

AP - 26

~~ANNUAL~~  
**MONITORING REPORT**

**YEAR(S):**

2003

**RECEIVED**

**MAR 24 2003**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**MARALO SITE**

**SECTION 36, TWS. 25 S., RNG. 36 E.**

**JAL, NM**

**MARCH 2003**

March 14, 2003

William Olson  
NMOCD Environmental  
Box 6429  
1220 S. Saint Francis Drive  
Santa Fe, NM 87504

RE: Maralo site  
Anthony Ranch

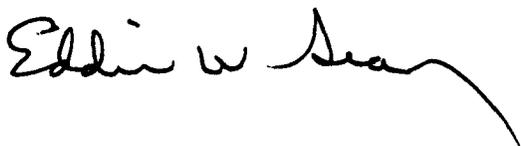
Mr. Olson:

I was requested by Mr. Jay Anthony to conduct a preliminary site investigation of an abandoned tank battery site, which belonged to Maralo Oil Co.

The request was to drill soil borings at the site to determine the extent of contamination. This investigation was not to delineate the extent of the contamination, but to investigate if contamination existed above OCD guidelines. Two soil borings were advanced at the site, one up gradient and one down gradient of an existing water well.

Within is information obtained. If you have any questions, please call.

Sincerely,

A handwritten signature in cursive script that reads "Eddie W. Seay". The signature is written in black ink and has a long, sweeping tail that extends to the right.

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236

**Maralo Site  
Anthony Ranch  
Jal, New Mexico**

The site is an abandoned oil and gas production facility which was taken out of service and all equipment removed. The site was not remediated, the facility covered approximately three acres of surface and the remains of pits and hydrocarbon soil are visible. On the lease road adjacent to this site is an abandoned water well, the analytical from the water sample taken from this well shows elevated chloride.

The investigation consisted of installing two soil borings, one up gradient and one down gradient and testing the soil for BTEX, TPH and chloride. Both borings were advanced to 80', taking samples at various depths. The two borings were identified by MA 1 and MA 2, attached are logs, analytical, photos and maps.

**Investigation**

A rotary rig was used and operated by Phoenix Environmental. Samples were taken with split spoon sampling tool, deconing equipment between samples. After sampling was completed, the borings were plugged with bentonite and holes were marked for future reference.

**Sampling:**

MA 1-1	8 to 10 ft. oily strong odor
MA 1-2	20 ft. oily strong odor
MA 1-3	40 ft. strong odor, discolored caliche
MA 1-4	60 ft. slight odor, staining
MA 1-5	80 ft. slight odor

TD 80 ft.

0'-10' top soil rock, very oily  
10'-35' sand, rock, oily  
35'-50' caliche, rock, oil stained  
50'-65' sand, small gravel  
65'-80' sand, clay

MA 2-1	8' to 10' black oily, strong odor
MA 2-2	20' oily, strong odor
MA 2-3	40' stained caliche, slight odor
MA 2-4	60' slight odor
MA 2-5	80' slight odor

0'-15' black very oily top soil  
15'-26' sand, rock, oily, strong odor  
26'-32' caliche, charcoal gray, strong odor  
32'-38' caliche white in color, odor  
38'-48' caliche, sand, rock, odor  
48'-57' sand, caliche, rock  
57'-80' sand, clay, rock  
TD 80 ft.

### **Conclusion**

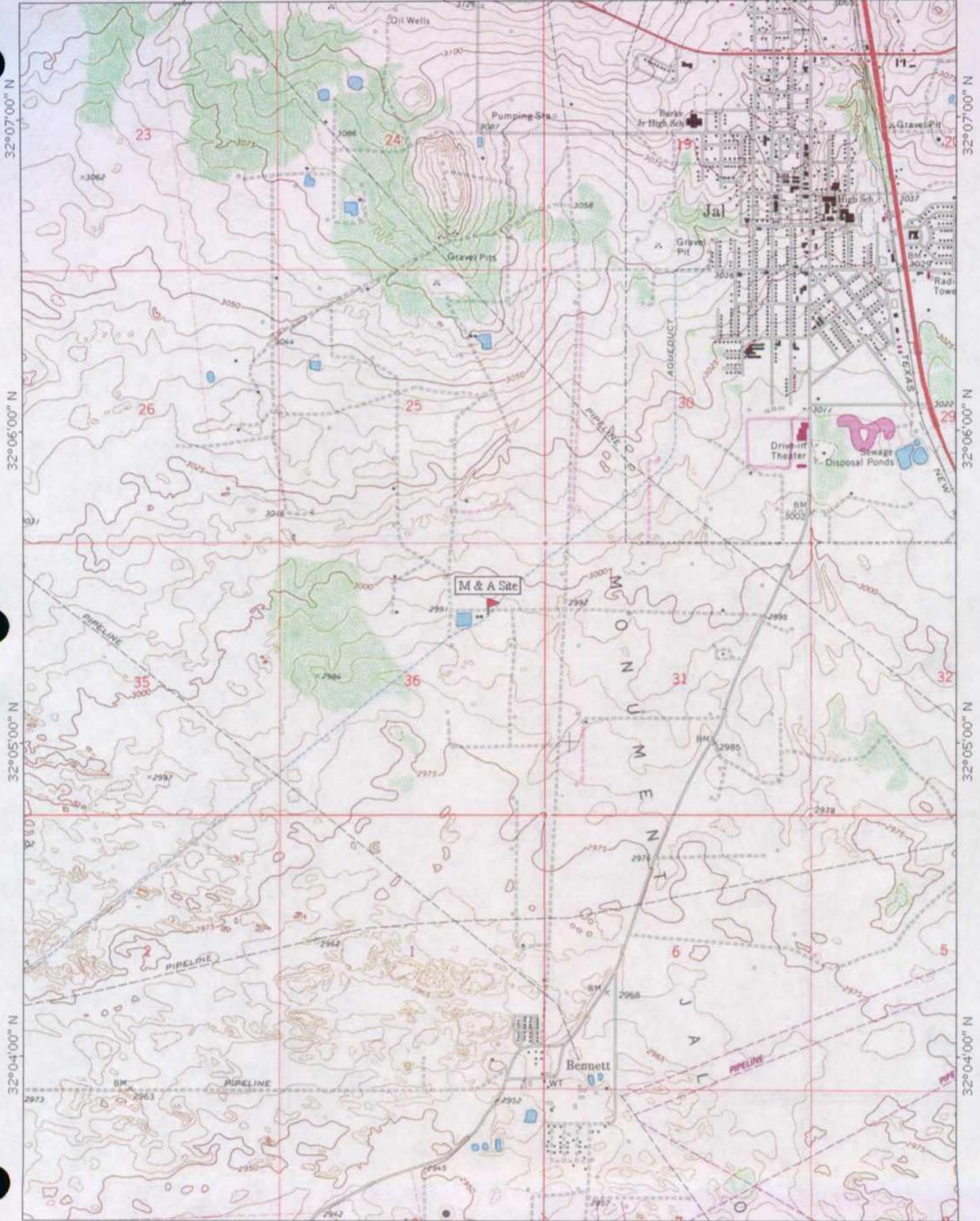
From the analytical data provided on the soil borings, it is obvious that an extensive investigation and remediation plan needs to be undertaken by the responsible party. The analytical exceeds the guidelines set forth by the NMOCD for cleanup and remediation. Given the depth of contamination in the soil borings, it will just be a matter of time before we have major impact to the groundwater.

TOPOI map printed on 03/12/03 from "New Mexico.tpo" and "Untitled.tpg"

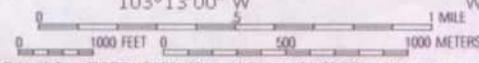
103°14'00" W

103°13'00" W

WGS84 103°12'00" W

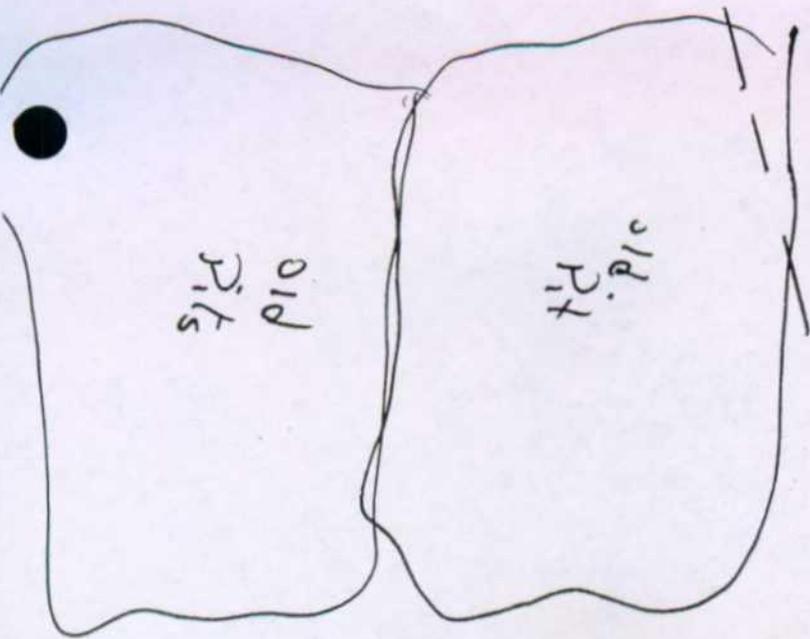


TN MN 3/4"



Printed from TOPOI ©2001 National Geographic Holdings (www.topo.com)





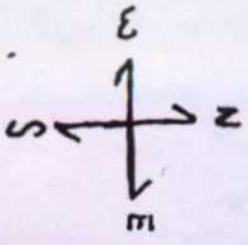
lease Road

TNMP - Koth Pipeline

Tank Battery Area

MA#2

city of Tail Water Line



Tank Battery Area

MA#1

water well



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
 EDDIE SEAY CONSULTING  
 ATTN: EDDIE SEAY  
 601 W. ILLINOIS  
 HOBBS, NM 88242  
 FAX TO: (505) 392-6949

Receiving Date: 03/05/03  
 Reporting Date: 03/10/03  
 Project Owner: J. ANTHONY  
 Project Name: MARALO-ANTHONY  
 Project Location: JAL, NM

Sampling Date: 03/04/03  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE:		03/06/03	03/06/03
H7515-1	MA 1-1	5480	160
H7515-2	MA 1-2	5670	80
H7515-3	MA 1-3	8250	80
H7515-4	MA 1-4	2580	80
H7515-5	MA 1-5	2860	144
H7515-6	MA 2-1	16600	48
H7515-7	MA 2-2	1700	48
H7515-8	MA 2-3	5690	112
H7515-9	MA 2-4	999	80
H7515-10	MA 2-5	1370	48
Quality Control		241	1080
True Value QC		240	1000
% Recovery		100	108
Relative Percent Difference		1.1	8.0

METHODS: TPH-EPA 600/4-79-020 418.1; Cl-Std. Methods 4500-ClB

\*Analyses performed on 1:4 w:v aqueous extracts.

*Buyer*  
 Chemist

3/10/03  
 Date

H7515A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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 ATTN: EDDIE SEAY  
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Receiving Date: 03/05/03  
 Reporting Date: 03/10/03  
 Project Owner: J. ANTHONY  
 Project Name: MARALO-ANTHONY  
 Project Location: JAL, NM

Sampling Date: 03/04/03  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: AH  
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/07/03	03/07/03	03/07/03	03/07/03
H7515-1	MA 1-1	<0.005	<0.005	<0.005	<0.015
H7515-5	MA 1-5	<0.005	<0.005	<0.005	<0.015
H7515-6	MA 2-1	<0.005	<0.005	<0.005	<0.015
H7515-10	MA 2-5	<0.005	<0.005	<0.005	<0.015
Quality Control		0.094	0.092	0.090	0.268
True Value QC		0.100	0.100	0.100	0.300
% Recovery		94.3	91.6	90.3	89.3
Relative Percent Difference		3.8	6.8	8.2	5.4

METHOD: EPA SW-846 8260

Bryant A. Cooke  
 Chemist

3/10/03  
 Date

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# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79803 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_ of \_\_\_

Company Name: <b>Eddie &amp; Sonny Consulting</b>		BILL TO PO #:					
Project Manager: <b>Eddie &amp; Sonny</b>		Company:					
Address: <b>Loop 1 W Tularos</b>		City:					
City: <b>Abbs</b> State: <b>NM</b> Zip: <b>86242</b>		Attn:					
Phone #: <b>392-2236</b>		Address:					
Fax #: <b>392-6949</b>		City:					
Project #: <b>Marado</b> Project Owner: <b>J. Anthony</b>		State:					
Project Name: <b>Marado - Anthony</b>		Phone #:					
Project Location: <b>722 N.M.</b>		Fax #:					
FOR LAB USE ONLY							
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME	TPH (48.1)	Chloride	BTEX
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID:					
		ICE / COOL					
		OTHER:					
		MATRIX					
MA 1-1	✓	✓	9/4	9:35	✓	✓	✓
MA 1-2	✓	✓	"	9:55	✓	✓	✓
MA 1-3	✓	✓	"	10:30	✓	✓	✓
MA 1-4	✓	✓	"	11:00	✓	✓	✓
MA 1-5	✓	✓	"	12:10	✓	✓	✓
MA 2-1	✓	✓	"	12:35	✓	✓	✓
MA 2-2	✓	✓	"	12:50	✓	✓	✓
MA 2-3	✓	✓	"	11:15	✓	✓	✓
MA 2-4	✓	✓	"	1:45	✓	✓	✓
MA 2-5	✓	✓	"	2:30	✓	✓	✓

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Terms and Conditions: Payment will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Relinquished By: *[Signature]* Date: **9/5** Time: **9:30** Received By: (Lab Staff) *[Signature]*

Sampler Relinquished: *[Signature]* Date: **9/5** Time: **9:30** Received By: *[Signature]*

Delivered By: (Circle One) **UPS - Bus - Other**

Sample Condition:  Yes  No

Cool Intact:  Yes  No

CHECKED BY: (Initials) *[Signature]*

REMARKS: **MA - Marado, Anthony**

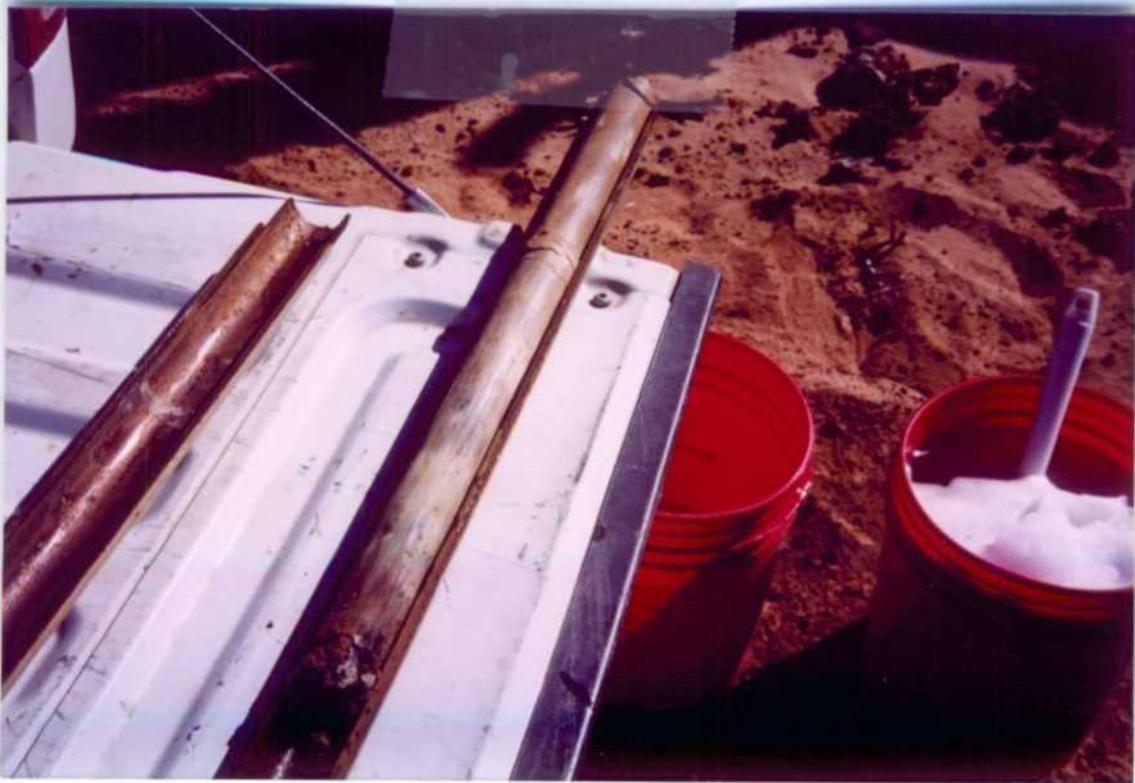
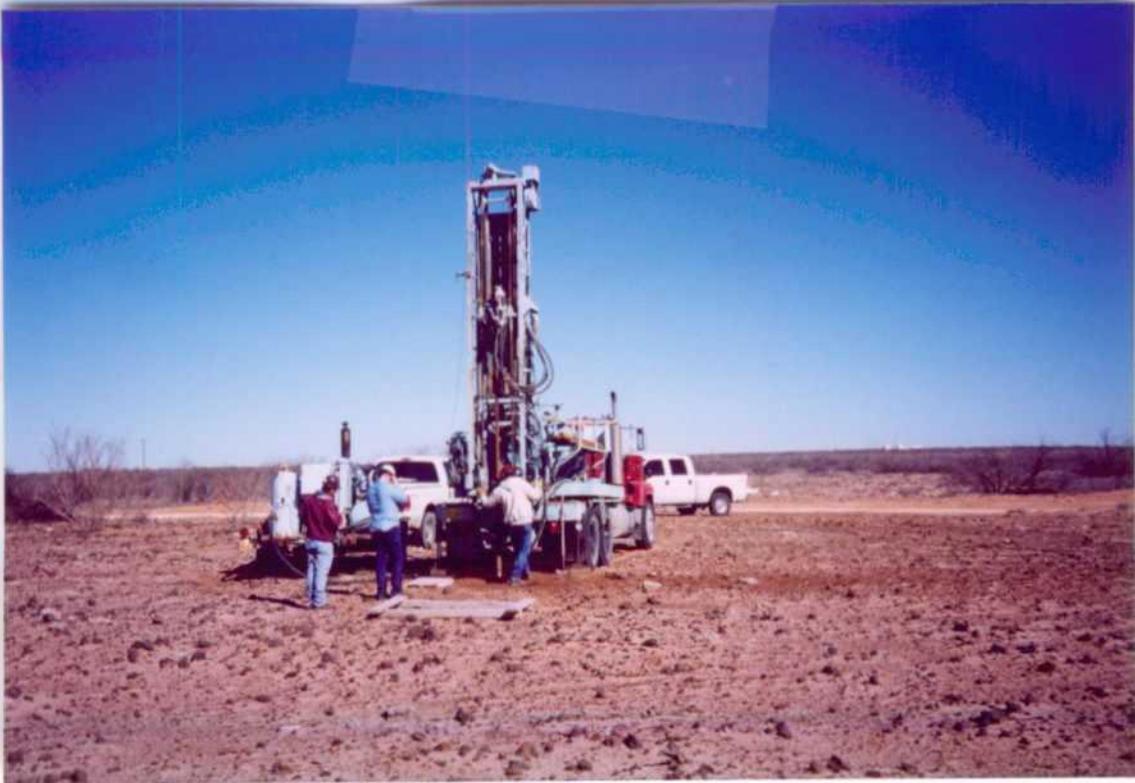
† Card cannot accept verbal changes. Please fax written changes to 915-673-7020

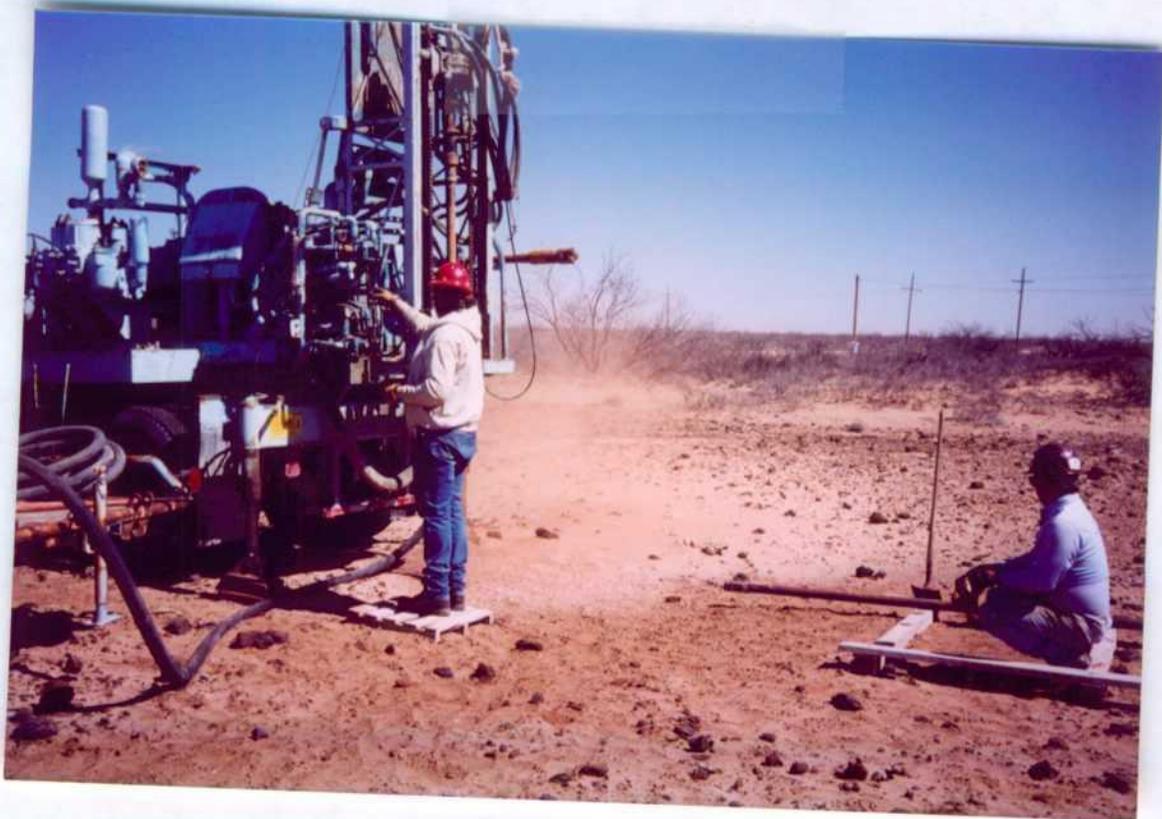
Anthony  
Maralo

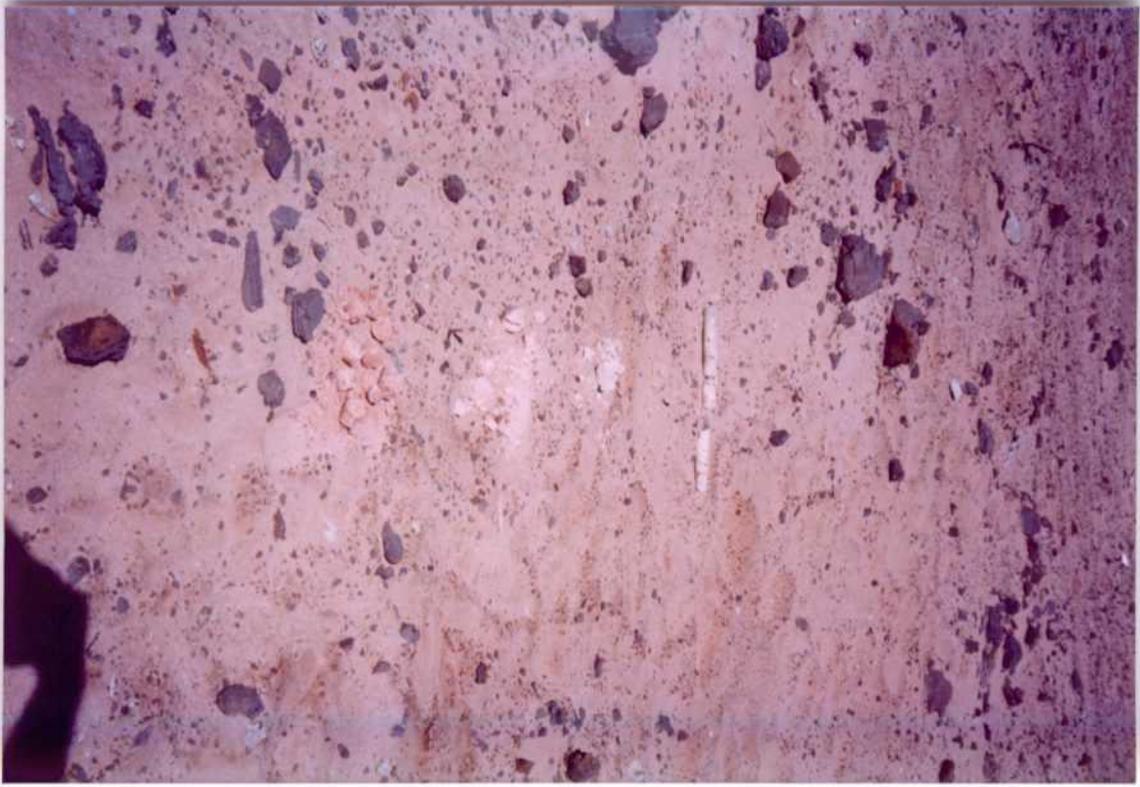
3/4 | 2003

MA # 1











MA #2



