

July 26, 2002

Mr. Paul R. Sheeley
Environmental Engineer
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Produced Water Spill Investigation Report, Texaco Exploration and Production, Inc., Vacuum Glorietta West Unit Satellite #4, UL-F, Section 6, Township 18 South, Range 35 East, Lea County, New Mexico.

Dear Mr. Sheeley:

Texaco Exploration and Production, Inc. (Texaco) has retained Larson and Associates, Inc. (LA) to investigate a produced water spill that occurred at its Vacuum Glorietta West Unit Satellite # 4 (Site), located in Unit Letter F (SW/4, NW/4), Section 6, Township 18 South, Range 35 East, Lea County, New Mexico (Site). This report presents findings of that investigation. Figure 1 presents a location and topographic map. Figure 2 presents a detailed drawing for the Site.

Spill Reporting and Initial Actions

Texaco reported the spill to the New Mexico Oil Conservation Commission (NMOCD) in February 2002. Texaco recovered as much fluid as possible following the spill, and scraped the area to remove brine impacted soil. A backhoe was used to collect soil samples from two (2) locations following the spill cleanup. Texaco submitted the sample results to the NMOCD on February 22, 2002. The NMOCD denied Texaco's closure request, and required complete delineation of the spill in a letter dated March 26, 2002. Appendix A presents correspondence from the NMOCD.

Setting

The Site is located approximately 17 miles northwest of Hobbs, New Mexico, at an elevation approximately 3975 feet above mean sea level (AMSL). A thin veneer of unconsolidated wind-blown sand (Recent-age) covers the Site, and overlies the Ogallala formation (Tertiary-age). The Ogallala formation consists of poorly to well-cemented sand and sandstone, interbedded with clay, silt and gravel. The Ogallala formation overlies the Triassic-age Chinle formation (commonly referred to as "red bed") consisting chiefly of mudstone, shale and sandstone. Groundwater was observed at approximately 110 feet BGS in a boring (BH-7) drilled at the Site.

Current Investigation

LA collected soil samples from twelve soil borings installed at the Site between April 23 and May 1, 2002. The borings were drilled by Environmental Technology Group, Inc. using an air rotary drilling rig. Soil samples were collected at the surface, and approximately every five (5) feet using a split-spoon sampler. The borings were drilled to approximately 50 feet BGS, except boring BH-7, which was advanced until groundwater was observed at approximately 110 feet BGS. The split-spoon sampler was thoroughly washed between sample events, and the drilling

ChewPex - 216419

Facility - FPAC 0605439887

incident - n PAC06054399A3

application - p PAC060544007

rig and associated equipment (i.e., bit, rods, etc.) were washed between locations using a high-pressure hot water washer. Drill cuttings were placed on the ground adjacent to the borings. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas, Inc., located in Odessa, Texas. A portion of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately $\frac{3}{4}$ full, and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace samples were set aside and allowed to warm up to ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the headspace sample. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil), and the concentration of organic vapors was displayed by the instrument in parts per million (ppm). The NMOCD allows a PID measurement of less than 100 ppm to substitute a laboratory analysis for benzene and total BTEX. However, the PID measurement cannot be used as a substitute for TPH analysis by a laboratory. Soil samples that exhibited PID readings above 100 ppm included: BH-7, 1' (>1999 ppm), BH-7, 5' (1440 ppm), BH-7, 10' (297.4 ppm), BH-7, 15' (238.6 ppm), BH-7, 20' (149.5 ppm), BH-7, 40' (137.6 ppm), BH-7, 50' (137.3 ppm), BH-8, 40' (147 ppm), BH-9, 5' (803.2 ppm), BH-9, 10' (646.8 ppm), BH-9, 15' (192.2 ppm), BH-9, 20' (182.9 ppm), BH-9, 50' (310.1 ppm), BH-11, 1' (>1999 ppm), BH-11, 5' (>1999 ppm), BH-11, 10' (>1999 ppm), BH-11, 15' (>1999 ppm), BH-11, 20' (>1999 ppm), BH-11, 40' (>1999 ppm), BH-11, 50' (>1999 ppm), BH-12, 1' (1190 ppm) and BH-12, 10' (162.9 ppm). The sample from each boring exhibiting the highest PID reading (over 100 ppm) was analyzed for BTEX and TPH by EPA methods SW-846-8021B and 8015 for gasoline range organics (GRO) and diesel range organics (DRO), respectively. Several additional samples from borings BH-7 through BH-12 were also analyzed for BTEX and TPH to define the vertical and horizontal extent of the release. All samples were analyzed for chloride using EPA method SW-846-9253. The PID readings and laboratory analysis are presented on Table 1. The PID readings are also graphically displayed on boring logs presented in Appendix B. Appendix C presents the laboratory reports.

An electromagnetic (EM) terrain conductivity survey was performed at the Site to augment data collected from the soil borings. The EM technique measures the electrical properties (i.e., conductivity) of soil and rock, as well as the electrical properties of groundwater. The EM method has been employed successfully to identify and delineate impacts to soil and groundwater involving produced water. The major factor that contributes to the conductivity of soil and rock is the conductivity of the formation water. The conductivity of the formation water depends primarily on the dissolved solids content. The EM induction technique utilizes current flow induced in the subsurface materials by a surface transmitter. An alternating electric current produced by a transmitter coil generates an alternating magnetic field that induces current flow through the earth material. The secondary magnetic field sensed by the receiver coil depends on the strength of the primary magnetic field, current frequency, distance between transmitting and receiving coils, and ground conductivity. The primary magnetic field, current frequency, and coil separation can be accounted for, leaving ground conductivity as the only unknown variable to be measured. The ground conductivity is digitally displayed in millimhos per meter (mmhos/m) at the receiver console.

The EM survey was performed on May 16 and 22, 2002, using an EM-34 terrain conductivity meter manufactured by Geonics Limited, Mississauga, Ontario, Canada. The EM-34 meter

requires 2 persons to operate, and consists of a transmitter, transmitter coil, receiver coil and receiver consol. The EM-34 has a depth of exploration that ranges from 0 to approximately 200 feet BGS, depending on the distance of separation between the transmitter and receiver coils (coil separation) and orientation of the transmitter and receiver coils (i.e., vertical or horizontal coplanar. Shallow conductivity measurements are acquired while the transmitter and receiver coils are oriented vertical coplanar or horizontal dipole (HD) mode. Deeper conductivity measurements are acquired while the transmitter and receiver coils are oriented horizontal coplanar or vertical dipole (VD) mode. The EM-34 has a depth of exploration of 0 to 24.6 feet BGS (HD) and 0 to 49.2 feet BGS (VD) using the 10-meter coil separation. The EM-34 has a depth of exploration of 0 to 49.2 feet BGS (HD) and 0 to 98.4 feet BGS (VD) using the 20-meter coil separation. Deeper exploration depths are achieved using the 40-meter coil separation, and ranges from 0 to 98.4 feet BGS (HD) and 0 to 196.9 feet BGS (VD).

The EM-34 survey was conducted using the 10-meter (HD) and 20-meter (HD and VD) coil separations. The location of boring BH-1 was determined to be free of cultural interferences (i.e., pipelines, overhead power lines, etc.), and was selected as a background station. Background measurements were collected for the 10-meter (HD) and 20-meter (HD and VD) coil separations to compare against EM-34 measurements collected at the spill area. A sample grid measuring approximately 540,000 square feet (600 x 900 feet) was established at the Site using a Nikon total station system (TSS). Measurement stations were established inside the sample grid approximately every 100 feet for a total of fifty-four (54) stations. Three (3) EM-34 measurements were collected at each station for a total of 165 measurements, including background. The EM-34 measurement stations are shown on Figure 2. The measurements collected during the EM-34, 10-meter (HD) and 20-meter (HD and VD) surveys are presented as contoured drawings in Figure 3 (10-meter HD), Figure 4 (20-meter HD) and Figure 5 (20-meter VD). Appendix D presents the EM-34 data sheets.

Investigation Results

The NMOCD has established soil remediation action levels (RRAL) for benzene, total BTEX and TPH resulting from spills involving crude oil ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	>100 Feet	0
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		Total: 0

The following RRALs have been assigned to the Site based on NMOCD criteria:

Benzene	10 mg/kg
Total BTEX	50 mg/kg
TPH	5000 mg/kg

Referring to Table 1, neither benzene, total BTEX nor TPH were reported above the RRAL in any sample. The NMOCD does not have an RRAL for chloride in soil, although it has applied

the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 250 milligrams per liter (mg/L) as an action level for chloride in soil. The average background chloride concentration of 101.98 milligrams per kilogram (mg/kg) was determined from soil samples collected at boring BH-1. Samples from the following borings were elevated above background, as well as the cleanup level typically applied to produced water spills by the NMOCD: BH-2, 1' (1330 mg/kg), BH-3, 1' (3860 mg/kg), BH-4, 1' (860 mg/kg), BH-5, 1' (4080 mg/kg), BH-7, 1' (4320 mg/kg), BH-7, 5' (6380 mg/kg), BH-7, 10' (2750 mg/kg), BH-7, 20' (292 mg/kg), BH-9, 1' (19500 mg/kg), BH-10, 1' (762 mg/kg), BH-12, 1' (3460 mg/kg), and BH-12, 5' (762 mg/kg). The investigation determined that the vertical extent of chloride impact is generally limited to the upper 1 foot of the soil horizon, except at locations BH-7 and BH-12. The chloride impact at location BH-7 and BH-12 appears to extend to depths of approximately 10 and 5 feet, respectively. The maximum chloride concentration was found at location BH-9 at approximately 1 foot BGS (19,500 mg/kg).

Referring to Figure 3 (EM-34, 10-meter HD, 0 to 24.6 feet), the background reading was 6.8 mmhos/m. EM-34, 10-meter HD measurements within the spill area ranged from background to greater than twelve (12) times background. EM-34, 10-meter HD measurements greater than approximately three (3) times background were recorded at stations 100 east/100 south (21.8 mmhos/m), 500 east/100 south (23.0 mmhos/m) and 800 east/500 south (23.2 mmhos/m). The EM-34, 10-meter HD reading recorded at location 500 east/100 south (23.0 mmhos/m) may be attributed to metallic interference from an underground pipeline observed at the surveyed location. EM-34, 10-meter HD readings exceeded approximately seven (7) times background at location 700 east/500 south (50.0 mmhos/m). The EM-34, 10-meter HD measurement at location 300 east/200 south (86.0 mmhos/m) was greater than twelve (12) times background.

Referring to Figure 4 (EM-34, 20-meter HD, 0 to 49.2 feet), the background reading was 8.2 mmhos/m. EM-34, 20-meter HD measurements within the spill area ranged from background to greater than six (6) times background. An EM-34, 20-meter HD measurement greater than approximately three (3) times background was recorded at station 300 east/200 south (27.1 mmhos/m). EM-34, 20-meter HD measurements greater than approximately four (4) times background were recorded at stations 700 east/500 south (34.8 mmhos/m) and 800 east/600 south (40.4 mmhos/m). The EM-34, 20-meter HD measurement at location 800 east/600 south appears to be an isolated anomaly, possibly associated with interference from nearby pipelines. An EM-34, 20-meter HD measurement greater than approximately six (6) times background was recorded at station 700 east/400 south (55.6 mmhos/m).

Referring to Figure 5 (EM-34, 20-meter VD, 0 to 98.4 feet), the background reading was 14.2 mmhos/m. EM-34, 20-meter VD measurements within the spill area ranged from background to greater than twenty (20) times background. EM-34, 20-meter VD measurements greater than approximately three (3) times background were recorded at stations 100 east/0 south (45.3 mmhos/m), 500 east/200 south (45.0 mmhos/m) and 900 east/500 south (41.1 mmhos/m). EM-34, 20-meter VD measurements greater than approximately four (4) times background were recorded at stations 100 east/500 south (67.6 mmhos/m), 200 east/100 south (61.7 mmhos/m) and 300 east/300 south (56.8 mmhos/m). An EM-34, 20-meter VD measurement greater than approximately seven (7) times background was recorded at station 0 east/0 south (102.4 mmhos/m). EM-34, 20-meter VD measurements greater than approximately ten (10) times background were recorded at stations 600 east/500 south (181.0 mmhos/m) and 700 east/600

Mr. Paul R. Sheeley
July 26, 2002
Page 5

south (169.8 mmhos/m). EM-34, 20-meter VD measurements greater than approximately twenty (20) times background were recorded at stations 300 east/200 south (325.0 mmhos/m) and 600 east/400 south (280.0 mmhos/m).

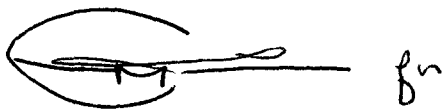
The results of chloride analysis of soil samples from borings BH-5 and BH-7 appear to correlate well with EM-34, 10-meter HD and 20-meter HD measurements. The soil samples from boring BH-7 reported elevated chloride values to approximately 10 feet BGS. Soil samples from the remaining borings reported elevated chloride levels in the surface samples collected to approximately 1 foot BGS. The anomaly observed during the 10-meter HD survey at station 700 east/500 south was not observed during the EM-34, 20-meter HD and VD surveys, and is likely interference from two subsurface pipelines near the survey stations. The anomaly observed at station 600 east/400 south during the EM-34, 20-meter VD survey likely reflects interference from a pipeline since it was not observed during the EM-34, 10-meter HD and EM-34, 20-meter HD surveys.

Recommendations

The horizontal and vertical extent of impact from the spill was determined from the investigations. The impact is limited to elevated chloride in the approximate upper 1 foot of the unsaturated zone soil, except at location BH-7. The impact observed at location BH-7 appears to extend to approximately 10 feet BGS. Please call Mr. Rodney G. Bailey at (915) 687-7100 or myself at (915) 687-0901 if you have questions.

Sincerely,

Larson and Associates, Inc.



Cindy K. Crain
Geologist

9/14/02

Encl

① RECOMMENDATIONS? -
cc: THIS IS NOT A RECOMM - IT
IS A STATEMENT. WHAT IS
RECOMM TO BRING THIS TO
ACCEPTABLE LEVEL?
REFER TO APPENDIX 1; ITEM
1 & 2 NOT ADDRESSED

**Texaco Exploration and
Production Inc.**
Permian Business Unit
15 Smith Road
Midland, TX 79705
Tel (915) 687-7251
Fax (915) 687-7110
bailerg@chevrontexaco.com

Rodney Bailey
HES Champion

ChevronTexaco

Date: August 1, 2002

New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs New Mexico 88240
Attn Paul Sheeley

Re: Produce Water Spill Investigation
Vacuum Glorieta West Unit Satellite #4

Dear Mr. Sheeley;

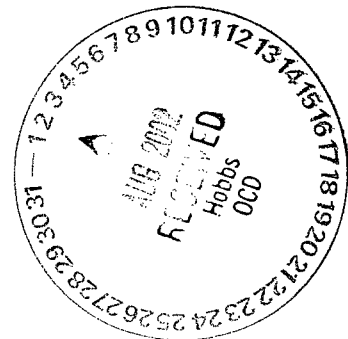
Attached is the investigation report for the above mentioned site, where a spill that occurred on 1-08-02. As the report shows the impact is limited to an elevated chloride level in the approximate upper 1 foot of the unsaturated zone soil except for BH-7 where it extends to approximately 10 feet BGS.

If you have any question please call me at 915-687-7251.

Sincerely,



ChevronTexaco
Rodney Bailey
HES Champion



TABLES

Table 1: Summary of BTEX, TPH and Chloride Analysis of Soil Samples
Texaco Vacuum Unit Satellite # 4
Buckeye, Lea County, New Mexico

Borehole Number	Sample Date	Sample Depth (feet BGS)	PID (ppm)	Benzene ug/kg	Total BTEX ug/kg	DRO >C12-C35 mg/kg	GRO C8-C12 mg/kg	TPH (C8-C35) mg/kg	Chloride mg/kg
BH-1	4/23/2002	1	2.1	---	---	---	---	---	115.00
BH-1	4/23/2002	5	7.4	---	---	---	---	---	222.00
BH-1	4/23/2002	10	7.1	---	---	---	---	---	142.00
BH-1	4/23/2002	15	7.1	---	---	---	---	---	44.30
BH-1	4/23/2002	20	6.9	---	---	---	---	---	53.20
BH-1	4/23/2002	50	6.8	---	---	---	---	---	35.40
BH-2	4/23/2002	1	9.6	---	---	---	---	---	1330.00
BH-2	4/23/2002	5	8.3	---	---	---	---	---	25.30
BH-2	4/23/2002	10	7.9	---	---	---	---	---	17.70
BH-2	4/23/2002	15	8	---	---	---	---	---	26.60
BH-2	4/23/2002	20	8.4	---	---	---	---	---	17.70
BH-2	4/24/2002	50	9	---	---	---	---	---	17.70
BH-3	4/24/2002	1	34.9	---	---	---	---	---	3860.00
BH-3	4/24/2002	5	15.5	---	---	---	---	---	12.70
BH-3	4/24/2002	10	15.1	---	---	---	---	---	27.30
BH-3	4/24/2002	15	15.6	---	---	---	---	---	25.30
BH-3	4/24/2002	20	12.8	---	---	---	---	---	44.30
BH-3	4/24/2002	40	16.4	---	---	---	---	---	17.70
BH-4	4/24/2002	1	1.4	---	---	---	---	---	860.00
BH-4	4/24/2002	5	1.6	---	---	---	---	---	35.40
BH-4	4/24/2002	10	1.6	---	---	---	---	---	17.70
BH-4	4/24/2002	15	1.5	---	---	---	---	---	17.70
BH-4	4/25/2002	40	46.1	---	---	---	---	---	25.00
BH-5	4/25/2002	1	48.5	---	---	---	---	---	4080.00
BH-5	4/25/2002	5	54.9	---	---	---	---	---	35.00
BH-5	4/25/2002	10	40.3	---	---	---	---	---	18.00
BH-5	4/25/2002	15	35.2	---	---	---	---	---	25.00
BH-5	4/25/2002	20	24.6	---	---	---	---	---	18.00
BH-5	4/25/2002	50	12	---	---	---	---	---	18.00

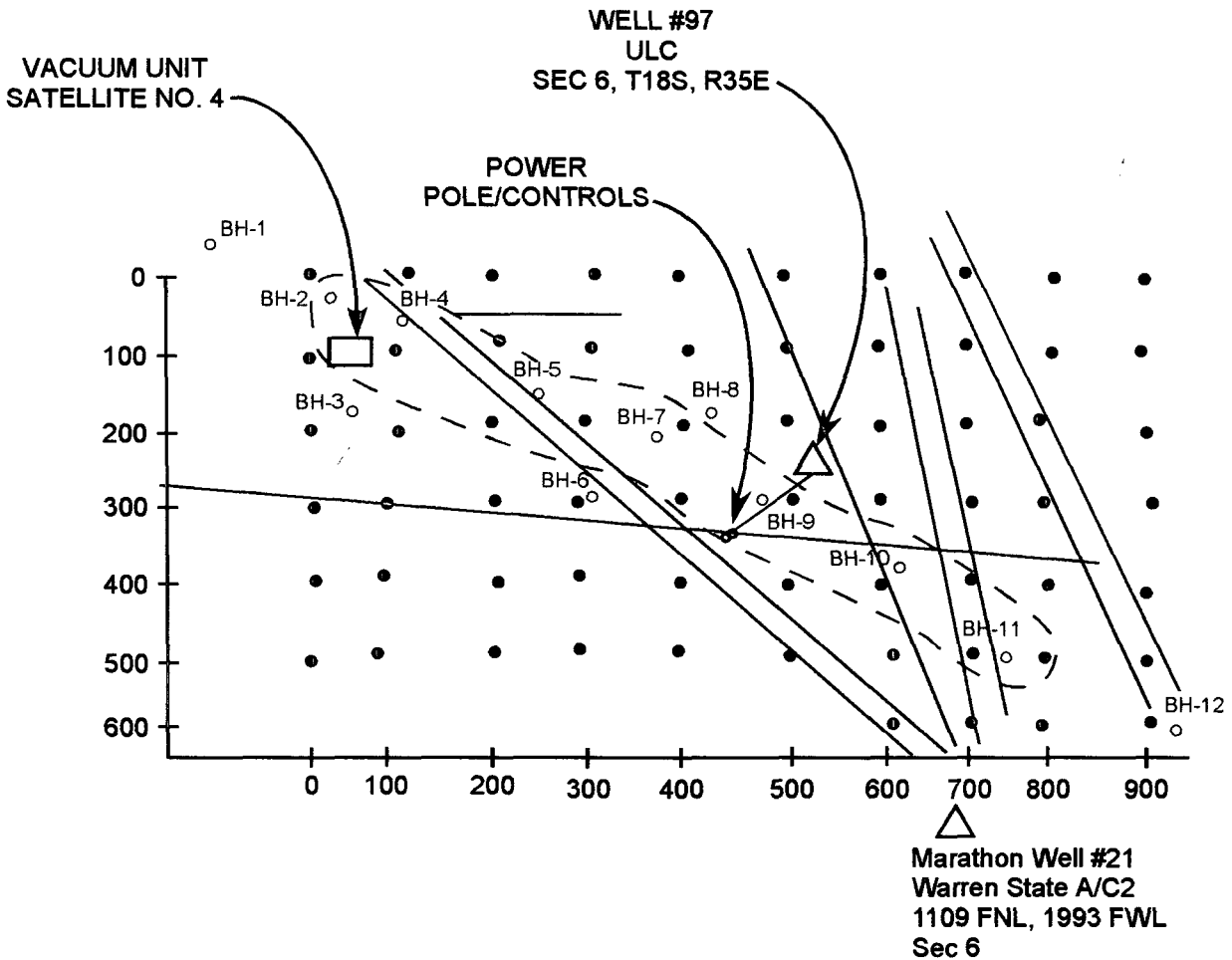
Borehole Number	Sample Date	Sample Depth (feet BGS)	PID (ppm)	Benzene ug/kg	Total BTEX ug/kg	DRO >C12-C35 mg/kg	GRO C6-C12 mg/kg	TPH (C8-C35) mg/kg	Chloride mg/kg
BH-6	4/25/2002	1	11.5	---	---	---	---	---	27.00
BH-6	4/25/2002	5	16.6	---	---	---	---	---	18.00
BH-6	4/25/2002	10	11.8	---	---	---	---	---	18.00
BH-6	4/25/2002	15	13.1	---	---	---	---	---	18.00
BH-6	4/25/2002	20	24.7	---	---	---	---	---	18.00
BH-6	4/26/2002	40	14.2	---	---	---	---	---	21.00
BH-7	4/29/2002	1	1999	<25.0	<25.0	<10.0	<10.0	<10.0	4320.00
BH-7	4/29/2002	5	1440	---	---	---	---	---	6380.00
BH-7	4/29/2002	10	297.4	---	---	---	---	---	2750.00
BH-7	4/29/2002	15	238.6	---	---	---	---	---	142.00
BH-7	4/29/2002	20	149.5	---	---	---	---	---	292.00
BH-7	4/29/2002	40	137.6	---	---	---	---	---	39.00
BH-7	4/29/2002	50	137.3	<25.0	<25.0	193.0	<10.0	193.0	186.00
BH-7	4/29/2002	60	33.1	---	---	---	---	---	18.00
BH-7	4/29/2002	100	64.3	<25.0	<25.0	<10.0	<10.0	<10.0	18.00
BH-7	4/29/2002	110	12.7	---	---	---	---	---	18.00
BH-8	4/26/2002	1	11.5	---	---	---	---	---	35.00
BH-8	4/26/2002	5	11.5	---	---	---	---	---	18.00
BH-8	4/26/2002	10	11.2	---	---	---	---	---	18.00
BH-8	4/26/2002	15	11.4	---	---	---	---	---	20.00
BH-8	4/26/2002	20	12.7	---	---	---	---	---	18.00
BH-8	4/26/2002	40	147	<25.0	<25.0	<10.0	<10.0	<10.0	19.00
BH-9	4/26/2002	1	44.8	---	---	---	---	---	19500.00
BH-9	4/26/2002	5	803.2	<25.0	<25.0	<10.0	<10.0	<10.0	118.00
BH-9	4/26/2002	10	646.8	---	---	---	---	---	55.00
BH-9	4/26/2002	15	192.2	---	---	---	---	---	18.00
BH-9	4/26/2002	20	182.9	---	---	---	---	---	18.00
BH-9	4/26/2002	50	310.1	<25.0	<25.0	<10.0	<10.0	<10.0	18.00
BH-10	4/30/2002	1	39.4	---	---	---	---	---	762.00
BH-10	4/30/2002	5	34.2	---	---	---	---	---	20.00
BH-10	4/30/2002	10	32.9	---	---	---	---	---	14.00
BH-10	4/30/2002	15	32.6	---	---	---	---	---	35.00
BH-10	4/30/2002	20	80.2	<25.0	<25.0	---	---	---	12.00
BH-10	4/30/2002	50	34.6	---	---	---	---	---	21.00

Borehole Number	Sample Date	Sample Depth (feet BGS)	PID (ppm)	Benzene ug/kg	Total BTEX ug/kg	DRO >C12-C35 mg/kg	GRO C8-C12 mg/kg	TPH (C8-C35) mg/kg	Chloride mg/kg
BH-11	4/30/2002	1	1999	---	---	---	---	---	142.00
BH-11	4/30/2002	5	1999	<25.0	<25.0	<10.0	<10.0	<10.0	7.00
BH-11	4/30/2002	10	1999	---	---	---	---	---	18.00
BH-11	4/30/2002	15	1999	---	---	---	---	---	19.00
BH-11	4/30/2002	20	1999	<25.0	<25.0	<10.0	<10.0	<10.0	19.00
BH-11	4/30/2002	40	1999	<25.0	<25.0	<10.0	<10.0	<10.0	18.00
BH-11	4/30/2002	50	1999	---	---	---	---	---	18.00
BH-12	5/1/2002	1	1190	<25.0	<25.0	<10.0	<10.0	<10.0	3460.00
BH-12	5/1/2002	5	29.5	---	---	---	---	---	762.00
BH-12	5/1/2002	10	162.9	<25.0	<25.0	89.9	<10.0	89.9	35.00
BH-12	5/1/2002	15	39.6	---	---	---	---	---	38.00
BH-12	5/1/2002	20	73.9	---	---	---	---	---	51.00
BH-12	5/1/2002	50	11.6	<25.0	<25.0	344.0	<10.0	344.0	18.00

Notes:

1. BGS: All analyses performed by Environmental Lab of Texas I, LTD., Midland, Texas
2. mg/kg: Depth in feet below ground surface
3. ug/kg: Concentration in milligrams per kilogram
4. <: Concentration in micrograms per kilogram
5. ---: Concentration below test method detection limit
No data available

FIGURES



LEGEND	
—	PIPELINE
—	OVERHEAD UTILITY
—	UNDERGROUND UTILITY
- - -	SPILL AREA
○	SOIL BORING LOCATIONS
●	EM SURVEY POINTS



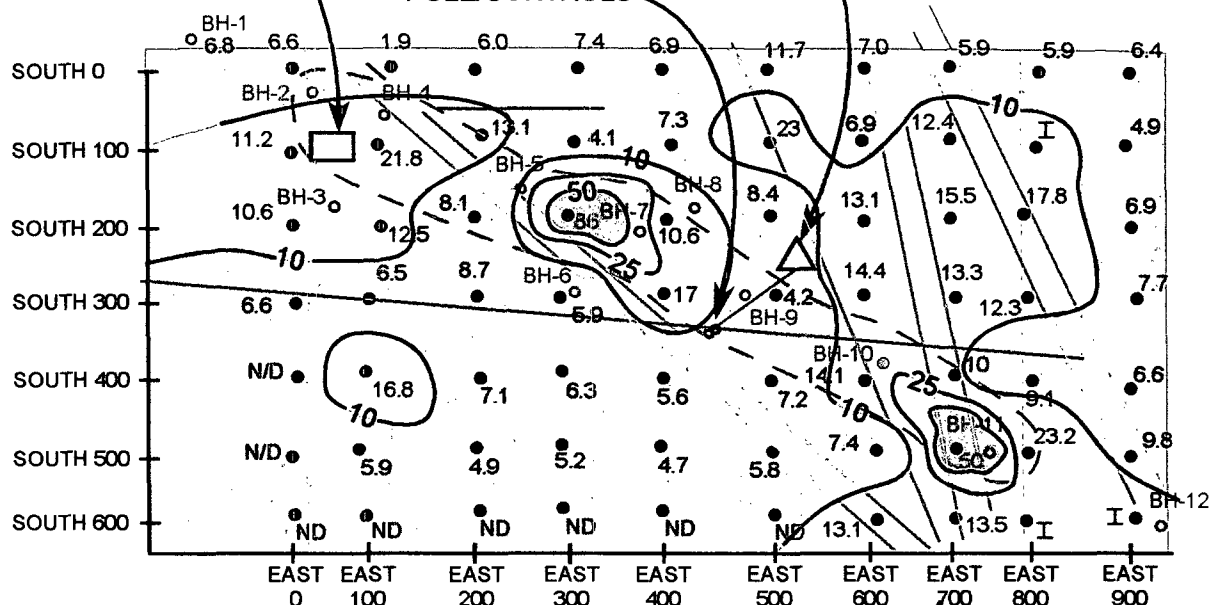
0 2500
Scale in Feet

DATE 6/14/02
NAME:
FILE:
02-0106

FIGURE #2
LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION and PRODUCTION INC.
VACUUM UNIT SATELLITE NO. 4
SITE DETAILS
ULF, SEC 6, T18S, R35E
Larson & Associates, Inc. Environmental Consultants

WELL #97
ULC
SEC 6, T18S, R35E

**POWER
POLE/CONTROLS**



**Marathon Well #21
Warren State A/C2
1109 FNL, 1993 FWL
Sec 6**

LEGEND

-  PIPELINE
 OVERHEAD UTILITY
 UNDERGROUND UTILITY
 SPILL AREA
 SOIL BORING LOCATION
 2X BACKGROUND (10-25)
 >3X BACKGROUND (25-50)
 >5X BACKGROUND (>50)
 BH-30
 4.9
 EM SURVEY POINT, and EM-34, 10-METER HD READING, MMHOS/M, MAY 2002
 25
 N/D NO DATA AVAILABLE



0 250'

Scale in Feet

FIGURE #3

LEA COUNTY, NEW MEXICO
**TEXACO EXPLORATION and
 PRODUCTION INC.**
 VACUUM UNIT SATELLITE NO. 4
**EM-34, 10-METER HD SURVEY
 (0 to 24.6 FEET)**

DATE: 6/14/02

NAME:

FILE

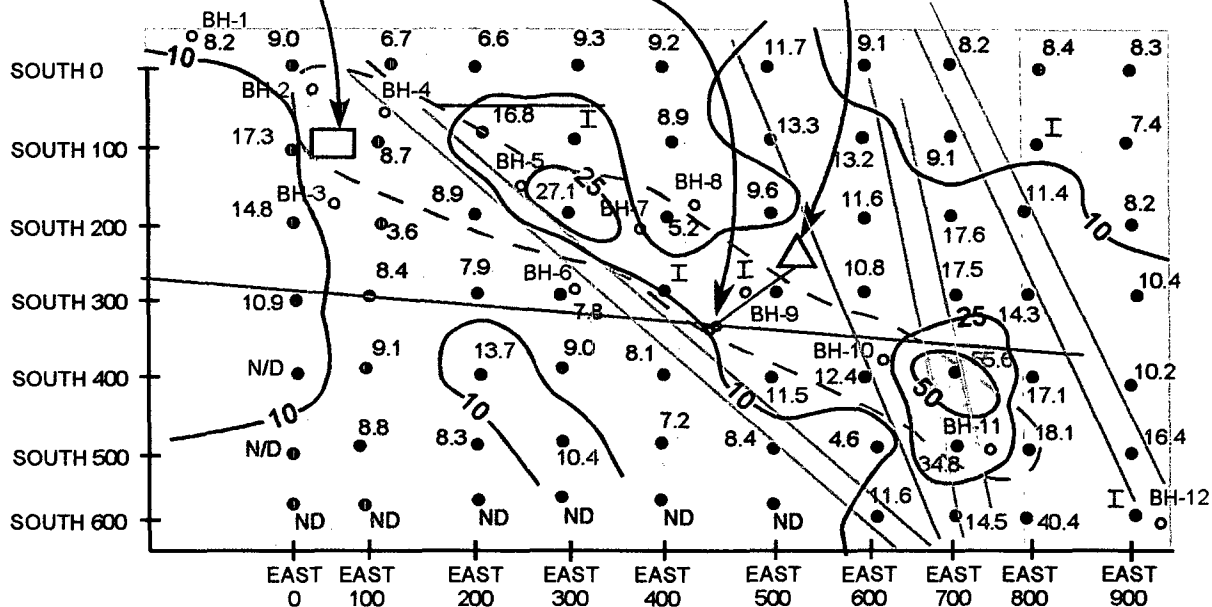
02-0106

Larson & Associates, Inc.
Environmental Consultants

VACUUM UNIT
SATELLITE NO. 4

WELL #97
ULC
SEC 6, T18S, R35E

POWER
POLE/CONTROLS



Marathon Well #21
Warren State A/C2
1109 FNL, 1993 FWL
Sec 6

LEGEND

- PIPELINE
- OVERHEAD UTILITY
- UNDERGROUND UTILITY
- (---) SPILL AREA
- BH-3 9.1 SOIL BORING LOCATION
- EM SURVEY POINT, and EM-34, 20-METER HD READING, MMHOS/M, MAY 2002
- 25 CONTOUR of EQUAL EM-34, 20-METER HD READINGS, MMHOS/M, MAY 2002
- N/D NO DATA AVAILABLE
- 2X BACKGROUND (10-25)
- 3X BACKGROUND (25-50)
- 75X BACKGROUND (>50)



0 250'
Scale in Feet

FIGURE #4

LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION and
PRODUCTION INC.
VACUUM UNIT SATELLITE NO. 4
EM-34, 20 -METER HD SURVEY
(0 to 49.2 FEET)

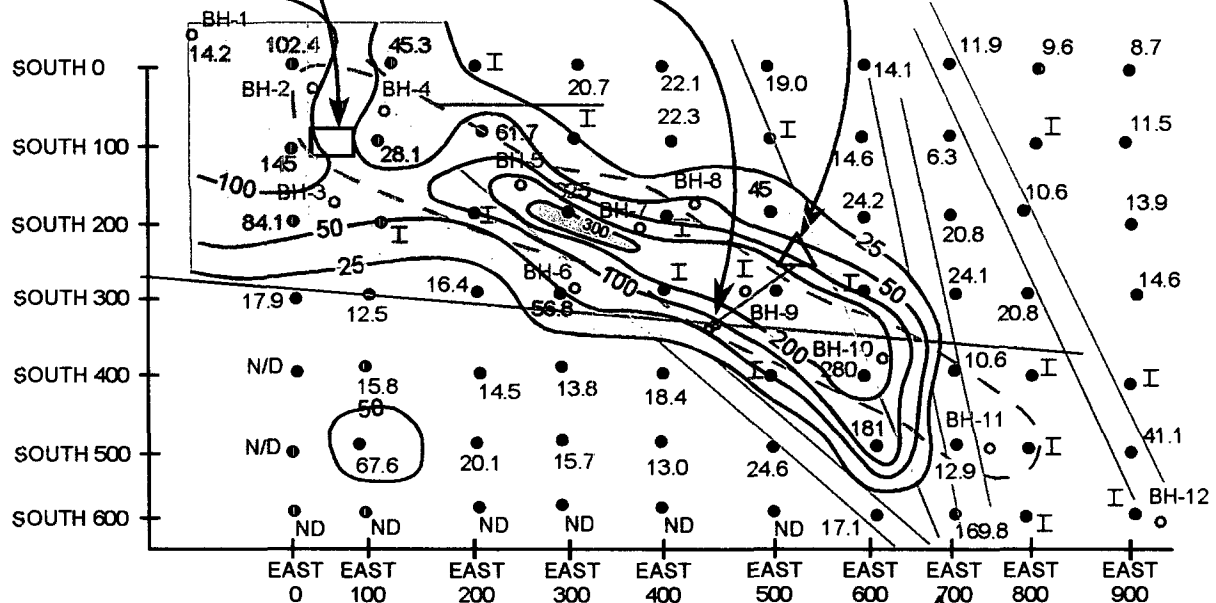
DATE: 6/14/02
NAME:
FILE:
02-0106

Larson &
Associates, Inc.
Environmental Consultants

VACUUM UNIT
SATELLITE NO. 4

WELL #97
ULC
SEC 6, T18S, R35E

POWER
POLE/CONTROLS



Marathon Well #21
Warren State A/C2
1109 FNL, 1993 FWL
Sec 6

LEGEND

- PIPELINE
- OVERHEAD UTILITY
- UNDERGROUND UTILITY
- SPILL AREA
- BH-3 15.8 SOIL BORING LOCATION
- EM SURVEY POINT, and EM-34, 20-METER VD READING, MMHOS/M, MAY 2002
- 100 CONTOUR of EQUAL EM-34, 20-METER VD READINGS, MMHOS/M, MAY 2002
- N/D NO DATA AVAILABLE
- 2X BACKGROUND (25-50)
- 3X BACKGROUND (50-100)
- >7X BACKGROUND (100-200)
- >14X BACKGROUND (200-300)
- >20X BACKGROUND

FIGURE #5

LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION and
PRODUCTION INC.
VACUUM UNIT SATELLITE NO. 4
EM-34, 20 -METER VD SURVEY
(0 to 98.4 FEET)

DATE: 6/14/02
NAME:
FILE: 02-0106

Larson &
Associates, Inc.
Environmental Consultants

APPENDIX A

NMOCD Correspondence



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery

Director
Oil Conservation Division

March 26, 2002

ChevronTexaco
Attn: Rodney Bailey
POB 1150
Midland, Texas 79702

Re: Closure Plan Denial - Second Notice
Vacuum Gloretta West Unit Satellite #4
UL-F, Sec. 6 T18S-R35E.

Dear Mr. Bailey:

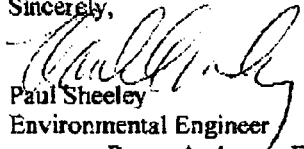
The New Mexico Oil Conservation Division (OCD) hereby denies your closure plan proposal dated February 22, 2002. Horizontal and vertical delineation in a 36,000 square foot surface area from a 400-barrel release needs more than two data points for an accurate three-dimensional picture of contamination.

ChevronTexaco shall submit a modified remediation plan by April 10, 2002 that includes the following:

1. ChevronTexaco shall propose a soil remediation level demonstrating that remaining chloride contamination will not cause an exceedance of the New Mexico Water Quality Control Commission (WQCC) groundwater standard of 250 mg/L [Chloride].
2. ChevronTexaco shall include copies of stated OCD "agreed" to documentation.
3. ChevronTexaco shall adhere to EPA guidelines including quality assurance and quality control in the sampling plan.
4. ChevronTexaco shall notify the OCD at least 48 hours in advance of any sampling event.

Please include a signature in all correspondences. If you have any questions or need any assistance please feel free to contact me at (505) 393-6161 x113 or email psheeley@state.nm.us

Sincerely,


Paul Sheeley

Environmental Engineer

cc: Roger Anderson-Environmental Bureau Chief
Chris Williams-District I Supervisor
Bill Olson- OCD Hydrologist
Larry Johnson - Environmental Engineer

APPENDIX B
Soil Boring Logs

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-1

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
						5 10 15	
0		Ground Surface					
1		Silty Sand 7.5 YR 3/2, dark brown quartz sand, very fine grained, poorly sorted, loose.	1			2.1	1' BGS - Chloride: 115
5		Silty Sand 10 YR 7/3, very pale brown quartz sand, very fine grained, very poorly sorted, loose.	2			7.4	5' BGS - Chloride: 222
10			3			7.1	10' BGS - Chloride: 142
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	4			7.1	15' BGS - Chloride: 44.3
20			5			6.9	20' BGS - Chloride: 53.2
25							
30			6			7.4	
35							
40			7				
45							
50			8			6.8	50' BGS - Chloride: 35.4
52		TD: 52'					
55							
60							
65							
70							
75							

Chloride concentrations
measured in mg/kg

Drilling Method: Air Rotary

Date Drilled: 4/23/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-2

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface				9.6	
5		Silty Sand 7.5 YR 3/2, dark brown quartz sand, very fine grained, poorly sorted, loose.	1	II		8.3	1' BGS - Chloride: 1,330
10		Silty Sand 10 YR 7/3, very pale brown quartz sand, very fine grained, poorly sorted, medium density.	2	II		7.9	5' BGS - Chloride: 25.3
15		Silty Sand 7.5 YR 7/3, pink quartz sand, very fine grained, poorly sorted, medium density..	3	II		8.0	10' BGS - Chloride: 17.7
20			4	II		8.4	15' BGS - Chloride: 26.6
25		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	5	II		8.7	20' BGS - Chloride: 17.7
30		Sand 5 YR 6/3, light reddish brown quartz sand, very fine grained, moderately well sorted, loose.	6	II		9.1	
35			7	II		9.0	
40							
45							
50			8	II			50' BGS - Chloride: 17.7
55		TD: 52'					
60							
65							
70							
75							

Chloride concentrations measured in mg/kg

Drilling Method: Air Rotary

Date Drilled: 4/23 and 4/24/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-3

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown quartz sand, very fine grained, poorly sorted, loose.	1	II		34.9	1' BGS - Chloride: 3,860
5		Silty Sand 7.5 YR 7/3, pink quartz sand, very fine grained, poorly sorted, medium density.	2	II		15.5	5' BGS - Chloride: 12.7
10			3	II		15.1	10' BGS - Chloride: 27.3
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	4	II		15.6	15' BGS - Chloride: 25.3
20			5	II		12.8	20' BGS - Chloride: 44.3
25							
30		Sandstone 10 YR 7/1, light gray quartz sandstone, fine grained, well sorted, dense.	6	II		16.5	
35							
40		Sand 5 YR 7/6, reddish yellow quartz sand, fine grained, well sorted, loose.	7	II		16.4	40' BGS - Chloride: 17.7
45		Sandstone 5 YR 8/1, white, very fine grained, very poorly sorted, very dense.					
50		TD: 50'	8	II			
55							
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/24/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-4

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown quartz sand, very fine grained, poorly sorted, loose.	1			1.4	1' BGS - Chloride: 860
5		Silty Sand 7.5 YR 7/3, pink, very fine grained, very poorly sorted, medium density.	2			1.6	5' BGS - Chloride: 35.4
10			3			1.6	10' BGS - Chloride: 17.7
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	4			1.5	15' BGS - Chloride: 17.7
20			5				
25							
30			6				
35		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.	7			16.4	
40			8			46.1	40' BGS - Chloride: 25.0
45							
50		Sandstone 5 YR 8/1, white, very fine grained, very poorly sorted, very dense.					
55		TD: 50'					
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/24 and 4/25/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-5

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1			48.5	1' BGS - Chloride: 4,080
5		Silty Sand 7.5 YR 7/3, pink, 20% silt, very fine grained, very poorly sorted, dense.	2			54.9	5' BGS - Chloride: 35
10			3			40.3	10' BGS - Chloride: 18
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	4			35.2	15' BGS - Chloride: 25
20			5			24.6	20' BGS - Chloride: 18
25							
30		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.	6			18.2	
35							
40			7			15.5	
45							
50			8			12.0	50' BGS - Chloride: 18
55		TD: 51'					
60							
65							
70							
75							

Chloride concentrations measured in mg/kg

Drilling Method: Air Rotary

Date Drilled: 4/25/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Mariefeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-6

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
5		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1	II		11.5	1' BGS - Chloride: 27
10		Silty Sand 7.5 YR 7/3, pink, 20% silt, very fine grained, very poorly sorted, dense.	2	II		16.6	5' BGS - Chloride: 18
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	3	II		11.8	10' BGS - Chloride: 18
20			4	II		13.1	15' BGS - Chloride: 18
25			5	II		24.7	20' BGS - Chloride: 18
30		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.	6	II		27.4	
35							
40			7	II		14.2	40' BGS - Chloride: 21
45							
50		Sandstone 5 YR 8/1, white, very fine grained, very poorly sorted, very dense.	8	II			
55		TD: 50'					
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/25 and 4/26/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-7

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface				>1000.0	1' BGS - Chloride: 4,320
5		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.				>1000.0	5' BGS - Chloride: 6,380
10		Clayey Silt 7.5 YR 8/2, pinkish white, 30 % clay, very fine grained, poorly sorted, loose.				297.4	10' BGS - Chloride: 2,750
15						238.6	15' BGS - Chloride: 142
20						149.5	20' BGS - Chloride: 292
25		Caliche 5 Y 8/1, white, very poorly sorted, very dense.				237.2	
30							
35		Silty Sand 7.5 YR 6/3, light brown, very fine grained, well sorted, loose.				137.6	40' BGS - Chloride: 39
40							
45		Sandstone 7.5 YR 6/3, light brown, very fine grained, well sorted, dense.				137.3	50' BGS - Chloride: 186
50							
55		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose, moist at 110'.				33.1	60' BGS - Chloride: 18
60						37.6	
65						45.0	
70						17.8	
75							
80						64.3	100' BGS - Chloride: 18
85							
90						12.7	110' BGS - Chloride: 18
95							
100							
105							
110		TD: 111'					Chloride concentrations measured in mg/kg
115							
120							
125							
130							

Drilling Method: Air Rotary

Date Drilled: 4/29/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-8

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1			11.5	1' BGS - Chloride: 35
5		Silty Sand 7.5 YR 7/3, pink, 20% silt, very fine grained, very poorly sorted, dense.	2			11.5	5' BGS - Chloride: 18
10			3			11.2	10' BGS - Chloride: 18
15		Caliche 5 Y 8/1, white, very poorly sorted, dense.	4			11.4	15' BGS - Chloride: 20
20			5			12.7	20' BGS - Chloride: 18
25		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.					
30			6			16.4	
35							
40			7				40' BGS - Chloride: 19
45							
50		Sandstone 5 YR 8/1, white, very fine grained, very poorly sorted, very dense.	8				
55		TD: 50'					
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/26/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-9

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface				44.8	
0		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1				1' BGS - Chloride: 19,500
5		Clayey Silt 7.5 YR 8/2, pinkish white, 30% clay, very fine grained, poorly sorted, loose.	2			803.2	5' BGS - Chloride: 118
10			3			646.8	10' BGS - Chloride: 55
15		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	4			192.2	15' BGS - Chloride: 18
20			5			182.9	20' BGS - Chloride: 18
25		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.					
30			6			96.7	
35							
40			7			235.9	
45							
50			8			310.1	50' BGS - Chloride: 18
51		TD: 51'					
55							
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/26/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-10

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface				39.4	
5		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1	II		34.2	1' BGS - Chloride: 762
10		Clayey Silt 7.5 YR 8/2, pinkish white, 30% clay, very fine grained, poorly sorted, loose.	2	II		32.9	5' BGS - Chloride: 20
15		Sandstone 5 YR 6/3, light reddish brown, very fine grained, very poorly sorted, dense.	3	II		32.6	10' BGS - Chloride: 14
20		Silty Sand 7.5 YR 6/3, light brown, very fine grained, poorly sorted, loose.	4	II		80.2	15' BGS - Chloride: 35
25		Sandstone 7.5 YR 6/3, light brown, very fine grained, well sorted, very dense.	5	II		36.8	20' BGS - Chloride: 12
30			6	II		46.5	
35		Silty Sand 7.5 YR 7/6, reddish yellow, very fine grained, well sorted, loose.	7	II		34.6	
40			8	II			50' BGS - Chloride: 21
45							
50							
55		TD: 51'					
60							
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 4/30/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Chloride concentrations
measured in mg/kg

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-11

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1	II		1999.0	1' BGS - Chloride: 142
5		Caliche 5 Y 8/1, white, very poorly sorted, very dense.	2	II		1999.0	5' BGS - Chloride: 7
10			3	II		1999.0	10' BGS - Chloride: 18
15		Silty Sand 7.5 YR 6/3, light brown, very fine grained, moderately well sorted, loose.	4	II		1999.0	15' BGS - Chloride: 19
20			5	II		1999.0	20' BGS - Chloride: 19
25							
30			6	II		1999.0	
35							
40			7	II		1999.0	40' BGS - Chloride: 18
45							
50		TD: 51'	8	II		17.5	50' BGS - Chloride: 18
55							
60							
65							
70							
75							

Chloride concentrations
measured in mg/kg

Drilling Method: Air Rotary

Date Drilled: 4/30/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

Client: Texaco

Project: Vacuum Unit Satellite No. 4

Project No: 2-0106

Location: Buckeye, New Mexico

Log of Borehole: BH-12

Geologist: Cindy K. Crain

Page: 1 of 1

SUBSURFACE PROFILE			SAMPLE			PID Measurement (PPM)	Lab Analysis
Depth	Symbol	Description	Number	Type	Recovery		
						250 500 750 1250	
0		Ground Surface					
0		Silty Sand 7.5 YR 3/2, dark brown, very fine grained, poorly sorted, loose.	1	II		1190.0	1' BGS - Chloride: 3,460
5		Caliche 5 Y8/1, white, very poorly sorted, very dense.	2	II		29.5	5' BGS - Chloride: 762
10			3	II		162.9	10' BGS - Chloride: 35
15		Silty Sand 7.5 YR 6/3, light brown, very fine grained, poorly sorted, loose.	4	II		39.6	15' BGS - Chloride: 38
20			5	II		73.9	20' BGS - Chloride: 51
25							
30			6	II		55.1	
35							
40			7	II		92.0	
45							
50			8	II		11.6	50' BGS - Chloride: 18
52		TD: 52'					
55							
60							Chloride concentrations measured in mg/kg
65							
70							
75							

Drilling Method: Air Rotary

Date Drilled: 5/1/02

Hole Size: 8-inch

Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(915) 687-0901

Checked by: CKC

Drilled by: ETGI

APPENDIX C

Laboratory Reports

ANALYTICAL REPORT

Prepared for:

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Texaco- Vacuum Unit
Order#: G0203173
Report Date: 04/26/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time	Date / Time	Container	Preservative
			Collected	Received		
0203173-01	BH-1 (1')	SOIL	4/23/02 10:05	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-02	BH-1 (5')	SOIL	4/23/02 10:20	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-03	BH - 1 (10')	SOIL	4/23/02 10:28	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-04	BH-1 (15')	SOIL	4/23/02 10:50	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-05	BH-1 (20')	SOIL	4/23/02 11:05	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-06	BH-1 (50')	SOIL	4/23/02 14:10	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-07	BH-2 (1')	SOIL	4/23/02 15:10	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-08	BH-2 (5')	SOIL	4/23/02 15:50	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0203173-09	BH-2 (10')	SOIL	4/23/02 16:03	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-10	BH-2 (15')	SOIL	4/23/02 16:14	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-11	BH-2 (20')	SOIL	4/23/02 16:25	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-12	BH-2 (50')	SOIL	4/24/02 9:05	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-13	BH-3 (1')	SOIL	4/24/02 10:10	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-14	BH-3 (5')	SOIL	4/24/02 10:30	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-15	BH-3 (10')	SOIL	4/24/02 10:36	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-16	BH-3 (15')	SOIL	4/24/02 10:45	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0203173-17	BH-3 (20')	SOIL	4/24/02 10:55	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-18	BH-3 (40')	SOIL	4/24/02 12:10	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-19	BH-4 (1')	SOIL	4/24/02 14:00	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-20	BH-4 (5')	SOIL	4/24/02 14:20	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-21	BH-4 (10')	SOIL	4/24/02 14:30	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		
0203173-22	BH-4 (15')	SOIL	4/24/02 14:40	4/25/02 7:30	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -1C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203173-01

Sample ID: BH-1 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	115	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-02

Sample ID: BH-1 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	222	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-03

Sample ID: BH - 1 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	142	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-04

Sample ID: BH-1 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	44.3	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-05

Sample ID: BH-1 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	53.2	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-06

Sample ID: BH-1 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	35.4	mg/kg	1	10.0	9253	4/26/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 4

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203173-07
Sample ID: BH-2 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1330	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-08
Sample ID: BH-2 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	25.3	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-09
Sample ID: BH-2 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-10
Sample ID: BH-2 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	26.6	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-11
Sample ID: BH-2 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-12
Sample ID: BH-2 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203173-13
Sample ID: BH-3 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3860	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-14
Sample ID: BH-3 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	12.7	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-15
Sample ID: BH-3 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	27.3	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-16
Sample ID: BH-3 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	25.3	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-17
Sample ID: BH-3 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	44.3	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-18
Sample ID: BH-3 (40')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 3 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203173
Project: 2-0106
Project Name: Texaco- Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203173-19
Sample ID: BH-4 (1')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	860	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-20
Sample ID: BH-4 (5')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	35.4	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-21
Sample ID: BH-4 (10')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203173-22
Sample ID: BH-4 (15')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	17.7	mg/kg	1	10.0	9253	4/26/02	SB

Approval:

Raland K Tuttle
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

4-27-02
Date

RL = Reporting Limit N/A = Not Applicable

Page 4 of 4

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203173

BLANK							
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001412-01			<10.0		
Chloride-mg/kg		0001413-01			<10.0		
Chloride-mg/kg		0001414-01			<10.0		
MS							
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203120-01	691	500	1200	101.8%	
Chloride-mg/kg		0203173-18	17.7	500	523	101.1%	
Chloride-mg/kg		0203181-04	177	500	674	99.4%	
MSD							
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203120-01	691	500	1190	99.8%	0.8%
Chloride-mg/kg		0203173-18	17.7	500	523	101.1%	0.0%
Chloride-mg/kg		0203181-04	177	500	682	101.1%	1.2%
SRM							
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001412-04		5000	5050	101.1%	
Chloride-mg/kg		0001413-04		5000	5050	101.1%	
Chloride-mg/kg		0001414-04		5000	5050	101.1%	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Company Name

Larson and Associates Inc.

Company Address:

507 N. Marienfeld Suite 202

City/State/Zip:

Midland TX 79701

Telephone No:

Fax No: (915) 687-0456

Sampler Signature:

Curly Craine

Project Manager:

Lindy Crain

Company Name

Larson and Associates Inc.

Company Address:

507 N. Marienfeld Suite 202

City/State/Zip:

Midland TX 79701

Telephone No:

Fax No: (915) 687-0456

Sampler Signature:

Curly Craine

[illegible]

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain

Company Name Larson and Associates, Inc.

Company Address: 507 N. Marientfeld, Suite 202

City/State/Zip: Midland, TX 79701

Telephone No: (915) 687-0901

Sampler Signature:

Fax No: (915) 687-0456

Project Name: Texaco-Vacuum Unit

Project #: 2-0106

Project Loc: Buckeye, NM

PO#:[illegible]

Special Instructions:

Disinherited by:

Date _____

Time

Received by:

Date

Time

7. The Defendant's Motion for Summary Judgment is Denied.

Date _____

Time

100

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ANALYTICAL REPORT

Prepared for:

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Texaco-Vacuum Unit
Order#: G0203206
Report Date: 05/03/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0203206-01	BH-4 (40')	SOIL	4/25/02 9:15	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-02	BH-5 (1')	SOIL	4/25/02 10:10	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-03	BH-5 (5')	SOIL	4/25/02 10:40	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-04	BH-5 (10')	SOIL	4/25/02 11:00	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-05	BH-5 (15')	SOIL	4/25/02 11:10	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-06	BH-5 (20')	SOIL	4/25/02 11:25	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-07	BH-5 (50')	SOIL	4/25/02 12:56	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-08	BH-6 (1')	SOIL	4/25/02 13:54	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0203206-09	BH-6 (5')	SOIL	4/25/02 14:23	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-10	BH-6 (10')	SOIL	4/25/02 14:35	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-11	BH-6 (15')	SOIL	4/25/02 14:43	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-12	BH-6 (20')	SOIL	4/25/02 14:55	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-13	BH-6 (40')	SOIL	4/26/02 8:00	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-14	BH-8 (1')	SOIL	4/26/02 9:18	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-15	BH-8 (5')	SOIL	4/26/02 9:50	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-16	BH-8 (10')	SOIL	4/26/02 10:00	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

915-687-0456

Order#: G0203206

Project: 2-0106

Project Name: Texaco-Vacuum Unit

Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time	Date / Time	Container	Preservative
			Collected	Received		
0203206-17	BH-8 (15')	SOIL	4/26/02 10:10	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	Chloride					
0203206-18	BH-8 (20')	SOIL	4/26/02 10:22	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	Chloride					
0203206-19	BH-8 (40')	SOIL	4/26/02 11:20	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0203206-20	BH-9 (1')	SOIL	4/26/02 12:59	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	Chloride					
0203206-21	BH-9 (5')	SOIL	4/26/02 13:15	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0203206-22	BH-9 (10')	SOIL	4/26/02 13:21	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	Chloride					
0203206-23	BH-9 (15')	SOIL	4/26/02 13:29	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8.5 C		
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203206-24	BH-9 (20')	SOIL	4/26/02 13:32	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 8.5 C		
0203206-25	BH-9 (50')	SOIL	4/26/02 15:10	4/27/02 13:45	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 8.5 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-19
Sample ID: BH-8 (40')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/1/02	1	1	CK	8015m

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10.0	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001533-02		5/1/02 23:19	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203206-21
Sample ID: BH-9 (5')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/1/02	1	1	CK	8015m

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10.0	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-21
Sample ID: BH-9 (5')

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001533-02		5/1/02 23:40	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203206-25
Sample ID: BH-9 (50')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		5/1/02	1	1	CK	8015m

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10.0	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-25
Sample ID: BH-9 (50')

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0001533-02		5/1/02 0:02	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval:

Roland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

5-5-02

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-01
Sample ID: BH-4 (40')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	25.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-02
Sample ID: BH-5 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4080	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-03
Sample ID: BH-5 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	35.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-04
Sample ID: BH-5 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-05
Sample ID: BH-5 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	25.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-06
Sample ID: BH-5 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 5

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-07
Sample ID: BH-5 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-08
Sample ID: BH-6 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	27.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-09
Sample ID: BH-6 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-10
Sample ID: BH-6 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-11
Sample ID: BH-6 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-12
Sample ID: BH-6 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-13
Sample ID: BH-6 (40')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	21.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-14
Sample ID: BH-8 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	35.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-15
Sample ID: BH-8 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-16
Sample ID: BH-8 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-17
Sample ID: BH-8 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	20.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-18
Sample ID: BH-8 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 3 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-19
Sample ID: BH-8 (40')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	19.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-20
Sample ID: BH-9 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	19500	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-21
Sample ID: BH-9 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	118	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-22
Sample ID: BH-9 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	55.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-23
Sample ID: BH-9 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203206-24
Sample ID: BH-9 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 4 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203206
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203206-25
Sample ID: BH-9 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Approval:

Raland K. Tuttle 5-5-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203206

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001527-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001527-03		952	1080	113.4%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001527-04		952	1080	113.4%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001527-05		1000	1180	118.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203206

BLANK						
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/kg		0001533-02			<25.0	
Ethylbenzene-µg/kg		0001533-02			<25.0	
Toluene-µg/kg		0001533-02			<25.0	
p/m-Xylene-µg/kg		0001533-02			<25.0	
o-Xylene-µg/kg		0001533-02			<25.0	
MS						
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/kg		0203239-02	0	100	87.4	87.4%
Ethylbenzene-µg/kg		0203239-02	0	100	87.2	87.2%
Toluene-µg/kg		0203239-02	0	100	86.6	86.6%
p/m-Xylene-µg/kg		0203239-02	0	200	184	92.0%
o-Xylene-µg/kg		0203239-02	0	100	89.4	89.4%
MSD						
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/kg		0203239-02	0	100	98.5	98.5%
Ethylbenzene-µg/kg		0203239-02	0	100	99.6	99.6%
Toluene-µg/kg		0203239-02	0	100	98.4	98.4%
p/m-Xylene-µg/kg		0203239-02	0	200	208	104.0%
o-Xylene-µg/kg		0203239-02	0	100	101	101.0%
SRM						
	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-µg/kg		0001533-05		100	93.9	93.9%
Ethylbenzene-µg/kg		0001533-05		100	94.3	94.3%
Toluene-µg/kg		0001533-05		100	94.2	94.2%
p/m-Xylene-µg/kg		0001533-05		200	197	98.5%
o-Xylene-µg/kg		0001533-05		100	94.8	94.8%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203206

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001559-01			<5.00		
Chloride-mg/kg		0001560-01			<5.00		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203206-01	25	714	747	101.1%	
Chloride-mg/kg		0203206-23	18	500	523	101.1%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203206-01	25	714	747	101.1%	0.0%
Chloride-mg/kg		0203206-23	18	500	523	101.1%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001559-04		5000	5050	101.1%	
Chloride-mg/kg		0001560-04		5000	5050	101.1%	

ANALYTICAL REPORT

Prepared for:

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Texaco Vacuum Unit

Order#: G0203241

Report Date: 05/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0203241-01	BH- 7 (1')	SOIL	4/29/02 9:35	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: -.5C		
0203241-02	BH- 7 (5')	SOIL	4/29/02 9:50	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-03	BH-7 (10')	SOIL	4/29/02 10:32	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-04	BH- 7 (15')	SOIL	4/29/02 10:45	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-05	BH- 7 (20')	SOIL	4/29/02 11:05	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-06	BH- 7 (40')	SOIL	4/29/02 12:19	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-07	BH- 7 (60')	SOIL	4/29/02 12:55	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-08	BH- 7 (50')	SOIL	4/29/02 12:40	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp: -.5C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8021B/5030 BTEX Chloride					
0203241-09	BH- 7 (100')	SOIL	4/29/02 14:30	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: -.5C		
0203241-10	BH- 7 (110')	SOIL	4/29/02 14:40	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-11	BH- 10 (1')	SOIL	4/30/02 8:20	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-12	BH- 10 (5')	SOIL	4/30/02 8:53	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-13	BH- 10 (10')	SOIL	4/30/02 9:00	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-14	BH- 10 (15')	SOIL	4/30/02 9:10	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-15	BH- 10 (20')	SOIL	4/30/02 9:20	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8021B/5030 BTEX Chloride	Rejected: No		Temp: -.5C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0203241-16	BH- 10 (50')	SOIL	4/30/02 11:28	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-17	BH- 11 (1')	SOIL	4/30/02 13:00	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-18	BH- 11 (5')	SOIL	4/30/02 13:10	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: -.5C		
0203241-19	BH- 11 (10')	SOIL	4/30/02 13:21	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-20	BH- 11 (15')	SOIL	4/30/02 13:35	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		
0203241-27	BH- 11 (20')	SOIL	4/30/02 13:45	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: -.5C		
0203241-28	BH- 11 (50')	SOIL	4/30/02 14:40	4/30/02 18:05	4 oz Glass	ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: -.5C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0203241-30	BH- 11 (40')	SOIL	4/30/02 14:20	4/30/02 18:05	4 oz Glass	ice
<u>Lab Testing:</u>		Rejected: No	Temp: -.5C			
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-01
Sample ID: BH- 7 (1')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	< 10.0	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001533-02		5/1/02 14:14	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203241-08
Sample ID: BH- 7 (50')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	193	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	193	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-08
Sample ID: BH- 7 (50')

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001533-02		5/1/02 14:36	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203241-09
Sample ID: BH- 7 (100 ')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	< 10.0	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-09
Sample ID: BH- 7 (100 ')

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001533-02		5/1/02 14:58	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203241-15
Sample ID: BH- 10 (20 ')

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001533-02		5/1/02 15:20	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-18
Sample ID: BH- 11 (5')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	< 10.0	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001533-02		5/1/02 15:42	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203241-27
Sample ID: BH- 11 (20')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	< 10.0	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-27
Sample ID: BH- 11 (20 ')

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001533-02		5/1/02 16:04	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203241-30
Sample ID: BH- 11 (40 ')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	< 10.0	10.0
GRO, C6-C12	< 10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-30
Sample ID: BH- 11 (40')

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001533-02		5/1/02 20:05	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

Raland K. Tuttle 5-5-02

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-01
Sample ID: BH- 7 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4320	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-02
Sample ID: BH- 7 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	6380	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-03
Sample ID: BH-7 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2750	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-04
Sample ID: BH- 7 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	142	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-05
Sample ID: BH- 7 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	292	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-06
Sample ID: BH- 7 (40')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	39.0	mg/kg	1	10	9253	5/3/02	SB

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-07
Sample ID: BH- 7 (60')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-08
Sample ID: BH- 7 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	186	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-09
Sample ID: BH- 7 (100 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-10
Sample ID: BH- 7 (110')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-11
Sample ID: BH- 10 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	762	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-12
Sample ID: BH- 10 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	20.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-07
Sample ID: BH- 7 (60')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-08
Sample ID: BH- 7 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	186	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-09
Sample ID: BH- 7 (100 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-10
Sample ID: BH- 7 (110')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-11
Sample ID: BH- 10 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	762	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-12
Sample ID: BH- 10 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	20.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 2 of 4

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203241
Project: 2-0106
Project Name: Texaco Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203241-19
Sample ID: BH- 11 (10 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-20
Sample ID: BH- 11 (15 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	19.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-27
Sample ID: BH- 11 (20 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	19.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-28
Sample ID: BH- 11 (50 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203241-30
Sample ID: BH- 11 (40 ')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

Approval:

Raland K. Tuttle 5-5-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

RL = Reporting Limit N/A = Not Applicable

Page 4 of 4

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203241

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001580-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203241-01	0	952	1040	109.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203241-01	0	952	1010	106.1%	2.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001580-05		1000	1129	112.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203241

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001533-02			<25.0		
Ethylbenzene-µg/kg		0001533-02			<25.0		
Toluene-µg/kg		0001533-02			<25.0		
p/m-Xylene-µg/kg		0001533-02			<25.0		
o-Xylene-µg/kg		0001533-02			<25.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203239-02	0	100	87.4	87.4%	
Ethylbenzene-µg/kg		0203239-02	0	100	87.2	87.2%	
Toluene-µg/kg		0203239-02	0	100	86.6	86.6%	
p/m-Xylene-µg/kg		0203239-02	0	200	184	92.2%	
o-Xylene-µg/kg		0203239-02	0	100	89.4	89.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203239-02	0	100	98.5	98.5%	11.9%
Ethylbenzene-µg/kg		0203239-02	0	100	99.6	99.6%	13.3%
Toluene-µg/kg		0203239-02	0	100	98.4	98.4%	12.8%
p/m-Xylene-µg/kg		0203239-02	0	200	208	104.0%	12.2%
o-Xylene-µg/kg		0203239-02	0	100	101	101.0%	12.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001533-05		100	93.9	93.9%	
Ethylbenzene-µg/kg		0001533-05		100	94.3	94.3%	
Toluene-µg/kg		0001533-05		100	94.2	94.2%	
p/m-Xylene-µg/kg		0001533-05		200	197	98.5%	
o-Xylene-µg/kg		0001533-05		100	94.8	94.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203241

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001560-01			<5.00		
Chloride-mg/kg		0001561-01			<5.00		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203206-23	18	500	523	101.0%	
Chloride-mg/kg		0203241-14	35	500	541	101.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203206-23	18	500	523	101.0%	0.0%
Chloride-mg/kg		0203241-14	35	500	541	101.2%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001560-04		5000	5050	101.0%	
Chloride-mg/kg		0001561-04		5000	5050	101.0%	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain

Company Name Larson and Associates Inc.

Company Address: 507 N. Marienfeld Suite 202

City/State/Zip: Midland, TX 79701

Telephone No: (915) 687-0901

Fax No: (915) 687-0456

Sampler Signature: Cathy Larson

Project Name: Texaco Vacuum Unit

Project #: 2-0106

Project Loc: Buckeye, NM

PO #:

[illegible]

Special Instructions:

Relinquished by:

Acquired by: 

Date _____

Time

Received by:

Relinquished by:

Date _____

Time

Received by EL0T:

Lana Murray

Date _____

Time

Sample Containers Intact?

Temperature Upon Receipt:

Laboratory Comments:

250-

2 of 3

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Texaco Vacuum Unit

Project #: 2-0106

Project Loc: Buckeye, NM

PO#

Fax No: (915) 687-0456

Sampler Signature: Cathy Lewis

[illegible]

Special Instructions:

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

Relinquished By: *[Signature]*

Relinquished By:	Date	Time	Received by:

Relinquished by:

Received by EL0T:

Date _____

Time

1967

1967

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

20

Special Instructions:

Laboratory Comments:

ANALYTICAL REPORT

Prepared for:

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project: Texaco-Vacuum Unit
Order#: G0203259
Report Date: 05/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710
915-687-0456

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0203259-01	BH-12 (1')	SOIL	5/1/02 8:15	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 2.0 C		
0203259-02	BH-12 (5')	SOIL	5/1/02 9:27	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 2.0 C		
0203259-03	BH-12 (10')	SOIL	5/1/02 9:44	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 2.0 C		
0203259-04	BH-12 (15')	SOIL	5/1/02 9:55	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 2.0 C		
0203259-05	BH-12 (20')	SOIL	5/1/02 10:05	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 2.0 C		
0203259-06	BH-12 (50')	SOIL	5/1/02 11:08	5/2/02 11:30	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 2.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203259-01
Sample ID: BH-12 (1')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10.0	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001549-02		5/2/02 17:54	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203259-03
Sample ID: BH-12 (10')

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	89.9	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	89.9	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203259-03
Sample ID: BH-12 (10')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001549-02		5/2/02 18:16	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203259-06
Sample ID: BH-12 (50')

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		5/2/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	344	10.0
GRO, C6-C12	<10.0	10.0
TOTAL, C6-C35	344	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203259-06
Sample ID: BH-12 (50')

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0001549-02		5/2/02 18:38	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval: *Raland K. Tuttle* 5-7-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Lab ID: 0203259-01
Sample ID: BH-12 (1')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3460	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203259-02
Sample ID: BH-12 (5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	762	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203259-03
Sample ID: BH-12 (10')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	35.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203259-04
Sample ID: BH-12 (15')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	38.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203259-05
Sample ID: BH-12 (20')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	51.0	mg/kg	1	10	9253	5/3/02	SB

Lab ID: 0203259-06
Sample ID: BH-12 (50')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	18.0	mg/kg	1	10	9253	5/3/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203259
Project: 2-0106
Project Name: Texaco-Vacuum Unit
Location: Buckeye, NM

Approval: Raland K Tuttle 5-6-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203259

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001581-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203250-01	46.6	952	1117	112.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203250-01	46.6	952	1117	112.4%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001581-05		1000	899	89.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203259

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001549-02			<25.0		
Ethylbenzene-µg/kg		0001549-02			<25.0		
Toluene-µg/kg		0001549-02			<25.0		
p/m-Xylene-µg/kg		0001549-02			<25.0		
o-Xylene-µg/kg		0001549-02			<25.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203185-08	0	100	108	108.0%	
Ethylbenzene-µg/kg		0203185-08	0	100	110	110.0%	
Toluene-µg/kg		0203185-08	0	100	108	108.0%	
p/m-Xylene-µg/kg		0203185-08	0	200	230	115.0%	
o-Xylene-µg/kg		0203185-08	0	100	110	110.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203185-08	0	100	105	105.0%	2.8%
Ethylbenzene-µg/kg		0203185-08	0	100	107	107.0%	2.8%
Toluene-µg/kg		0203185-08	0	100	106	106.0%	1.9%
p/m-Xylene-µg/kg		0203185-08	0	200	225	112.5%	2.2%
o-Xylene-µg/kg		0203185-08	0	100	108	108.0%	1.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001549-05		100	104	104.0%	
Ethylbenzene-µg/kg		0001549-05		100	112	112.0%	
Toluene-µg/kg		0001549-05		100	105	105.0%	
p/m-Xylene-µg/kg		0001549-05		200	224	112.0%	
o-Xylene-µg/kg		0001549-05		100	112	112.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203259

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001561-01			<5.00		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203241-14	35	500	541	101.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203241-14	35	500	541	101.2%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001561-04		5000	5050	101.0%	

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain

Company Name Larson and Associates, Inc.

Company Address: 507 N. Mariefeld Suite 202

City/State/Zip: Midland TX 79701

Telephone No: (915) 687-0901

Fax No: (915) 687-0456

Sampler Signature: Cindy Crain

Project Name: Texaco - Vacuum Unit

Project #: 2-0106

Project Loc: Buckeye, NM

注：〇

[illegible]

Special Instructions:

* Hold for possible future analysis

Relinquished by:

Acquired by: *Eden Eden*

Time

Time

Received by:

Date

Time

Retiniquished by:

Acquired by:

Time

Time

Received by EL0T:

Date _____

Time

Sample Containers Intact?

Temperature Upon Receipt

Laboratory Comments:

200

APPENDIX D
EM Survey Field Sheets

Page 1 of 1

Date: 16-May-02

Start: 1345

Stop:

[illegible]

Notes:

Page 1 of 1

Date: 16-May-02

Start: 1403

Stop: 1420

[illegible]

Notes:

1. N/D: No Data Available
2. I: Interference

Profile: 100 East

Date: 22-May-02

Spacing (Ft): 100

Start: 0750

Direction: N - S

Stop:	0807
--------------	-------------

[illegible]

Notes:

1. N/D: No data available
2. I: Interference

Page 1 of 1

Date: 22-May-02

Start: 0824

Stop: 0841

[illegible]

Notes:

1. N/D: No data available
2. I: Interference

Page 1 of 1

Date: 22-May-02

Start: 0825

Stop: 0835

[illegible]

Notes:

1. N/D: No data available
2. I: Interference

Page 1 of 1

Date: 22-May-02

Start: 0840

Stop: 0850

[illegible]

Notes:

1. N/D: No data available
2. I: Interference

Page 1 of 1

Date: 22-May-02

Start: 0910

Stop: 0920

[illegible]

Notes:

1. N/D: No data available
2. I: Interference

Profile: 600 East

Date: 22-May-02

Spacing (Ft): 100

Start: 0927

Direction: S - N

Stop: 0937

[illegible]

Notes:

I: Interference

Page 1 of 1

Date: 22-May-02

Start: 1047

Stop: 1107

[illegible]

Notes:

Page 1 of 1

Date: 22-May-02

Start: 1125

Stop: 1225

[illegible]

Notes:

1. I: Interference

Page 1 of 1

Date: 22-May-02

Start:	1230
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Stop:	1245
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[illegible]

Notes:

1. I: Interference