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-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: Range Operating New Mexico, Inc Telephone: (505) 631-0926 e-mail address: salmager@rangeresources.com
Address: P.O. Box 2510 Hobbs, NM 88241
Facility or well name: Elliott "B" Federal Well #16 #: 30-025-37675 U/L or Qtr/Qtr NE/NE Sec 7 T 22S R 37E
County: Lea Latitude N 32° 24.546' Longitude W 103° 11.687' NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

| **Pit** | **Below-grade tank** | | |
|---|---|---|---|
| Type: Drilling ☒ Production ☐ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☒ Unlined ☐<br>Liner type: Synthetic ☒ Thickness 20 mil Clay ☐<br>Pit Volume _____ bbl | Volume: _____ bbl Type of fluid: _____<br>Construction material: _____<br>Double-walled, with leak detection? Yes ☐ If not, explain why not. | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | 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)** | **104.33** |
| 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) | **X** |
| 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) | **X** |
| | **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 Sundance. (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 _____ ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations.

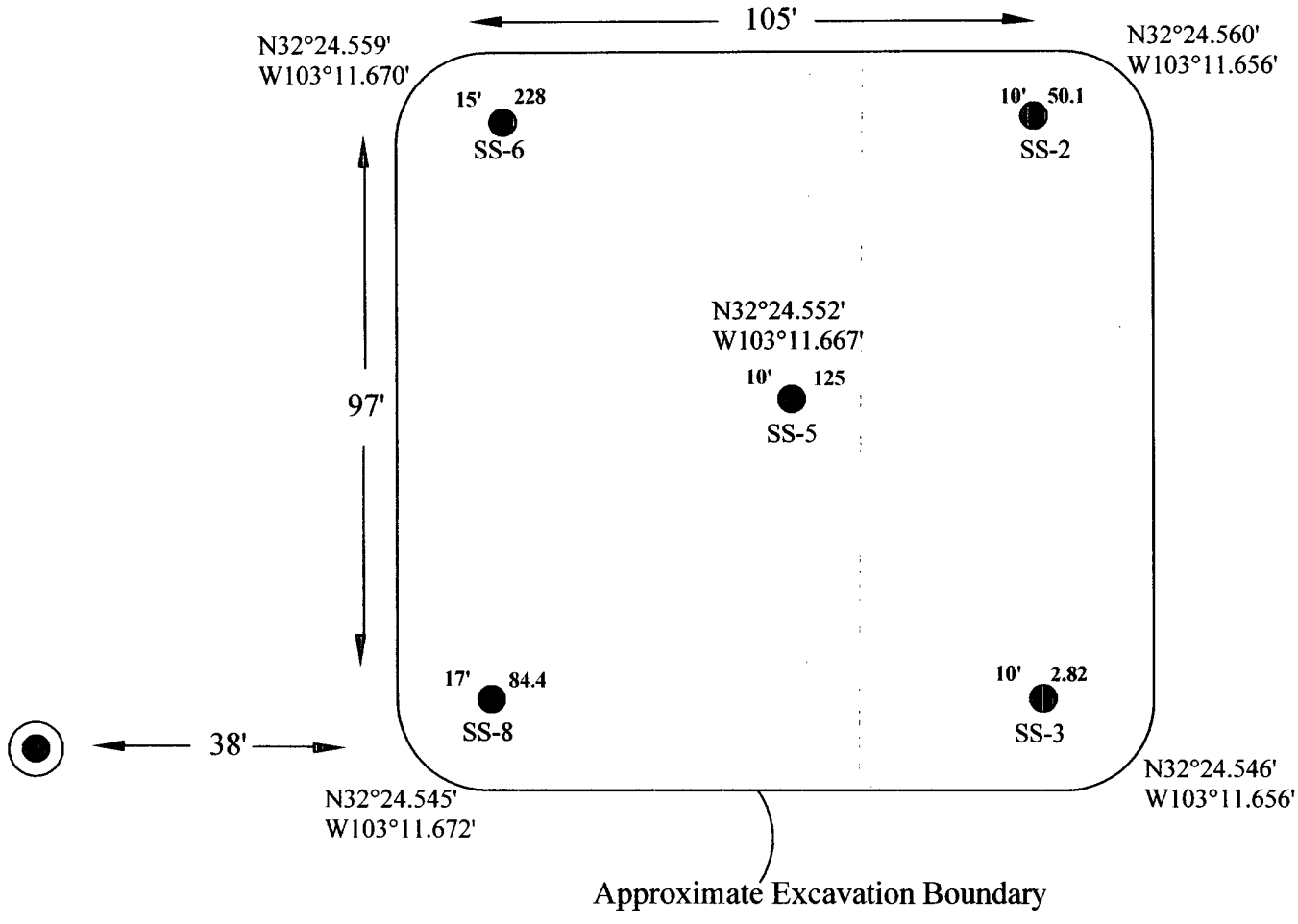
Additional Comments: All fluids were removed from the pit. The burial pit was constructed adjacent to the drilling pit. The burial pit was lined with a 12 ml liner. Impacted material was placed in the burial pit, completely encapsulated and capped with a 20 ml liner, and covered with 3 feet of topsoil to grade. Hydrocarbon impacted soil was disposed at an NMOCD approved facility.
Attached you will find a drawing indicating where samples were collected below the liner.

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: 3-29-06
Printed Name/Title: Steve Almager, Production Supervisor Signature: [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 G. Johnson - Engineer Signature: [signature] Date: 9-5-06




LEGEND

10' 3.60 SS-2 — Soil sample location taken at a depth bgs, with chloride concentration (mg/kg) on 8/07/06.

Wellhead location

N32°24.559' W103°11.670' — GPS Coordinates

N E S W

DATE: 08-08-06
NAME: CHH
PROJECT NO.: 6-0126

**FIGURE # 1**

LEA COUNTY, NEW MEXICO

**Range Resources**

Elliott "B" Federal Well #16
Sec.7, T22S, R37E

Site Drawing
( Not to Scale )

Ocotillo ENVIRONMENTAL

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: Elloitt B Fed #16

Project Number: None Given

Location: Eunice, NM

Lab Order Number: 6H07010

Report Date: 08/08/06

Ocotillo Environmental
2125 French Dr.
Hobbs NM, 88201

Project: Elloitt B Fed #16
Project Number: None Given
Project Manager: Cindy Crain

Fax: (432) 367-6747

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| SS-1 | 6H07010-01 | Soil | 2006-08-07 08:00 | 2006-08-07 14:23 |
| SS-2 | 6H07010-02 | Soil | 2006-08-07 08:05 | 2006-08-07 14:23 |
| SS-3 | 6H07010-03 | Soil | 2006-08-07 08:10 | 2006-08-07 14:23 |
| SS-4 | 6H07010-04 | Soil | 2006-08-07 08:15 | 2006-08-07 14:23 |
| SS-5 | 6H07010-05 | Soil | 2006-08-07 08:20 | 2006-08-07 14:23 |
| SS-6 | 6H07010-06 | Soil | 2006-08-07 11:05 | 2006-08-07 14:23 |
| SS-7 | 6H07010-07 | Soil | 2006-08-07 11:10 | 2006-08-07 14:23 |
| SS-8 | 6H07010-08 | Soil | 2006-08-07 11:30 | 2006-08-07 14:23 |

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Elloitt B Fed #16 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: None Given | |
| 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 |
|---|---|---|---|---|---|---|---|---|---|
| **SS-1 (6H07010-01) Soil** | | | | | | | | | |
| **Chloride** | **2310** | 50.0 | mg/kg | 100 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-2 (6H07010-02) Soil** | | | | | | | | | |
| **Chloride** | **50.1** | 5.00 | mg/kg | 10 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-3 (6H07010-03) Soil** | | | | | | | | | |
| **Chloride** | **J [2.82]** | 5.00 | mg/kg | 10 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | J |
| **SS-4 (6H07010-04) Soil** | | | | | | | | | |
| **Chloride** | **14400** | 500 | mg/kg | 1000 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-5 (6H07010-05) Soil** | | | | | | | | | |
| **Chloride** | **125** | 5.00 | mg/kg | 10 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-6 (6H07010-06) Soil** | | | | | | | | | |
| **Chloride** | **228** | 10.0 | mg/kg | 20 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-7 (6H07010-07) Soil** | | | | | | | | | |
| **Chloride** | **841** | 10.0 | mg/kg | 20 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |
| **SS-8 (6H07010-08) Soil** | | | | | | | | | |
| **Chloride** | **84.4** | 5.00 | mg/kg | 10 | EH60801 | 08/07/06 | 08/08/06 | EPA 300.0 | |







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

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Elloitt B Fed #16 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: None Given | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

## 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 EH60801 - Water Extraction** | | | | | | | | | | |
| **Blank (EH60801-BLK1)** | | | | Prepared: 08/07/06 Analyzed: 08/08/06 | | | | | | |
| Chloride | ND | 0.500 | mg/kg | | | | | | | |
| **LCS (EH60801-BS1)** | | | | Prepared: 08/07/06 Analyzed: 08/08/06 | | | | | | |
| Chloride | 9.63 | 0.500 | mg/kg | 10.0 | | 96.3 | 80-120 | | | |
| **Calibration Check (EH60801-CCV1)** | | | | Prepared: 08/07/06 Analyzed: 08/08/06 | | | | | | |
| Chloride | 10.1 | | mg/L | 10.0 | | 101 | 80-120 | | | |
| **Duplicate (EH60801-DUP1)** | | **Source: 6H07010-01** | | Prepared: 08/07/06 Analyzed: 08/08/06 | | | | | | |
| Chloride | 2300 | 50.0 | mg/kg | | 2310 | | | 0.434 | 20 | |
| **Matrix Spike (EH60801-MS1)** | | **Source: 6H07010-01** | | Prepared: 08/07/06 Analyzed: 08/08/06 | | | | | | |
| Chloride | 3360 | 50.0 | mg/kg | 1000 | 2310 | 105 | 80-120 | | | |







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

| | | |
|---|---|---|
| Ocotillo Environmental | Project: Elloitt B Fed #16 | Fax: (432) 367-6747 |
| 2125 French Dr. | Project Number: None Given | |
| Hobbs NM, 88201 | Project Manager: Cindy Crain | |

**Notes and Definitions**

| | |
|---|---|
| J | Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |

Report Approved By: Raland K Tuttle Date: 8/8/2006

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

# Environmental Lab of Texas

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

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

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) 367-6747
Sampler Signature: Cassie Hobbs
e-mail: cindy.crain@gmail.com

Project Name: Elliott B #16
Project #:
Project Loc: Eunice, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 6ET070101O

| LAB # (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | No. of Containers | Preservation & # of Containers: Ice | HNO3 | HCl | H2SO4 | NaOH | Na2S2O3 | None | Other (Specify) | Matrix: DW=Drinking Water SL=Sludge | GW = Groundwater S=Soil/Solid | NP=Non-Potable Specify Other | Analyze For: 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) 24, 48, 72 hrs | Standard TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SS-1 | 10' | 10' | 8/7/06 | 8:00 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 02 | SS-2 | | | | 8:05 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 03 | SS-3 | | | | 8:10 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 04 | SS-4 | | | | 8:15 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 05 | SS-5 | | | | 8:20 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 06 | SS-6 | 15' | 15' | | 11:05 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 07 | SS-7 | 15' | 15' | | 11:10 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| 08 | SS-8 | 17' | 17' | | 11:30 | 1 | | | | | | | ✓ | | S | | | | | ✓ | | | | | | | | ✓ | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Cassie Hobbs | 8/7/06 | 14:23 | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by: | Date | Time | Received by ELOT: | Date | Time |
| | | | Jessica Kramer | 8/7/06 | 14:23 |

**Laboratory Comments:**

Sample Containers Intact? (Y) N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep. ? (Y) N
~~by Courier?~~ UPS DHL FedEx Lone Star

Temperature Upon Receipt: 24.0 °C

# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.

Date/ Time: 8/7/04 14:23

Lab ID # : 1eH07010

Initials: CK

## Sample Receipt Checklist

| | | | | | Client Initials |
|---|---|---|---|---|---|
| #1 | Temperature of container/ cooler? | Yes | No | 2.2 ° 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:

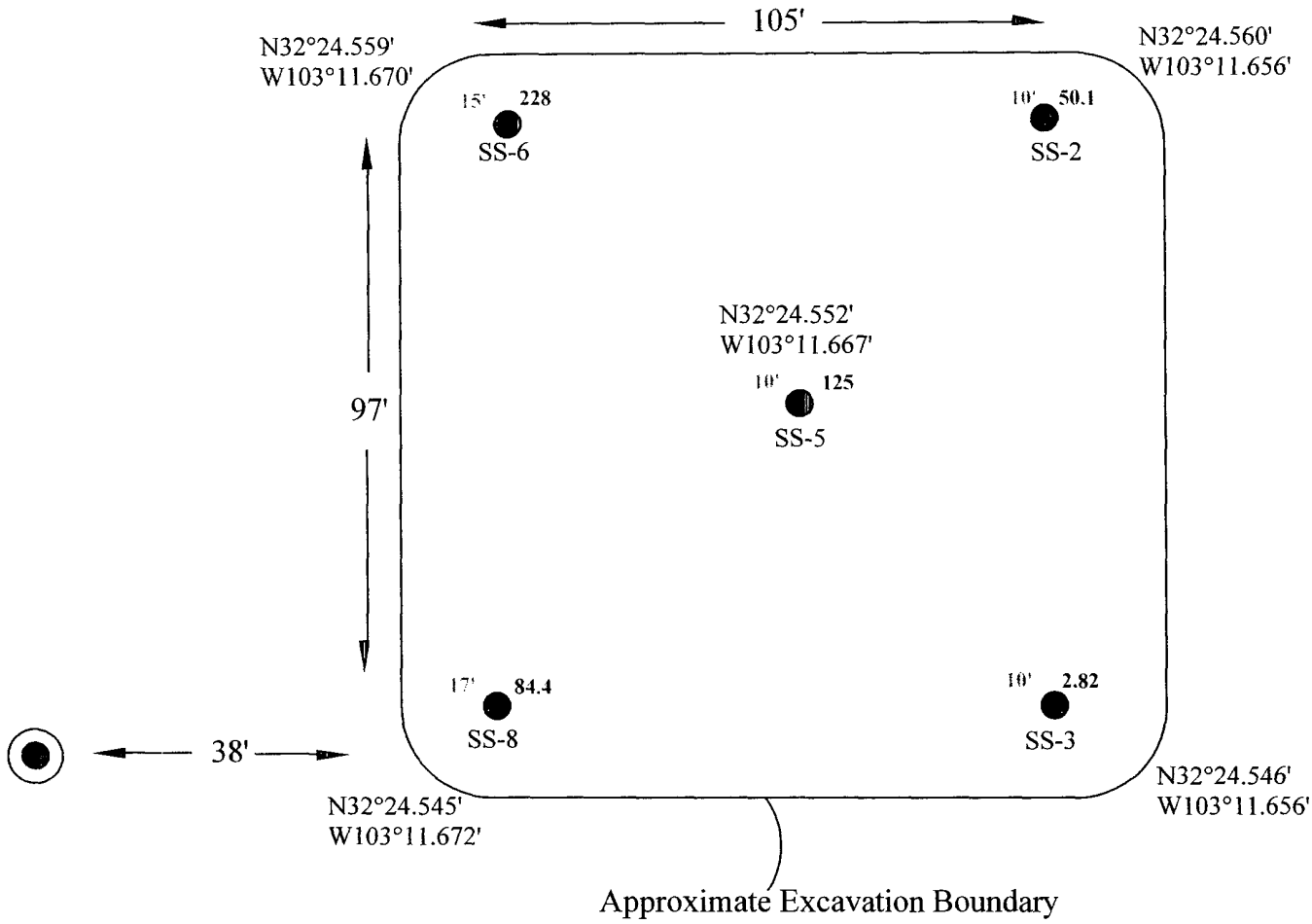
_____

_____

_____

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




LEGEND

10' 3.60 SS-2 — Soil sample location taken at a depth bgs, with chloride concentration (mg/kg) on 8/07/06.

Wellhead location

N32°24.559' W103°11.670' — GPS Coordinates

N W E S

| | |
|---|---|
| DATE: | 08-08-06 |
| NAME: | CHH |
| PROJECT NO.: | 6-0126 |

**FIGURE # 1**

LEA COUNTY, NEW MEXICO

**Range Resources**

Elliott "B" Federal Well #16
Sec.7, T22S, R37E

Site Drawing
( Not to Scale )

Ocotillo ENVIRONMENTAL