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MAR 24 2003

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

MARALO SITE

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

JAL, NM

MARCH 2003

BEFORE EXAMINER
OIL CONSERVATION DIVISION
EXHIBIT NO. 5
CASE NO. 13142

March 14, 2003

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

RE: Maralo site
Anthony Ranch

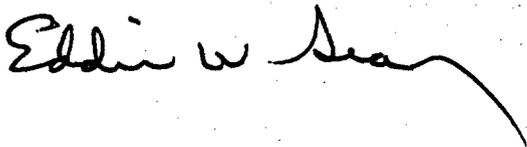
Mr. Olson:

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 black ink that reads "Eddie W. Seay". The signature is written in a cursive style with a long, sweeping underline 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

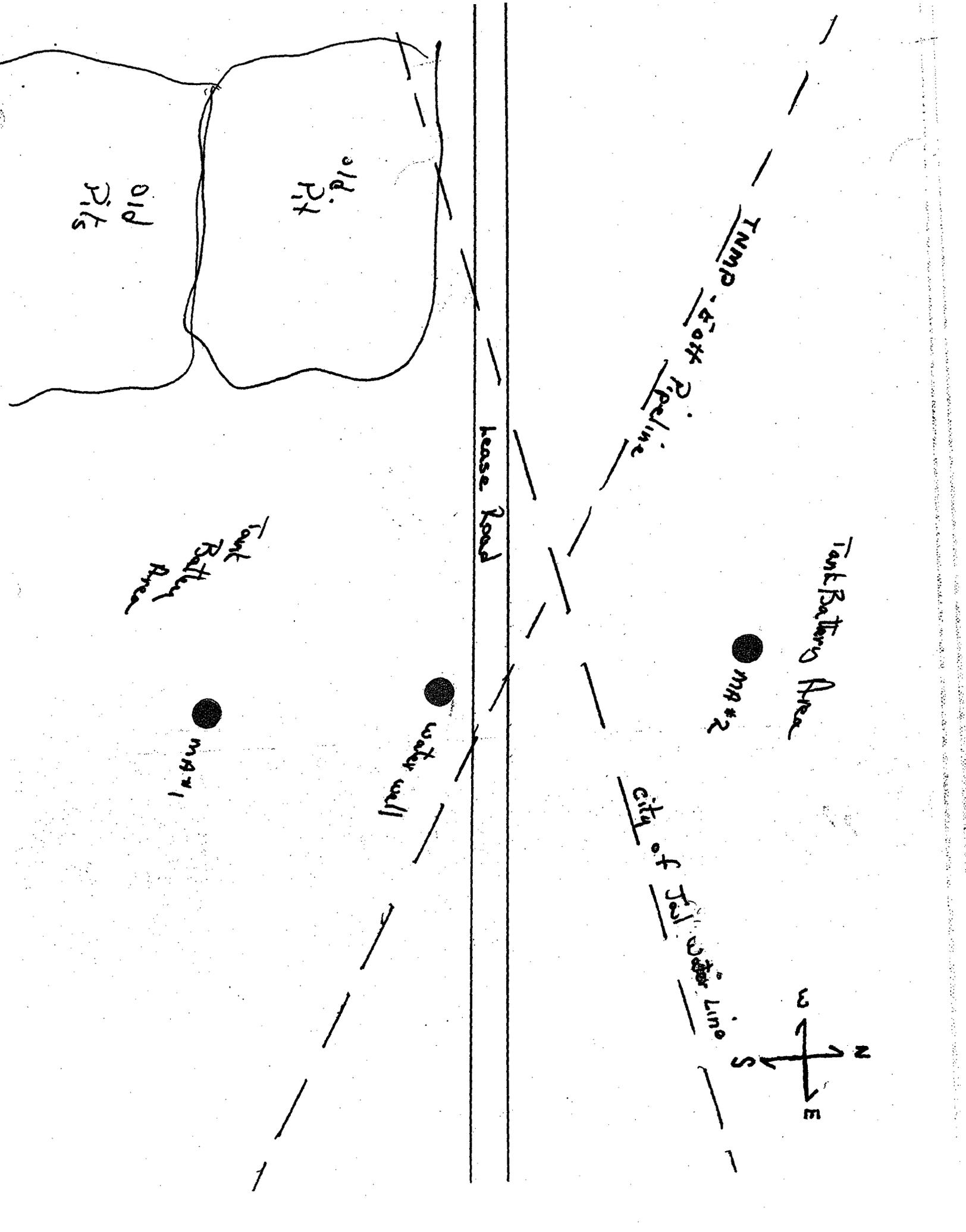
0'-15' black very oily top soil
15'-26' sand, rock, oily, strong odor
26'-32' caliche, charcoal gray, strong odor
32'-38' caliche white in color, odor
38'-48' caliche, sand, rock, odor
48'-57' sand, caliche, rock
57'-80' sand, clay, rock
TD 80 ft.

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.



0 1000 FEET 500 1000 METERS 1 MILE
Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)
WGS84 103°12'00" W



old Pits

old Pit

Tank Battery Area

MA#1

water well

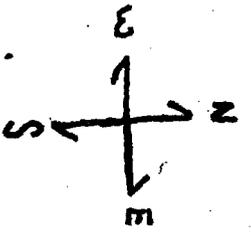
Lease Road

TNMP - 80th Pipeline

Tank Battery Area

MA#2

city of Joel water line



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

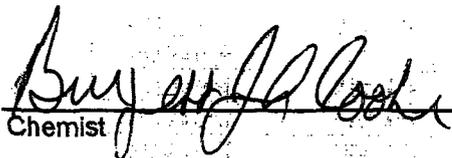
Receiving Date: 03/05/03
Reporting Date: 03/10/03
Project Owner: J. ANTHONY
Project Name: MARALO-ANTHONY
Project Location: JAL, NM

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)	CI* (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; CI-Std. Methods 4500-C1B

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


Chemist

3/10/03
Date

H7515A.XLS

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**ARDINAL
LABORATORIES**

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	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

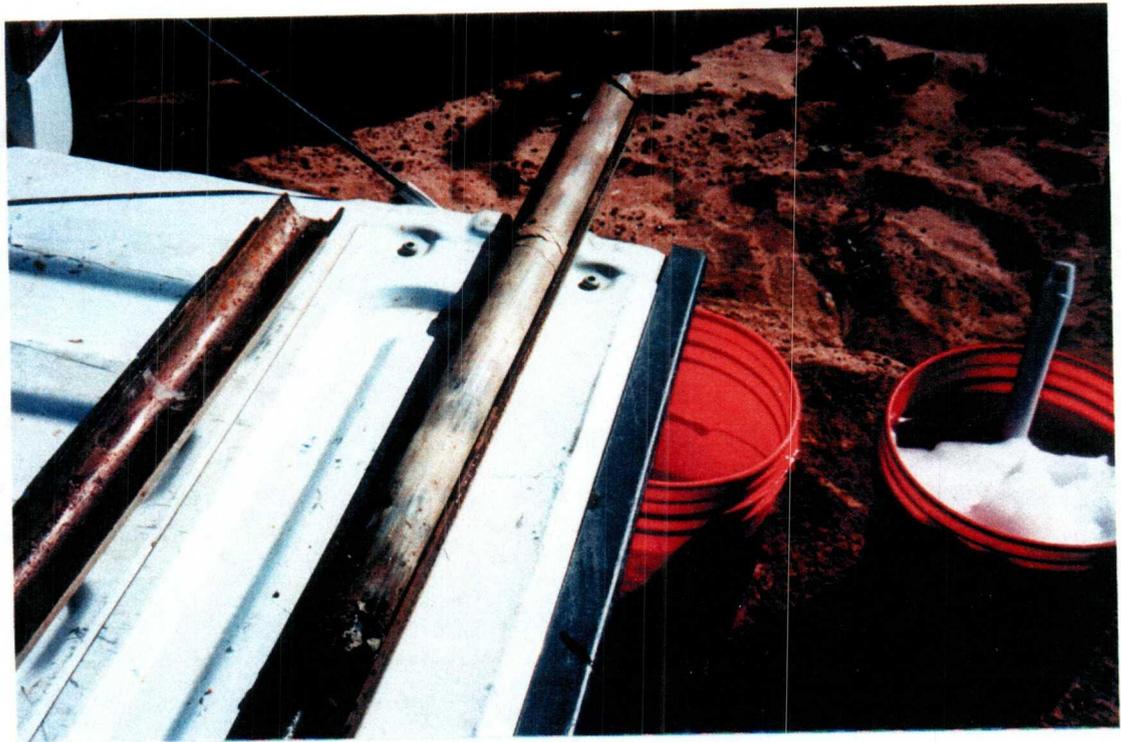
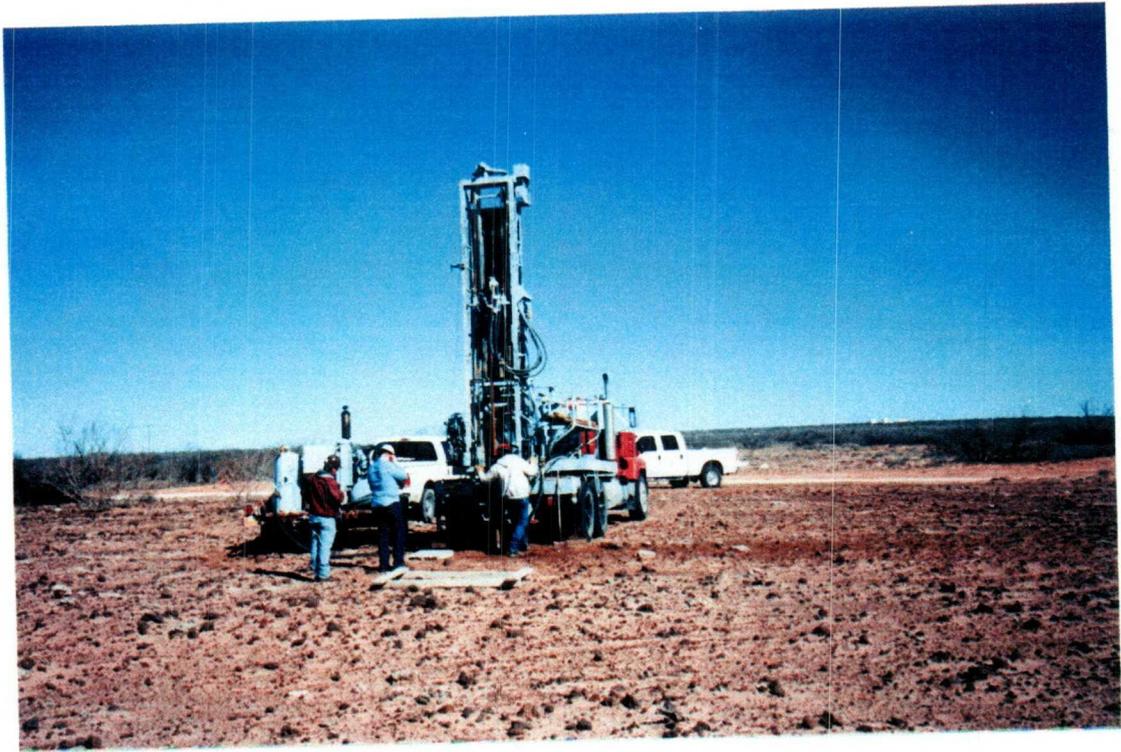
3/10/03
Date

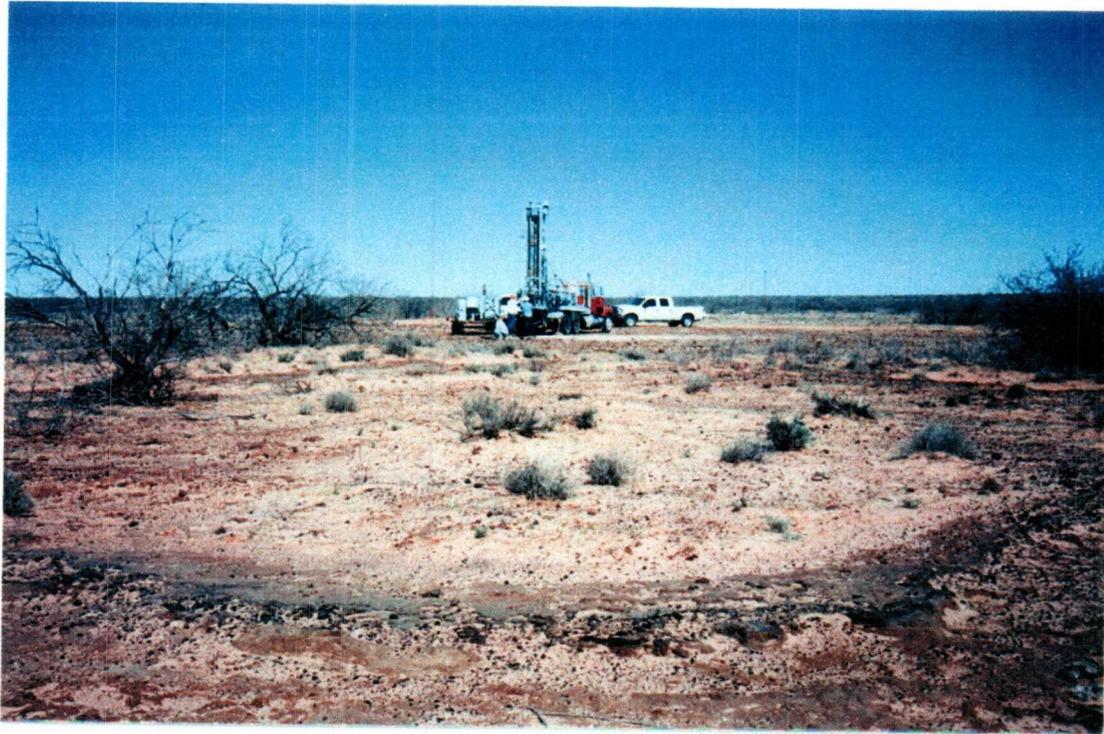
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Anthony
Merales
3/4/2003

MA # 1







MA #2

