# RECEIVED

MAR 24 2003

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

## **MARALO SITE**

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

JAL, NM

**MARCH 2003** 

	BEFORE EXAMINER	<b>B</b> NT T
	OIL CONSERVATION DIVISION	
	EXHIBIT NO. 5	REAL COMPANY
CAS	ENO. 13142	<b>H</b> ARA

STREET, STREET

## March 14, 2003

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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,

Eddin w A

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:**

 $\hat{\mathbf{D}}$ 

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

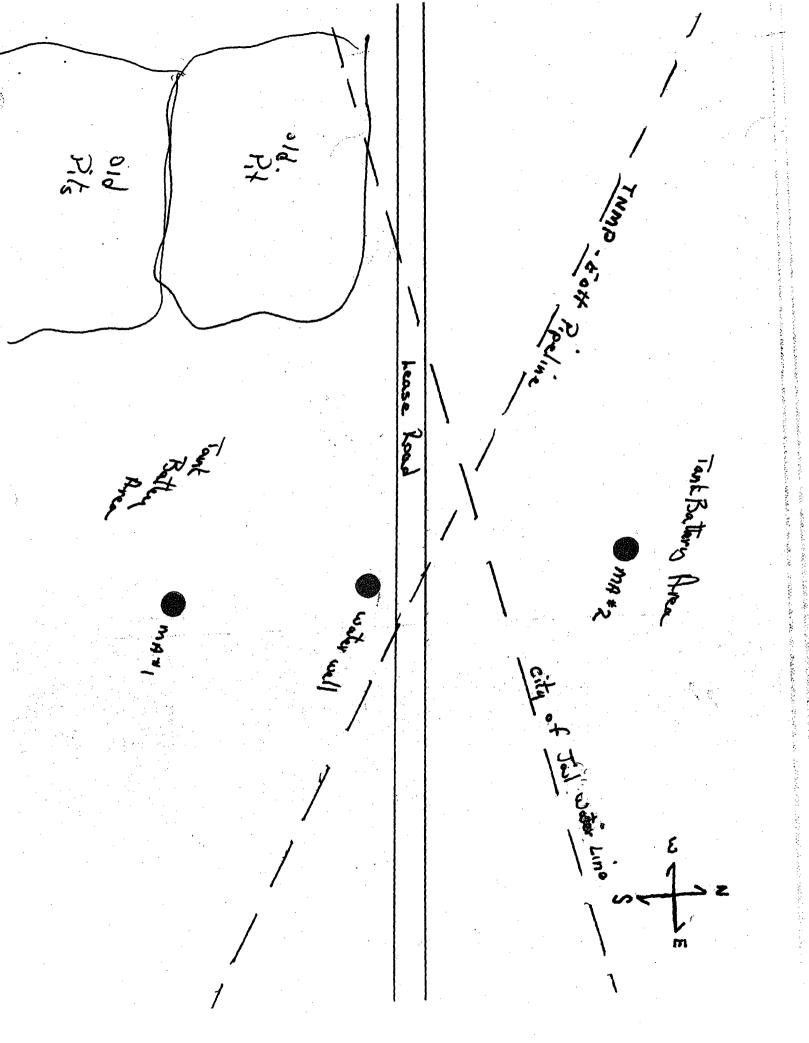
From the analytical data provided on the soil borings, it is obvious that an extensive investigation and remediation plan needs to be undertaken by the responsible party. The analytical exceeds the guidelines set forth by the NMOCD for cleanup and remediation. Given the depth of contamination in the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



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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

		TPH	CI*
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE:	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
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Quality Control	· · · · · · · · · · · · · · · · · · ·	241	1080
True Value QC		240	1000
% Recovery	• •	100	108
Relative Percer	nt Difference	1.1	8.0

METHODS: TPH-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B \*Analyses performed on 1:4 w:v aqueous extracts.

### H7515A.XLS

PLEASE NOTE: Liability and Demages. 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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			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(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

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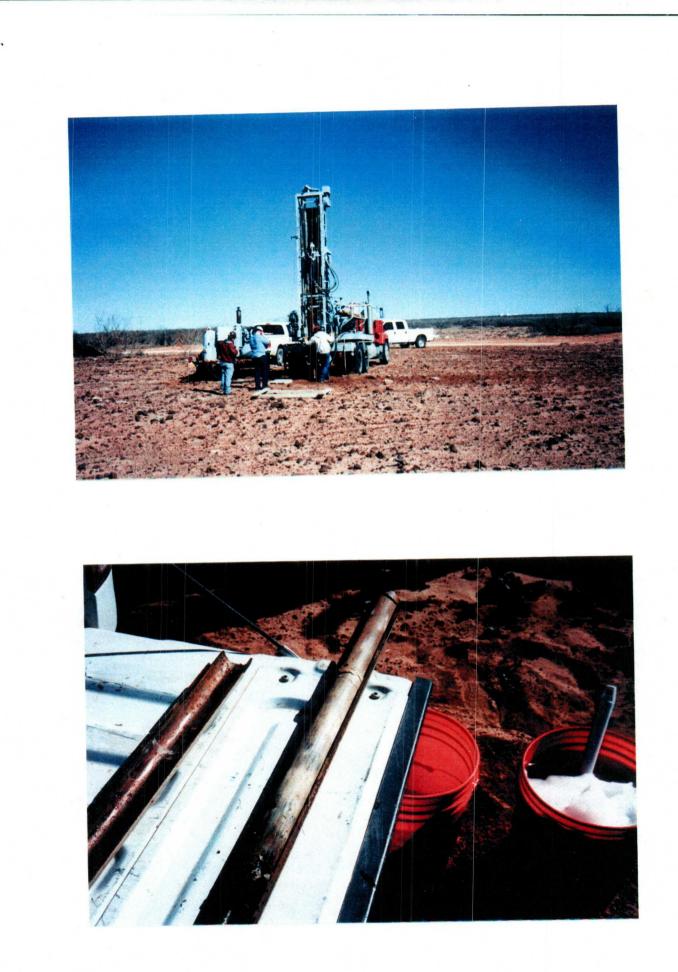
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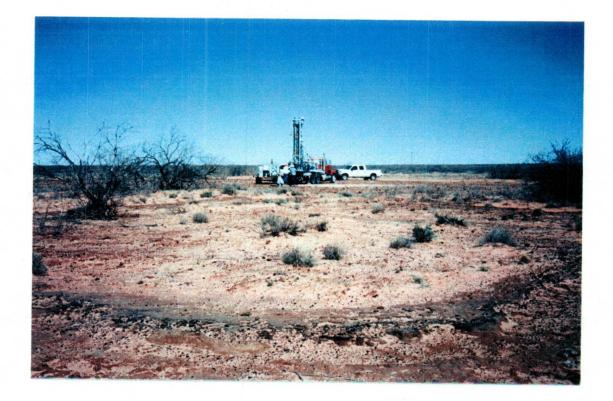
Anthony Maralo 3/4/2003

MA#1





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MA#2

