100 | | 98.7 | 80-120 | | | |
| Xylene (o) | 0.0496 | 0.00100 | " | 0.0500 | | 99.2 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 37.7 | | ug/kg | 40.0 | | 94.2 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 35.2 | | " | 40.0 | | 88.0 | 80-120 | | | |

LCS Dup (EA60314-BSD1)

Prepared & Analyzed: 01/03/06

| | | | | | | | | | | |
|-----------------------------------|--------|---------|-----------|--------|--|------|--------|------|----|--|
| Benzene | 0.0568 | 0.00100 | mg/kg wet | 0.0500 | | 114 | 80-120 | 6.33 | 20 | |
| Toluene | 0.0549 | 0.00100 | " | 0.0500 | | 110 | 80-120 | 8.53 | 20 | |
| Ethylbenzene | 0.0566 | 0.00100 | " | 0.0500 | | 113 | 80-120 | 9.26 | 20 | |
| Xylene (p/m) | 0.111 | 0.00100 | " | 0.100 | | 111 | 80-120 | 11.7 | 20 | |
| Xylene (o) | 0.0554 | 0.00100 | " | 0.0500 | | 111 | 80-120 | 11.2 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 39.5 | | ug/kg | 40.0 | | 98.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 40.0 | | " | 40.0 | | 100 | 80-120 | | | |

Calibration Check (EA60314-CCV1)

Prepared: 01/03/06 Analyzed: 01/05/06

| | | | | | | | | | | |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene | 51.5 | | ug/kg | 50.0 | | 103 | 80-120 | | | |
| Toluene | 50.9 | | " | 50.0 | | 102 | 80-120 | | | |
| Ethylbenzene | 54.3 | | " | 50.0 | | 109 | 80-120 | | | |
| Xylene (p/m) | 104 | | " | 100 | | 104 | 80-120 | | | |
| Xylene (o) | 54.8 | | " | 50.0 | | 110 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 38.0 | | " | 40.0 | | 95.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.5 | | " | 40.0 | | 111 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
01/10/06 12:13

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60314 - EPA 5030C (GC)

Matrix Spike (EA60314-MS1) Source: 6A04003-02 Prepared: 01/03/06 Analyzed: 01/06/06

| | | | | | | | | | | |
|-----------------------------------|--------|---------|-----------|--------|----|------|--------|--|--|--|
| Benzene | 0.0535 | 0.00100 | mg/kg dry | 0.0536 | ND | 99.8 | 80-120 | | | |
| Toluene | 0.0549 | 0.00100 | " | 0.0536 | ND | 102 | 80-120 | | | |
| Ethylbenzene | 0.0642 | 0.00100 | " | 0.0536 | ND | 120 | 80-120 | | | |
| Xylene (p/m) | 0.128 | 0.00100 | " | 0.107 | ND | 120 | 80-120 | | | |
| Xylene (o) | 0.0630 | 0.00100 | " | 0.0536 | ND | 118 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 39.2 | | ug/kg | 40.0 | | 98.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 46.3 | | " | 40.0 | | 116 | 80-120 | | | |

Batch EA60315 - Solvent Extraction (GC)

Blank (EA60315-BLK1)

Prepared & Analyzed: 01/03/06

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Diesel Range Organics >C12-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 47.7 | | mg/kg | 50.0 | | 95.4 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 47.8 | | " | 50.0 | | 95.6 | 70-130 | | | |

LCS (EA60315-BS1)

Prepared & Analyzed: 01/03/06

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 474 | 10.0 | mg/kg wet | 500 | | 94.8 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 456 | 10.0 | " | 500 | | 91.2 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 930 | 10.0 | " | 1000 | | 93.0 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 52.3 | | mg/kg | 50.0 | | 105 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 50.6 | | " | 50.0 | | 101 | 70-130 | | | |

Calibration Check (EA60315-CCV1)

Prepared: 01/03/06 Analyzed: 01/04/06

| | | | | | | | | | | |
|--------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 467 | | mg/kg | 500 | | 93.4 | 80-120 | | | |
| Diesel Range Organics >C12-C35 | 461 | | " | 500 | | 92.2 | 80-120 | | | |
| Total Hydrocarbon C6-C35 | 928 | | " | 1000 | | 92.8 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 51.5 | | " | 50.0 | | 103 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 49.8 | | " | 50.0 | | 99.6 | 70-130 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
 Project Number: 2526
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/10/06 12:13

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60315 - Solvent Extraction (GC)

| Matrix Spike (EA60315-MS1) | | Source: 5L30010-03 | | Prepared & Analyzed: 01/03/06 | | | | | | |
|-----------------------------------|------|---------------------------|-----------|--|------|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 502 | 10.0 | mg/kg dry | 508 | 31.7 | 92.6 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 708 | 10.0 | " | 508 | 279 | 84.4 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 1210 | 10.0 | " | 1020 | 311 | 88.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 49.2 | | mg/kg | 50.0 | | 98.4 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 50.0 | | " | 50.0 | | 100 | 70-130 | | | |

| Matrix Spike Dup (EA60315-MSD1) | | Source: 5L30010-03 | | Prepared & Analyzed: 01/03/06 | | | | | | |
|--|------|---------------------------|-----------|--|------|------|--------|------|----|--|
| Gasoline Range Organics C6-C12 | 461 | 10.0 | mg/kg dry | 508 | 31.7 | 84.5 | 75-125 | 8.52 | 20 | |
| Diesel Range Organics >C12-C35 | 725 | 10.0 | " | 508 | 279 | 87.8 | 75-125 | 2.37 | 20 | |
| Total Hydrocarbon C6-C35 | 1190 | 10.0 | " | 1020 | 311 | 86.2 | 75-125 | 1.67 | 20 | |
| Surrogate: 1-Chlorooctane | 52.9 | | mg/kg | 50.0 | | 106 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 50.3 | | " | 50.0 | | 101 | 70-130 | | | |

Batch EA60907 - Solvent Extraction (GC)

| Blank (EA60907-BLK1) | | Prepared: 01/09/06 Analyzed: 01/10/06 | | | | | | | | |
|--------------------------------|------|--|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Diesel Range Organics >C12-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 38.6 | | mg/kg | 50.0 | | 77.2 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 36.2 | | " | 50.0 | | 72.4 | 70-130 | | | |

| LCS (EA60907-BS1) | | Prepared & Analyzed: 01/09/06 | | | | | | | | |
|--------------------------------|------|--|-----------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 426 | 10.0 | mg/kg wet | 500 | | 85.2 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 395 | 10.0 | " | 500 | | 79.0 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 821 | 10.0 | " | 1000 | | 82.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 42.5 | | mg/kg | 50.0 | | 85.0 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.9 | | " | 50.0 | | 91.8 | 70-130 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
01/10/06 12:13

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60907 - Solvent Extraction (GC)

Calibration Check (EA60907-CCV1)

Prepared: 01/09/06 Analyzed: 01/10/06

| | | | | | | | | | | |
|--------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 416 | | mg/kg | 500 | | 83.2 | 80-120 | | | |
| Diesel Range Organics >C12-C35 | 400 | | " | 500 | | 80.0 | 80-120 | | | |
| Total Hydrocarbon C6-C35 | 816 | | " | 1000 | | 81.6 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 51.8 | | " | 50.0 | | 104 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 43.9 | | " | 50.0 | | 87.8 | 70-130 | | | |

Matrix Spike (EA60907-MS1)

Source: 6A07001-01

Prepared & Analyzed: 01/09/06

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 455 | 10.0 | mg/kg dry | 549 | ND | 82.9 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 518 | 10.0 | " | 549 | ND | 94.4 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 973 | 10.0 | " | 1100 | ND | 88.5 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 52.3 | | mg/kg | 50.0 | | 105 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 45.3 | | " | 50.0 | | 90.6 | 70-130 | | | |

Matrix Spike Dup (EA60907-MSD1)

Source: 6A07001-01

Prepared & Analyzed: 01/09/06

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|----|------|--------|------|----|--|
| Gasoline Range Organics C6-C12 | 450 | 10.0 | mg/kg dry | 549 | ND | 82.0 | 75-125 | 1.10 | 20 | |
| Diesel Range Organics >C12-C35 | 506 | 10.0 | " | 549 | ND | 92.2 | 75-125 | 2.34 | 20 | |
| Total Hydrocarbon C6-C35 | 956 | 10.0 | " | 1100 | ND | 86.9 | 75-125 | 1.76 | 20 | |
| Surrogate: 1-Chlorooctane | 51.6 | | mg/kg | 50.0 | | 103 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 47.9 | | " | 50.0 | | 95.8 | 70-130 | | | |

Batch EA60912 - EPA 5030C (GC)

Blank (EA60912-BLK1)

Prepared & Analyzed: 01/09/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| 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 | 36.8 | | ug/kg | 40.0 | | 92.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.2 | | " | 40.0 | | 110 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
01/10/06 12:13

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EA60912 - EPA 5030C (GC)

LCS (EA60912-BS1)

Prepared: 01/09/06 Analyzed: 01/10/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene | 1.45 | 0.0250 | mg/kg wet | 1.25 | | 116 | 80-120 | | | |
| Toluene | 1.41 | 0.0250 | " | 1.25 | | 113 | 80-120 | | | |
| Ethylbenzene | 1.42 | 0.0250 | " | 1.25 | | 114 | 80-120 | | | |
| Xylene (p/m) | 2.99 | 0.0250 | " | 2.50 | | 120 | 80-120 | | | |
| Xylene (o) | 1.45 | 0.0250 | " | 1.25 | | 116 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 39.6 | | ug/kg | 40.0 | | 99.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 44.5 | | " | 40.0 | | 111 | 80-120 | | | |

Calibration Check (EA60912-CCV1)

Prepared: 01/09/06 Analyzed: 01/10/06

| | | | | | | | | | | |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene | 55.6 | | ug/kg | 50.0 | | 111 | 80-120 | | | |
| Toluene | 55.0 | | " | 50.0 | | 110 | 80-120 | | | |
| Ethylbenzene | 52.4 | | " | 50.0 | | 105 | 80-120 | | | |
| Xylene (p/m) | 109 | | " | 100 | | 109 | 80-120 | | | |
| Xylene (o) | 53.8 | | " | 50.0 | | 108 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 36.8 | | " | 40.0 | | 92.0 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 36.5 | | " | 40.0 | | 91.2 | 80-120 | | | |

Matrix Spike (EA60912-MS1)

Source: 6A09004-03

Prepared: 01/09/06 Analyzed: 01/10/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|--|--|--|
| Benzene | 1.56 | 0.0250 | mg/kg dry | 1.34 | ND | 116 | 80-120 | | | |
| Toluene | 1.55 | 0.0250 | " | 1.34 | ND | 116 | 80-120 | | | |
| Ethylbenzene | 1.54 | 0.0250 | " | 1.34 | ND | 115 | 80-120 | | | |
| Xylene (p/m) | 3.18 | 0.0250 | " | 2.69 | ND | 118 | 80-120 | | | |
| Xylene (o) | 1.58 | 0.0250 | " | 1.34 | ND | 118 | 80-120 | | | |
| Surrogate: a,a,a-Trifluorotoluene | 38.5 | | ug/kg | 40.0 | | 96.2 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 46.3 | | " | 40.0 | | 116 | 80-120 | | | |

Matrix Spike Dup (EA60912-MSD1)

Source: 6A09004-03

Prepared: 01/09/06 Analyzed: 01/10/06

| | | | | | | | | | | |
|-----------------------------------|------|--------|-----------|------|----|------|--------|-------|----|--|
| Benzene | 1.54 | 0.0250 | mg/kg dry | 1.34 | ND | 115 | 80-120 | 0.866 | 20 | |
| Toluene | 1.53 | 0.0250 | " | 1.34 | ND | 114 | 80-120 | 1.74 | 20 | |
| Ethylbenzene | 1.52 | 0.0250 | " | 1.34 | ND | 113 | 80-120 | 1.75 | 20 | |
| Xylene (p/m) | 3.20 | 0.0250 | " | 2.69 | ND | 119 | 80-120 | 0.844 | 20 | |
| Xylene (o) | 1.57 | 0.0250 | " | 1.34 | ND | 117 | 80-120 | 0.851 | 20 | |
| Surrogate: a,a,a-Trifluorotoluene | 38.9 | | ug/kg | 40.0 | | 97.2 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 45.5 | | " | 40.0 | | 114 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
 Project Number: 2526
 Project Manager: Ike Tavaraz

Fax: (432) 682-3946
 Reported:
 01/10/06 12:13

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

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

Batch EA60401 - General Preparation (Prep)

| | | | | | | | | | | |
|---------------------------------|------|--|---|--|------|--|--|------|----|--|
| Blank (EA60401-BLK1) | | Prepared: 01/03/06 Analyzed: 01/04/06 | | | | | | | | |
| % Solids | 100 | | % | | | | | | | |
| Duplicate (EA60401-DUP1) | | Source: 5L30010-01 Prepared: 01/03/06 Analyzed: 01/04/06 | | | | | | | | |
| % Solids | 95.7 | | % | | 96.7 | | | 1.04 | 20 | |

Batch EA60504 - Water Extraction

| | | | | | | | | | | |
|---|------|--|-------|------|------|------|--------|------|----|--|
| Blank (EA60504-BLK1) | | Prepared: 01/03/06 Analyzed: 01/05/06 | | | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EA60504-BS1) | | Prepared: 01/03/06 Analyzed: 01/05/06 | | | | | | | | |
| Chloride | 9.58 | | mg/L | 10.0 | | 95.8 | 80-120 | | | |
| Calibration Check (EA60504-CCV1) | | Prepared: 01/03/06 Analyzed: 01/05/06 | | | | | | | | |
| Chloride | 8.27 | | mg/L | 10.0 | | 82.7 | 80-120 | | | |
| Duplicate (EA60504-DUP1) | | Source: 5L30010-01 Prepared: 01/03/06 Analyzed: 01/05/06 | | | | | | | | |
| Chloride | 5100 | 100 | mg/kg | | 4950 | | | 2.99 | 20 | |

Batch EA60506 - Water Extraction

| | | | | | | | | | | |
|-----------------------------|------|-------------------------------|-------|------|--|------|--------|--|--|--|
| Blank (EA60506-BLK1) | | Prepared & Analyzed: 01/05/06 | | | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EA60506-BS1) | | Prepared & Analyzed: 01/05/06 | | | | | | | | |
| Chloride | 8.22 | | mg/L | 10.0 | | 82.2 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
 Project Number: 2526
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 01/10/06 12:13

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|--|------|-------------|-------|-----------|-------|
| Batch EA60506 - Water Extraction | | | | | | | | | | |
| Calibration Check (EA60506-CCV1) | | | | | Prepared & Analyzed: 01/05/06 | | | | | |
| Chloride | 8.74 | | mg/L | 10.0 | | 87.4 | 80-120 | | | |
| Duplicate (EA60506-DUP1) | | | | | Source: 5L30010-21 Prepared & Analyzed: 01/05/06 | | | | | |
| Chloride | 31.4 | 5.00 | mg/kg | | 26.4 | | | 17.3 | 20 | |
| Batch EA61001 - General Preparation (Prep) | | | | | | | | | | |
| Blank (EA61001-BLK1) | | | | | Prepared: 01/09/06 Analyzed: 01/10/06 | | | | | |
| % Solids | 100 | | % | | | | | | | |
| Duplicate (EA61001-DUP1) | | | | | Source: 6A07001-01 Prepared: 01/09/06 Analyzed: 01/10/06 | | | | | |
| % Solids | 90.1 | | % | | 91.0 | | | 0.994 | 20 | |
| Duplicate (EA61001-DUP2) | | | | | Source: 6A09001-13 Prepared: 01/09/06 Analyzed: 01/10/06 | | | | | |
| % Solids | 78.8 | | % | | 81.3 | | | 3.12 | 20 | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
01/10/06 12:13

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Raland K Tuttle Date: 1-10-06

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

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

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

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

Client: Highlander

Date/Time: 12/30/08 4:25

Order #: 5L30010

Initials: CK

Sample Receipt Checklist

| | | | |
|---|---|----|------------------------|
| Temperature of container/cooler? | Yes | No | 3,5 C |
| Shipping container/cooler in good condition? | <input checked="" type="checkbox"/> Yes | No | |
| Custody Seals intact on shipping container/cooler? | Yes | No | Not present |
| Custody Seals intact on sample bottles? | <input checked="" type="checkbox"/> Yes | No | Not present |
| Chain of custody present? | <input checked="" type="checkbox"/> Yes | No | |
| Sample Instructions complete on Chain of Custody? | <input checked="" type="checkbox"/> Yes | No | |
| Chain of Custody signed when relinquished and received? | <input checked="" type="checkbox"/> Yes | No | |
| Chain of custody agrees with sample label(s) | <input checked="" type="checkbox"/> Yes | No | |
| Container labels legible and intact? | <input checked="" type="checkbox"/> Yes | No | |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="checkbox"/> Yes | No | |
| Samples in proper container/bottle? | <input checked="" type="checkbox"/> Yes | No | |
| Samples properly preserved? | <input checked="" type="checkbox"/> Yes | No | |
| Sample bottles intact? | <input checked="" type="checkbox"/> Yes | No | |
| Preservations documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | No | |
| Containers documented on Chain of Custody? | <input checked="" type="checkbox"/> Yes | No | |
| Sufficient sample amount for indicated test? | <input checked="" type="checkbox"/> Yes | No | |
| All samples received within sufficient hold time? | <input checked="" type="checkbox"/> Yes | No | |
| VOC samples have zero headspace? | <input checked="" type="checkbox"/> Yes | No | Not Applicable |

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

Jeanne McMurrey

From: "Ike T" <itavarez@hec-enviro.com>
To: "Jeanne - Enviro Lab" <jeanne@elabtexas.com>
Sent: Monday, January 09, 2006 9:12 AM
Subject: Request additional analyses

Jeanne,

Pogo Producing Company – State 2 Well #2 (flow line)
Eddy County, New Mexico

Lab Order: 5L30010 – Report Date 1/6/06

Please run additional analyses on:

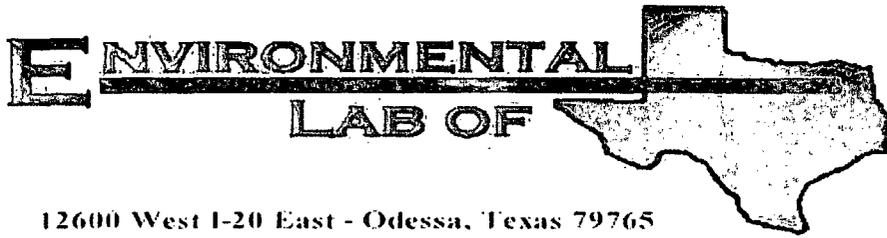
AH-1 (2-2.5') - BTEX

AH-3 (3-3.5') – TPH and BTEX (if TPH exceeds 5,000 mg/kg, run deeper sample (4-4.5') for TPH and BTEX)

--

This message has been scanned for viruses and dangerous content by **BasinBroadband**, and is believed to be clean.

Analytical Report
5/30/2006



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: Pogo/ State 2 Well #2 (Flowline)

Project Number: 2526

Location: Eddy County, NM

Lab Order Number: 6E22004

Report Date: 05/30/06

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
05/30/06 15:37

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| T-1 2.0' | 6E22004-01 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 4.0' | 6E22004-02 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 6.0' | 6E22004-03 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 8.0' | 6E22004-04 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 10.0' | 6E22004-05 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 12.0' | 6E22004-06 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-1 14.0' | 6E22004-07 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 2.0' | 6E22004-08 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 4.0' | 6E22004-09 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 6.0' | 6E22004-10 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 8.0' | 6E22004-11 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 10.0' | 6E22004-12 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 12.0' | 6E22004-13 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-2 14.0' | 6E22004-14 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-3 2.0' | 6E22004-15 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-3 4.0' | 6E22004-16 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-3 6.0' | 6E22004-17 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-3 8.0' | 6E22004-18 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-4 2.0' | 6E22004-19 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-4 4.0' | 6E22004-20 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-4 6.0' | 6E22004-21 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-4 8.0' | 6E22004-22 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-4 10.0' | 6E22004-23 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-5 2.0' | 6E22004-24 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-5 4.0' | 6E22004-25 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-5 6.0' | 6E22004-26 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-6 2.0' | 6E22004-27 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-6 4.0' | 6E22004-28 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-6 6.0' | 6E22004-29 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-6 8.0' | 6E22004-30 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-6 10.0' | 6E22004-31 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-7 2.0' | 6E22004-32 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-7 4.0' | 6E22004-33 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |
| T-7 6.0' | 6E22004-34 | Soil | 05/18/06 00:00 | 05/19/06 16:55 |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
05/30/06 15:37

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| T-1 2.0' (6E22004-01) Soil | | | | | | | | | |
| Chloride | 5300 | 100 | mg/kg | 200 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 4.0' (6E22004-02) Soil | | | | | | | | | |
| Chloride | 11400 | 500 | mg/kg | 1000 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 6.0' (6E22004-03) Soil | | | | | | | | | |
| Chloride | 11200 | 200 | mg/kg | 400 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 8.0' (6E22004-04) Soil | | | | | | | | | |
| Chloride | 17400 | 250 | mg/kg | 500 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 10.0' (6E22004-05) Soil | | | | | | | | | |
| Chloride | 5370 | 100 | mg/kg | 200 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 12.0' (6E22004-06) Soil | | | | | | | | | |
| Chloride | 3210 | 50.0 | mg/kg | 100 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-1 14.0' (6E22004-07) Soil | | | | | | | | | |
| Chloride | 28.2 | 5.00 | mg/kg | 10 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 2.0' (6E22004-08) Soil | | | | | | | | | |
| Chloride | 4820 | 100 | mg/kg | 200 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 4.0' (6E22004-09) Soil | | | | | | | | | |
| Chloride | 7940 | 200 | mg/kg | 400 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 6.0' (6E22004-10) Soil | | | | | | | | | |
| Chloride | 12800 | 200 | mg/kg | 400 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 8.0' (6E22004-11) Soil | | | | | | | | | |
| Chloride | 14500 | 200 | mg/kg | 400 | EE62503 | 05/25/06 | 05/25/06 | EPA 300.0 | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
05/30/06 15:37

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| T-2 10.0' (6E22004-12) Soil | | | | | | | | | |
| Chloride | 14200 | 200 | mg/kg | 400 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 12.0' (6E22004-13) Soil | | | | | | | | | |
| Chloride | 2900 | 50.0 | mg/kg | 100 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-2 14.0' (6E22004-14) Soil | | | | | | | | | |
| Chloride | 268 | 10.0 | mg/kg | 20 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-3 2.0' (6E22004-15) Soil | | | | | | | | | |
| Chloride | 984 | 20.0 | mg/kg | 40 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-3 4.0' (6E22004-16) Soil | | | | | | | | | |
| Chloride | 6620 | 100 | mg/kg | 200 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-3 6.0' (6E22004-17) Soil | | | | | | | | | |
| Chloride | 382 | 10.0 | mg/kg | 20 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-3 8.0' (6E22004-18) Soil | | | | | | | | | |
| Chloride | 23.2 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-4 2.0' (6E22004-19) Soil | | | | | | | | | |
| Chloride | 21.6 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-4 4.0' (6E22004-20) Soil | | | | | | | | | |
| Chloride | 14.9 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-4 6.0' (6E22004-21) Soil | | | | | | | | | |
| Chloride | 10500 | 200 | mg/kg | 400 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-4 8.0' (6E22004-22) Soil | | | | | | | | | |
| Chloride | 23.7 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |

Environmental Lab of Texas

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

Page 4 of 10

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
05/30/06 15:37

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| T-4 10.0' (6E22004-23) Soil | | | | | | | | | |
| Chloride | 32.9 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-5 2.0' (6E22004-24) Soil | | | | | | | | | |
| Chloride | 17.5 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-5 4.0' (6E22004-25) Soil | | | | | | | | | |
| Chloride | 18.0 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-5 6.0' (6E22004-26) Soil | | | | | | | | | |
| Chloride | 13.3 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-6 2.0' (6E22004-27) Soil | | | | | | | | | |
| Chloride | 61.6 | 5.00 | mg/kg | 10 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-6 4.0' (6E22004-28) Soil | | | | | | | | | |
| Chloride | 8870 | 200 | mg/kg | 400 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-6 6.0' (6E22004-29) Soil | | | | | | | | | |
| Chloride | 10700 | 200 | mg/kg | 400 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-6 8.0' (6E22004-30) Soil | | | | | | | | | |
| Chloride | 5450 | 50.0 | mg/kg | 100 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-6 10.0' (6E22004-31) Soil | | | | | | | | | |
| Chloride | 356 | 10.0 | mg/kg | 20 | EE62504 | 05/25/06 | 05/25/06 | EPA 300.0 | |
| T-7 2.0' (6E22004-32) Soil | | | | | | | | | |
| Chloride | 14.6 | 5.00 | mg/kg | 10 | EE62605 | 05/26/06 | 05/26/06 | EPA 300.0 | |
| T-7 4.0' (6E22004-33) Soil | | | | | | | | | |
| Chloride | 19.4 | 5.00 | mg/kg | 10 | EE62605 | 05/26/06 | 05/26/06 | EPA 300.0 | |

| | | |
|---|---|---|
| Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 | Project: Pogo/ State 2 Well #2 (Flowline) Project Number: 2526 Project Manager: Ike Tavarez | Fax: (432) 682-3946 Reported: 05/30/06 15:37 |
|---|---|---|

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------------|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| T-7 6.0' (6E22004-34) Soil | | | | | | | | | |
| Chloride | 13.9 | 5.00 | mg/kg | 10 | EE62605 | 05/26/06 | 05/26/06 | EPA 300.0 | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch EE62503 - Water Extraction | | | | | | | | | | |
| Blank (EE62503-BLK1) Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EE62503-BS1) Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 10.7 | 0.500 | mg/kg | 10.0 | | 107 | 80-120 | | | |
| Calibration Check (EE62503-CCV1) Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 9.84 | | mg/L | 10.0 | | 98.4 | 80-120 | | | |
| Duplicate (EE62503-DUP1) Source: 6E19010-07 Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 87.0 | 5.00 | mg/kg | | 87.6 | | | 0.687 | 20 | |
| Duplicate (EE62503-DUP2) Source: 6E22004-02 Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 11300 | 500 | mg/kg | | 11400 | | | 0.881 | 20 | |
| Matrix Spike (EE62503-MS1) Source: 6E19010-07 Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 188 | 5.00 | mg/kg | 100 | 87.6 | 100 | 80-120 | | | |
| Matrix Spike (EE62503-MS2) Source: 6E22004-02 Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 22100 | 500 | mg/kg | 10000 | 11400 | 107 | 80-120 | | | |
| Batch EE62504 - Water Extraction | | | | | | | | | | |
| Blank (EE62504-BLK1) Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EE62504-BS1) Prepared & Analyzed: 05/25/06 | | | | | | | | | | |
| Chloride | 10.5 | 0.500 | mg/kg | 10.0 | | 105 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
05/30/06 15:37

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------------------------|---------------|-------------------------------|-------------|------|-----------|-------|
| Batch EE62504 - Water Extraction | | | | | | | | | | |
| Calibration Check (EE62504-CCV1) | | | | Prepared & Analyzed: 05/25/06 | | | | | | |
| Chloride | 10.3 | | mg/L | 10.0 | | 103 | 80-120 | | | |
| Duplicate (EE62504-DUP1) | | | | Source: 6E22004-12 | | Prepared & Analyzed: 05/25/06 | | | | |
| Chloride | 14400 | 200 | mg/kg | | 14200 | | | 1.40 | 20 | |
| Duplicate (EE62504-DUP2) | | | | Source: 6E22004-22 | | Prepared & Analyzed: 05/25/06 | | | | |
| Chloride | 24.1 | 5.00 | mg/kg | | 23.7 | | | 1.67 | 20 | |
| Matrix Spike (EE62504-MS1) | | | | Source: 6E22004-12 | | Prepared & Analyzed: 05/25/06 | | | | |
| Chloride | 20000 | 200 | mg/kg | 4000 | 14200 | 145 | 80-120 | | | S-07 |
| Matrix Spike (EE62504-MS2) | | | | Source: 6E22004-22 | | Prepared & Analyzed: 05/25/06 | | | | |
| Chloride | 120 | 5.00 | mg/kg | 100 | 23.7 | 96.3 | 80-120 | | | |
| Batch EE62605 - Water Extraction | | | | | | | | | | |
| Blank (EE62605-BLK1) | | | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| LCS (EE62605-BS1) | | | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | 10.0 | 0.500 | mg/kg | 10.0 | | 100 | 80-120 | | | |
| Calibration Check (EE62605-CCV1) | | | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | 10.2 | | mg/kg | 10.0 | | 102 | 80-120 | | | |
| Duplicate (EE62605-DUP1) | | | | Source: 6E22004-32 | | Prepared & Analyzed: 05/26/06 | | | | |
| Chloride | 13.3 | 5.00 | mg/kg | | 14.6 | | | 9.32 | 20 | |

| | | |
|---|---|--|
| Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705 | Project: Pogo/ State 2 Well #2 (Flowline) Project Number: 2526 Project Manager: Ike Tavarez | Fax: (432) 682-3946 Reported: 05/30/06 15:37 |
|---|---|--|

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

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

Batch EE62605 - Water Extraction

| | | | | | | | | | | |
|-----------------------------------|------|---------------------------|-------|--|------|------|--------|------|----|--|
| Duplicate (EE62605-DUP2) | | Source: 6E23010-02 | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | 70.3 | 10.0 | mg/kg | | 66.8 | | | 5.11 | 20 | |
| Matrix Spike (EE62605-MS1) | | Source: 6E22004-32 | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | 103 | 5.00 | mg/kg | 100 | 14.6 | 88.4 | 80-120 | | | |
| Matrix Spike (EE62605-MS2) | | Source: 6E23010-02 | | Prepared & Analyzed: 05/26/06 | | | | | | |
| Chloride | 257 | 10.0 | mg/kg | 200 | 66.8 | 95.1 | 80-120 | | | |

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

Project: Pogo/ State 2 Well #2 (Flowline)
Project Number: 2526
Project Manager: Ike Tavaréz

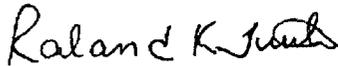
Fax: (432) 682-3946

Reported:
05/30/06 15:37

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:



Date: 5/30/2006

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

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

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

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

P.6

4326823946

Acad

May 19 06 04:50P

WETWOOD

Analysis Request and Chain of Custody Record

PAGE: 3 OF: 4

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Pogo Producing Co.

SITE MANAGER: THE TOWER

PROJECT NO.: 2526

PROJECT NAME: Pogo/State 2 well #2
Eddy Co. HM.
SAMPLE IDENTIFICATION

LAB I.D. NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

NUMBER OF CONTAINERS
FILTERED (Y/N)

PRESERVATIVE METHOD

HCL

HNO3

ICE

NONE

BTEX 8050/908

MTBE 8050/908

TPH 4161 8016 MOD. T1005

PAH 8670

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCDF Metals Ag As Ba Cd Cr Pb Hg Se

TCDF Volatiles

TCDF Semi Volatiles

RC

CCMS Vol. 8240/8250/824

CCMS Semi Vol. 8270/825

PCE's 8090/808

Perf. 609/609

ROD, TSS, pH, TDS, Chloride

Gamma Spec.

Alpha Beta (air)

PLM (Asbestos)

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE | BTEX 8050/908 | MTBE 8050/908 | TPH 4161 8016 MOD. T1005 | PAH 8670 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCDF Metals Ag As Ba Cd Cr Pb Hg Se | TCDF Volatiles | TCDF Semi Volatiles | RC | CCMS Vol. 8240/8250/824 | CCMS Semi Vol. 8270/825 | PCE's 8090/808 | Perf. 609/609 | ROD, TSS, pH, TDS, Chloride | Gamma Spec. | Alpha Beta (air) | PLM (Asbestos) | | |
|-----------------|---------|------|--------|-------|------|-----------------------|----------------------|----------------|-----|------|-----|------|---------------|---------------|--------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|----|-------------------------|-------------------------|----------------|---------------|-----------------------------|-------------|------------------|----------------|--|--|
| 21 | 5-18-06 | | | | | T-4 6.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | T-4 8.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | T-4 10.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | T-5 2.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | T-5 4.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | T-5 6.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | T-6 2.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | T-6 4.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | T-6 6.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | T-6 8.0' | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|--|--|----------------------------|--|---|
| RELINQUISHED BY: (Signature) <u>[Signature]</u> | Date: <u>5-19-06</u> Time: <u>11:00</u> | RECEIVED BY: (Signature) <u>[Signature]</u> | Date: _____ Time: _____ | SAMPLER BY: (Print & Sign) <u>THE TOWER</u> | Date: _____ Time: _____ |
| RELINQUISHED BY: (Signature) | Date: _____ Time: _____ | RECEIVED BY: (Signature) | Date: _____ Time: _____ | SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS | AIRBILL # _____ OTHER: _____ |
| RELINQUISHED BY: (Signature) | Date: _____ Time: _____ | RECEIVED BY: (Signature) | Date: _____ Time: _____ | HIGHLANDER CONTACT PERSON: <u>THE TOWER</u> | Results by: RUSH Charges Authorized: Yes No |
| RECEIVING LABORATORY: ADDRESS: CITY: _____ STATE: _____ ZIP: _____ CONTACT: _____ PHONE: _____ | RECEIVED BY: (Signature) <u>[Signature]</u> | DATE: <u>05-19-06</u> | TIME: <u>1655</u> | | |

| | | |
|--|---|----------|
| SAMPLE CONDITION WHEN RECEIVED: <u>4.0°C 4oz glass w/labels ~2300</u> | MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other | REMARKS: |
|--|---|----------|

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

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

Client: Highlander
 Date/Time: 5/19/06 16:55
 Order #: 6E22004
 Initials: CK

Sample Receipt Checklist

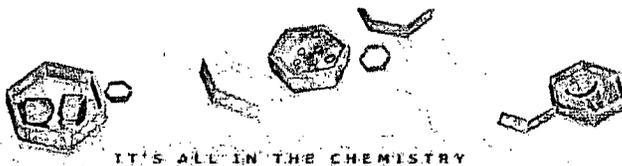
| | Yes | No | |
|---|-------------------------------------|----|------------------------|
| Temperature of container/cooler? | | | 4.0 C |
| Shipping container/cooler in good condition? | <input checked="" type="checkbox"/> | No | |
| Custody Seals intact on shipping container/cooler? | Yes | No | Not present |
| Custody Seals intact on sample bottles? | Yes | No | Not present |
| Chain of custody present? | <input checked="" type="checkbox"/> | No | |
| Sample Instructions complete on Chain of Custody? | <input checked="" type="checkbox"/> | No | |
| Chain of Custody signed when relinquished and received? | <input checked="" type="checkbox"/> | No | |
| Chain of custody agrees with sample label(s) | <input checked="" type="checkbox"/> | No | |
| Container labels legible and intact? | <input checked="" type="checkbox"/> | No | |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="checkbox"/> | No | |
| Samples in proper container/bottle? | <input checked="" type="checkbox"/> | No | |
| Samples properly preserved? | <input checked="" type="checkbox"/> | No | |
| Sample bottles intact? | <input checked="" type="checkbox"/> | No | |
| Preservations documented on Chain of Custody? | <input checked="" type="checkbox"/> | No | |
| Containers documented on Chain of Custody? | <input checked="" type="checkbox"/> | No | |
| Sufficient sample amount for indicated test? | <input checked="" type="checkbox"/> | No | |
| All samples received within sufficient hold time? | <input checked="" type="checkbox"/> | No | |
| VOC samples have zero headspace? | <input checked="" type="checkbox"/> | No | Nct Apolicable |

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:



01/14/10

Technical Report for

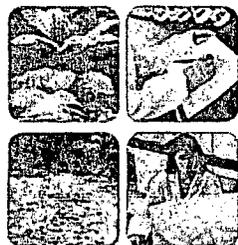
CRA West Chester

GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM

SSOW #750-402-D002-1100

Accutest Job Number: T44472

Sampling Date: 12/14/09



Report to:

Conestoga Rovers & Associates
9033 Meridian Way
West Chester, OH 45069
abown@croworld.com; pfowler@croworld.com;
jeff.kindley@tetrattech.com
ATTN: Angela Bown

Total number of pages in report: 36



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Marianne Walker 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

CRA West Chester

Job No: T44472

GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM
 Project No: SSOW #750-402-D002-1100

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------|------------------|
| T44472-1 | 12/14/09 | 10:20 JD | 12/19/09 | SO | Soil | T-6 2' |
| T44472-2 | 12/14/09 | 10:26 JD | 12/19/09 | SO | Soil | T-6 4' |
| T44472-3 | 12/14/09 | 10:32 JD | 12/19/09 | SO | Soil | T-6 6' |
| T44472-4 | 12/14/09 | 10:38 JD | 12/19/09 | SO | Soil | T-6 8' |
| T44472-5 | 12/14/09 | 10:43 JD | 12/19/09 | SO | Soil | T-6 10' |
| T44472-6 | 12/14/09 | 10:50 JD | 12/19/09 | SO | Soil | T-1 2' |
| T44472-7 | 12/14/09 | 10:55 JD | 12/19/09 | SO | Soil | T-1 4' |
| T44472-8 | 12/14/09 | 11:00 JD | 12/19/09 | SO | Soil | T-1 6' |
| T44472-9 | 12/14/09 | 11:10 JD | 12/19/09 | SO | Soil | T-1 8' |
| T44472-10 | 12/14/09 | 11:23 JD | 12/19/09 | SO | Soil | T-1 10' |
| T44472-11 | 12/14/09 | 12:30 JD | 12/19/09 | SO | Soil | T-2 2' |
| T44472-12 | 12/14/09 | 12:40 JD | 12/19/09 | SO | Soil | T-2 4' |
| T44472-13 | 12/14/09 | 12:50 JD | 12/19/09 | SO | Soil | T-2 6' |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

CRA West Chester

Job No: T44472

GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM
Project No: SSOW #750-402-D002-1100

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------|------------------|
| T44472-14 | 12/14/09 | 13:00 JD | 12/19/09 | SO | Soil | T-2 8' |
| T44472-15 | 12/14/09 | 13:05 JD | 12/19/09 | SO | Soil | T-2 10' |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CRA West Chester

Job No T44472

Site: GHSI:XPX State 2 Well #2 Flow Line Leak/58447DM

Report Date 1/12/2010 12:26:54 PM

15 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 12/14/2009 and were received at Accutest on 12/19/2009 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of T44472. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. All Chloride samples were subcontracted to Accutest Mountain States due to instrument repair.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry By Method SM 2540 G

| | |
|------------------|--------------------------|
| Matrix SO | Batch ID: GN19692 |
|------------------|--------------------------|

- Sample(s) T44434-9DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Accutest Laboratories Gulf Coast, Inc.

Job No T44472

Site: CRAOHWC: GHSI Oxy State 2 Well #2 FI Leak

Report Dat 1/11/2010 11:49:55 AM

On 12/19/2009, 15 Samples were received at Accutest Laboratories. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of T44472 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Wet Chemistry By Method EPA 300/SW846 9056

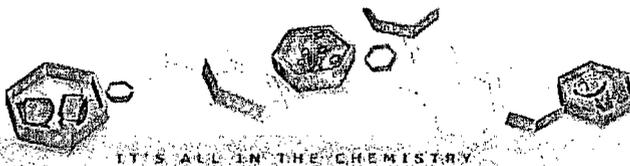
| | |
|------------------|-------------------------|
| Matrix SO | Batch ID: GP1281 |
|------------------|-------------------------|

- ▣ All samples were analyzed within the recommended method holding time.
- ▣ All method blanks for this batch meet method specific criteria.
- ▣ Matrix Spike Recovery(s) for Chloride are outside control limits. Probable cause due to matrix interference.
- ▣ Matrix Spike Duplicate Recovery(s) for Chloride are outside control limits. Probable cause due to matrix interference.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | T-6 2' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-1 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 95.6 |
| Project: | GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | | |



General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 27.9 | 26 | mg/kg | 5 | 01/06/10 13:46 | | EPA 300/SW846 9056 |
| Solids, Percent | 95.6 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | T-6 4' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-2 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 93.6 |
| Project: | GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | | |



General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 107 | 27 | mg/kg | 5 | 01/06/10 14:21 | | EPA 300/SW846 9056 |
| Solids, Percent | 93.6 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-6 6' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-3 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 86.7 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 4040 | 140 | mg/kg | 25 | 01/06/10 10:52 | | EPA 300/SW846 9056 |
| Solids, Percent | 86.7 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



Client Sample ID: T-6 8'

Lab Sample ID: T44472-4

Matrix: SO - Soil

Date Sampled: 12/14/09

Date Received: 12/19/09

Percent Solids: 90.9

Project: GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 12900 | 140 | mg/kg | 25 | 01/06/10 11:04 | | EPA 300/SW846 9056 |
| Solids, Percent | 90.9 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-6 10' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-5 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 95.2 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 1460 | 53 | mg/kg | 10 | 01/06/10 14:56 | | EPA 300/SW846 9056 |
| Solids, Percent | 95.2 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | T-1 2' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-6 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 94.5 |
| Project: | GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 91.0 | 26 | mg/kg | 5 | 01/06/10 15:07 | | EPA 300/SW846 9056 |
| Solids, Percent | 94.5 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis

3.7



| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | T-1 4' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-7 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 88.9 |
| Project: | GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | | |

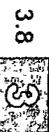
General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 320 | 28 | mg/kg | 5 | 01/06/10 15:19 | | EPA 300/SW846 9056 |
| Solids, Percent | 88.9 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-1 6' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-8 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 88.5 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|----|-------|----|----------------|----|--------------------|
| Chloride ^a | 2050 | 56 | mg/kg | 10 | 01/06/10 15:42 | | EPA 300/SW846 9056 |
| Solids, Percent | 88.5 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-1 8' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-9 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 92.1 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 12200 | 140 | mg/kg | 25 | 01/06/10 12:02 | | EPA 300/SW846 9056 |
| Solids, Percent | 92.1 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-1 10' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-10 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 92.8 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 6810 | 130 | mg/kg | 25 | 01/06/10 12:37 | | EPA 300/SW846 9056 |
| Solids, Percent | 92.8 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis

3.11
3

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-2 2' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-11 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 95.7 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 2890 | 130 | mg/kg | 25 | 01/06/10 12:48 | | EPA 300/SW846 9056 |
| Solids, Percent | 95.7 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | T-2 4' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-12 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 89.9 |
| Project: | GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 7770 | 140 | mg/kg | 25 | 01/06/10 13:00 | | EPA 300/SW846 9056 |
| Solids, Percent | 89.9 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis

3.13

| | |
|--|--------------------------------|
| Client Sample ID: T-2 6' | Date Sampled: 12/14/09 |
| Lab Sample ID: T44472-13 | Date Received: 12/19/09 |
| Matrix: SO - Soil | Percent Solids: 92.5 |
| Project: GHSI: PXP State 2 Well #2 Flow Line Leak/58447DM | |



General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 13600 | 140 | mg/kg | 25 | 01/06/10 13:11 | | EPA 300/SW846 9056 |
| Solids, Percent | 92.5 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis



| | | | |
|-------------------|---|-----------------|----------|
| Client Sample ID: | T-2 8' | Date Sampled: | 12/14/09 |
| Lab Sample ID: | T44472-14 | Date Received: | 12/19/09 |
| Matrix: | SO - Soil | Percent Solids: | 89.7 |
| Project: | GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 20800 | 280 | mg/kg | 50 | 01/06/10 15:54 | | EPA 300/SW846 9056 |
| Solids, Percent | 89.7 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit

Report of Analysis

3.15

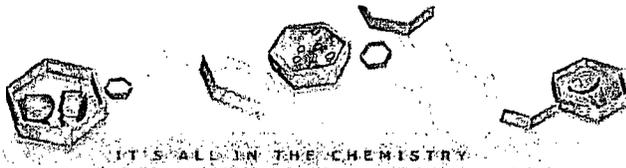

| | |
|---|--------------------------------|
| Client Sample ID: T-2 10' | Date Sampled: 12/14/09 |
| Lab Sample ID: T44472-15 | Date Received: 12/19/09 |
| Matrix: SO - Soil | Percent Solids: 90.9 |
| Project: GHSI:PXP State 2 Well #2 Flow Line Leak/58447DM | |

General Chemistry

| Analyte | Result | RL | Units | DF | Analyzed | By | Method |
|-----------------------|--------|-----|-------|----|----------------|----|--------------------|
| Chloride ^a | 10500 | 140 | mg/kg | 25 | 01/06/10 13:35 | | EPA 300/SW846 9056 |
| Solids, Percent | 90.9 | | % | 1 | 12/21/09 | AA | SM 2540 G |

(a) Analysis performed by Accutest Mountain States

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SAMPLE INSPECTION FORM

Accutest Job Number: T44472 Client: Tetra Tech Date/Time Received: 12/19/09 1000

of Coolers Received: 1 Thermometer #: 12-1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 2.4 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: _____

4.1



COOLER INFORMATION

- Custody seal missing or not intact
- Temperature criteria not met
- Wet ice received in cooler

CHAIN OF CUSTODY

- Chain of Custody not received
- Sample D/T unclear or missing
- Analyses unclear or missing
- COC not properly executed

SAMPLE INFORMATION

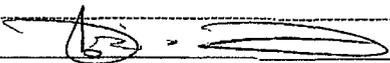
- Sample containers received broken
- VOC vials have headspace
- Sample labels missing or illegible
- ID on COC does not match label(s)
- D/T on COC does not match label(s)
- Sample/Bottles rcvd but no analysis on COC
- Sample listed on COC, but not received
- Bottles missing for requested analysis
- Insufficient volume for analysis
- Sample received improperly preserved

TRIP BLANK INFORMATION

- Trip Blank on COC but not received
- Trip Blank received but not on COC
- Trip Blank not intact
- Received Water Trip Blank
- Received Soil TB

Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE:  12/19/09

INFORMATION AND SAMPLE LABELING VERIFIED BY: _____

♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ **CORRECTIVE ACTIONS** ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions:

T44472: Chain of Custody
Page 3 of 4

SAMPLE RECEIPT LOG

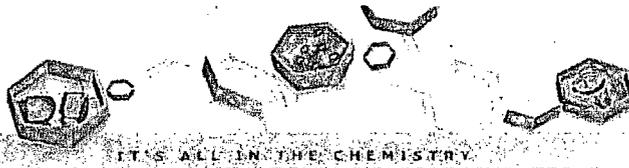
JOB #: T44472 DATE/TIME RECEIVED: 12/19/09 1000
 CLIENT: Tetra Tech INITIALS: FF

| COOLER# | SAMPLE ID | FIELD ID | DATE | MATRIX | VOL | BOTTLE # | LOCATION | PRESERV | PH |
|---------|-----------|----------|----------|--------|-----|----------|----------|--------------------|--------|
| 1 | 1 | T-6 2' | 12/14/09 | S | 402 | 1 | 2-43 | 2 3 4 5 6 7 8 | <2 >12 |
| | 2 | T-6 4' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 3 | T-6 6' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 4 | T-6 8' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 5 | T-6 10' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 6 | T-1 2' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 7 | T-1 4' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 8 | T-1 6' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 9 | T-1 8' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 10 | T-1 10' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 11 | T-2 2' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 12 | T-2 4' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 13 | T-2 6' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 14 | T-2 8' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | 15 | T-2 10' | | | | 1 | | 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |
| | | | | | | | | 1 2 3 4 5 6 7 8 | <2 >12 |

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other
 LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Solids) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer
 Rev 8/13/01 ewp

4.1

T44472: Chain of Custody
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Misc. Forms



Custody Documents and Other Forms

(Accutest Mountain States)

Includes the following where applicable:

- Chain of Custody



General Chemistry



QC Data Summaries

(Accutest Mountain States)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T44472
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI Oxy State 2 Well #2 Fl Leak

| Analyte | Batch ID | RL | MB Result | Units | Spike Amount | BSP Result | BSP %Recov | QC Limits |
|----------|---------------|-----|--------------|-------|-----------------|---------------|---------------|--------------|
| Chloride | GP1281/GN2795 | 5.0 | 0.0 | mg/kg | 200 | 189 | 94.5 | 90-110% |

Associated Samples:

Batch GP1281: T44472-1, T44472-10, T44472-11, T44472-12, T44472-13, T44472-14, T44472-15, T44472-2, T44472-3, T44472-4, T44472-5, T44472-6, T44472-7, T44472-8, T44472-9
(*) Outside of QC limits



MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T44472
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI Oxy State 2 Well #2 Fl Leak

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec | QC Limits |
|----------|---------------|-----------|-------|-----------------|--------------|-----------|------|-----------|
| Chloride | GP1281/GN2795 | T44472-1 | mg/kg | 27.9 | 523 | 487 | 87.8 | 80-120% |
| Chloride | GP1281/GN2795 | T44472-7 | mg/kg | 320 | 562 | 858 | 95.7 | 80-120% |

Associated Samples:

Batch GP1281: T44472-1, T44472-10, T44472-11, T44472-12, T44472-13, T44472-14, T44472-15, T44472-2, T44472-3, T44472-4, T44472-5, T44472-6, T44472-7, T44472-8, T44472-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.2


MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T44472
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: CRAOHWC: GHSI Oxy State 2 Well #2 Fl Leak

| Analyte | Batch ID | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|----------|---------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Chloride | GP1281/GN2795 | T44472-1 | mg/kg | 27.9 | 523 | 495 | 1.6 | 20% |

Associated Samples:

Batch GP1281: T44472-1, T44472-10, T44472-11, T44472-12, T44472-13, T44472-14, T44472-15, T44472-2, T44472-3, T44472-4, T44472-5, T44472-6, T44472-7, T44472-8, T44472-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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Ⓢ