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

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DEC 07 2008
HOBBS OCD

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-144
June 1, 2004

**For drilling and production facilities**, submit to appropriate NMOCD District Office.
**For downstream facilities**, submit to Santa Fe office

# Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: BOLD ENERGY, LP Telephone: 432-686-1100 e-mail address:
Address: 415 W WALL MIDLAND, TX 79701
Facility or well name: ANTELOPE RIDGE UNIT 12 API #: 30-025-37625 U/L or Qtr/Qtr: A Sec 33 T 23S R 34E
County: LEA Latitude 32°-15'-56.6" N Longitude 103°-28'-7.4 W NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☑ Indian ☐
ELEV 3481

| Pit | Below-grade tank | |
|---|---|---|
| Type: Drilling ☑ Production ☐ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☑ Unlined ☐<br>Liner type: Synthetic ☑ Thickness 12 mil Clay ☐<br>Pit Volume 2500 bbl | Volume: ____bbl Type of fluid: _____<br>Construction material: _____<br>Double-walled, with leak detection? Yes ☐ If not, explain why not. | N/A |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) 300' BGS +/- | Less than 50 feet<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points)<br>(0 points) 0 |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes<br>No | (20 points)<br>(0 points) 0 |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>(0 points) 0 |
| | **Ranking Score (Total Points)** | 0 |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☒ offsite ☐ If offsite, name of facility N/A. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface NA ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PLEASE SEE ATTACHED WORK PLAN

RECEIVED FEB 2007 Hobbs OCD

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 1/25/07
Printed Name/Title Danny Money Prod. Supt. Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title CHRIS WILLIAMS / DIST. SUPV Signature Chris Williams Date: 2/23/07

PHOENIX ENVIRONMENTAL LLC

P.O. Box 1856 2113 French Dr. Hobbs, NM 88241-1856 Office 505-391-9685 Fax 505-391-9687

February 5, 2007

Bold Energy, LP
415 W. Wall, Suite 500
Midland, Texas 79701

Attn: Mr. Donny Money

**RE: Work Plan to clean up Antelope Ridge Unit #12 reserve drilling pit located in Unit Letter A, Sec 33 T23S R34E of Lea County, New Mexico**

Dear Mr. Money:

Phoenix Environmental, LLC (Phoenix) would like to take this time to thank you and Bold Energy, LP for the opportunity to provide our professional services for the site remediation of the above listed site.

If you have any questions and/or need more data in regards to this project please call 505-631-8314 at any time.

Sincerely,

Allen Hodge, REM
VP Operations
Phoenix Environmental, LLC

# *Antelope Ridge Unit #12*

*SECTION 33, T23S, R34E of Lea County, NM*

*GPS Reading of 32°-15'-56.6" N & 103°-28'-7.4" W*

*API #30-025-37625*

# *Reserve Drilling Pit Closure Report*

RECEIVED
DEC 09 2008
HOBBSOCD

*Presented to:*

## *Bold Energy, LP*

*415 W. Wall, Ste. 500*
*Midland, Texas 79701*

*Prepared by:*

## *Phoenix Environmental, LLC.*

*P.O. Box 1856*
*Hobbs, New Mexico 88241*

# TABLE OF CONTENTS

# *SECTION I*

## Summary/Overview

The Antelope Ridge Unit #12 drilling pit site should be completed and remediated in accordance with the standards of the NMOCD. It is our understanding that any potential contamination from the site was a result of activities associated with the drilling and production of oil and gas.

The potential contaminates of concern are mid- to high-level concentrations of salt water, drilling mud, and drilling fluids that were left after drilling operations were completed.

The land's primary use is domestic pasture for ranching and the production of oil and gas.

The ground water depth data available for this area showed the depth to ground water to be in the 300' range BGS.

Pursuant to the standards of the NMOCD, the clean up level for this site will be at <5,000ppm of TPH, <50ppm for BTEX and Chlorides (Cl) less than <250ppm.

The following scope of work was based on data from our site visit, and the requirements of the NMOCD for site clean up.

## Scope of Work for Entombment of Impacted Soils

**NOTE:** For the purpose of this work plan, Phoenix will estimate that there is approximately 2,500cyds of impacted soils and mud at the site that needs to be addressed for site closure.

1. Phoenix will call One-Call for line spot clearance before any excavation at the site is started.

2. Phoenix will mobilize equipment and personnel necessary to start and complete the site remediation as required, getting the site back into compliance.

3. The site will be cleared of brush and debris, and a staging area will be set up for site control and safety.

4. Phoenix will move the stockpile of soils on the backside of the pits back to allow room to excavate the tomb to hold the contents of the pit. While leaving the top of the impacted soils at a minimum of three feet below grade, the size of the tomb will need to be 150x30x20 and will yield an estimated 3,333cyds of total material and will hold an estimated 2,700cyds of impacted soils.

5. Once the tomb area has been excavated, it will be lined with 12mil HDPE bottom and a 20mil top with enough to fold back over the top of the impacted soils before backfilling.

6. Impacted soils at the site will then be excavated and transported to the lined tomb area until the top of the impacted soils are at a minimum of three feet below grade.

7. Phoenix will field screen the site during the excavation. Once the TPH and Cl have dropped below clean up requirements, final samples will be taken and sent to a third party lab for analysis.

8. Once all of the remediation criteria have been met for site closure and compliance, the site will be backfilled with clean material from the site. The site will be contoured with a slight crown to prevent the ponding of any water and reseeded.

9. Once all of the closure criteria have been met, a final closure report will be prepared by Phoenix. This report will include a summary of remediation operations, findings on-site, lab analysis, site maps, and project photos.

If you have any questions and/or need more data in regards to this project, please call 505-631-8314 at any time.

Sincerely,

Allen Hodge, REM
VP Operations
Phoenix Environmental LLC

# *SECTION II*

## *Project Overview*

*Phoenix Environmental, LLC. (Phoenix) was contracted for the closure of the reserve drilling pit at Antelope Ridge Unit #12, belonging to Bold Energy, LP. Antelope Ridge #12 is located at Sec 33 T 23S, R 34E. The GPS reading is 32°15'56.6"N and 103°28'7.4"W with an elevation of 3481 feet above sea level. The land, in and around the site, is primarily used as pasture for cattle and the production of oil and gas. The pit site is located on the north side of the location.*

*It appeared that in excess of 3,500 cubic yards of cutting, drilling mud, and soil were impacted in the pit area with the dimensions of 150 feet by 150 feet at an approximate depth of 6 feet.*

*The potential contaminates of concern were mid- to high-level concentrations of salt water, drilling mud, cuttings, and fluids that were left after drilling operations were completed.*

*The ground water depth data available from the State of New Mexico Engineers' office showed the vertical depth to the top of water to be in the 300 feet range below surface.*

*Clean backfill was brought in to compact and fill in the excavated area. The area was contoured with a slight crown to prevent ponding of water from future rains.*

*Pursuant to the NMOCD guidelines for clean up of unlined surface impoundments, the clean up level for this site was <5,000 ppm for TPH (Total Petroleum Hydrocarbons) and <50 ppm for BTEX (Benzene, Toluene, Ethylbenzene, and Xylene). The NMOCD also asked for Cl (Chlorides) be returned back as close to background levels as possible or <250 ppm.*

## *Findings and Conclusion*

*The bottom of the excavation (approximately 6 feet) was tested for TPH, BTEX & Chlorides to make certain that the target limits had been met prior to backfilling and compaction for closure. The site cleaned up well with vertical depth of impact at 6 feet, not impacting groundwater. All of the final lab analyses were below the NMOCD guidelines for unlined surface impoundments (refer to attached laboratory reports for actual levels).*

*The site was backfilled and compacted with clean backfill and contoured with a crown back to grade to prevent ponding on the area. The site was reseeded and should vegetate well with upcoming rains.*

## ***Chronology of Operations***

1. *January 24, 2007 – Phoenix mobilized on-site, with the first order on the agenda was a tailgate safety meeting to review any potential safety concerns of the site and to cover the clean up operations. (Please note that a daily safety meeting is the first order of the day before any work begins on site). New Mexico One Call was notified of the intent to finish the pit closure. A dozer was used to clear the area of vegetation and debris around the pit and the staging area.*

2. *February 2, 2007 – Crew began digging a pit for deep burying reserve pit contents.*

3. *February 5-6, 2007 – Crew continued to dig deep bury pit for reserve pit contents.*

4. *February 7, 2007 – Crew finished digging deep bury pit. The bottom was cleaned and dressed to prevent damage to liner.*

5. *February 8, 2007 – Deep bury pit lined with 12mil HDPE bottom and a 20mil top. The crew started transferring the contents of the reserve drill pit to the deep bury pit.*

6. *February 9, 2007– Crew continued to transfer drilling mud from reserve pit to the deep bury pit.*

7. *February 12-13, 2007 – Crew continued transferring contents from reserve drill pit to the deep bury pit.*

8. *February 16, 2007 – Crew finished transferring drilling mud from reserve drill pit to deep bury pit. The bottoms of the reserve drilling pit was cleaned and final samples were taken and sent for analysis to a third party laboratory for TPH, BTEX and Chlorides for final verification of the limits met. (Please refer to attached reports, pages 8 thru 20 pages of this report.)*

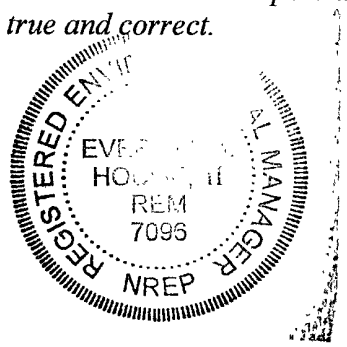
9. *February 17-21, 2007 – The deep bury pit was capped with a 20mil liner top and backfilling was done to complete coverage of the deep bury pit. Final contouring and compaction was implemented to return the site back to grade with a slight crown to prevent ponding.*

## ***Certification***

*The following Phoenix Environmental personnel have reviewed this report and verified that to the best of their knowledge the contents are true and correct.*

*Allen Hodge, REM*
*Senior Project Manager*
*Phoenix Environmental, LLC*

*Signature:* _____




*Registered Environmental Manager #7096*
*National Registry of Environmental Professionals*

# *SECTION III*

**Phoenix Environmental, LLC.**
**P.O. Box 1856 – 2113 French Drive**
**Hobbs, New Mexico 88241**
*505.391.9685 – FAX: 505.391.9687*

# SOIL ANALYSIS REPORT

***Date: 3/5/07***
***Client: Bold Energy LP***
***Supervisor:*** *Allen Hodge*
***Sample Matrix:*** *Soil*

***Facility: Antelope Ridge #12***
***Test Method:*** *EPA 325.3*
***Order No.: Donny Money***
***Sample Received:*** *Intact on site*

| Sample | CL (ppm) | Depth (feet) | Location |
|---|---|---|---|
| **#1** | 60 | 6′ | Southeast Outside Leg |
| **#2** | <50 | 6′ | Southwest Outside Leg |
| **#3** | <50 | 6′ | Inside Leg |
| **#4** | <50 | 0.5′ | Background |
| **#5** | 220 | 6′ | Northeast Outside Leg |
| **#6** | 230 | 6′ | Northwest Outside Leg |

***COMMENTS:*** *These samples are field screen samples taken to confirm regulator limits prior to final lab analysis.*

# ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558


| Explanation of codes | |
|---|---|
| B | Analyte Detected in Method Blank |
| E | Result is Estimated |
| H | Analyzed Out of Hold Time |
| N | Tentatively Identified Compound |
| S | Subcontracted |
| 1-9 | See Footnote |

PHOENIX ENVIRONMENTAL, LLC
attn: ALLEN HODGE
PO BOX 1856
HOBBS NM 88241

STANDARD

*Assaigai Analytical Laboratories, Inc.*

## *Certificate of Analysis*

*All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).*

Client: PHOENIX ENVIRONMENTAL, LLC
Project: BOLD ANTELOPE #12
Order: 0703133 PHO01 Receipt: 03-05-07

*William P. Biavia President of Assaigai Analytical Laboratories, Inc*

Sample: *SE OUTSIDE LEG 6'* Collected: *03-04-07 8:15:00* By: *RG*
Matrix: *SOIL*

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 0703133-0001A | | SW846 5035B/8015B GRO by GC/FID | | | | | | By: RDW | | |
| V07133 | XG.2007 306 5 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 0703133-0001A | | SW846 5035B/8021B Purgeable VOCs by GC/PID | | | | | | By: RW | | |
| V07149 | XG.2007.367 5 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG.2007 367.5 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG.2007.367 5 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367-5 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367.5 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 0703133-0001A | | SW846 8015B Diesel Range Organics by GC/FID | | | | | | By: SDW | | |
| V07149 | XG 2007.381 6 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-16-07 |
| 0703133-0001A | | SW846 9056 Anions by Ion Chromatography | | | | | | By: JJK | | |
| W07170 | WC.2007 545.9 | 16887-00-6 | Chloride | 42.4 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |

Sample: *SW OUTSIDE LEG 6'* Collected: *03-04-07 8:30:00* By: *RG*
Matrix: *SOIL*

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 0703133-0002A | | SW846 5035B/8015B GRO by GC/FID | | | | | | By: RDW | | |
| V07133 | XG.2007.306 8 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 0703133-0002A | | SW846 5035B/8021B Purgeable VOCs by GC/PID | | | | | | By: RW | | |
| V07149 | XG.2007.367.8 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367 8 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |



*Report Date: 3/20/2007 4:36:58 PM*

*Assaigai Analytical Laboratories, Inc.*

# *Certificate of Analysis*

*All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).*

ient: **PHOENIX ENVIRONMENTAL, LLC**
roject: **BOLD ANTELOPE #12**
Order: **0703133 PHO01** Receipt: **03-05-07**

ample: ***SW OUTSIDE LEG 6'*** Collected: *03-04-07 8:30:00* By: *RG*
atrix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 703133-0002A | | | **SW846 5035B/8021B Purgeable VOCs by GC/PID** | | | | | By: RW | | |
| V07149 | XG.2007.367.8 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 07149 | XG.2007.367.8 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| 07149 | XG 2007 367.8 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 703133-0002A | | | **SW846 8015B Diesel Range Organics by GC/FID** | | | | | By: SDW | | |
| S07149 | XG.2007 381 17 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-20-07 |
| 0703133-0002A | | | **SW846 9056 Anions by Ion Chromatography** | | | | | By: JJK | | |
| 07170 | WC.2007 545.10 | 16887-00-6 | Chloride | 8.06 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |

ample: ***INSIDE LEG 6'*** Collected: *03-04-07 8:00:00* By: *RG*
atrix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 703133-0003A | | | **SW846 5035B/8015B GRO by GC/FID** | | | | | By: RDW | | |
| 07133 | XG.2007.306.12 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 703133-0003A | | | **SW846 5035B/8021B Purgeable VOCs by GC/PID** | | | | | By: RW | | |
| V07149 | XG 2007 367.9 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 07149 | XG.2007 367 9 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 07149 | XG.2007.367 9 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG.2007.367 9 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| 07149 | XG 2007.367 9 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 703133-0003A | | | **SW846 8015B Diesel Range Organics by GC/FID** | | | | | By: SDW | | |
| 7149 | XG.2007 381 18 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-20-07 |
| 03133-0003A | | | **SW846 9056 Anions by Ion Chromatography** | | | | | By: JJK | | |
| W07170 | WC 2007 545.11 | 16887-00-6 | Chloride | 4.02 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |

ample: ***BACKGROUND*** Collected: *03-04-07 9:00:00* By: *RG*
Matrix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 0703133-0004A | | | **SW846 5035B/8015B GRO by GC/FID** | | | | | By: RDW | | |
| 7133 | XG 2007.306 13 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 703133-0004A | | | **SW846 5035B/8021B Purgeable VOCs by GC/PID** | | | | | By: RW | | |
| 7149 | XG.2007.367.10 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367.10 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 7149 | XG.2007 367.10 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 7149 | XG 2007.367.10 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367.10 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |



*Report Date:* *3/20/2007 4:36:58 PM*

*Assaigai Analytical Laboratories, Inc.*

# *Certificate of Analysis*

*All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).*

nt: **PHOENIX ENVIRONMENTAL, LLC**

ject: **BOLD ANTELOPE #12**

der: **0703133 PHO01** Receipt: **03-05-07**

nple: ***BACKGROUND*** Collected: *03-04-07 9:00:00* By: *RG*

rix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 3133-0004A | | | **SW846 8015B Diesel Range Organics by GC/FID** | | | | | By: SDW | | |
| S07149 | XG 2007 381.19 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-20-07 |
| 0703133-0004A | | | **SW846 9056 Anions by Ion Chromatography** | | | | | By: JJK | | |
| 7170 | WC 2007.545.14 | 16887-00-6 | Chloride | 3.14 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |

Sample: ***NE OUTSIDE LEG 6'*** Collected: *03-04-07 8:45:00* By: *RG*

trix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 03133-0005A | | | **SW846 5035B/8015B GRO by GC/FID** | | | | | By: RDW | | |
| 133 | XG 2007.306.9 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 03133-0005A | | | **SW846 5035B/8021B Purgeable VOCs by GC/PID** | | | | | By: RW | | |
| V07149 | XG.2007.367.11 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 149 | XG.2007.367.11 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 149 | XG.2007 367.11 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007 367 11 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| 149 | XG.2007.367 11 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 03133-0005A | | | **SW846 8015B Diesel Range Organics by GC/FID** | | | | | By: SDW | | |
| 149 | XG 2007.381.20 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-20-07 |
| 03133-0005A | | | **SW846 9056 Anions by Ion Chromatography** | | | | | By: JJK | | |
| W07170 | WC.2007.545.15 | 16887-00-6 | Chloride | 229 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |

mple: ***NW OUTSIDE LEG 6'*** Collected: *03-04-07 9:15:00* By: *RG*

Matrix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|
| 0703133-0006A | | | **SW846 5035B/8015B GRO by GC/FID** | | | | | By: RDW | | |
| 133 | XG.2007.306.10 | | Gasoline Range Organics | ND | mg / Kg | 1 | 0.25 | | 03-06-07 | 03-06-07 |
| 03133-0006A | | | **SW846 5035B/8021B Purgeable VOCs by GC/PID** | | | | | By: RW | | |
| 149 | XG.2007 367.12 | 71-43-2 | Benzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| V07149 | XG.2007.367.12 | 100-41-4 | Ethylbenzene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 149 | XG 2007 367.12 | 95-47-6 | o-Xylene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 149 | XG 2007 367.12 | 179601-23-1 | p/m-Xylenes | ND | mg / Kg | 1 | 0.01 | | 03-15-07 | 03-15-07 |
| V07149 | XG 2007.367.12 | 108-88-3 | Toluene | ND | mg / Kg | 1 | 0.005 | | 03-15-07 | 03-15-07 |
| 0703133-0006A | | | **SW846 8015B Diesel Range Organics by GC/FID** | | | | | By: SDW | | |
| 149 | XG.2007.381.21 | | Diesel Range Organics | ND | mg / Kg | 1 | 25 | | 03-16-07 | 03-20-07 |
| 03133-0006A | | | **SW846 9056 Anions by Ion Chromatography** | | | | | By: JJK | | |
| 170 | WC 2007.545 16 | 16887-00-6 | Chloride | 210 | mg / Kg | 5 | 0.5 | | 03-07-07 | 03-07-07 |



*Report Date:* *3/20/2007 4:36:58 PM*

*Assaigai Analytical Laboratories, Inc.*

# *Certificate of Analysis*

*All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).*

Client: **PHOENIX ENVIRONMENTAL, LLC**

Project: **BOLD ANTELOPE #12**

Order: **0703133** **PHO01** Receipt: **03-05-07**

Sample: ***NW OUTSIDE LEG 6'*** Collected: *03-04-07 9:15:00* By: *RG*

Matrix: ***SOIL***

| QC Group | Run Sequence | CAS # | Analyte | Result | Units | Dilution Factor | Detection Limit | Code | Prep Date | Run Date |
|---|---|---|---|---|---|---|---|---|---|---|

*Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or foonotes will appear below.*

*Analytical results are not corrected for method blank or field blank contamination.*



*Report Date:* *3/20/2007 4:36:58 PM*

# Chain of Custody Record


ASSAIGAI ANALYTICAL LABORATORIES, INC.

ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

127 EASTGATE DRIVE, 212-C
LOS ALAMOS, NEW MEXICO 87544
(505) 662-2558


Lab Job No.: 0703133 Date _____

Page 1 of 1

Client: Phoenix Environmental LLC
Address: Po Box 1856
City / State / Zip: Hobbs NM 88241
Project Name / Number: Bold Antelope #12
Contract / Purchase Order / Quote

Project Manager / Contact: Allen Hulse
Telephone No.: 505-391-9685
Fax No.: 505-391-9687
Samplers : (signature)

| AALI Fraction Number | Field Sample Number / Location | Date | Time | Sample Type | Type / Size of Container | Preservation: Temp | Preservation: Chemical | No. of Containers | TPH | BTEX | Cl | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SE outside leg 6' | 3/4/07 | 0815 | soil | 4oz glass | | ice | 1 | X | X | X | | | | | | | |
| 2 | SW " " 6' | 3/4/07 | 0820 | " | " | | " | 1 | X | X | X | | | | | | | |
| 3 | inside leg 6' | 3/4/07 | 0810 | " | " | | " | 1 | X | X | X | | | | | | | |
| 4 | background | 3/4/07 | 0900 | " | " | | " | 1 | X | X | X | | | | | | | |
| 5 | NE outside leg 6' | 3/4/07 | 0845 | " | " | | " | 1 | X | X | X | | | | | | | |
| 6 | NW " " 6' | 3/4/07 | 0915 | " | " | | " | 1 | X | X | X | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

Relinquished by:
Signature
Printed: R. Baza
Company: Phoenix ENV
Reason

Date: 3/5/07
Time: 0835

Received by:
Signature: Ship Lab
Printed
Company
Reason

Relinquished by:
Signature
Printed
Company
Reason

Date: 03.06.07
Time: 0913

Received by:
Signature: Heather M Feden
Printed: HM F
Company: AAL
Reason: Analysis

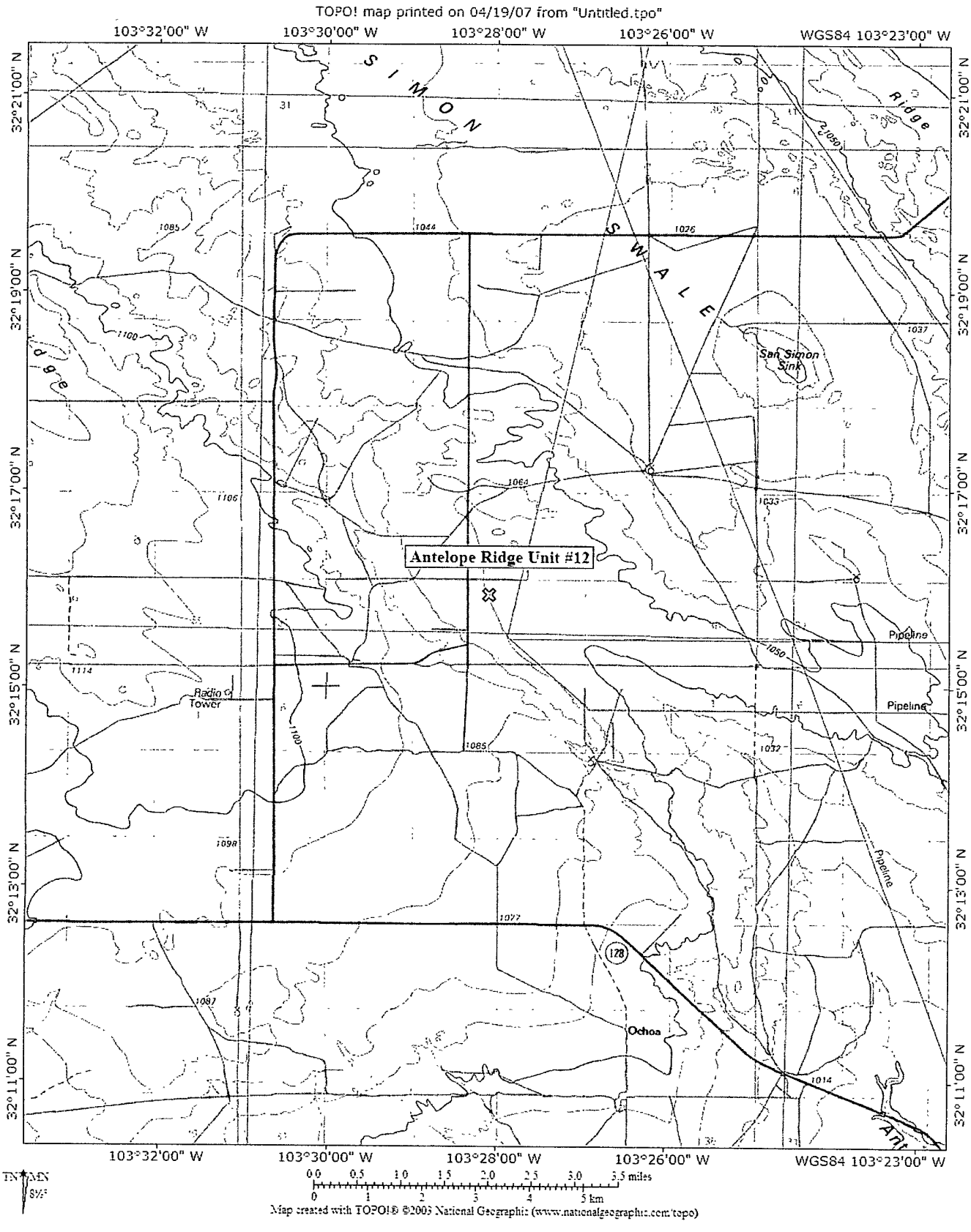
Method of Shipment: bus
Shipment No.
Special Instructions:

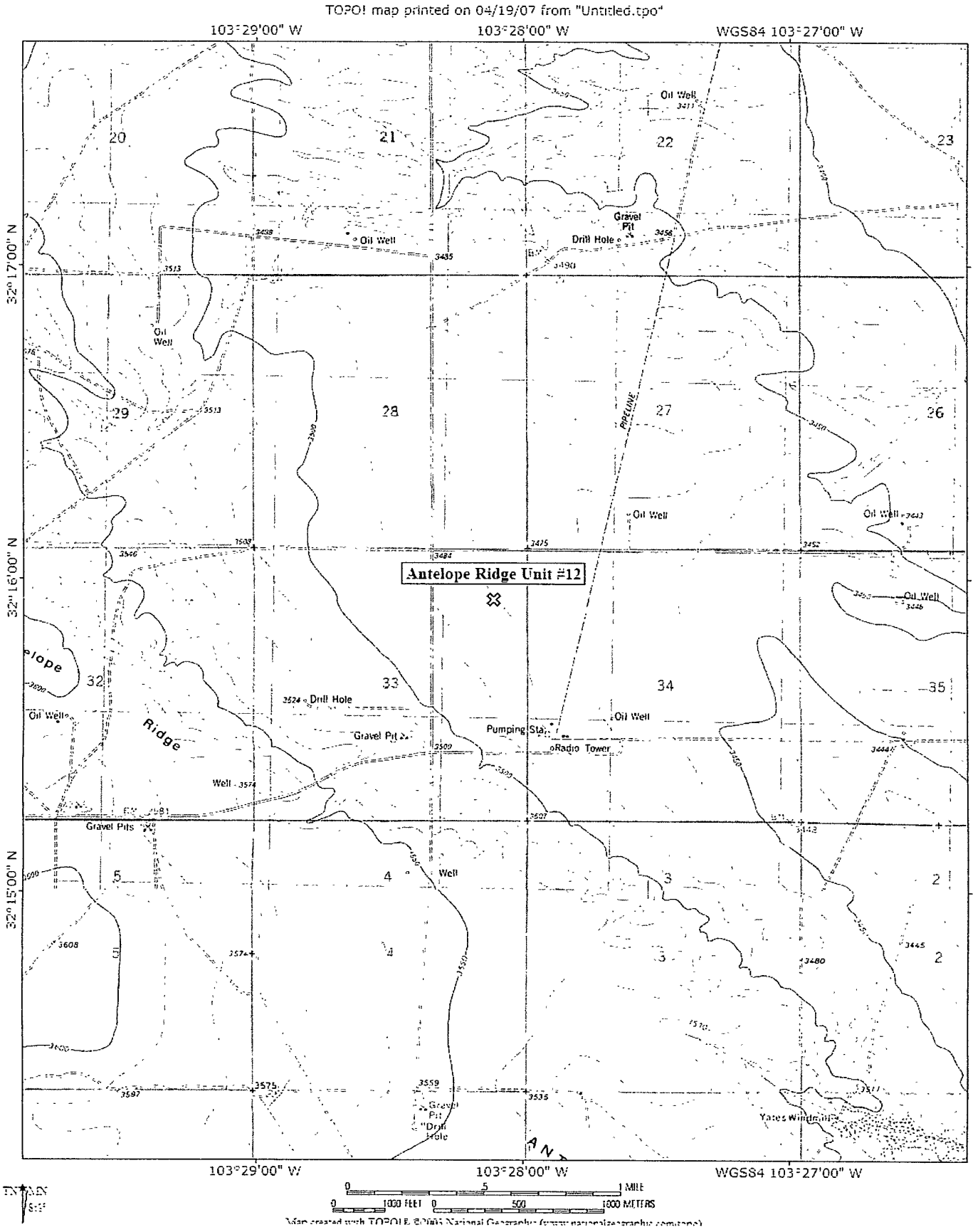
Comments: Cooler temps 3.5

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

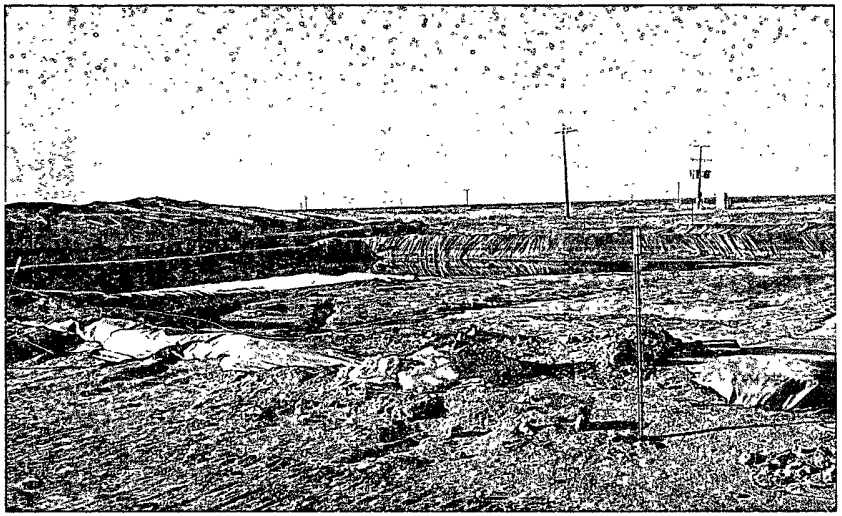
CARRIER

# *SECTION IV*

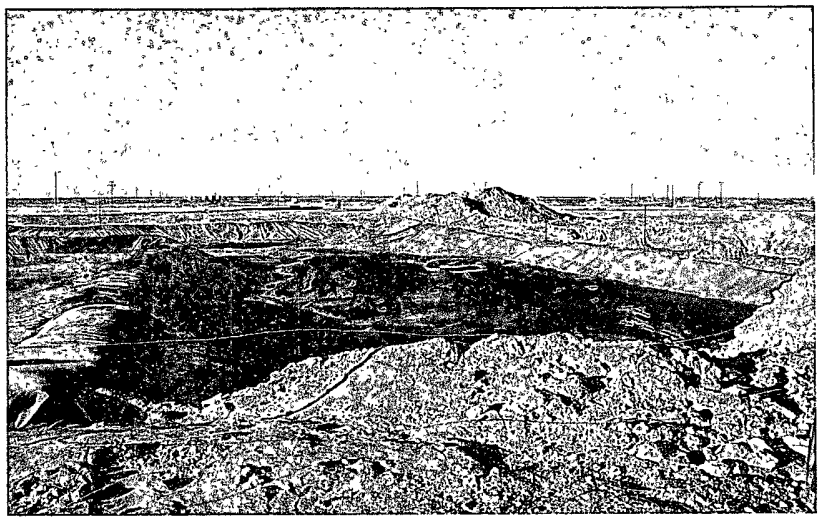

TOPO! map printed on 04/19/07 from "Untitled.tpo"
103°32'00" W
103°30'00" W
103°28'00" W
103°26'00" W
WGS84 103°23'00" W
32°21'00" N
32°19'00" N
32°17'00" N
32°15'00" N
32°13'00" N
32°11'00" N
SIMON
SWALE
Ridge
San Simon Sink
Antelope Ridge Unit #12
Pipeline
Radio Tower
Ochoa
180
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles
0 1 2 3 4 5 km
Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)


TOPO! map printed on 04/19/07 from "Untitled.tpo"
103°29'00" W
103°28'00" W
WGS84 103°27'00" W
32°17'00" N
32°16'00" N
32°15'00" N
Antelope Ridge Unit #12
Oil Well
Gravel Pit
Drill Hole
Pumping Sta.
Radio Tower
Gravel Pits
Yates Windmill
PIPELINE
Ridge
20
21
22
23
28
27
26
29
32
33
34
35
5
4
3
2
0 5 1 MILE
0 1000 FEET 0 500 1000 METERS

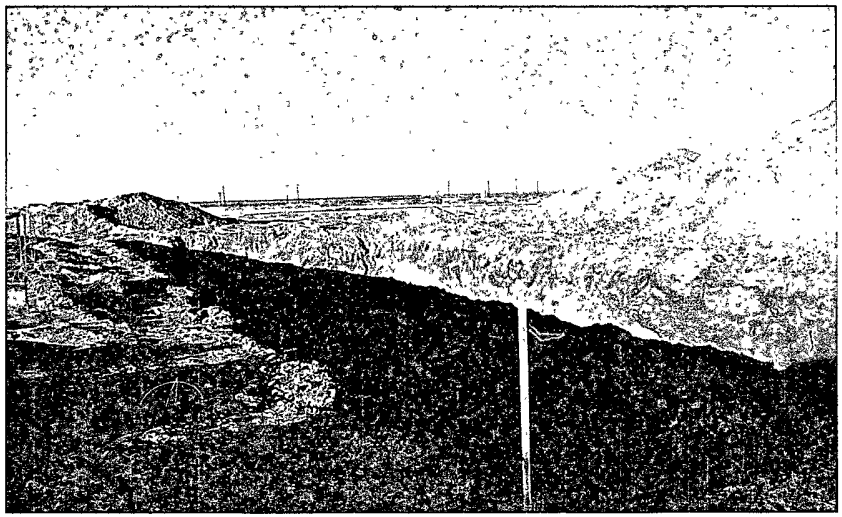
# *SECTION V*



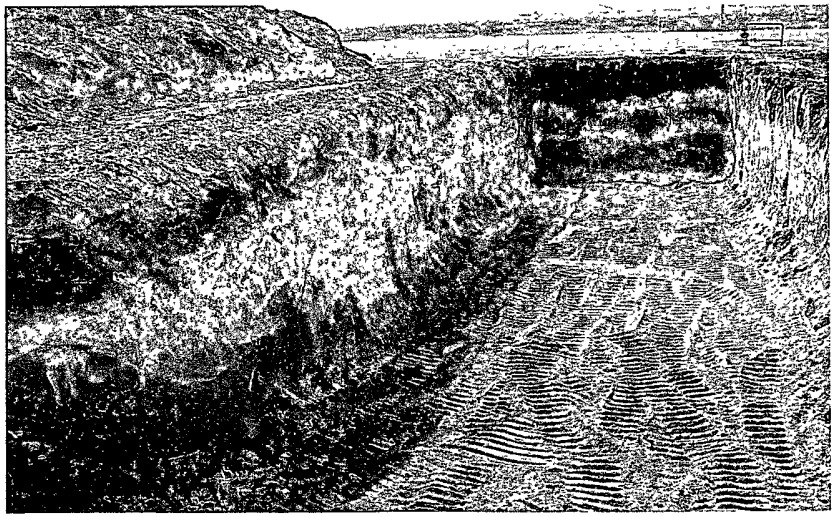
*Beginning view of reserve drilling pit*



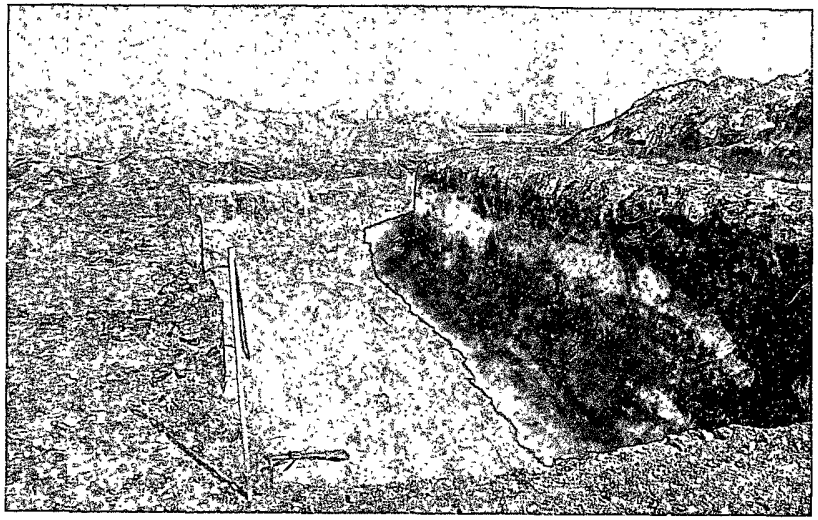
*Beginning view of reserve drilling pit*



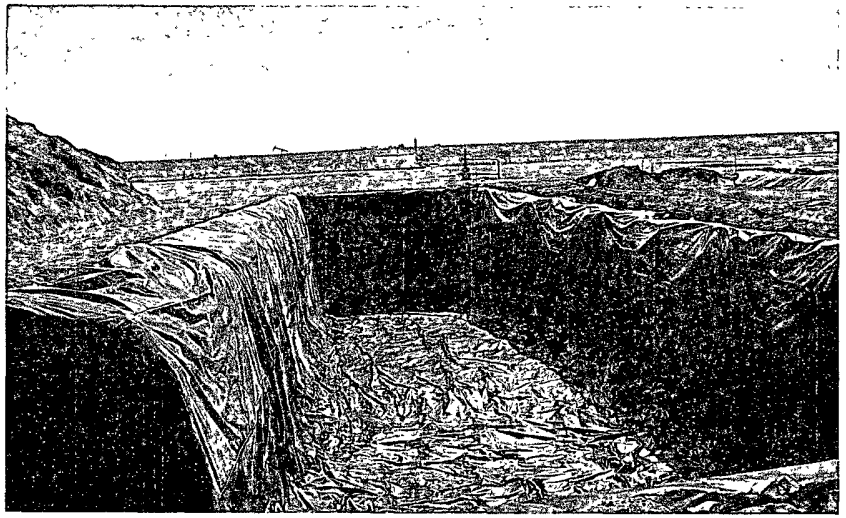
*Excavation of deep bury pit*



*Deep bury pit (looking south)*



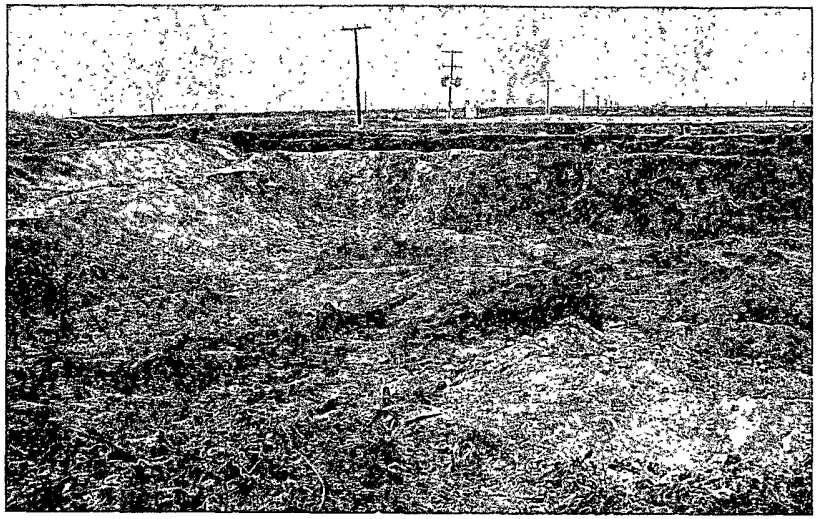
*Excavated deep bury pit (looking north) ready for 12mil liner*



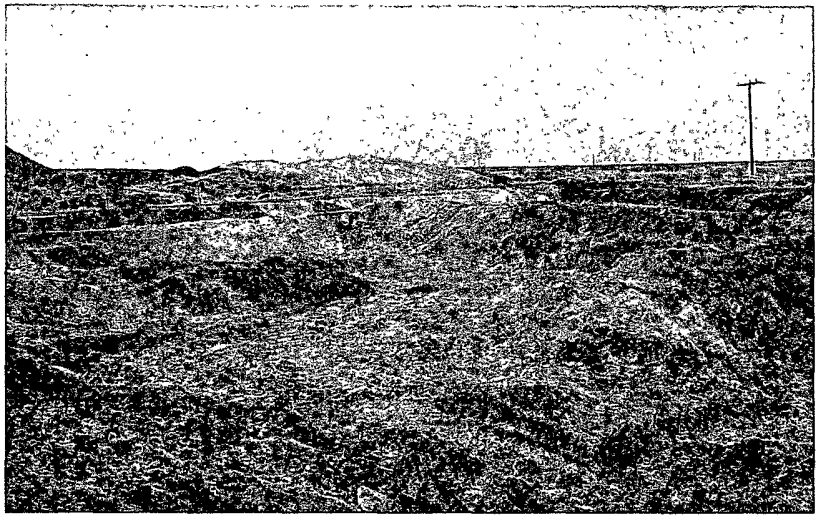
*Deep bury pit lined with 12mil HDPE liner*

*Deep bury pit with mud from drilling pit*

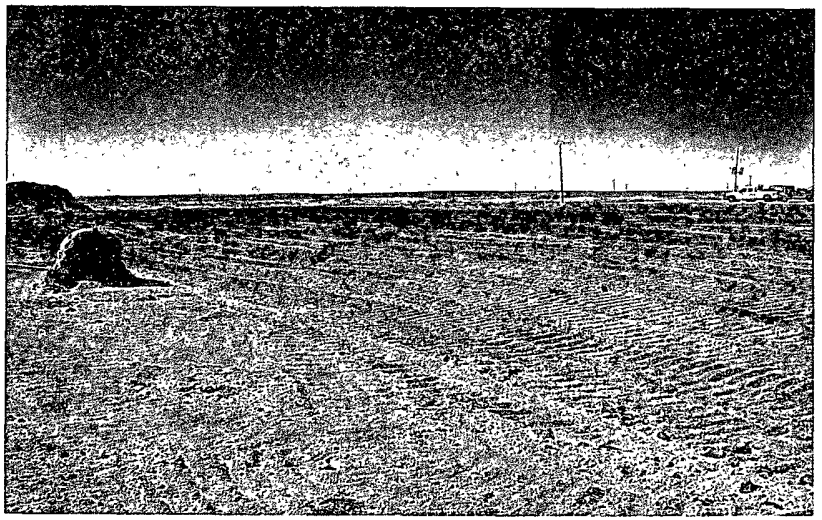
*Deep bury pit with a 20mil cap*



*Drilling pit with contents removed (looking north)*



*Drilling pit with contents removed (looking west)*



*Dressed drilling pit and deep bury pit (looking northwest)*

*FINAL - Seeded drilling pit and deep bury pit (looking east)*