Ocotillo
ENVIRONMENTAL
Dirt Work • On-Site Remediation • Soil Testing • Excavation

November 9, 2006

Mr. Larry Johnson
Environmental Engineer
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1625 N. French Drive
Hobbs, New Mexico 88240

**Re: Spill Remediation Workplan, Skelly Penrose #90, Unit Letter A (NE/4, NE/4), Section 9, Township 23 South, Range 37 East, Lea County, New Mexico (Latitude: N 32 deg. 19.524' / Longitude: W 103 deg. 09.515')**

Dear Mr. Johnson:

Cimarex Energy Company (Cimarex) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a pipeline spill located approximately 300 feet east of the Skelly Penrose #90 well. The well is located in the northeast quarter (NE/4) of the northeast quarter (NE/4), Section 9, Township 23 South, Range 37 East, Lea County, New Mexico (Site). Approximately 180 barrels of oil and water were released from the pipeline, and approximately 180 barrels were recovered from the site, located in the northwest quarter (NW/4) of the northwest quarter (NW/4), Section 10, Township 23 South, Range 37 East. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on August 17, 2006, a copy of which is attached as the final page of this report. Figure 1 shows the site location.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 66 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established RRALs for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("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 | 50 - 99 Feet | 10 |
| Wellhead Protection Area | No | 0 |
| Distance to Surface Water Body | >1000 Horizontal Feet | 0 |
| | | **Total: 10** |

The following RRALs have been assigned based on NMOCD criteria:

| | |
|---|---|
| **Benzene** | **10 mg/kg** |
| **Total BTEX** | **50 mg/kg** |
| **TPH** | **1,000 mg/kg** |


NEED 12.8.06
RP# ON 1012
ALL SUBMITTALS
SENT CC EMAIL -

P.O. Box 1816 • Hobbs, NM 88241
Office (505) 393-6371 • Fax (505) 393-6374

**Initial Investigation**

On September 27, 28 and 29, 2006, Ocotillo installed twenty-six soil borings (BH-1 through BH-26) at the site, using an air rotary drilling rig, to assess the horizontal and vertical limits of the spill. Samples from the exploratory borings were collected from ground surface to a depth of approximately twenty-seven feet below ground surface (bgs) in boring BH-1, to approximately twenty-two feet bgs in borings BH-2, BH-7, BH-12, to approximately seventeen feet bgs in borings BH-3 through BH-6, BH-8 through BH-10, BH-13 through BH-15, BH-17, and BH-18, to approximately forty-seven feet bgs in boring BH-11, and to approximately twelve feet bgs in borings BH-16, and borings BH-19 through BH-26, using a split spoon sampling device. The sampling equipment was thoroughly cleaned between soil boring locations with a solution of laboratory-grade detergent and potable water, and rinsed with distilled water. All soil borings were plugged with bentonite. Figure 2 shows the locations of the soil borings.

The soil samples from borings BH-1 through BH-26 were collected at the surface and every five (5) feet thereafter. 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, located in Odessa, Texas. A duplicate of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately ¾ full, and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace samples were allowed to reach ambient temperature before a BW Technologies GasAlertMicro 5 photoionization detector ("PID") was used to measure the concentration of organic vapors in the headspace of the sample jars. 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 PID readings are summarized in Table 1. Soil boring logs are included in Appendix A.

All soil samples collected from borings BH-1 through BH-26 were analyzed for chlorides by EPA method SW 846-9253. Selected samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 (extended) for GRO and DRO. If the PID reading exceeded 100 ppm, the sample was also analyzed for BTEX by method 8021B. Table 1 presents a summary of laboratory analysis of soil samples. Laboratory analyses and chain of custody documentation are included in Appendix B.

Referring to Table 1, soil samples collected from borings BH-1, BH-2, BH-4, BH-5, BH-7, BH-12, BH-13, BH-15, BH-17 and BH-18, reported TPH concentrations below the RRAL (1000 mg/kg) at the five to seven foot sample depth. Soil samples collected from borings BH-3, BH-6, BH-9, BH-10, BH-14, BH-16 and BH-19 through BH-26, reported TPH concentrations below the RRAL in all samples. Samples collected from borings BH-8 and BH-11 reported TPH concentrations below the RRAL at the ten to twelve foot sample depth.

**Proposed Remediation**

Cimarex proposes to conduct excavation of the impacted soil in the vicinity of borings BH-1 and BH-4 (to a depth of approximately 3' bgs), in the vicinity of boring BH-2 (to a depth of approximately 12' bgs), in the vicinity of boring BH-3, BH-13, BH-15, BH-17 and BH-20 (to a depth of approximately 20' bgs), in the vicinity of boring BH-5 (to a depth of approximately 10' bgs), in the vicinity of boring BH-7 (to a depth of approximately 13' bgs), in the vicinity of borings BH-8 and BH-9 (to a depth of approximately 8' bgs), in the vicinity of boring BH-11 (to a depth of approximately 27' bgs), in the vicinity of borings BH-12 and BH-14 (to a depth of approximately 25' bgs), in the vicinity of borings BH-16 and BH-21 (to a depth of approximately 7' bgs), and in the vicinity of boring BH-18 (to a depth of approximately 17' bgs), until analytical results of soil samples report TPH and chloride concentrations below the RRAL (1000 mg/kg). Excavated soil will be removed to an NMOCD approved disposal facility. Analytical results from final confirmation samples will be reported to the NMOCD prior to backfilling of the excavation. Figure 2 shows the boring locations and the approximate depth to which excavation will occur.

If you have any questions or need additional information, please call Mr. Hugo Naegele, Jr. at (505) 394-0613 or myself at (505) 441-7244. We may also be reached by email at hnaegele@cimarex.com or Cindy.Crain@gmail.com.

Sincerely,
***Ocotillo Environmental, LLC***

Cindy K. Crain

Cindy K. Crain, P.G.
Environmental Manager

# FIGURES

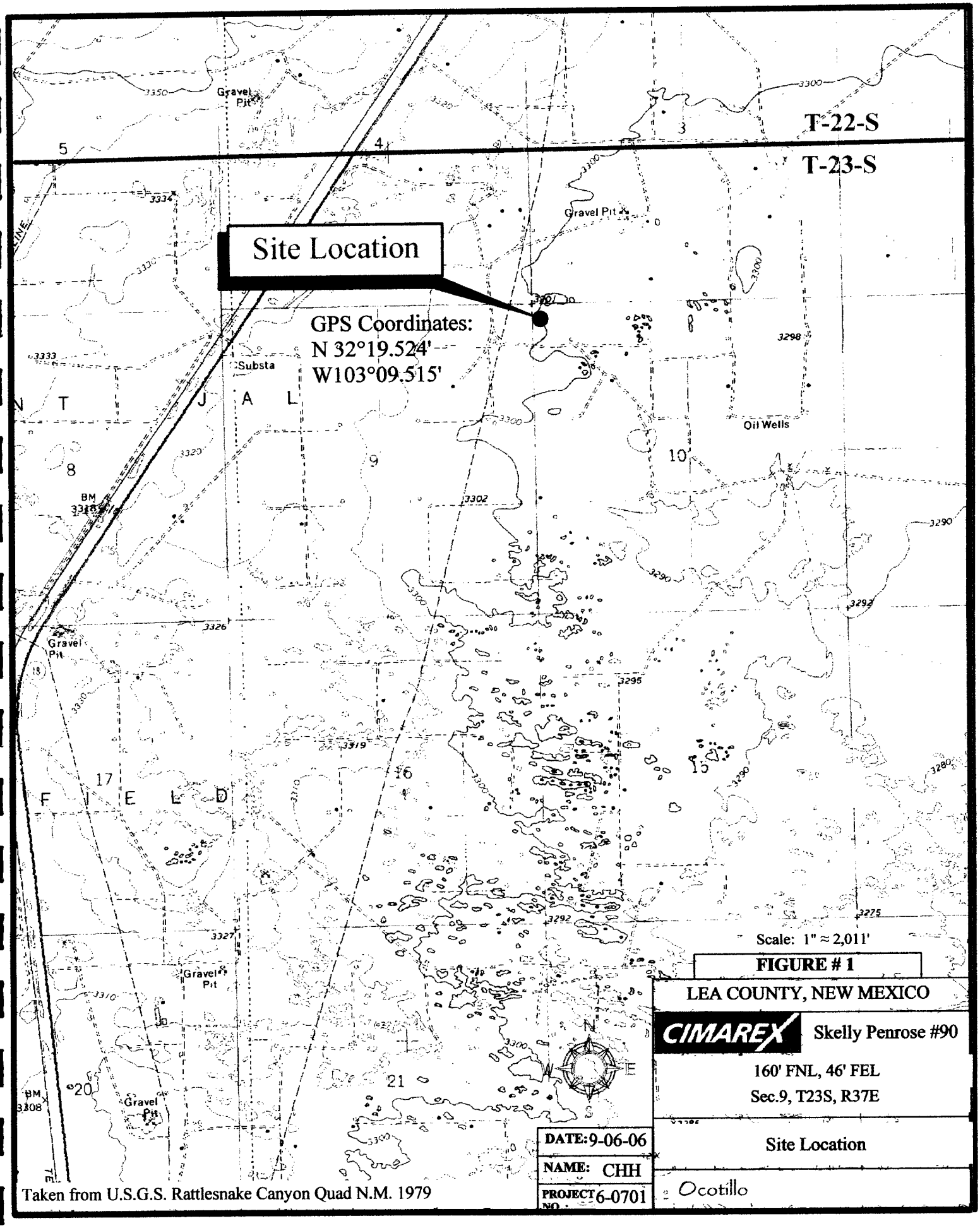



**FIGURE # 1**

LEA COUNTY, NEW MEXICO

CIMAREX — Skelly Penrose #90

160' FNL, 46' FEL

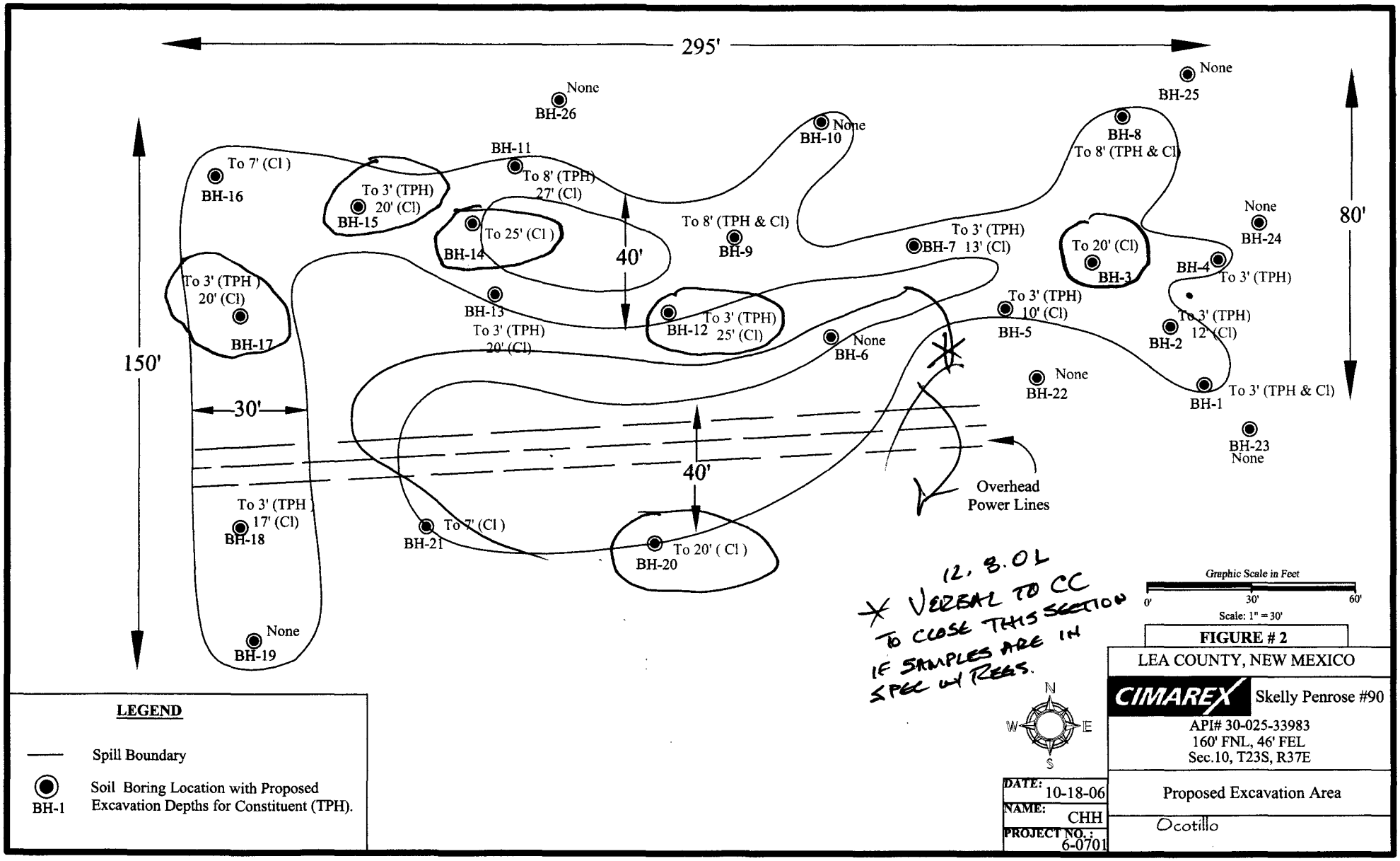
Sec.9, T23S, R37E

Site Location

| | |
|---|---|
| DATE: | 9-06-06 |
| NAME: | CHH |
| PROJECT NO. | 6-0701 |

Ocotillo

Taken from U.S.G.S. Rattlesnake Canyon Quad N.M. 1979




* VERBAL TO CC 12, 8.01
TO CLOSE THIS SECTION
IF SAMPLES ARE IN
SPEC W/ REGS.

**LEGEND**

Spill Boundary

BH-1 — Soil Boring Location with Proposed Excavation Depths for Constituent (TPH).

Graphic Scale in Feet
0' 30' 60'
Scale: 1" = 30'

**FIGURE # 2**

LEA COUNTY, NEW MEXICO

CIMAREX — Skelly Penrose #90

API# 30-025-33983
160' FNL, 46' FEL
Sec.10, T23S, R37E

Proposed Excavation Area

Ocotillo

| | |
|---|---|
| DATE: | 10-18-06 |
| NAME: | CHH |
| PROJECT NO.: | 6-0701 |

# TABLE

**Table 1: Summary of Laboratory Analysis of Soil Boring Samples**
**Cimarex, Skelly Penrose #90**
**Section 10, Township 23 South, Range 37 East**
**Lea County, New Mexico**



| Sample Date | Soil Sample Number | Sample Depth (feet BGS) | PID | GRO (C6-C12) | DRO (C12-C35) | Total TPH | Chloride | Benzene | Total BTEX |
|---|---|---|---|---|---|---|---|---|---|
| Standard (WQCC) | | | | | | 1,000 | 1,000 | 10 | 50 |
| 9/27/06 | BH-1 | 0-2' | 323 | 2,690 | 13,270 | **15,960** | 21.3 | 0.0218 | 9.10 |
| 9/27/06 | | 5-7' | 46 | 66.9 | 571.7 | 638.6 | 117 | --- | --- |
| 9/27/06 | | 10-12' | 39 | 29.7 | 338.8 | 368.5 | 213 | --- | --- |
| 9/27/06 | | 15-17' | 36 | 15.7 | 166.9 | 182.6 | 170 | --- | --- |
| 9/27/06 | | 20-22' | 5 | --- | --- | --- | 74.4 | --- | --- |
| 9/27/06 | | 25-27' | 0 | --- | --- | --- | 42.5 | --- | --- |
| 9/27/06 | BH-2 | 0-2' | 149 | 1,430 | 9,522 | **10,952** | 21.3 | 0.0197 | 1.056 |
| 9/27/06 | | 5-7' | 6 | <10.0 | 5.73 | 5.73 | **2,980** | --- | --- |
| 9/27/06 | | 10-12' | 5 | <10.0 | <20.0 | <30.0 | **3,720** | --- | --- |
| 9/27/06 | | 15-17' | 3 | --- | --- | --- | 191 | --- | --- |
| 9/27/06 | | 20-22' | 2 | --- | --- | --- | 74.4 | --- | --- |
| 9/27/06 | BH-3 | 0-2' | 46 | 26.7 | 171.8 | 198.5 | 21.3 | --- | --- |
| 9/27/06 | | 5-7' | 5 | <10.0 | <20.0 | <30.0 | **5,100** | --- | --- |
| 9/27/06 | | 10-12' | 3 | --- | --- | --- | **5,530** | --- | --- |
| 9/27/06 | | 15-17' | 2 | --- | --- | --- | **3,620** | --- | --- |
| 9/27/06 | BH-4 | 0-2' | 99 | 1,050 | 8,444 | **9,494** | 117 | --- | --- |
| 9/27/06 | | 5-7' | 25 | 7.23 | 57.88 | 65.11 | 234 | --- | --- |
| 9/27/06 | | 10-12' | 5 | --- | --- | --- | 213 | --- | --- |
| 9/27/06 | | 15-17' | 4 | --- | --- | --- | 149 | --- | --- |
| 9/27/06 | BH-5 | 0-2' | 216 | 494 | 2,829 | **3,323** | 447 | <0.0250 | 0.4154 |
| 9/27/06 | | 5-7' | 1 | <10.0 | <10.0 | <30.0 | **3,510** | --- | --- |
| 9/27/06 | | 10-12' | 0 | --- | --- | --- | **1,000** | --- | --- |
| 9/27/06 | | 15-17' | 0 | --- | --- | --- | 596 | --- | --- |
| 9/27/06 | BH-6 | 0-2' | 0 | <10.0 | <10.0 | <30.0 | <20.0 | --- | --- |
| 9/27/06 | | 5-7' | 0 | <10.0 | <10.0 | <30.0 | <20.0 | --- | --- |
| 9/27/06 | | 10-12' | 0 | --- | --- | --- | 21.3 | --- | --- |
| 9/27/06 | | 15-17' | 0 | --- | --- | --- | 31.9 | --- | --- |

Notes:
1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. ---: No data available
4. <: Below method detection limit
5. >: Greater than method detection limit

**Table 1: Summary of Laboratory Analysis of Soil Boring Samples**
**Cimarex, Skelly Penrose #90**
**Section 10, Township 23 South, Range 37 East**
**Lea County, New Mexico**



| Sample Date | Soil Sample Number | Sample Depth (feet BGS) | PID | GRO (C6-C12) | DRO (C12-C35) | Total TPH | Chloride | Benzene | Total BTEX |
|---|---|---|---|---|---|---|---|---|---|
| Standard (WQCC) | | | | | | 1,000 | 1,000 | 10 | 50 |
| 9/27/06 | BH-7 | 0-2' | 108 | 1,100 | 6,520 | 7,620 | 340 | <0.0250 | 0.2075 |
| 9/27/06 | | 5-7' | 5 | <10.0 | 3.46 | 3.46 | 4,040 | --- | --- |
| 9/27/06 | | 10-12' | 6 | --- | --- | --- | 2,130 | --- | --- |
| 9/27/06 | | 15-17' | 5 | --- | --- | --- | 893 | --- | --- |
| 9/27/06 | | 20-22' | 4 | --- | --- | --- | 638 | --- | --- |
| 9/27/06 | BH-8 | 0-2' | 369 | 2,370 | 12,259 | 14,629 | 532 | <0.0250 | 3.2393 |
| 9/27/06 | | 5-7' | 104 | 136 | 956 | 1,092 | 2,340 | <0.0250 | 0.1956 |
| 9/27/06 | | 10-12' | 1 | <10.0 | 3.71 | 3.71 | 21.3 | --- | --- |
| 9/27/06 | | 15-17' | 0 | --- | --- | --- | 106 | --- | --- |
| 9/27/06 | BH-9 | 0-2' | 3 | 54.9 | 747 | 801.9 | 63.8 | --- | --- |
| 9/27/06 | | 5-7' | 5 | 38.8 | 981 | 1,019.8 | 1,450 | --- | --- |
| 9/27/06 | | 10-12' | 0 | <10.0 | <20.0 | <30.0 | 468 | --- | --- |
| 9/27/06 | | 15-17' | 1 | --- | --- | --- | 138 | --- | --- |
| 9/27/06 | BH-10 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/27/06 | | 5-7' | 0 | <10.0 | 2.54 | 2.54 | 42.5 | --- | --- |
| 9/27/06 | | 10-12' | 0 | --- | --- | --- | 21.3 | --- | --- |
| 9/27/06 | | 15-17' | 0 | --- | --- | --- | 63.8 | --- | --- |
| 9/28/06 | BH-11 | 0-2' | 51 | 1,730 | 9,116 | 10,846 | 978 | --- | --- |
| 9/28/06 | | 5-7' | 69 | 233 | 1095 | 1,328 | 2,980 | --- | --- |
| 9/28/06 | | 10-12' | 21 | 41.9 | 232.53 | 274.43 | 489 | --- | --- |
| 9/28/06 | | 15-17' | 15 | 31.4 | 207.7 | 239.1 | 298 | --- | --- |
| 9/28/06 | | 20-22' | 7 | <10.0 | <20.0 | <30.0 | 1,150 | --- | --- |
| 9/28/06 | | 25-27' | 23 | --- | --- | --- | 1,450 | --- | --- |
| 9/28/06 | | 30-32' | 9 | --- | --- | --- | 307 | --- | --- |
| 9/28/06 | | 35-37' | 12 | --- | --- | --- | 298 | --- | --- |
| 9/28/06 | | 45-47' | 1 | --- | --- | --- | 149 | --- | --- |
| 9/28/06 | BH-12 | 0-2' | 810 | 990 | 1,642 | 2,632 | 574 | 1.53 | 96.9 |
| 9/28/06 | | 5-7' | 19 | 7.66 | 27.8 | 35.46 | 3,400 | --- | --- |
| 9/28/06 | | 10-12' | 1 | <10.0 | <20.0 | <30.0 | 7,230 | --- | --- |

Notes:
1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. ---: No data available
4. <: Below method detection limit
5. >: Greater than method detection limit

**Table 1: Summary of Laboratory Analysis of Soil Boring Samples**
**Cimarex, Skelly Penrose #90**
**Section 10, Township 23 South, Range 37 East**
**Lea County, New Mexico**



| Sample Date | Soil Sample Number | Sample Depth (feet BGS) | PID | GRO (C6-C12) | DRO (C12-C35) | Total TPH | Chloride | Benzene | Total BTEX |
|---|---|---|---|---|---|---|---|---|---|
| Standard (WQCC) | | | | | | 1,000 | 1,000 | 10 | 50 |
| 9/28/06 | BH-12 | 15-17' | 0 | --- | --- | --- | 3,930 | --- | --- |
| 9/28/06 | | 20-22' | 1 | --- | --- | --- | 3,400 | --- | --- |
| 9/28/06 | BH-13 | 0-2' | 254 | 788 | 2809 | 3,597 | 74.4 | <0.0250 | 3.752 |
| 9/28/06 | | 5-7' | 1 | <10.0 | <20.0 | <30.0 | 1,910 | --- | --- |
| 9/28/06 | | 10-12' | 2 | --- | --- | --- | 2,550 | --- | --- |
| 9/28/06 | | 15-17' | 0 | --- | --- | --- | 1,170 | --- | --- |
| 9/28/06 | BH-14 | 0-2' | 5 | <10.0 | <20.0 | <30.0 | 63.8 | --- | --- |
| 9/28/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 4,040 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 5,320 | --- | --- |
| 9/28/06 | | 15-17' | 0 | --- | --- | --- | 4,040 | --- | --- |
| 9/28/06 | BH-15 | 0-2' | 9 | 24 | 2,810 | 2,834 | 74.4 | --- | --- |
| 9/28/06 | | 5-7' | 1 | <10.0 | <20.0 | <30.0 | 2,230 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 3,620 | --- | --- |
| 9/28/06 | | 15-17' | 0 | --- | --- | --- | 2,340 | --- | --- |
| 9/28/06 | BH-16 | 0-2' | 1 | <10.0 | 372 | 372 | 319 | --- | --- |
| 9/28/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 1,490 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 149 | --- | --- |
| 9/28/06 | BH-17 | 0-2' | 806 | 1,580 | 6,860 | 8,440 | 1,230 | 0.0583 | 21.588 |
| 9/28/06 | | 5-7' | 9 | <10.0 | <20.0 | <30.0 | 3,720 | --- | --- |
| 9/28/06 | | 10-12' | 20 | --- | --- | --- | 5,320 | --- | --- |
| 9/28/06 | | 15-17' | 3 | --- | --- | --- | 2,130 | --- | --- |
| 9/28/06 | BH-18 | 0-2' | 44 | 1,010 | 8,330 | 9,340 | 128 | --- | --- |
| 9/28/06 | | 5-7' | 8 | <10.0 | <20.0 | <30.0 | 2,980 | --- | --- |
| 9/28/06 | | 10-12' | 4 | --- | --- | --- | 2,130 | --- | --- |
| 9/28/06 | | 15-17' | 3 | --- | --- | --- | 1,060 | --- | --- |
| 9/28/06 | BH-19 | 0-2' | 5 | 2.33 | 675 | 677.33 | 138 | --- | --- |
| 9/28/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 681 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 893 | --- | --- |

Notes:
1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. ---: No data available
4. <: Below method detection limit
5. >: Greater than method detection limit

**Table 1: Summary of Laboratory Analysis of Soil Boring Samples**
**Cimarex, Skelly Penrose #90**
**Section 10, Township 23 South, Range 37 East**
**Lea County, New Mexico**



| Sample Date | Soil Sample Number | Sample Depth (feet BGS) | PID | GRO (C6-C12) | DRO (C12-C35) | Total TPH | Chloride | Benzene | Total BTEX |
|---|---|---|---|---|---|---|---|---|---|
| Standard (WQCC) | | | | | | 1,000 | 1,000 | 10 | 50 |
| 9/28/06 | BH-20 | 0-2' | 0 | <10.0 | 28.3 | 28.3 | 128 | --- | --- |
| 9/28/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 3,830 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 4,890 | --- | --- |
| 9/28/06 | BH-21 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/28/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 3,620 | --- | --- |
| 9/28/06 | | 10-12' | 0 | --- | --- | --- | 85.1 | --- | --- |
| 9/29/06 | BH-22 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | 596 | --- | --- |
| 9/29/06 | | 10-12' | 0 | --- | --- | --- | 74.4 | --- | --- |
| 9/29/06 | BH-23 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 10-12' | 0 | --- | --- | --- | <20.0 | --- | --- |
| 9/29/06 | BH-24 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 10-12' | 0 | --- | --- | --- | <20.0 | --- | --- |
| 9/29/06 | BH-25 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 10-12' | 0 | --- | --- | --- | <20.0 | --- | --- |
| 9/29/06 | BH-26 | 0-2' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 5-7' | 0 | <10.0 | <20.0 | <30.0 | <20.0 | --- | --- |
| 9/29/06 | | 10-12' | 0 | --- | --- | --- | <20.0 | --- | --- |

Notes:
1. BGS: Depth in feet below ground surface
2. mg/kg: Milligrams per kilogram
3. ---: No data available
4. <: Below method detection limit
5. >: Greater than method detection limit

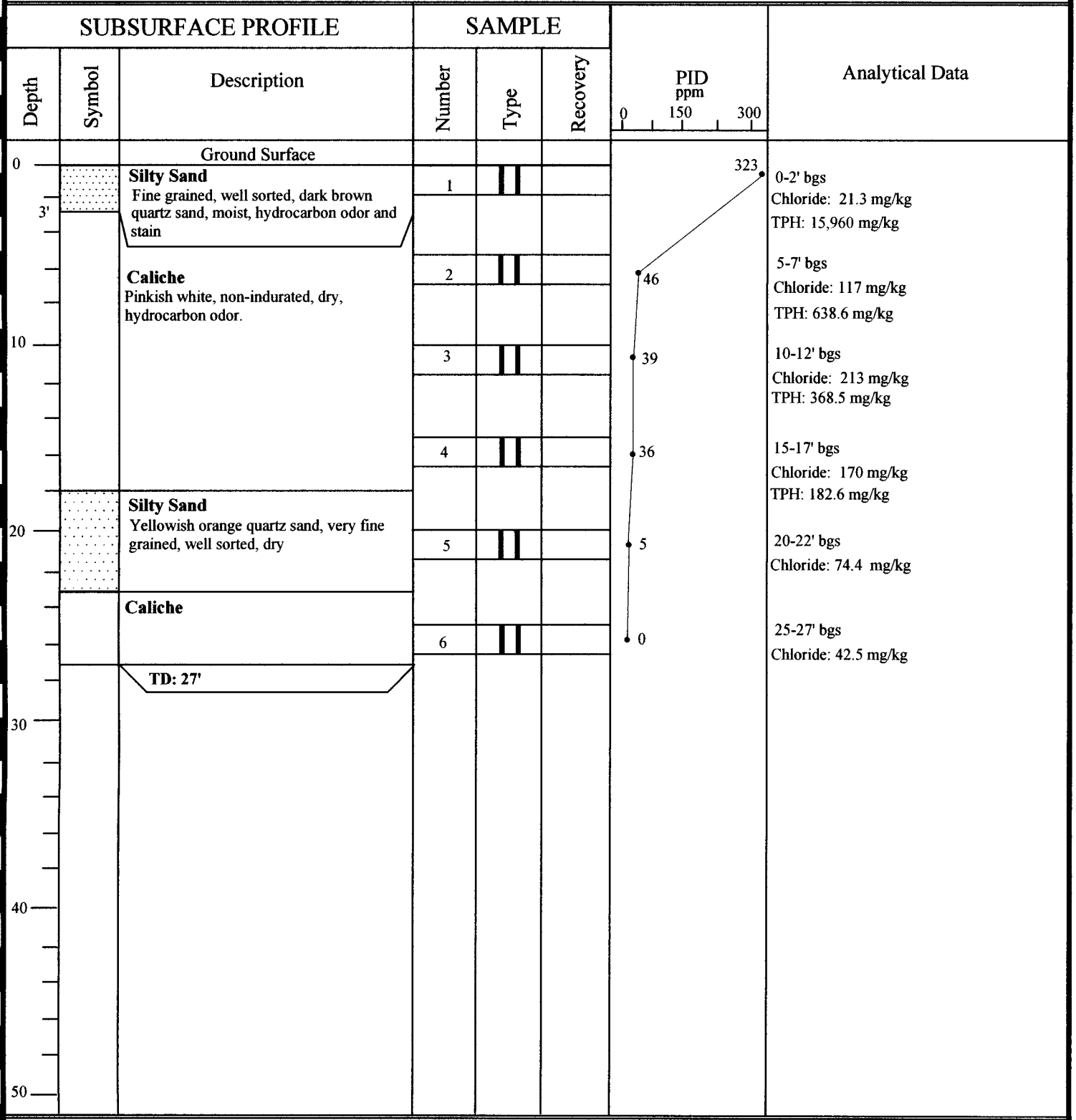
# APPENDIX A

## Soil Boring Logs

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-1

Page: 1 of 1
Geologist: Cindy Crain




Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-2

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 80 – 160) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark brown quartz sand, fine grained, well sorted, moist, hydrocarbon odor and stain. | 1 | | | 149 | 0-2' bgs<br>Chloride: 21.3 mg/kg<br>TPH: 10,952 mg/kg |
| 3' | | **Caliche** Pinkish white, non-indurated, dry, hydrocarbon odor to 10'. | 2 | | | 6 | 5-7' bgs<br>Chloride: 2,980 mg/kg<br>TPH:5.73 mg/kg |
| 10 | | | 3 | | | 5 | 10-12' bgs<br>Chloride: 3,720 mg/kg<br>TPH: <30.0 mg/kg |
| | | | 4 | | | 3 | 15-17' bgs<br>Chloride: 191 mg/kg |
| | | **Silty Sand** Yellowish orange quartz sand, very fine grained, well sorted, dry | | | | | |
| 20 | | **Caliche** | 5 | | | 2 | 20-22' bgs<br>Chloride: 74.4 mg/kg |
| | | **TD: 22'** | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-3

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (10 30 50) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark brown quartz sand, fine grained, well sorted, moist, hydrocarbon odor and stain. | 1 | | | 46 | 0-2' bgs<br>Chloride: 21.3 mg/kg<br>TPH: 198.5 mg/kg |
| 3' | | | | | | | |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 5 | 5-7' bgs<br>Chloride: 5,100 mg/kg<br>TPH:<30.0 mg/kg |
| 10 | | | 3 | | | 3 | 10-12' bgs<br>Chloride: 5,530 mg/kg |
| | | **Silty Sand** Yellowish orange, fine grained, well sorted, dry | 4 | | | 2 | 15-17' bgs<br>Chloride: 3,620 mg/kg |
| | | **TD: 17'** | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-4

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (10 / 50 / 100) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark brown quartz sand, fine grained, well sorted, loose, moist, hydrocarbon odor and stain. | 1 | | | 99 | 0-2' bgs<br>Chloride: 117 mg/kg<br>TPH: 9,494 mg/kg |
| 3' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 25 | 5-7' bgs<br>Chloride: 234 mg/kg<br>TPH: 65.11 mg/kg |
| 10 | | | 3 | | | 5 | 10-12' bgs<br>Chloride: 213 mg/kg |
| | | **Silty Sand** Yellowish orange quartz sand, very fine grained, well sorted, dry | 4 | | | 4 | 15-17' bgs<br>Chloride: 149 mg/kg |
| | | **TD: 17'** | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

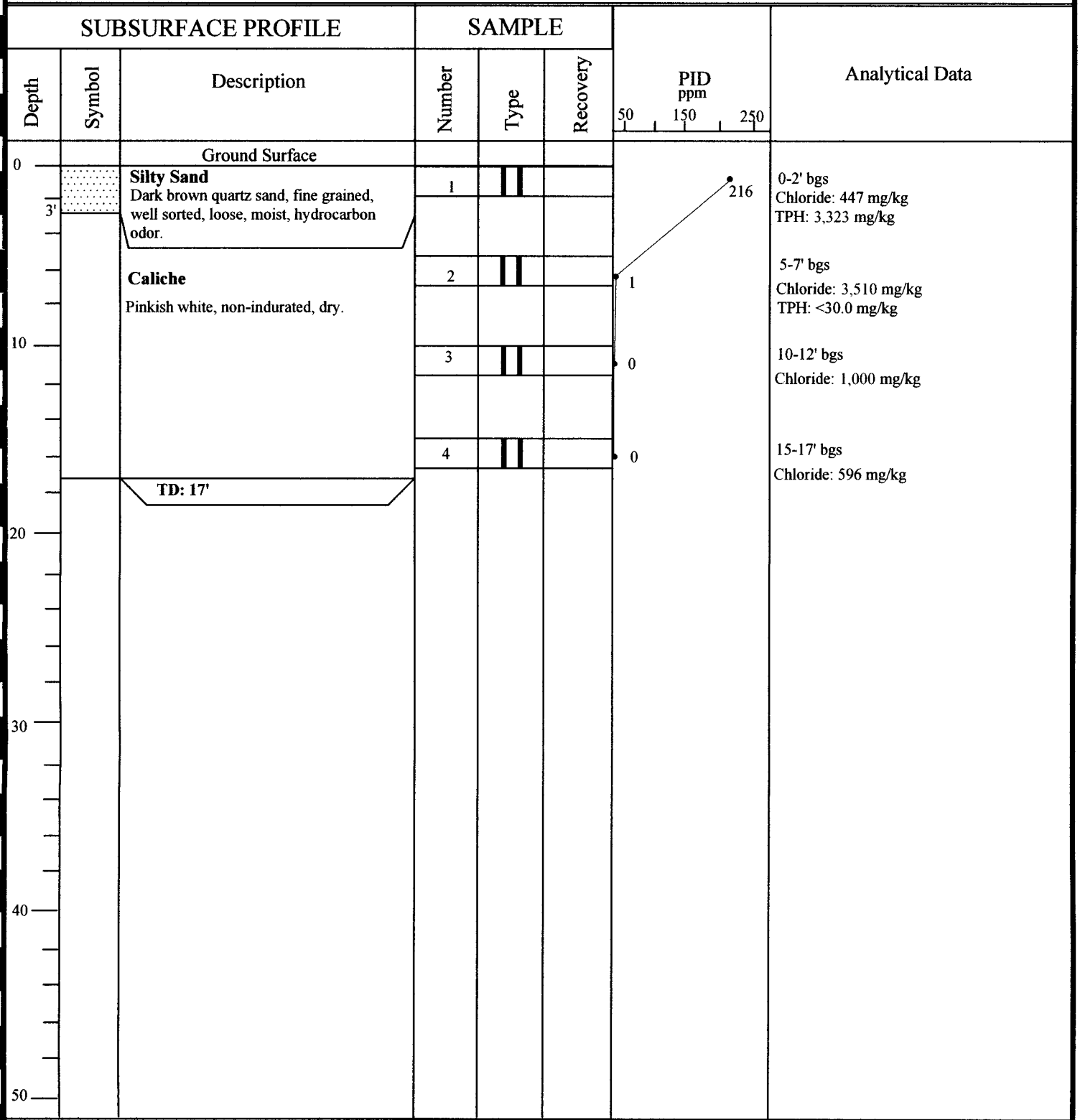
Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-5

Page: 1 of 1
Geologist: Cindy Crain




Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-6

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, damp. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 21.3 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 31.9 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

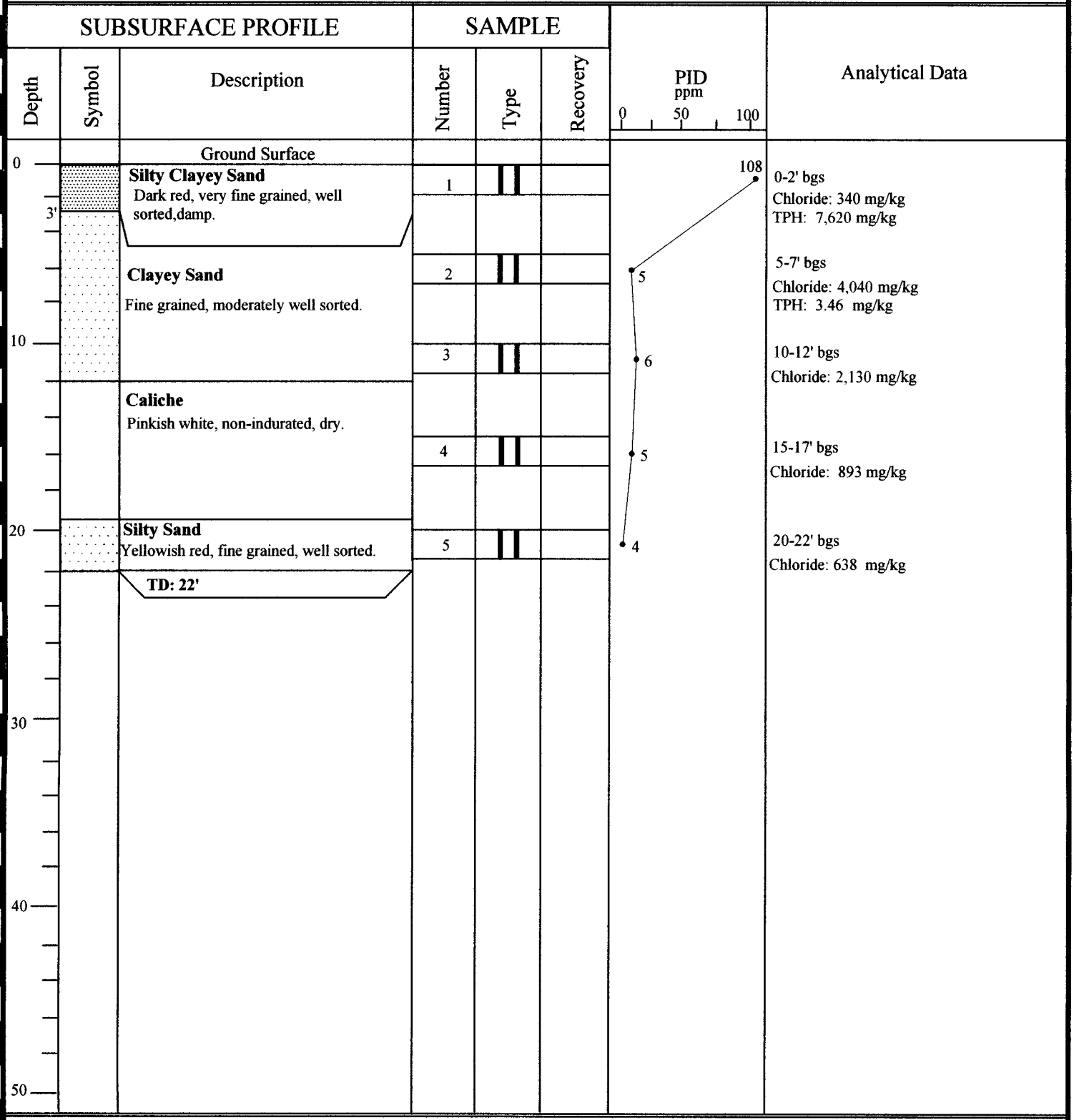
Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-7

Page: 1 of 1
Geologist: Cindy Crain




Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-8

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 200 – 400) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Fine grained, well sorted,reddish brown quartz sand, damp. | 1 | | | 369 | 0-2' bgs<br>Chloride: 532 mg/kg<br>TPH: 14,629 mg/kg |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 104 | 5-7' bgs<br>Chloride: 2,340 mg/kg<br>TPH: 1,092 mg/kg |
| 10 | | | 3 | | | 1 | 10-12' bgs<br>Chloride: 21.3 mg/kg<br>TPH: 3.71 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 106 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-9

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Fine grained, well sorted, dark reddish brown quartz sand, loose, damp. | 1 | | | 3 | 0-2' bgs<br>Chloride: 63.8 mg/kg<br>TPH: 801.9 mg/kg |
| | | | 2 | | | 5 | 5-7' bgs<br>Chloride: 1,450 mg/kg<br>TPH: 1,019.8 mg/kg |
| 10 | | **Caliche** Pinkish white, non-indurated, dry. | 3 | | | 0 | 10-12' bgs<br>Chloride: 468 mg/kg<br>TPH: <30.0 mg/kg |
| | | | 4 | | | 1 | 15-17' bgs<br>Chloride: 138 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-10

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, loose, dry. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 4.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 42.5 mg/kg<br>TPH: 2.54 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 21.3 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 63.8 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/27/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-11

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 40 80) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark reddish brown quartz sand, fine grained, well sorted, damp, hydrocarbon odor. | 1 | | | 51 | 0-2' bgs<br>Chloride: 978 mg/kg<br>TPH: 10,846 mg/kg |
| | | **Caliche** Pinkish white, non-indurated, dry, hydrocarbon odor. | 1 | | | 69 | 5-7' bgs<br>Chloride: 2,980 mg/kg<br>TPH: 1,328 mg/kg |
| 10 | | | 2 | | | 21 | 10-12' bgs<br>Chloride: 489 mg/kg<br>TPH: 274.43 mg/kg |
| | | | 3 | | | 15 | 15-17' bgs<br>Chloride: 298 mg/kg<br>TPH: 239.1 mg/kg |
| 20 | | **Silty Sand** Reddish yellow quartz sand, very fine grained, well sorted, dry | 4 | | | 7 | 20-22' bgs<br>Chloride: 1,150 mg/kg<br>TPH: <30.0 mg/kg |
| | | **Caliche** Pinkish gray, non-indurated. | 5 | | | 23 | 25-27' bgs<br>Chloride: 1,450 mg/kg |
| 30 | | | 5 | | | 9 | 30- 32' bgs<br>Chloride: 307 mg/kg |
| | | | 5 | | | 12 | 35 - 37' bgs<br>Chloride: 298 mg/kg |
| 40 | | Caliche dry, indurated, too hard to sample. | 5 | | | | 40- 42' bgs<br>No Sample |
| | | **Redbed** Dry | 5 | | | 1 | 45- 47' bgs<br>Chloride: 149 mg/kg |
| 50 | | **TD: 47'** | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo

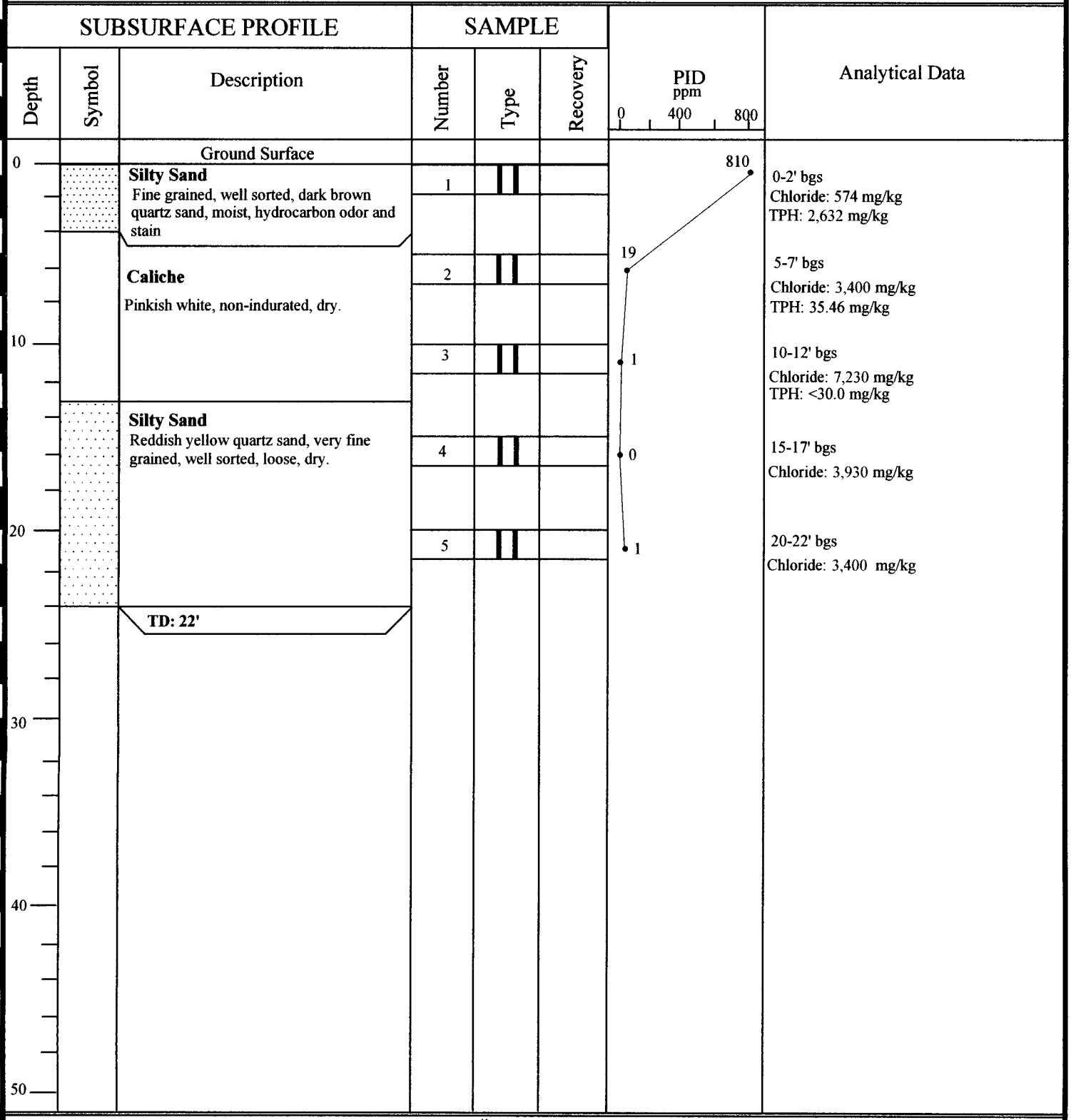
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-12

Page: 1 of 1
Geologist: Cindy Crain




Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-13

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 150 – 300) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark brown quartz sand, fine grained, well sorted, damp. | 1 | | | 254 | 0-2' bgs<br>Chloride: 74.4 mg/kg<br>TPH: 3,597 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 1 | 5-7' bgs<br>Chloride: 1,910 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 2 | 10-12' bgs<br>Chloride: 2,550 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 1,170 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-14

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Clayey Sand** Dark brown quartz sand, fine grained, well sorted, moist, hydrocarbon odor and stain. | 1 | | | 5 | 0-2' bgs<br>Chloride: 63.8 mg/kg<br>TPH: <30.0 mg/kg |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 4,040 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 5,320 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 4,040 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-15

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark brown quartz sand, fine grained, well sorted, damp. | 1 | | | 9 | 0-2' bgs<br>Chloride: 74.4 mg/kg<br>TPH: 2,834 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, damp. | 2 | | | 1 | 5-7' bgs<br>Chloride: 2,230 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 3,620 mg/kg |
| | | | 4 | | | 0 | 15-17' bgs<br>Chloride: 2,340 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-16

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 10 – 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark reddish brown, fine grained, well sorted, loose. | 1 | | | 1 | 0-2' bgs<br>Chloride: 319 mg/kg<br>TPH: 372 mg/kg |
| 3.5' | | | | | | | |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 1,490 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 149 mg/kg |
| | | **TD: 12'** | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-17

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 400 – 800) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark reddish brown quartz sand, fine grained, well sorted, damp. | 1 | | | 806 | 0-2' bgs<br>Chloride: 1,230 mg/kg<br>TPH: 8,440 mg/kg |
| 3.5' | | | | | | | |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 9 | 5-7' bgs<br>Chloride: 3,720 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 20 | 10-12' bgs<br>Chloride: 5,320 mg/kg |
| | | | 4 | | | 3 | 15-17' bgs<br>Chloride: 2,130 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-18

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 20 – 40) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark reddish brown quartz sand, fine grained, well sorted, moist, hydrocarbon odor. | 1 | | | 44 | 0-2' bgs<br>Chloride: 128 mg/kg<br>TPH: 9,340 mg/kg |
| | | **Caliche** Pinkish white, non-indurated, damp. | 2 | | | 8 | 5-7' bgs<br>Chloride: 2,980 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 4 | 10-12' bgs<br>Chloride: 2,130 mg/kg |
| | | | 4 | | | 3 | 15-17' bgs<br>Chloride: 1,060 mg/kg |
| | | TD: 17' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-19

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, damp. | 1 | | | 5 | 0-2' bgs<br>Chloride: 138 mg/kg<br>TPH: 677.33 mg/kg |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 681 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 893 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-20

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 10 – 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Dark reddish brown, fine grained, well sorted, damp. | 1 | | | 0 | 0-2' bgs<br>Chloride: 128 mg/kg<br>TPH: 28.3 mg/kg |
| 3.5' | | | | | | | |
| | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 3,830 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 4,890 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-21

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | Reddish brown quartz sand, fine grained, well sorted, damp. | | | | | |
| | | **Caliche** | 2 | | | 0 | 5-7' bgs<br>Chloride: 3,620 mg/kg<br>TPH: <30.0 mg/kg |
| | | Pinkish white, non-indurated, dry. | | | | | |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride:85.1 mg/kg |
| | | **TD: 12'** | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/28/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by:
Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-22

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 – 10 – 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, loose, damp. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: 596 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: 74.4 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/29/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-23

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, loose. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: <20.0 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/29/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-24

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Sand** Reddish brown quartz sand, fine grained, well sorted, loose. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: <20.0 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/29/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-25

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Clayey Sand** Reddish brown quartz sand, fine grained, well sorted, loose, damp. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: <20.0 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/29/06
Hole Size:

Ocotillo

2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

Client: Cimarex
Project: Skelly Penrose #90
Project No.: 6-0701
Location: Lea County, New Mexico, (NW/NW), Sec. 10, T23S, R37E

# Log: BH-26

Page: 1 of 1
Geologist: Cindy Crain

| SUBSURFACE PROFILE | | | SAMPLE | | | | |
|---|---|---|---|---|---|---|---|
| Depth | Symbol | Description | Number | Type | Recovery | PID ppm (0 10 20) | Analytical Data |
| 0 | | Ground Surface | | | | | |
| | | **Silty Clayey Sand** Reddish brown quartz sand, fine grained, well sorted, loose, dry. | 1 | | | 0 | 0-2' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 3.5' | | **Caliche** Pinkish white, non-indurated, dry. | 2 | | | 0 | 5-7' bgs<br>Chloride: <20.0 mg/kg<br>TPH: <30.0 mg/kg |
| 10 | | | 3 | | | 0 | 10-12' bgs<br>Chloride: <20.0 mg/kg |
| | | TD: 12' | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 50 | | | | | | | |

Drill Method: Air Rotary
Drill Date: 09/29/06
Hole Size:

Ocotillo
2125 French Drive
Hobbs, New Mexico 88240
(505) 393-6371

Elevation: N/A
Checked by: CKC
Drilled by: Scarborough Drilling

# APPENDIX B

## Laboratory Report and Chain of Custody Documentation

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

# Analytical Report

**Prepared for:**

Cindy Crain

Ocotillo Environmental

2125 French Dr.

Hobbs, NM 88201

Project: Cimarex- Skelly Penrose #90

Project Number: 6-0701

Location: Sec.10, T23S, R37E

Lab Order Number: 6J02002

Report Date: 10/13/06

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Cimarex- Skelly Penrose #90 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| BH-1 0-2' | 6J02002-01 | Soil | 09/27/06 08:55 | 10-02-2006 09:25 |
| BH-1 5-7' | 6J02002-02 | Soil | 09/27/06 09:04 | 10-02-2006 09:25 |
| BH-1 10-12' | 6J02002-03 | Soil | 09/27/06 09:09 | 10-02-2006 09:25 |
| BH-1 15-17' | 6J02002-04 | Soil | 09/27/06 09:14 | 10-02-2006 09:25 |
| BH-1 20-22' | 6J02002-05 | Soil | 09/27/06 09:18 | 10-02-2006 09:25 |
| BH-1 25-27' | 6J02002-06 | Soil | 09/27/06 09:26 | 10-02-2006 09:25 |
| BH-2 0-2' | 6J02002-07 | Soil | 09/27/06 09:43 | 10-02-2006 09:25 |
| BH-2 5-7' | 6J02002-08 | Soil | 09/27/06 09:46 | 10-02-2006 09:25 |
| BH-2 10-12' | 6J02002-09 | Soil | 09/27/06 09:52 | 10-02-2006 09:25 |
| BH-2 15-17' | 6J02002-10 | Soil | 09/27/06 09:56 | 10-02-2006 09:25 |
| BH-2 20-22' | 6J02002-11 | Soil | 09/27/06 10:00 | 10-02-2006 09:25 |
| BH-3 0-2' | 6J02002-12 | Soil | 09/27/06 10:33 | 10-02-2006 09:25 |
| BH-3 5-7' | 6J02002-13 | Soil | 09/27/06 10:34 | 10-02-2006 09:25 |
| BH-3 10-12' | 6J02002-14 | Soil | 09/27/06 10:44 | 10-02-2006 09:25 |
| BH-3 15-17' | 6J02002-15 | Soil | 09/27/06 10:48 | 10-02-2006 09:25 |
| BH-4 0-2' | 6J02002-16 | Soil | 09/27/06 11:01 | 10-02-2006 09:25 |
| BH-4 5-7' | 6J02002-17 | Soil | 09/27/06 11:05 | 10-02-2006 09:25 |
| BH-4 10-12' | 6J02002-18 | Soil | 09/27/06 11:10 | 10-02-2006 09:25 |
| BH-4 15-17' | 6J02002-19 | Soil | 09/27/06 11:14 | 10-02-2006 09:25 |
| BH-5 0-2' | 6J02002-20 | Soil | 09/27/06 12:15 | 10-02-2006 09:25 |
| BH-5 5-7' | 6J02002-21 | Soil | 09/27/06 12:20 | 10-02-2006 09:25 |
| BH-5 10-12' | 6J02002-22 | Soil | 09/27/06 12:24 | 10-02-2006 09:25 |
| BH-5 15-17' | 6J02002-23 | Soil | 09/27/06 12:27 | 10-02-2006 09:25 |
| BH-6 0-2' | 6J02002-24 | Soil | 09/27/06 12:25 | 10-02-2006 09:25 |
| BH-6 5-7' | 6J02002-25 | Soil | 09/27/06 12:40 | 10-02-2006 09:25 |
| BH-6 10-12' | 6J02002-26 | Soil | 09/27/06 12:44 | 10-02-2006 09:25 |
| BH-6 15-17' | 6J02002-27 | Soil | 09/27/06 12:47 | 10-02-2006 09:25 |
| BH-7 0-2' | 6J02002-28 | Soil | 09/27/06 13:00 | 10-02-2006 09:25 |
| BH-7 5-7' | 6J02002-29 | Soil | 09/27/06 13:07 | 10-02-2006 09:25 |
| BH-7 10-12' | 6J02002-30 | Soil | 09/27/06 13:10 | 10-02-2006 09:25 |
| BH-7 15-17' | 6J02002-31 | Soil | 09/27/06 13:13 | 10-02-2006 09:25 |
| BH-7 20-22' | 6J02002-32 | Soil | 09/27/06 13:20 | 10-02-2006 09:25 |
| BH-8 0-2' | 6J02002-33 | Soil | 09/27/06 13:30 | 10-02-2006 09:25 |
| BH-8 5-7' | 6J02002-34 | Soil | 09/27/06 13:36 | 10-02-2006 09:25 |



12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| BH-8 10-12' | 6J02002-35 | Soil | 09/27/06 13:42 | 10-02-2006 09:25 |
| BH-8 15-17' | 6J02002-36 | Soil | 09/27/06 13:48 | 10-02-2006 09:25 |
| BH-9 0-2' | 6J02002-37 | Soil | 09/27/06 14:12 | 10-02-2006 09:25 |
| BH-9 5-7' | 6J02002-38 | Soil | 09/27/06 14:16 | 10-02-2006 09:25 |
| BH-9 10-12' | 6J02002-39 | Soil | 09/27/06 14:21 | 10-02-2006 09:25 |
| BH-9 15-17' | 6J02002-40 | Soil | 09/27/06 14:24 | 10-02-2006 09:25 |
| BH-10 0-2' | 6J02002-41 | Soil | 09/27/06 14:40 | 10-02-2006 09:25 |
| BH-10 5-7' | 6J02002-42 | Soil | 09/27/06 14:43 | 10-02-2006 09:25 |
| BH-10 10-12' | 6J02002-43 | Soil | 09/27/06 14:46 | 10-02-2006 09:25 |
| BH-10 15-17' | 6J02002-44 | Soil | 09/27/06 14:49 | 10-02-2006 09:25 |
| BH-11 0-2' | 6J02002-45 | Soil | 09/28/06 08:44 | 10-02-2006 09:25 |
| BH-11 5-7' | 6J02002-46 | Soil | 09/28/06 08:50 | 10-02-2006 09:25 |
| BH-11 10-12' | 6J02002-47 | Soil | 09/28/06 08:53 | 10-02-2006 09:25 |
| BH-11 15-17' | 6J02002-48 | Soil | 09/28/06 08:55 | 10-02-2006 09:25 |
| BH-11 20-22' | 6J02002-49 | Soil | 09/28/06 08:59 | 10-02-2006 09:25 |
| BH-11 25-27' | 6J02002-50 | Soil | 09/28/06 09:04 | 10-02-2006 09:25 |
| BH-11 30-32' | 6J02002-51 | Soil | 09/28/06 09:12 | 10-02-2006 09:25 |
| BH-11 35-37' | 6J02002-52 | Soil | 09/28/06 09:21 | 10-02-2006 09:25 |
| BH-11 45-47' | 6J02002-53 | Soil | 09/28/06 09:45 | 10-02-2006 09:25 |
| BH-12 0-2' | 6J02002-54 | Soil | 09/28/06 10:00 | 10-02-2006 09:25 |
| BH-12 5-7' | 6J02002-55 | Soil | 09/28/06 10:05 | 10-02-2006 09:25 |
| BH-12 10-12' | 6J02002-56 | Soil | 09/28/06 10:09 | 10-02-2006 09:25 |
| BH-12 15-17' | 6J02002-57 | Soil | 09/28/06 10:12 | 10-02-2006 09:25 |
| BH-12 20-22' | 6J02002-58 | Soil | 09/28/06 10:16 | 10-02-2006 09:25 |
| BH-13 0-2' | 6J02002-59 | Soil | 09/28/06 10:32 | 10-02-2006 09:25 |
| BH-13 5-7' | 6J02002-60 | Soil | 09/28/06 10:36 | 10-02-2006 09:25 |
| BH-13 10-12' | 6J02002-61 | Soil | 09/28/06 10:40 | 10-02-2006 09:25 |
| BH-13 15-17' | 6J02002-62 | Soil | 09/28/06 10:44 | 10-02-2006 09:25 |
| BH-14 0-2' | 6J02002-63 | Soil | 09/28/06 11:02 | 10-02-2006 09:25 |
| BH-14 5-7' | 6J02002-64 | Soil | 09/28/06 11:07 | 10-02-2006 09:25 |
| BH-14 10-12' | 6J02002-65 | Soil | 09/28/06 11:11 | 10-02-2006 09:25 |
| BH-14 15-17' | 6J02002-66 | Soil | 09/28/06 11:15 | 10-02-2006 09:25 |
| BH-15 0-2' | 6J02002-67 | Soil | 09/28/06 11:28 | 10-02-2006 09:25 |
| BH-15 5-7' | 6J02002-68 | Soil | 09/28/06 11:35 | 10-02-2006 09:25 |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| BH-15 10-12' | 6J02002-69 | Soil | 09/28/06 11:40 | 10-02-2006 09:25 |
| BH-15 15-17' | 6J02002-70 | Soil | 09/28/06 11:43 | 10-02-2006 09:25 |
| BH-16 0-2' | 6J02002-71 | Soil | 09/28/06 13:00 | 10-02-2006 09:25 |
| BH-16 5-7' | 6J02002-72 | Soil | 09/28/06 13:05 | 10-02-2006 09:25 |
| BH-16 10-12' | 6J02002-73 | Soil | 09/28/06 13:10 | 10-02-2006 09:25 |
| BH-17 0-2' | 6J02002-74 | Soil | 09/28/06 13:25 | 10-02-2006 09:25 |
| BH-17 5-7' | 6J02002-75 | Soil | 09/28/06 13:31 | 10-02-2006 09:25 |
| BH-17 10-12' | 6J02002-76 | Soil | 09/28/06 13:35 | 10-02-2006 09:25 |
| BH-17 15-17' | 6J02002-77 | Soil | 09/28/06 13:42 | 10-02-2006 09:25 |
| BH-18 0-2' | 6J02002-78 | Soil | 09/28/06 13:46 | 10-02-2006 09:25 |
| BH-18 5-7' | 6J02002-79 | Soil | 09/28/06 13:52 | 10-02-2006 09:25 |
| BH-18 10-12' | 6J02002-80 | Soil | 09/28/06 13:56 | 10-02-2006 09:25 |
| BH-18 15-17' | 6J02002-81 | Soil | 09/28/06 14:02 | 10-02-2006 09:25 |
| BH-19 0-2' | 6J02002-82 | Soil | 09/28/06 14:06 | 10-02-2006 09:25 |
| BH-19 5-7' | 6J02002-83 | Soil | 09/28/06 14:09 | 10-02-2006 09:25 |
| BH-19 10-12' | 6J02002-84 | Soil | 09/28/06 14:11 | 10-02-2006 09:25 |
| BH-20 0-2' | 6J02002-85 | Soil | 09/28/06 14:20 | 10-02-2006 09:25 |
| BH-20 5-7' | 6J02002-86 | Soil | 09/28/06 14:24 | 10-02-2006 09:25 |
| BH-20 10-12' | 6J02002-87 | Soil | 09/28/06 14:26 | 10-02-2006 09:25 |
| BH-21 0-2' | 6J02002-88 | Soil | 09/28/06 14:40 | 10-02-2006 09:25 |
| BH-21 5-7' | 6J02002-89 | Soil | 09/28/06 14:45 | 10-02-2006 09:25 |
| BH-21 10-12' | 6J02002-90 | Soil | 09/28/06 14:48 | 10-02-2006 09:25 |
| BH-22 0-2' | 6J02002-91 | Soil | 09/29/06 08:46 | 10-02-2006 09:25 |
| BH-22 5-7' | 6J02002-92 | Soil | 09/29/06 08:52 | 10-02-2006 09:25 |
| BH-22 10-12' | 6J02002-93 | Soil | 09/29/06 08:55 | 10-02-2006 09:25 |
| BH-23 0-2' | 6J02002-94 | Soil | 09/29/06 09:08 | 10-02-2006 09:25 |
| BH-23 5-7' | 6J02002-95 | Soil | 09/29/06 09:12 | 10-02-2006 09:25 |
| BH-23 10-12' | 6J02002-96 | Soil | 09/29/06 09:15 | 10-02-2006 09:25 |
| BH-24 0-2' | 6J02002-97 | Soil | 09/29/06 09:21 | 10-02-2006 09:25 |
| BH-24 5-7' | 6J02002-98 | Soil | 09/29/06 09:26 | 10-02-2006 09:25 |
| BH-24 10-12' | 6J02002-99 | Soil | 09/29/06 09:29 | 10-02-2006 09:25 |
| BH-25 0-2' | 6J02003-01 | Soil | 09/29/06 09:39 | 10-02-2006 09:25 |
| BH-25 5-7' | 6J02003-02 | Soil | 09/29/06 09:42 | 10-02-2006 09:25 |
| BH-25 10-12' | 6J02003-03 | Soil | 09/29/06 09:45 | 10-02-2006 09:25 |

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Cimarex- Skelly Penrose #90 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| BH-26 0-2' | 6J02003-04 | Soil | 09/29/06 09:52 | 10-02-2006 09:25 |
| BH-26 5-7' | 6J02003-05 | Soil | 09/29/06 09:55 | 10-02-2006 09:25 |
| BH-26 10-12' | 6J02003-06 | Soil | 09/29/06 09:59 | 10-02-2006 09:25 |







12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Cimarex- Skelly Penrose #90 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## Organics by GC
## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-1 0-2' (6J02002-01) Soil** | | | | | | | | | |
| **Benzene** | **J [0.0218]** | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | J |
| **Toluene** | **0.278** | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **0.301** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **4.13** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **4.37** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *95.8 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *156 %* | *80-120* | | " | " | " | " | *S-04* |
| **Carbon Ranges C6-C12** | **2690** | 50.0 | mg/kg dry | 5 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **12200** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **1070** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **16000** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *41.2 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *46.6 %* | *70-130* | | " | " | " | " | *S-06* |
| **BH-1 5-7' (6J02002-02) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **66.9** | 10.0 | mg/kg dry | 1 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **499** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **72.7** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **639** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *130 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *130 %* | *70-130* | | " | " | " | " | |
| **BH-1 10-12' (6J02002-03) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **29.7** | 10.0 | mg/kg dry | 1 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **280** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **58.8** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **368** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *118 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *108 %* | *70-130* | | " | " | " | " | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-1 15-17' (6J02002-04) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **15.7** | 10.0 | mg/kg dry | 1 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **133** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **33.9** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **183** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *129 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *129 %* | *70-130* | | " | " | " | " | |
| **BH-2 0-2' (6J02002-07) Soil** | | | | | | | | | |
| **Benzene** | **J [0.0197]** | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | J |
| **Toluene** | **0.0622** | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **0.0795** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **0.310** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **0.585** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *83.5 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *116 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **1430** | 50.0 | mg/kg dry | 5 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **8610** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **912** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **11000** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *37.8 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *43.4 %* | *70-130* | | " | " | " | " | *S-06* |
| **BH-2 5-7' (6J02002-08) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60201 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **J [5.73]** | 10.0 | " | " | " | " | " | " | J |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *129 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *129 %* | *70-130* | | " | " | " | " | |

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Cimarex- Skelly Penrose #90 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-2 10-12' (6J02002-09) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *129 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *130 %* | *70-130* | | " | " | " | " | |
| **BH-3 0-2' (6J02002-12) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **26.7** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **140** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **31.8** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **198** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *130 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *129 %* | *70-130* | | " | " | " | " | |
| **BH-3 5-7' (6J02002-13) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *128 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *128 %* | *70-130* | | " | " | " | " | |
| **BH-4 0-2' (6J02002-16) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **1050** | 50.0 | mg/kg dry | 5 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **7650** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **794** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **9490** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *28.8 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *21.2 %* | *70-130* | | " | " | " | " | *S-06* |







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## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-4 5-7' (6J02002-17) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **J [7.23]** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | J |
| **Carbon Ranges C12-C28** | **49.8** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **J [8.08]** | 10.0 | " | " | " | " | " | " | J |
| **Total Hydrocarbons** | **49.8** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *109 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *99.0 %* | *70-130* | | " | " | " | " | |
| **BH-5 0-2' (6J02002-20) Soil** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **J [0.0139]** | 0.0250 | " | " | " | " | " | " | J |
| **Xylene (p/m)** | **0.0555** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **0.346** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *82.5 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *92.2 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **494** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **2630** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **199** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **3320** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *106 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *107 %* | *70-130* | | " | " | " | " | |
| **BH-5 5-7' (6J02002-21) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *84.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *73.2 %* | *70-130* | | " | " | " | " | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-6 0-2' (6J02002-24) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *110 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *99.0 %* | *70-130* | | " | " | " | " | |
| **BH-6 5-7' (6J02002-25) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *110 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *97.4 %* | *70-130* | | " | " | " | " | |
| **BH-7 0-2' (6J02002-28) Soil** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **0.0138** | 0.0250 | " | " | " | " | " | " | J |
| **Xylene (p/m)** | **0.0697** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **0.124** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *80.2 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.8 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **1100** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **6280** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **240** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **7620** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *129 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *98.6 %* | *70-130* | | " | " | " | " | |

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Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

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## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-7 5-7' (6J02002-29) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **J [3.46]** | 10.0 | " | " | " | " | " | " | J |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *83.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *75.8 %* | *70-130* | | " | " | " | " | |
| **BH-8 0-2' (6J02002-33) Soil** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | |
| **Toluene** | **0.0543** | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **0.155** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **1.20** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **1.83** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *81.2 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *142 %* | *80-120* | | " | " | " | " | *S-04* |
| **Carbon Ranges C6-C12** | **2370** | 50.0 | mg/kg dry | 5 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **11300** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **959** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **14600** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *34.6 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *41.2 %* | *70-130* | | " | " | " | " | *S-06* |
| **BH-8 5-7' (6J02002-34) Soil** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg dry | 25 | EJ60308 | 10/02/06 | 10/03/06 | EPA 8021B | |
| Toluene | ND | 0.0250 | " | " | " | " | " | " | |
| **Ethylbenzene** | **J [0.0219]** | 0.0250 | " | " | " | " | " | " | J |
| **Xylene (p/m)** | **0.0627** | 0.0250 | " | " | " | " | " | " | |
| **Xylene (o)** | **0.111** | 0.0250 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *95.5 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *120 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **136** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **849** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **107** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **1090** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *89.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *84.2 %* | *70-130* | | " | " | " | " | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-8 10-12' (6J02002-35) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **J [3.71]** | 10.0 | " | " | " | " | " | " | J |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *108 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *96.8 %* | *70-130* | | " | " | " | " | |
| **BH-9 0-2' (6J02002-37) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **54.9** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **660** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **87.0** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **802** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *109 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *103 %* | *70-130* | | " | " | " | " | |
| **BH-9 5-7' (6J02002-38) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **38.8** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **873** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **108** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **1020** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *87.0 %* | *70-130* | | " | " | " | " | |
| **BH-9 10-12' (6J02002-39) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ61008 | 10/10/06 | 10/10/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *97.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *84.4 %* | *70-130* | | " | " | " | " | |

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Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

## Organics by GC
## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-10 0-2' (6J02002-41) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *82.6 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *75.4 %* | *70-130* | | " | " | " | " | |
| **BH-10 5-7' (6J02002-42) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **J [2.54]** | 10.0 | " | " | " | " | " | " | J |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *103 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *94.4 %* | *70-130* | | " | " | " | " | |
| **BH-11 0-2' (6J02002-45) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **1730** | 50.0 | mg/kg dry | 5 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **8330** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **786** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **10800** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *28.4 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *14.8 %* | *70-130* | | " | " | " | " | *S-06* |
| **BH-11 5-7' (6J02002-46) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **233** | 10.0 | mg/kg dry | 1 | EJ60203 | 10/02/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **985** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **110** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **1330** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *97.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *88.4 %* | *70-130* | | " | " | " | " | |

| | | |
|---|---|---|
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| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-11 10-12' (6J02002-47) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **41.9** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **223** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **J [9.53]** | 10.0 | " | " | " | " | " | " | J |
| **Total Hydrocarbons** | **265** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *92.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *89.2 %* | *70-130* | | " | " | " | " | |
| **BH-11 15-17' (6J02002-48) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **31.4** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **195** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **12.7** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **239** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *89.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *89.0 %* | *70-130* | | " | " | " | " | |
| **BH-11 20-22' (6J02002-49) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *84.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *80.4 %* | *70-130* | | " | " | " | " | |
| **BH-12 0-2' (6J02002-54) Soil** | | | | | | | | | |
| **Benzene** | **1.53** | 0.500 | mg/kg dry | 500 | EJ60308 | 10/02/06 | 10/03/06 | EPA 8021B | |
| **Toluene** | **5.59** | 0.500 | " | " | " | " | " | " | |
| **Ethylbenzene** | **9.18** | 0.500 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **57.8** | 0.500 | " | " | " | " | " | " | |
| **Xylene (o)** | **22.8** | 0.500 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *155 %* | *80-120* | | " | " | " | " | *S-04* |
| *Surrogate: 4-Bromofluorobenzene* | | *160 %* | *80-120* | | " | " | " | " | *S-04* |
| **Carbon Ranges C6-C12** | **990** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/02/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **1460** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **182** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **2630** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *105 %* | *70-130* | | " | " | " | " | |

Ocotillo Environmental
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## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-12 5-7' (6J02002-55) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **J [7.66]** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | J |
| **Carbon Ranges C12-C28** | **27.8** | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **27.8** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *89.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *82.4 %* | *70-130* | | " | " | " | " | |
| **BH-12 10-12' (6J02002-56) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *85.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *76.0 %* | *70-130* | | " | " | " | " | |
| **BH-13 0-2' (6J02002-59) Soil** | | | | | | | | | |
| Benzene | ND | 0.0500 | mg/kg dry | 50 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | |
| **Toluene** | **0.274** | 0.0500 | " | " | " | " | " | " | |
| **Ethylbenzene** | **0.488** | 0.0500 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **1.94** | 0.0500 | " | " | " | " | " | " | |
| **Xylene (o)** | **1.05** | 0.0500 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *118 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *106 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **788** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/02/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **2480** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **329** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **3600** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.6 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *112 %* | *70-130* | | " | " | " | " | |

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## Organics by GC
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| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-13 5-7' (6J02002-60) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *76.8 %* | *70-130* | | " | " | " | " | |
| **BH-14 0-2' (6J02002-63) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *73.2 %* | *70-130* | | " | " | " | " | |
| **BH-14 5-7' (6J02002-64) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *74.4 %* | *70-130* | | " | " | " | " | |
| **BH-15 0-2' (6J02002-67) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **24.0** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **2280** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **530** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **2830** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *105 %* | *70-130* | | " | " | " | " | |

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| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-15 5-7' (6J02002-68) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *95.6 %* | *70-130* | | " | " | " | " | |
| **BH-16 0-2' (6J02002-71) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **263** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **109** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **372** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *95.6 %* | *70-130* | | " | " | " | " | |
| **BH-16 5-7' (6J02002-72) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.6 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *94.6 %* | *70-130* | | " | " | " | " | |
| **BH-17 0-2' (6J02002-74) Soil** | | | | | | | | | |
| **Benzene** | **J [0.0583]** | 0.100 | mg/kg dry | 100 | EJ60308 | 10/02/06 | 10/04/06 | EPA 8021B | J |
| **Toluene** | **1.81** | 0.100 | " | " | " | " | " | " | |
| **Ethylbenzene** | **3.12** | 0.100 | " | " | " | " | " | " | |
| **Xylene (p/m)** | **10.7** | 0.100 | " | " | " | " | " | " | |
| **Xylene (o)** | **5.90** | 0.100 | " | " | " | " | " | " | |
| *Surrogate: a,a,a-Trifluorotoluene* | | *82.5 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.2 %* | *80-120* | | " | " | " | " | |
| **Carbon Ranges C6-C12** | **1580** | 50.0 | mg/kg dry | 5 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **5800** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **1060** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **8440** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *21.2 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *19.2 %* | *70-130* | | " | " | " | " | *S-06* |

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|---|---|---|---|---|---|---|---|---|---|
| **BH-17 5-7' (6J02002-75) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *88.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *91.4 %* | *70-130* | | " | " | " | " | |
| **BH-18 0-2' (6J02002-78) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **1010** | 50.0 | mg/kg dry | 5 | EJ60215 | 10/02/06 | 10/03/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **6930** | 50.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **1400** | 50.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **9340** | 50.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *16.9 %* | *70-130* | | " | " | " | " | *S-06* |
| *Surrogate: 1-Chlorooctadecane* | | *20.8 %* | *70-130* | | " | " | " | " | *S-06* |
| **BH-18 5-7' (6J02002-79) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *89.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *90.4 %* | *70-130* | | " | " | " | " | |
| **BH-19 0-2' (6J02002-82) Soil** | | | | | | | | | |
| **Carbon Ranges C6-C12** | **J [2.33]** | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/04/06 | EPA 8015M | J |
| **Carbon Ranges C12-C28** | **479** | 10.0 | " | " | " | " | " | " | |
| **Carbon Ranges C28-C35** | **196** | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **675** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *87.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *93.6 %* | *70-130* | | " | " | " | " | |

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|---|---|---|---|---|---|---|---|---|---|
| **BH-19 5-7' (6J02002-83) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60215 | 10/02/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *93.6 %* | *70-130* | | " | " | " | " | |
| **BH-20 0-2' (6J02002-85) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| **Carbon Ranges C12-C28** | **28.3** | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| **Total Hydrocarbons** | **28.3** | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *92.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *93.0 %* | *70-130* | | " | " | " | " | |
| **BH-20 5-7' (6J02002-86) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *98.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *95.6 %* | *70-130* | | " | " | " | " | |
| **BH-21 0-2' (6J02002-88) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *94.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *85.2 %* | *70-130* | | " | " | " | " | |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-21 5-7' (6J02002-89) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *95.6 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *86.6 %* | *70-130* | | " | " | " | " | |
| **BH-22 0-2' (6J02002-91) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *90.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *81.4 %* | *70-130* | | " | " | " | " | |
| **BH-22 5-7' (6J02002-92) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *95.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *84.4 %* | *70-130* | | " | " | " | " | |
| **BH-23 0-2' (6J02002-94) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *95.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *84.4 %* | *70-130* | | " | " | " | " | |

## Organics by GC

## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-23 5-7' (6J02002-95) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *95.8 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *82.6 %* | *70-130* | | " | " | " | " | |
| **BH-24 0-2' (6J02002-97) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *95.6 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *80.8 %* | *70-130* | | " | " | " | " | |
| **BH-24 5-7' (6J02002-98) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *93.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *76.0 %* | *70-130* | | " | " | " | " | |
| **BH-25 0-2' (6J02003-01) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *92.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *77.8 %* | *70-130* | | " | " | " | " | |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

## Organics by GC
## Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-25 5-7' (6J02003-02) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *94.2 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *78.0 %* | *70-130* | | " | " | " | " | |
| **BH-26 0-2' (6J02003-04) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *94.0 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *77.2 %* | *70-130* | | " | " | " | " | |
| **BH-26 5-7' (6J02003-05) Soil** | | | | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg dry | 1 | EJ60305 | 10/03/06 | 10/04/06 | EPA 8015M | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | " | " | " | " | " | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbons | ND | 10.0 | " | " | " | " | " | " | |
| *Surrogate: 1-Chlorooctane* | | *91.4 %* | *70-130* | | " | " | " | " | |
| *Surrogate: 1-Chlorooctadecane* | | *73.2 %* | *70-130* | | " | " | " | " | |

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| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-1 0-2' (6J02002-01) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **13.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-1 5-7' (6J02002-02) Soil** | | | | | | | | | |
| **Chloride** | **117** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **9.7** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-1 10-12' (6J02002-03) Soil** | | | | | | | | | |
| **Chloride** | **213** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **17.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-1 15-17' (6J02002-04) Soil** | | | | | | | | | |
| **Chloride** | **170** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **13.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-1 20-22' (6J02002-05) Soil** | | | | | | | | | |
| **Chloride** | **74.4** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-1 25-27' (6J02002-06) Soil** | | | | | | | | | |
| **Chloride** | **42.5** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-2 0-2' (6J02002-07) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **14.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-2 5-7' (6J02002-08) Soil** | | | | | | | | | |
| **Chloride** | **2980** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **22.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |

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| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-2 10-12' (6J02002-09) Soil** | | | | | | | | | |
| **Chloride** | **3720** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **18.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-2 15-17' (6J02002-10) Soil** | | | | | | | | | |
| **Chloride** | **191** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-2 20-22' (6J02002-11) Soil** | | | | | | | | | |
| **Chloride** | **74.4** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-3 0-2' (6J02002-12) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **14.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-3 5-7' (6J02002-13) Soil** | | | | | | | | | |
| **Chloride** | **5100** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **13.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-3 10-12' (6J02002-14) Soil** | | | | | | | | | |
| **Chloride** | **5530** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-3 15-17' (6J02002-15) Soil** | | | | | | | | | |
| **Chloride** | **3620** | 20.0 | mg/kg Wet | 2 | EJ60207 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-4 0-2' (6J02002-16) Soil** | | | | | | | | | |
| **Chloride** | **117** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **9.0** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-4 5-7' (6J02002-17) Soil** | | | | | | | | | |
| **Chloride** | **234** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **9.9** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-4 10-12' (6J02002-18) Soil** | | | | | | | | | |
| **Chloride** | **213** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-4 15-17' (6J02002-19) Soil** | | | | | | | | | |
| **Chloride** | **149** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-5 0-2' (6J02002-20) Soil** | | | | | | | | | |
| **Chloride** | **447** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-5 5-7' (6J02002-21) Soil** | | | | | | | | | |
| **Chloride** | **3510** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **10.7** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-5 10-12' (6J02002-22) Soil** | | | | | | | | | |
| **Chloride** | **1000** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-5 15-17' (6J02002-23) Soil** | | | | | | | | | |
| **Chloride** | **596** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-6 0-2' (6J02002-24) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **3.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-6 5-7' (6J02002-25) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **15.4** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-6 10-12' (6J02002-26) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |

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| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-6 15-17' (6J02002-27) Soil** | | | | | | | | | |
| **Chloride** | **31.9** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-7 0-2' (6J02002-28) Soil** | | | | | | | | | |
| **Chloride** | **340** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **3.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-7 5-7' (6J02002-29) Soil** | | | | | | | | | |
| **Chloride** | **4040** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **17.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-7 10-12' (6J02002-30) Soil** | | | | | | | | | |
| **Chloride** | **2130** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-7 15-17' (6J02002-31) Soil** | | | | | | | | | |
| **Chloride** | **893** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-7 20-22' (6J02002-32) Soil** | | | | | | | | | |
| **Chloride** | **638** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-8 0-2' (6J02002-33) Soil** | | | | | | | | | |
| **Chloride** | **532** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **8.4** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-8 5-7' (6J02002-34) Soil** | | | | | | | | | |
| **Chloride** | **2340** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **11.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-8 10-12' (6J02002-35) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60208 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.9** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |







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| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-8 15-17' (6J02002-36) Soil** | | | | | | | | | |
| **Chloride** | **106** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-9 0-2' (6J02002-37) Soil** | | | | | | | | | |
| **Chloride** | **63.8** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-9 5-7' (6J02002-38) Soil** | | | | | | | | | |
| **Chloride** | **1450** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **7.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-9 10-12' (6J02002-39) Soil** | | | | | | | | | |
| **Chloride** | **468** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **13.2** | 0.1 | % | 1 | EJ61206 | 10/12/06 | 10/12/06 | % calculation | |
| **BH-9 15-17' (6J02002-40) Soil** | | | | | | | | | |
| **Chloride** | **138** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-10 0-2' (6J02002-41) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **4.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-10 5-7' (6J02002-42) Soil** | | | | | | | | | |
| **Chloride** | **42.5** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **4.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-10 10-12' (6J02002-43) Soil** | | | | | | | | | |
| **Chloride** | **21.3** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-10 15-17' (6J02002-44) Soil** | | | | | | | | | |
| **Chloride** | **63.8** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |

| | | |
|---|---|---|
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| 2125 French Dr. | Project Number: 6-0701 | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-11 0-2' (6J02002-45) Soil** | | | | | | | | | |
| **Chloride** | **978** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **10.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-11 5-7' (6J02002-46) Soil** | | | | | | | | | |
| **Chloride** | **2980** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **12.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-11 10-12' (6J02002-47) Soil** | | | | | | | | | |
| **Chloride** | **489** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **15.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-11 15-17' (6J02002-48) Soil** | | | | | | | | | |
| **Chloride** | **298** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **16.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-11 20-22' (6J02002-49) Soil** | | | | | | | | | |
| **Chloride** | **1150** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **5.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-11 25-27' (6J02002-50) Soil** | | | | | | | | | |
| **Chloride** | **1450** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-11 30-32' (6J02002-51) Soil** | | | | | | | | | |
| **Chloride** | **307** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-11 35-37' (6J02002-52) Soil** | | | | | | | | | |
| **Chloride** | **298** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-11 45-47' (6J02002-53) Soil** | | | | | | | | | |
| **Chloride** | **149** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |

## General Chemistry Parameters by EPA / Standard Methods
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| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-12 0-2' (6J02002-54) Soil** | | | | | | | | | |
| **Chloride** | **574** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **13.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-12 5-7' (6J02002-55) Soil** | | | | | | | | | |
| **Chloride** | **3400** | 20.0 | mg/kg Wet | 2 | EJ60209 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **8.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-12 10-12' (6J02002-56) Soil** | | | | | | | | | |
| **Chloride** | **7230** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **20.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-12 15-17' (6J02002-57) Soil** | | | | | | | | | |
| **Chloride** | **3930** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-12 20-22' (6J02002-58) Soil** | | | | | | | | | |
| **Chloride** | **3400** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-13 0-2' (6J02002-59) Soil** | | | | | | | | | |
| **Chloride** | **74.4** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **12.4** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-13 5-7' (6J02002-60) Soil** | | | | | | | | | |
| **Chloride** | **1910** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **15.0** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-13 10-12' (6J02002-61) Soil** | | | | | | | | | |
| **Chloride** | **2550** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-13 15-17' (6J02002-62) Soil** | | | | | | | | | |
| **Chloride** | **1170** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |

Ocotillo Environmental
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Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-14 0-2' (6J02002-63) Soil** | | | | | | | | | |
| **Chloride** | **63.8** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **12.0** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-14 5-7' (6J02002-64) Soil** | | | | | | | | | |
| **Chloride** | **4040** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **11.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-14 10-12' (6J02002-65) Soil** | | | | | | | | | |
| **Chloride** | **5320** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-14 15-17' (6J02002-66) Soil** | | | | | | | | | |
| **Chloride** | **4040** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-15 0-2' (6J02002-67) Soil** | | | | | | | | | |
| **Chloride** | **74.4** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **7.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-15 5-7' (6J02002-68) Soil** | | | | | | | | | |
| **Chloride** | **2230** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **17.6** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-15 10-12' (6J02002-69) Soil** | | | | | | | | | |
| **Chloride** | **3620** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-15 15-17' (6J02002-70) Soil** | | | | | | | | | |
| **Chloride** | **2340** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-16 0-2' (6J02002-71) Soil** | | | | | | | | | |
| **Chloride** | **319** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **9.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |

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Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-16 5-7' (6J02002-72) Soil** | | | | | | | | | |
| **Chloride** | **1490** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.7** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-16 10-12' (6J02002-73) Soil** | | | | | | | | | |
| **Chloride** | **149** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-17 0-2' (6J02002-74) Soil** | | | | | | | | | |
| **Chloride** | **1230** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-17 5-7' (6J02002-75) Soil** | | | | | | | | | |
| **Chloride** | **3720** | 20.0 | mg/kg Wet | 2 | EJ60210 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **11.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-17 10-12' (6J02002-76) Soil** | | | | | | | | | |
| **Chloride** | **5320** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-17 15-17' (6J02002-77) Soil** | | | | | | | | | |
| **Chloride** | **2130** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-18 0-2' (6J02002-78) Soil** | | | | | | | | | |
| **Chloride** | **128** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **7.8** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-18 5-7' (6J02002-79) Soil** | | | | | | | | | |
| **Chloride** | **2980** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **12.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-18 10-12' (6J02002-80) Soil** | | | | | | | | | |
| **Chloride** | **2130** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-18 15-17' (6J02002-81) Soil** | | | | | | | | | |
| **Chloride** | **1060** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-19 0-2' (6J02002-82) Soil** | | | | | | | | | |
| **Chloride** | **138** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **6.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-19 5-7' (6J02002-83) Soil** | | | | | | | | | |
| **Chloride** | **681** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **11.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-19 10-12' (6J02002-84) Soil** | | | | | | | | | |
| **Chloride** | **893** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-20 0-2' (6J02002-85) Soil** | | | | | | | | | |
| **Chloride** | **128** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **7.8** | 0.1 | % | 1 | EJ60310 | 10/03/06 | 10/04/06 | % calculation | |
| **BH-20 5-7' (6J02002-86) Soil** | | | | | | | | | |
| **Chloride** | **3830** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **12.6** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-20 10-12' (6J02002-87) Soil** | | | | | | | | | |
| **Chloride** | **4890** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-21 0-2' (6J02002-88) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **5.0** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-21 5-7' (6J02002-89) Soil** | | | | | | | | | |
| **Chloride** | **3620** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **14.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-21 10-12' (6J02002-90) Soil** | | | | | | | | | |
| **Chloride** | **85.1** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-22 0-2' (6J02002-91) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **3.4** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-22 5-7' (6J02002-92) Soil** | | | | | | | | | |
| **Chloride** | **596** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **11.4** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-22 10-12' (6J02002-93) Soil** | | | | | | | | | |
| **Chloride** | **74.4** | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-23 0-2' (6J02002-94) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **2.3** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-23 5-7' (6J02002-95) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60211 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **8.2** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-23 10-12' (6J02002-96) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-24 0-2' (6J02002-97) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **18.9** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-24 5-7' (6J02002-98) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **31.9** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |

## General Chemistry Parameters by EPA / Standard Methods
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| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **BH-24 10-12' (6J02002-99) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-25 0-2' (6J02003-01) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **25.1** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-25 5-7' (6J02003-02) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **10.7** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-25 10-12' (6J02003-03) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **BH-26 0-2' (6J02003-04) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **4.5** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-26 5-7' (6J02003-05) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |
| **% Moisture** | **ND** | 0.1 | % | 1 | EJ60302 | 10/02/06 | 10/03/06 | % calculation | |
| **BH-26 10-12' (6J02003-06) Soil** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EJ60212 | 10/02/06 | 10/03/06 | SW 846 9253 | |

Ocotillo Environmental
2125 French Dr.
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Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60201 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Blank (EJ60201-BLK1)** | | | | Prepared & Analyzed: 10/02/06 | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *56.4* | | *mg/kg* | *50.0* | | *113* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *46.6* | | *"* | *50.0* | | *93.2* | *70-130* | | | |
| **LCS (EJ60201-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 479 | 10.0 | mg/kg wet | 500 | | 95.8 | 75-125 | | | |
| Carbon Ranges C12-C28 | 418 | 10.0 | " | 500 | | 83.6 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 897 | 10.0 | " | 1000 | | 89.7 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *62.1* | | *mg/kg* | *50.0* | | *124* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *52.9* | | *"* | *50.0* | | *106* | *70-130* | | | |
| **Calibration Check (EJ60201-CCV1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 217 | | mg/kg | 250 | | 86.8 | 80-120 | | | |
| Carbon Ranges C12-C28 | 267 | | " | 250 | | 107 | 80-120 | | | |
| Total Hydrocarbons | 484 | | " | 500 | | 96.8 | 80-120 | | | |
| *Surrogate: 1-Chlorooctane* | *64.2* | | *"* | *50.0* | | *128* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *58.4* | | *"* | *50.0* | | *117* | *70-130* | | | |
| **Matrix Spike (EJ60201-MS1)** | **Source: 6I29024-01** | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 503 | 10.0 | mg/kg dry | 535 | ND | 94.0 | 75-125 | | | |
| Carbon Ranges C12-C28 | 461 | 10.0 | " | 535 | ND | 86.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | | |
| Total Hydrocarbons | 964 | 10.0 | " | 1070 | ND | 90.1 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *64.6* | | *mg/kg* | *50.0* | | *129* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *50.6* | | *"* | *50.0* | | *101* | *70-130* | | | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60201 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Matrix Spike Dup (EJ60201-MSD1)** | **Source: 6I29024-01** | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 513 | 10.0 | mg/kg dry | 535 | ND | 95.9 | 75-125 | 1.97 | 20 | |
| Carbon Ranges C12-C28 | 489 | 10.0 | " | 535 | ND | 91.4 | 75-125 | 5.89 | 20 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | 20 | |
| Total Hydrocarbons | 1000 | 10.0 | " | 1070 | ND | 93.5 | 75-125 | 3.67 | 20 | |
| *Surrogate: 1-Chlorooctane* | *60.9* | | *mg/kg* | *50.0* | | *122* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *50.7* | | *"* | *50.0* | | *101* | *70-130* | | | |
| **Batch EJ60203 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Blank (EJ60203-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *60.7* | | *mg/kg* | *50.0* | | *121* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *54.7* | | *"* | *50.0* | | *109* | *70-130* | | | |
| **LCS (EJ60203-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 453 | 10.0 | mg/kg wet | 500 | | 90.6 | 75-125 | | | |
| Carbon Ranges C12-C28 | 411 | 10.0 | " | 500 | | 82.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 864 | 10.0 | " | 1000 | | 86.4 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *59.4* | | *mg/kg* | *50.0* | | *119* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *44.9* | | *"* | *50.0* | | *89.8* | *70-130* | | | |
| **Calibration Check (EJ60203-CCV1)** | | | | Prepared: 10/02/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 230 | | mg/kg | 250 | | 92.0 | 80-120 | | | |
| Carbon Ranges C12-C28 | 258 | | " | 250 | | 103 | 80-120 | | | |
| Total Hydrocarbons | 488 | | " | 500 | | 97.6 | 80-120 | | | |
| *Surrogate: 1-Chlorooctane* | *64.7* | | *"* | *50.0* | | *129* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *60.6* | | *"* | *50.0* | | *121* | *70-130* | | | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60203 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Matrix Spike (EJ60203-MS1)** | **Source: 6J02002-09** | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 667 | 10.0 | mg/kg dry | 611 | ND | 109 | 75-125 | | | |
| Carbon Ranges C12-C28 | 582 | 10.0 | " | 611 | ND | 95.3 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | | |
| Total Hydrocarbons | 1250 | 10.0 | " | 1220 | ND | 102 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *64.0* | | *mg/kg* | *50.0* | | *128* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *48.8* | | *"* | *50.0* | | *97.6* | *70-130* | | | |
| **Matrix Spike Dup (EJ60203-MSD1)** | **Source: 6J02002-09** | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 653 | 10.0 | mg/kg dry | 611 | ND | 107 | 75-125 | 2.12 | 20 | |
| Carbon Ranges C12-C28 | 577 | 10.0 | " | 611 | ND | 94.4 | 75-125 | 0.863 | 20 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | 20 | |
| Total Hydrocarbons | 1230 | 10.0 | " | 1220 | ND | 101 | 75-125 | 1.61 | 20 | |
| *Surrogate: 1-Chlorooctane* | *63.3* | | *mg/kg* | *50.0* | | *127* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *49.2* | | *"* | *50.0* | | *98.4* | *70-130* | | | |
| **Batch EJ60215 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Blank (EJ60215-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *50.0* | | *mg/kg* | *50.0* | | *100* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *43.7* | | *"* | *50.0* | | *87.4* | *70-130* | | | |
| **LCS (EJ60215-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 584 | 10.0 | mg/kg wet | 500 | | 117 | 75-125 | | | |
| Carbon Ranges C12-C28 | 411 | 10.0 | " | 500 | | 82.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 995 | 10.0 | " | 1000 | | 99.5 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *55.8* | | *mg/kg* | *50.0* | | *112* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *51.4* | | *"* | *50.0* | | *103* | *70-130* | | | |

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Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60215 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Calibration Check (EJ60215-CCV1)** | | | | Prepared: 10/02/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 297 | | mg/kg | 250 | | 119 | 80-120 | | | |
| Carbon Ranges C12-C28 | 237 | | " | 250 | | 94.8 | 80-120 | | | |
| Total Hydrocarbons | 534 | | " | 500 | | 107 | 80-120 | | | |
| *Surrogate: 1-Chlorooctane* | *55.6* | | " | *50.0* | | *111* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *61.5* | | " | *50.0* | | *123* | *70-130* | | | |
| **Matrix Spike (EJ60215-MS1)** | | **Source: 6J02002-55** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 634 | 10.0 | mg/kg dry | 548 | 7.66 | 114 | 75-125 | | | |
| Carbon Ranges C12-C28 | 483 | 10.0 | " | 548 | 27.8 | 83.1 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | | |
| Total Hydrocarbons | 1120 | 10.0 | " | 1100 | 27.8 | 99.3 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *50.6* | | *mg/kg* | *50.0* | | *101* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *45.2* | | " | *50.0* | | *90.4* | *70-130* | | | |
| **Matrix Spike Dup (EJ60215-MSD1)** | | **Source: 6J02002-55** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Carbon Ranges C6-C12 | 658 | 10.0 | mg/kg dry | 548 | 7.66 | 119 | 75-125 | 3.72 | 20 | |
| Carbon Ranges C12-C28 | 507 | 10.0 | " | 548 | 27.8 | 87.4 | 75-125 | 4.85 | 20 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | 20 | |
| Total Hydrocarbons | 1160 | 10.0 | " | 1100 | 27.8 | 103 | 75-125 | 3.51 | 20 | |
| *Surrogate: 1-Chlorooctane* | *52.8* | | *mg/kg* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *48.1* | | " | *50.0* | | *96.2* | *70-130* | | | |
| **Batch EJ60305 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Blank (EJ60305-BLK1)** | | | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *49.8* | | *mg/kg* | *50.0* | | *99.6* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *49.7* | | " | *50.0* | | *99.4* | *70-130* | | | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60305 - Solvent Extraction (GC)** | | | | | | | | | | |
| **LCS (EJ60305-BS1)** | | | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 593 | 10.0 | mg/kg wet | 500 | | 119 | 75-125 | | | |
| Carbon Ranges C12-C28 | 436 | 10.0 | " | 500 | | 87.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 1030 | 10.0 | " | 1000 | | 103 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *57.3* | | *mg/kg* | *50.0* | | *115* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *55.0* | | *"* | *50.0* | | *110* | *70-130* | | | |
| **Calibration Check (EJ60305-CCV1)** | | | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 288 | | mg/kg | 250 | | 115 | 80-120 | | | |
| Carbon Ranges C12-C28 | 238 | | " | 250 | | 95.2 | 80-120 | | | |
| Total Hydrocarbons | 526 | | " | 500 | | 105 | 80-120 | | | |
| *Surrogate: 1-Chlorooctane* | *57.9* | | *"* | *50.0* | | *116* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *62.7* | | *"* | *50.0* | | *125* | *70-130* | | | |
| **Matrix Spike (EJ60305-MS1)** | | **Source: 6J02002-86** | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 653 | 10.0 | mg/kg dry | 572 | ND | 114 | 75-125 | | | |
| Carbon Ranges C12-C28 | 470 | 10.0 | " | 572 | ND | 82.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | | |
| Total Hydrocarbons | 1120 | 10.0 | " | 1140 | ND | 98.2 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *54.2* | | *mg/kg* | *50.0* | | *108* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *50.2* | | *"* | *50.0* | | *100* | *70-130* | | | |
| **Matrix Spike Dup (EJ60305-MSD1)** | | **Source: 6J02002-86** | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| Carbon Ranges C6-C12 | 648 | 10.0 | mg/kg dry | 572 | ND | 113 | 75-125 | 0.769 | 20 | |
| Carbon Ranges C12-C28 | 468 | 10.0 | " | 572 | ND | 81.8 | 75-125 | 0.426 | 20 | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | ND | | 75-125 | | 20 | |
| Total Hydrocarbons | 1120 | 10.0 | " | 1140 | ND | 98.2 | 75-125 | 0.00 | 20 | |
| *Surrogate: 1-Chlorooctane* | *53.2* | | *mg/kg* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *48.7* | | *"* | *50.0* | | *97.4* | *70-130* | | | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60308 - EPA 5030C (GC)** | | | | | | | | | | |
| **Blank (EJ60308-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Benzene | ND | 0.0250 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.0250 | " | | | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | | | |
| Xylene (p/m) | ND | 0.0250 | " | | | | | | | |
| Xylene (o) | ND | 0.0250 | " | | | | | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *35.0* | | *ug/kg* | *40.0* | | *87.5* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *39.6* | | *"* | *40.0* | | *99.0* | *80-120* | | | |
| **LCS (EJ60308-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Benzene | 1.48 | 0.0250 | mg/kg wet | 1.25 | | 118 | 80-120 | | | |
| Toluene | 1.28 | 0.0250 | " | 1.25 | | 102 | 80-120 | | | |
| Ethylbenzene | 1.34 | 0.0250 | " | 1.25 | | 107 | 80-120 | | | |
| Xylene (p/m) | 2.73 | 0.0250 | " | 2.50 | | 109 | 80-120 | | | |
| Xylene (o) | 1.37 | 0.0250 | " | 1.25 | | 110 | 80-120 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *36.6* | | *ug/kg* | *40.0* | | *91.5* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *46.4* | | *"* | *40.0* | | *116* | *80-120* | | | |
| **Calibration Check (EJ60308-CCV1)** | | | | Prepared: 10/02/06 Analyzed: 10/04/06 | | | | | | |
| Benzene | 48.7 | | ug/kg | 50.0 | | 97.4 | 80-120 | | | |
| Toluene | 44.8 | | " | 50.0 | | 89.6 | 80-120 | | | |
| Ethylbenzene | 48.0 | | " | 50.0 | | 96.0 | 80-120 | | | |
| Xylene (p/m) | 95.0 | | " | 100 | | 95.0 | 80-120 | | | |
| Xylene (o) | 46.4 | | " | 50.0 | | 92.8 | 80-120 | | | |
| *Surrogate: a,a,a-Trifluorotoluene* | *35.7* | | *"* | *40.0* | | *89.2* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.4* | | *"* | *40.0* | | *108* | *80-120* | | | |
| **Matrix Spike (EJ60308-MS1)** | | **Source: 6J02012-04** | | Prepared: 10/02/06 Analyzed: 10/04/06 | | | | | | |
| Benzene | 1.11 | 0.0250 | mg/kg dry | 1.30 | ND | 85.4 | 80-120 | | | |
| Toluene | 1.04 | 0.0250 | " | 1.30 | ND | 80.0 | 80-120 | | | |
| Ethylbenzene | 1.25 | 0.0250 | " | 1.30 | 0.0248 | 94.2 | 80-120 | | | |
| Xylene (p/m) | 2.36 | 0.0250 | " | 2.59 | 0.138 | 85.8 | 80-120 | | | |
| Xylene (o) | 1.13 | 0.0250 | " | 1.30 | 0.0957 | 79.6 | 80-120 | | | M8 |
| *Surrogate: a,a,a-Trifluorotoluene* | *33.2* | | *ug/kg* | *40.0* | | *83.0* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *42.8* | | *"* | *40.0* | | *107* | *80-120* | | | |

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Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60308 - EPA 5030C (GC)** | | | | | | | | | | |
| **Matrix Spike Dup (EJ60308-MSD1)** | **Source: 6J02012-04** | | | Prepared: 10/02/06 Analyzed: 10/04/06 | | | | | | |
| Benzene | 1.20 | 0.0250 | mg/kg dry | 1.30 | ND | 92.3 | 80-120 | 7.77 | 20 | |
| Toluene | 1.11 | 0.0250 | " | 1.30 | ND | 85.4 | 80-120 | 6.53 | 20 | |
| Ethylbenzene | 1.07 | 0.0250 | " | 1.30 | 0.0248 | 80.4 | 80-120 | 15.8 | 20 | |
| Xylene (p/m) | 2.55 | 0.0250 | " | 2.59 | 0.138 | 93.1 | 80-120 | 8.16 | 20 | |
| Xylene (o) | 1.22 | 0.0250 | " | 1.30 | 0.0957 | 86.5 | 80-120 | 8.31 | 20 | |
| *Surrogate: a,a,a-Trifluorotoluene* | *33.8* | | *ug/kg* | *40.0* | | *84.5* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.0* | | *"* | *40.0* | | *108* | *80-120* | | | |
| **Batch EJ61008 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Blank (EJ61008-BLK1)** | | | | Prepared & Analyzed: 10/10/06 | | | | | | |
| Carbon Ranges C6-C12 | ND | 10.0 | mg/kg wet | | | | | | | |
| Carbon Ranges C12-C28 | ND | 10.0 | " | | | | | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | | | | | | | |
| Total Hydrocarbons | ND | 10.0 | " | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *48.0* | | *mg/kg* | *50.0* | | *96.0* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *41.2* | | *"* | *50.0* | | *82.4* | *70-130* | | | |
| **LCS (EJ61008-BS1)** | | | | Prepared & Analyzed: 10/10/06 | | | | | | |
| Carbon Ranges C6-C12 | 434 | 10.0 | mg/kg wet | 500 | | 86.8 | 75-125 | | | |
| Carbon Ranges C12-C28 | 401 | 10.0 | " | 500 | | 80.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | ND | 10.0 | " | 0.00 | | | 75-125 | | | |
| Total Hydrocarbons | 835 | 10.0 | " | 1000 | | 83.5 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *59.7* | | *mg/kg* | *50.0* | | *119* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *43.4* | | *"* | *50.0* | | *86.8* | *70-130* | | | |
| **Calibration Check (EJ61008-CCV1)** | | | | Prepared & Analyzed: 10/10/06 | | | | | | |
| Carbon Ranges C6-C12 | 204 | | mg/kg | 250 | | 81.6 | 80-120 | | | |
| Carbon Ranges C12-C28 | 262 | | " | 250 | | 105 | 80-120 | | | |
| Total Hydrocarbons | 466 | | " | 500 | | 93.2 | 80-120 | | | |
| *Surrogate: 1-Chlorooctane* | *53.0* | | *"* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *47.0* | | *"* | *50.0* | | *94.0* | *70-130* | | | |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ61008 - Solvent Extraction (GC)** | | | | | | | | | | |
| **Matrix Spike (EJ61008-MS1)** | **Source: 6J09006-02** | | | Prepared: 10/10/06 | Analyzed: 10/12/06 | | | | | |
| Carbon Ranges C6-C12 | 547 | 10.0 | mg/kg dry | 611 | ND | 89.5 | 75-125 | | | |
| Carbon Ranges C12-C28 | 511 | 10.0 | " | 611 | 20.7 | 80.2 | 75-125 | | | |
| Carbon Ranges C28-C35 | 8.88 | 10.0 | " | 0.00 | 13.4 | | 75-125 | | | J |
| Total Hydrocarbons | 1060 | 10.0 | " | 1220 | 34.1 | 84.1 | 75-125 | | | |
| *Surrogate: 1-Chlorooctane* | *52.8* | | *mg/kg* | *50.0* | | *106* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *46.4* | | *"* | *50.0* | | *92.8* | *70-130* | | | |
| **Matrix Spike Dup (EJ61008-MSD1)** | **Source: 6J09006-02** | | | Prepared: 10/10/06 | Analyzed: 10/11/06 | | | | | |
| Carbon Ranges C6-C12 | 529 | 10.0 | mg/kg dry | 611 | ND | 86.6 | 75-125 | 3.35 | 20 | |
| Carbon Ranges C12-C28 | 507 | 10.0 | " | 611 | 20.7 | 79.6 | 75-125 | 0.786 | 20 | |
| Carbon Ranges C28-C35 | 7.33 | 10.0 | " | 0.00 | 13.4 | | 75-125 | 19.1 | 20 | J |
| Total Hydrocarbons | 1040 | 10.0 | " | 1220 | 34.1 | 82.5 | 75-125 | 1.90 | 20 | |
| *Surrogate: 1-Chlorooctane* | *51.9* | | *mg/kg* | *50.0* | | *104* | *70-130* | | | |
| *Surrogate: 1-Chlorooctadecane* | *47.8* | | *"* | *50.0* | | *95.6* | *70-130* | | | |

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Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60207 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60207-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| **LCS (EJ60207-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 91.5 | 5.00 | mg/kg Wet | 100 | | 91.5 | 80-120 | | | |
| **Matrix Spike (EJ60207-MS1)** | | **Source: 6I29019-01** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 3400 | 20.0 | mg/kg Wet | 500 | 2980 | 84.0 | 80-120 | | | |
| **Matrix Spike Dup (EJ60207-MSD1)** | | **Source: 6I29019-01** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 3400 | 20.0 | mg/kg Wet | 500 | 2980 | 84.0 | 80-120 | 0.00 | 20 | |
| **Reference (EJ60207-SRM1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 50.0 | | mg/kg | 50.0 | | 100 | 80-120 | | | |
| **Batch EJ60208 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60208-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| **LCS (EJ60208-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 93.6 | 5.00 | mg/kg Wet | 100 | | 93.6 | 80-120 | | | |
| **Matrix Spike (EJ60208-MS1)** | | **Source: 6J02002-17** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 744 | 20.0 | mg/kg Wet | 500 | 234 | 102 | 80-120 | | | |
| **Matrix Spike Dup (EJ60208-MSD1)** | | **Source: 6J02002-17** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 755 | 20.0 | mg/kg Wet | 500 | 234 | 104 | 80-120 | 1.47 | 20 | |

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Project Number: 6-0701
Project Manager: Cindy Crain

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60208 - Water Extraction** | | | | | | | | | | |
| **Reference (EJ60208-SRM1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 51.0 | | mg/kg | 50.0 | | 102 | 80-120 | | | |
| **Batch EJ60209 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60209-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| **LCS (EJ60209-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 91.5 | 5.00 | mg/kg Wet | 100 | | 91.5 | 80-120 | | | |
| **Matrix Spike (EJ60209-MS1)** | | **Source: 6J02002-36** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 617 | 20.0 | mg/kg Wet | 500 | 106 | 102 | 80-120 | | | |
| **Matrix Spike Dup (EJ60209-MSD1)** | | **Source: 6J02002-36** | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 627 | 20.0 | mg/kg Wet | 500 | 106 | 104 | 80-120 | 1.61 | 20 | |
| **Reference (EJ60209-SRM1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 51.0 | | mg/kg | 50.0 | | 102 | 80-120 | | | |
| **Batch EJ60210 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60210-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| **LCS (EJ60210-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 92.5 | 5.00 | mg/kg Wet | 100 | | 92.5 | 80-120 | | | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60210 - Water Extraction** | | | | | | | | | | |
| **Matrix Spike (EJ60210-MS1)** | | **Source: 6J02002-56** | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 7760 | 20.0 | mg/kg Wet | 500 | 7230 | 106 | 80-120 | | | |
| **Matrix Spike Dup (EJ60210-MSD1)** | | **Source: 6J02002-56** | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 7760 | 20.0 | mg/kg Wet | 500 | 7230 | 106 | 80-120 | 0.00 | 20 | |
| **Reference (EJ60210-SRM1)** | | | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 50.0 | | mg/kg | 50.0 | | 100 | 80-120 | | | |
| **Batch EJ60211 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60211-BLK1)** | | | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| **LCS (EJ60211-BS1)** | | | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 92.5 | 5.00 | mg/kg Wet | 100 | | 92.5 | 80-120 | | | |
| **Matrix Spike (EJ60211-MS1)** | | **Source: 6J02002-76** | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 5850 | 20.0 | mg/kg Wet | 500 | 5320 | 106 | 80-120 | | | |
| **Matrix Spike Dup (EJ60211-MSD1)** | | **Source: 6J02002-76** | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 5740 | 20.0 | mg/kg Wet | 500 | 5320 | 84.0 | 80-120 | 1.90 | 20 | |
| **Reference (EJ60211-SRM1)** | | | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | 50.0 | | mg/kg | 50.0 | | 100 | 80-120 | | | |
| **Batch EJ60212 - Water Extraction** | | | | | | | | | | |
| **Blank (EJ60212-BLK1)** | | | | Prepared: 10/02/06 | | Analyzed: 10/03/06 | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

Fax: (432) 367-6747

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60212 - Water Extraction** | | | | | | | | | | |
| **LCS (EJ60212-BS1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 91.5 | 5.00 | mg/kg Wet | 100 | | 91.5 | 80-120 | | | |
| **Matrix Spike (EJ60212-MS1)** | | Source: 6J02002-96 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 510 | 20.0 | mg/kg Wet | 500 | 0.00 | 102 | 80-120 | | | |
| **Matrix Spike Dup (EJ60212-MSD1)** | | Source: 6J02002-96 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 510 | 20.0 | mg/kg Wet | 500 | 0.00 | 102 | 80-120 | 0.00 | 20 | |
| **Reference (EJ60212-SRM1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| Chloride | 51.0 | | mg/kg | 50.0 | | 102 | 80-120 | | | |
| **Batch EJ60302 - General Preparation (Prep)** | | | | | | | | | | |
| **Blank (EJ60302-BLK1)** | | | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| % Solids | 100 | | % | | | | | | | |
| **Duplicate (EJ60302-DUP1)** | | Source: 6I29020-01 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| % Solids | 96.7 | | % | | 96.6 | | | 0.103 | 20 | |
| **Duplicate (EJ60302-DUP2)** | | Source: 6J02002-09 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| % Solids | 81.4 | | % | | 81.8 | | | 0.490 | 20 | |
| **Duplicate (EJ60302-DUP3)** | | Source: 6J02002-37 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| % Solids | 91.2 | | % | | 93.2 | | | 2.17 | 20 | |
| **Duplicate (EJ60302-DUP4)** | | Source: 6J02002-74 | | Prepared: 10/02/06 Analyzed: 10/03/06 | | | | | | |
| % Solids | 94.8 | | % | | 93.2 | | | 1.70 | 20 | |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch EJ60310 - General Preparation (Prep)** | | | | | | | | | | |
| **Blank (EJ60310-BLK1)** | | | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| % Solids | 99.9 | | % | | | | | | | |
| **Duplicate (EJ60310-DUP1)** | | **Source: 6J02012-01** | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| % Solids | 97.9 | | % | | 96.3 | | | 1.65 | 20 | |
| **Duplicate (EJ60310-DUP2)** | | **Source: 6J03004-15** | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| % Solids | 93.3 | | % | | 93.3 | | | 0.00 | 20 | |
| **Duplicate (EJ60310-DUP3)** | | **Source: 6J03010-04** | | Prepared: 10/03/06 Analyzed: 10/04/06 | | | | | | |
| % Solids | 97.9 | | % | | 97.7 | | | 0.205 | 20 | |
| **Batch EJ61206 - General Preparation (Prep)** | | | | | | | | | | |
| **Blank (EJ61206-BLK1)** | | | | Prepared & Analyzed: 10/12/06 | | | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| **Duplicate (EJ61206-DUP1)** | | **Source: 6J11013-01** | | Prepared & Analyzed: 10/12/06 | | | | | | |
| % Moisture | 17.7 | 0.1 | % | | 14.9 | | | 17.2 | 20 | |

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Hobbs NM, 88201

Project: Cimarex- Skelly Penrose #90
Project Number: 6-0701
Project Manager: Cindy Crain

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## Notes and Definitions

| | |
|---|---|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| M8 | The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS). |
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |

Report Approved By: Celey D. Keene Date: 10/13/06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

| LAB # (lab use only) 10/2/06 | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | HNO3 | HCl | NaOH | H2SO4 | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | BH-1 (0-2') | 9/27/06 | 0855 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | ✓ |
| 02 | " (5-7') | " | 0904 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 03 | " (10-12') | " | 0909 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 04 | " (15-17') | " | 0914 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 05 | " (20-22') | " | 0918 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 06 | " (25-27') | " | 0926 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 07 | BH-2 (0-2') | " | 0943 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | ✓ |
| 08 | " (5-7') | " | 0946 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 09 | " (10-12') | " | 0952 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 10 | " (15-17') | " | 0956 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? (Y) N
ID Labels on container? (Y) N
Custody Seals: Containers / Cooler —
Temperature Upon Receipt: 2.5
Laboratory Comments: 4oz glass

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Corrie Vela | 10/2/06 | 9:25 |

# Environmental Lab of Texas

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Odessa, Texas 79765
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

650202

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | Preservative: $HNO_3$ | Preservative: HCl | Preservative: NaOH | Preservative: $H_2SO_4$ | Preservative: None | Preservative: Other (Specify) | Matrix: Water | Matrix: Sludge | Matrix: Soil | Matrix: Other (specify): | Analyze For: TCLP: TPH: 418.1 8015M 1005 1006 | Analyze For: TOTAL: TPH: 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | BH-2 (20-22') | 9/27/06 | 1000 | 1 | ✓ | | | | | | | | | ✓ | | | ✓ | | ✓ | | | | | | | | | ✓ |
| 12 | BH-3 (0-2') | " | 1033 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | ✓ |
| 13 | " (5-7') | " | 1039 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | ✓ |
| 14 | " (10-12') | " | 1044 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | ✓ |
| 15 | " (15-17') | " | 1048 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | ✓ |
| 16 | BH-4 (0-2') | " | 1101 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | ✓ |
| 17 | " (5-7') | " | 1105 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | ✓ |
| 18 | " (10-12') | " | 1110 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | ✓ |
| 19 | " (15-17') | " | 1114 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | ✓ |
| 20 | BH-5 (0-2') | " | 1215 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | ✓ | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? (Y) N
Custody Seals: Containers / Cooler ____
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Calvin Cox | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

| LAB # (lab use only) 6J0202 | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006 | TOTAL: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B / 5030 or BTEX 8260 | RCI | N.O.R.M. | | | | | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | BH-5 (5-7') | 9/27/06 | 1220 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | ✓ | | | | | | | | | | | | | ✓ |
| 22 | " (10-12') | " | 1224 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 23 | " (15-17') | " | 1227 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 24 | BH-6 (0-2') | " | 1225 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | | ✓ |
| 25 | " (5-7') | " | 1240 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | | ✓ |
| 26 | " (10-12') | " | 1244 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 27 | " (15-17') | " | 1247 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 28 | BH-7 (0-2') | " | 1300 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | ✓ | | | | | | | | ✓ |
| 29 | " (5-7') | " | 1307 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | | ✓ |
| 30 | " (10-12') | " | 1310 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? Y (N)
Custody Seals: Containers / Cooler —
Temperature Upon Receipt.

Laboratory Comments: 4oz glass

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Carrie Kelly | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

6J02002

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, $SO_4$, $CO_3$, $HCO_3$) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B / 5030 or BTEX 8260 | RCI | N.O.R.M. | | | | | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | BH-7 (15-17') | 9/27/06 | 1313 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| 32 | " (20-22') | " | 1320 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| 33 | BH-8 (0-2') | " | 1330 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | | | | | ✓ |
| 34 | " (5-7') | " | 1336 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | | | | | ✓ |
| 35 | " (10-12') | " | 1342 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |
| 36 | " (15-17') | " | 1348 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| 37 | BH-9 (0-2') | " | 1412 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |
| 38 | " (5-7') | " | 1416 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |
| 39 | " (10-12') | " | 1421 | 1 | ✓ | | | | | | | | | ✓ | | X | | ✓ | | | | | | | | | | | | | ✓ |
| 40 | " (15-17') | " | 1424 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |

Special Instructions: *Add 8015 on 10/10/06 as per attached e-mail.

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler —
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Noelia Ibarra | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

LAB # (lab use only): 650202

| LAB # | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006 | TOTAL: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B / 5030 or BTEX 8260 | RCI | N O R M | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | BH-10 (0-2') | 9/27/06 | 1440 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 42 | " (5-7') | " | 1443 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 43 | " (10-12') | " | 1446 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 44 | " (15-17') | " | 1449 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 45 | BH-11 (0-2') | 9/28/06 | 0844 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 46 | " (5-7') | " | 0850 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 47 | " (10-12') | " | 0853 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 48 | " (15-17') | " | 0855 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 49 | " (20-22') | " | 0859 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 50 | " (25-27') | " | 0904 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Carin Wells | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

6J02002

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, $SO_4$, $CO_3$, $HCO_3$) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | | | | | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -51 | BH-11 (30-32') | 9/28/06 | 0912 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| -52 | " (35-37') | " | 0921 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| -53 | " (45-47') | " | 0945 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| -54 | BH-12 (0-2') | " | 1000 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | | | | | ✓ |
| -55 | " (5-7') | " | 1005 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |
| -56 | " (10-12') | " | 1009 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |
| -57 | " (15-17') | " | 1012 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| -58 | " (20-22') | " | 1016 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ |
| -59 | BH-13 (0-2') | " | 1032 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | | | | | ✓ |
| -60 | " (5-7') | " | 1036 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Noemi Valdez | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

| LAB # (lab use only) 6J02002 | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TOTAL: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B / 5030 or BTEX 8260 | RCI | N.O.R.M. | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | BH-13 (10-12') | 9/28/06 | 1040 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 62 | " (15-17') | " | 1044 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 63 | BH-14 (0-2') | " | 1102 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 64 | " (5-7') | " | 1107 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 65 | " (10-12') | " | 1111 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 66 | " (15-17') | " | 1115 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 67 | BH-15 (0-2') | " | 1128 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 68 | " (5-7') | " | 1135 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 69 | " (10-12') | " | 1140 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 70 | " (15-17') | " | 1143 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Carri Kelly | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

6/6/2007

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | HNO3 | HCl | NaOH | H2SO4 | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 / 8015B / 1005 / 1006 | TOTAL: TPH: 418.1 / 8015B / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B / 5030 or BTEX 8260 | RCI | N.O.R.M. | | | | | | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | BH-16 (0-2') | 9/28/06 | 1300 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | | | | | | ✓ |
| 12 | " (5-7') | " | 1305 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | | | | | | ✓ |
| 13 | " (10-12') | " | 1310 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 14 | BH-17 (0-2') | " | 1325 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | ✓ | | | | | | | | | | ✓ |
| 15 | " (5-7') | " | 1331 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | | | | | | ✓ |
| 16 | " (10-12') | " | 1335 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 17 | " (15-17') | " | 1342 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | ✓ |
| 18 | BH-18 (0-2') | " | 1346 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | | | | | | ✓ |
| 19 | " (5-7') | " | 1352 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | | ✓ | | | | | | | | | | | | | | ✓ |
| 20 | " (10-12') | " | 1356 | 1 | ✓ | | | | | | | | | ✓ | | | | | ✓ | | | | | | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? Y (N)
Custody Seals: Containers / Cooler
Temperature Upon Receipt

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Carrie Kelly | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

| LAB # (lab use only) 6J02002 | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | TOTAL: BTEX 8021B / 5030 or BTEX 8260 | RCI | N.O.R.M | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | BH-18 (15-17') | 9/28/06 | 1402 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 82 | BH-19 (0-2') | " | 1406 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 83 | " (5-7') | " | 1409 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 84 | " (10-12') | " | 1411 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 85 | BH-20 (0-2') | " | 1420 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 86 | " (5-7') | " | 1424 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 87 | " (10-12') | " | 1426 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| 88 | BH-21 (0-2') | " | 1440 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 89 | " (5-7') | " | 1445 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| 90 | " (10-12') | " | 1448 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? (Y) N
Custody Seals: Containers / Cooler
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Noeen Leef | 10/2/06 | 9:25 |

# Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

6J02002

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006 | TOTAL: TPH: 418.1 (8015M) 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 80218/5030 or BTEX 8260 | RCI | N.O.R.M | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -91 | BH-22 (0-2') | 9/29/06 | 0846 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -92 | " (5-7') | " | 0852 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -93 | " (10-12') | " | 0855 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | ✓ |
| -94 | BH-23 (0-2') | " | 0908 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -95 | " (5-7') | " | 0912 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -96 | " (10-12') | " | 0915 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | ✓ |
| -97 | BH-24 (0-2') | " | 0921 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -98 | " (5-7') | " | 0926 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |
| -99 | " (10-12') | " | 0929 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | | ✓ |
| J02003-100 | BH-25 (0-2') | " | 0939 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt.

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Caren Kelly | 10/2/06 | 9:25 |

# Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Ocotillo Environmental
Company Address: 2125 French Drive, P.O. Box 1816
City/State/Zip: Hobbs, NM 88241
Telephone No: (505) 441-7244 Fax No: (432) 272-0304
Sampler Signature: Cindy Crain
Email: cindy.crain@gmail.com

Project Name: Cimarex - Skelly Penrose #90
Project #: 6-0701
Project Loc: Sec. 10, T23S, R37E
PO #:

| LAB # (lab use only) | FIELD CODE | Date Sampled | Time Sampled | No. of Containers | Preservative: Ice | HNO3 | HCl | NaOH | H2SO4 | None | Other (Specify) | Matrix: Water | Sludge | Soil | Other (specify): | Analyze For: TPH: 418.1 / 1005 / 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N O R M | RUSH TAT (Pre-Schedule) | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10362005 | | | | | | | | | | | | | | | | TCLP: | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | TOTAL: | | | | | | | | | | | |
| ~~01~~ 02 | BH-25 (5-7') | 9/29/06 | 0942 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| ~~02~~ 03 | " (10-12') | " | 0945 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| ~~03~~ 04 | BH-26 (0-2') | " | 0952 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| ~~04~~ 05 | " (5-7') | " | 0955 | 1 | ✓ | | | | | | | | | ✓ | | ✓ | | ✓ | | | | | | | | | ✓ |
| ~~05~~ 06 | " (10-12') | " | 0959 | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| | | | | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| | | | | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| | | | | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| | | | | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |
| | | | | 1 | ✓ | | | | | | | | | ✓ | | | | ✓ | | | | | | | | | ✓ |

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? Y (N)
Custody Seals: Containers / Cooler
Temperature Upon Receipt

Laboratory Comments:

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cindy Crain | 10/2/06 | 0925 | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Caren Kelly | 10/2/06 | 9:25 |

# Environmental Lab of Texas

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

Client: Ocotillo

Date/ Time: 10/2/06 9:25

Lab ID # : 610200 2 & 610200 3

Initials: CK

### Sample Receipt Checklist

| | | | | | Client Initials |
|---|---|---|---|---|---|
| #1 | Temperature of container/ cooler? | Yes | No | 2.5 °C | |
| #2 | Shipping container in good condition? | ~~Yes~~ | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | Yes | No | ~~Not Present~~ | |
| #4 | Custody Seals intact on sample bottles/ container? | Yes | No | ~~Not Present~~ | |
| #5 | Chain of Custody present? | ~~Yes~~ | No | | |
| #6 | Sample instructions complete of Chain of Custody? | ~~Yes~~ | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | ~~Yes~~ | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | Yes | No | ID written on Cont/ (Lid) | |
| #9 | Container label(s) legible and intact? | Yes | No | ~~Not Applicable~~ | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | ~~Yes~~ | No | | |
| #11 | Containers supplied by ELOT? | ~~Yes~~ | No | | |
| #12 | Samples in proper container/ bottle? | ~~Yes~~ | No | See Below | |
| #13 | Samples properly preserved? | ~~Yes~~ | No | See Below | |
| #14 | Sample bottles intact? | ~~Yes~~ | No | | |
| #15 | Preservations documented on Chain of Custody? | ~~Yes~~ | No | | |
| #16 | Containers documented on Chain of Custody? | ~~Yes~~ | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | ~~Yes~~ | No | See Below | |
| #18 | All samples received within sufficient hold time? | ~~Yes~~ | No | See Below | |
| #19 | VOC samples have zero headspace? | Yes | No | Not Applicable | |

### Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

**Jeanne McMurrey**

**From:** "Cindy Crain" <cindy.crain@gmail.com>
**To:** "Jeanne McMurrey" <jeanne@elabtexas.com>
**Sent:** Monday, October 09, 2006 4:14 PM
**Subject:** [Norton AntiSpam] Re: report #6J02002 Cimarex-Skelly Penrose #90

Jeanne,

Would you please run analysis for TPH and Chloride on the BH-9 (10-12' sample). The sample was collected on 9/27/06.

Thank you!
Cindy Crain

On 10/9/06, **Jeanne McMurrey** <jeanne@elabtexas.com> wrote:

> Jeanne McMurrey
> Environmental Lab of Texas I, Ltd.
> 12600 West I-20 East
> Odessa, Texas 79765
> 432-563-1800
>
> --
> This message has been scanned for viruses and
> dangerous content by **BasinBroadband, and is**
> **believed to be clean.**

--
**Cindy Crain**
**Environmental Manager**

**Ocotillo Environmental**
**2125 French Drive**
**Hobbs, NM 88240**

**Office (505) 393-6371**
**Cell (505) 441-7244**
**Fax (432) 272-0304**

# C141 DOCUMENTATION

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company Cimarex Energy Co. of Colorado | Contact Hugo Naegele Jr. |
| Address 300 Texas Ave, PO Box 1237, Eunice, NM 88231 | Telephone No. 505-394-0613 505-390-9394 |
| Facility Name Skelly Penrose Unit #90 | Facility Type Oil & Gas |

| | | |
|---|---|---|
| Surface Owner Sims Estate | Mineral Owner | Lease No. API 30-025-33983 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| A | 9 | 23s | 37e | 160' | N | 46' | E | Lea |

**Latitude** N 32 19.527' **Longitude W 103 09.510'**

## NATURE OF RELEASE

| | | | |
|---|---|---|---|
| Type of Release | Oil & Water | Volume of Release 180 bbls | Volume Recovered 180 bbls |
| Source of Release | Trunkline leak | Date and Hour of Occurrence | Date and Hour of Discovery 8-14-06 |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | | If YES, To Whom? Gary Wink, OCD | |
| By Whom? Hugo Naegele Jr. | | Date and Hour 8-17-06 9:40 am | |
| Was a Watercourse Reached? ☐ Yes ☒ No | | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* ☐The leak occurred on the trunkline from the satellite #6 to Battery #1 on the Skelly Penrose Unit Lease. Remedial Action Taken: 1) Call for vacuum truck to pick up spill. 2) Called NMOCD. 3) Called roustabout crew to repair leak. 4) Call Shaw Environmental to take samples. 5) Called land owner.

Describe Area Affected and Cleanup Action Taken.*
The area affected was sandy terrain. A few mesquitos, chenery, broom weed and very little grass.
Action Taken: 1) Vaccum truck to pick up spill. 2) Roustabout crew and backhoe to repair line. 3) Called Shaw Envirnmental.

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

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Hugo Naegele Jr. | Approved by District Supervisor: Eric Gueer | |
| Title: Production Foreman | Approval Date: 5.9.07 | Expiration Date: |
| E-mail Address: hnaegele@cimarex.com | Conditions of Approval: | Attached ☐ |
| Date: 8-17-06 Phone: 505-394-0613 | | |

* Attach Additional Sheets If Necessary

1012