

1R -

301

REPORTS

DATE:

2001

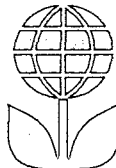
**George O'Brien
Oil Company**

RECEIVED

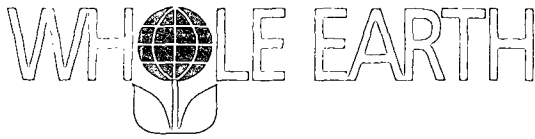
FEB 15 2001

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

**Graham State # 1
Pit Closure Project**



Whole Earth Environmental
19606 San Gabriel
Houston, Tx. 77084

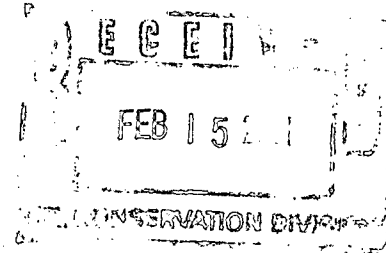


Whole Earth Environmental, Inc.

19606 San Gabriel, Houston, Texas 77084
281/492-7077 • Fax: 281/646-8996

February 7, 2001

Roger Anderson
NMOCD
1220 South Saint Frances
Sante Fe, NM 87505



Dear Mr. Anderson:

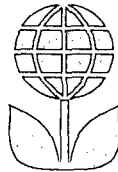
Enclosed, please find a copy of the final closure report for the George O'Brien Graham State pit complex.

If you've any questions regarding this project, please do not hesitate to call me at (800) 854-4358.

Warmest regards,

Mike Griffin
President
Whole Earth Environmental, Inc.

CC: George O'Brien



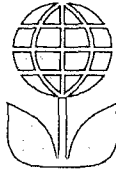
Executive Summary

Whole Earth Environmental, Inc. began the excavation of the Graham State site after first notifying New Mexico State One Call and obtaining a verification number of 00120710010211. The initial excavation began on December 11th, 2000 and consisted of the removal of approximately 308 cubic yards of solidified tank bottoms and contaminated soils. These materials were sent to the Gandy / Marley Landfill near Caprock, New Mexico for remediation.

Excavation continued to a total depth of approximately 30' below ground level. Field testing indicated that each side wall and the excavation bottom were below closure standards and the NMOCD was notified on December 15th that formal testing would be conducted on December 20th.

The bottom of the excavation was backfilled with clean side-wall material to a total depth of 25' below ground level in preparation of installing a clay liner. The liner was installed and tested on January 8th, 2001.

Backfilling of the excavation began January 21st, 2001 and was concluded on January 2nd. The site was back-dragged and re-contoured to match existing elevations.



Site Profile

Location

The site is located approximately 14 miles northwest of Tatum, New Mexico. It may be reached by unimproved lease roads going north from Hwy. 380.

Topography

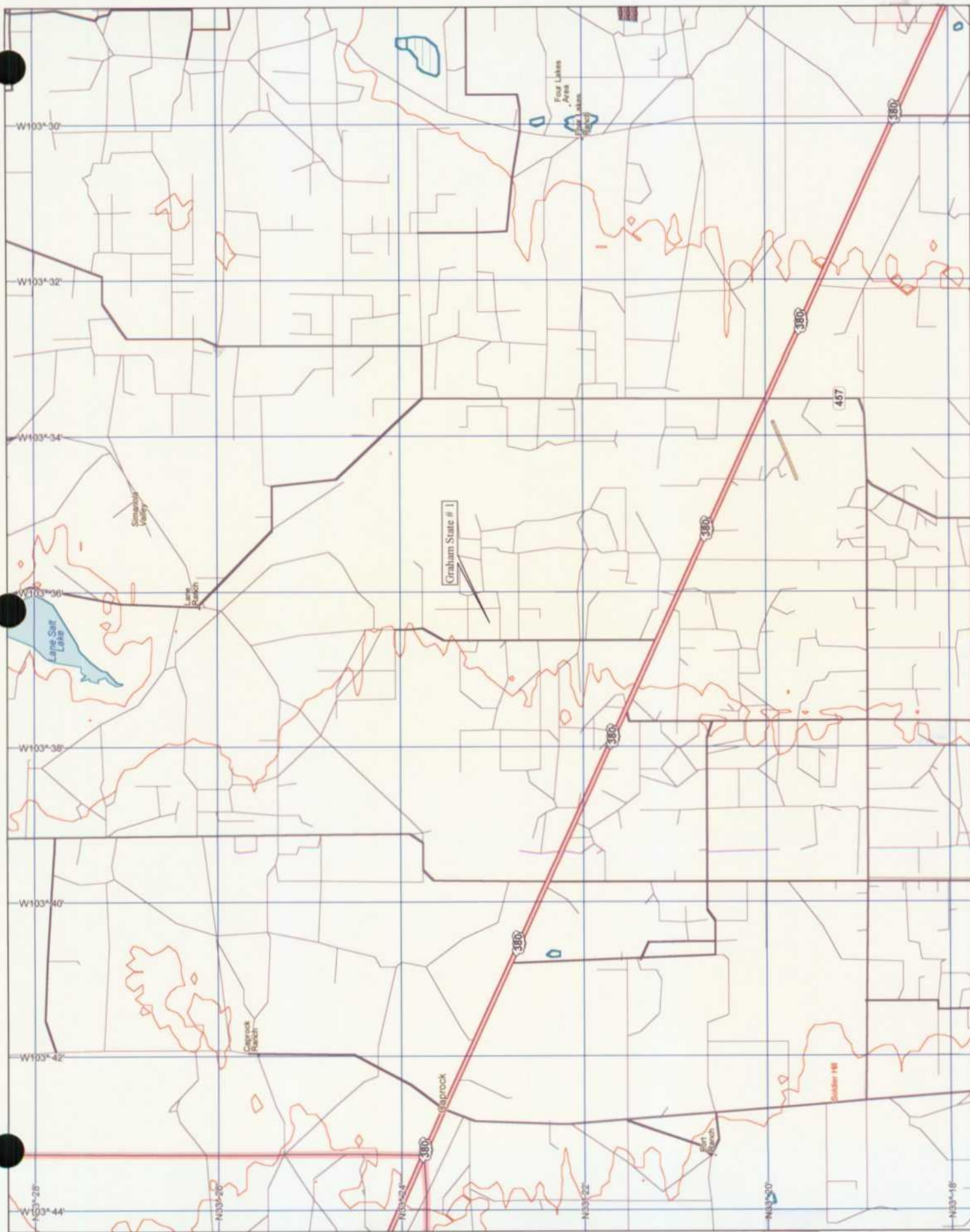
The surrounding topography is unremarkable. The elevation tends to decline in an easterly and southern direction with no significant deviations to the mean. There are no surface streams or ponds within five miles of the location.

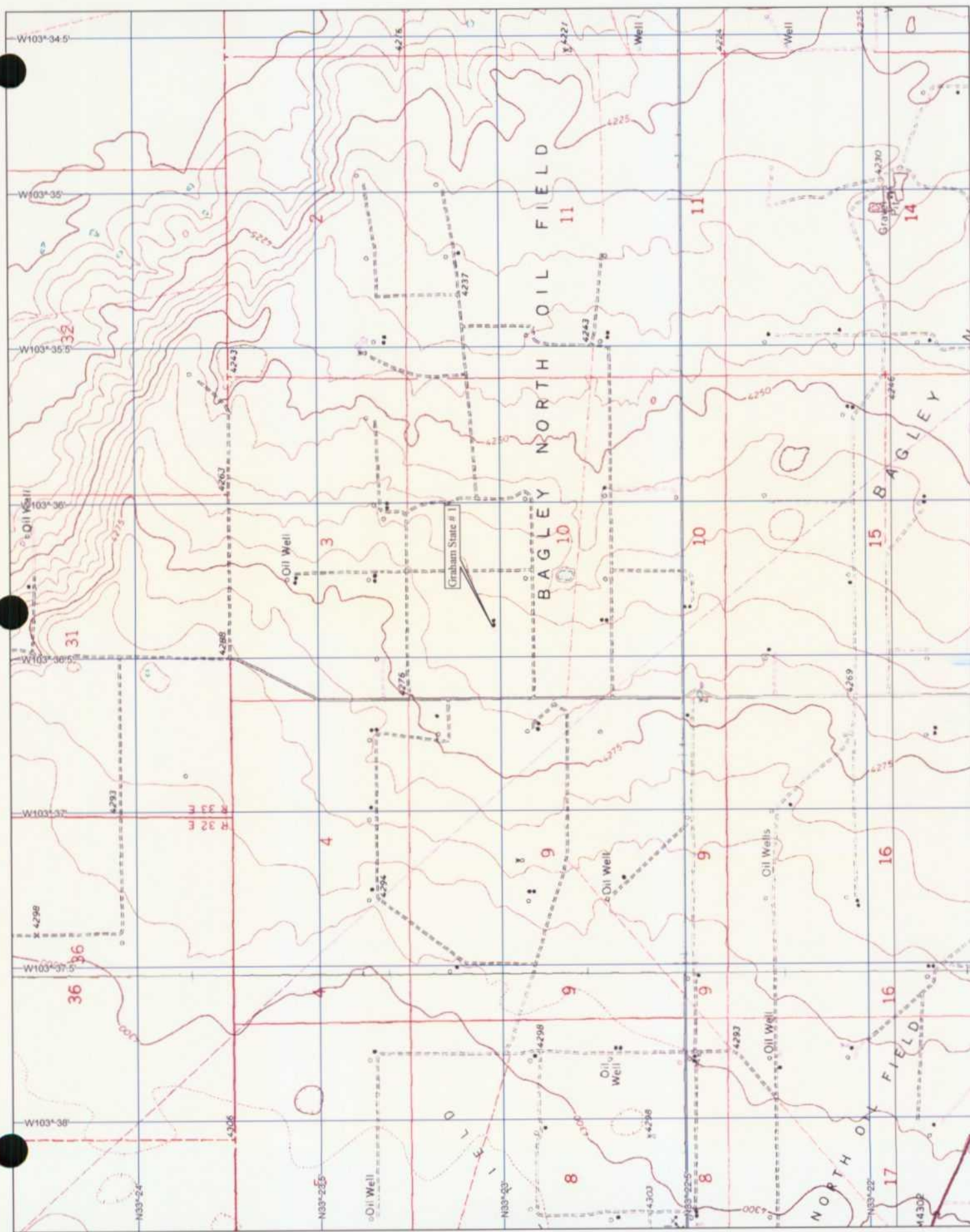
Land Use

The primary land use for the surrounding area is petroleum extraction. Secondary usage is the grazing of cattle. There are no agricultural or recreational areas within five miles of the facility.

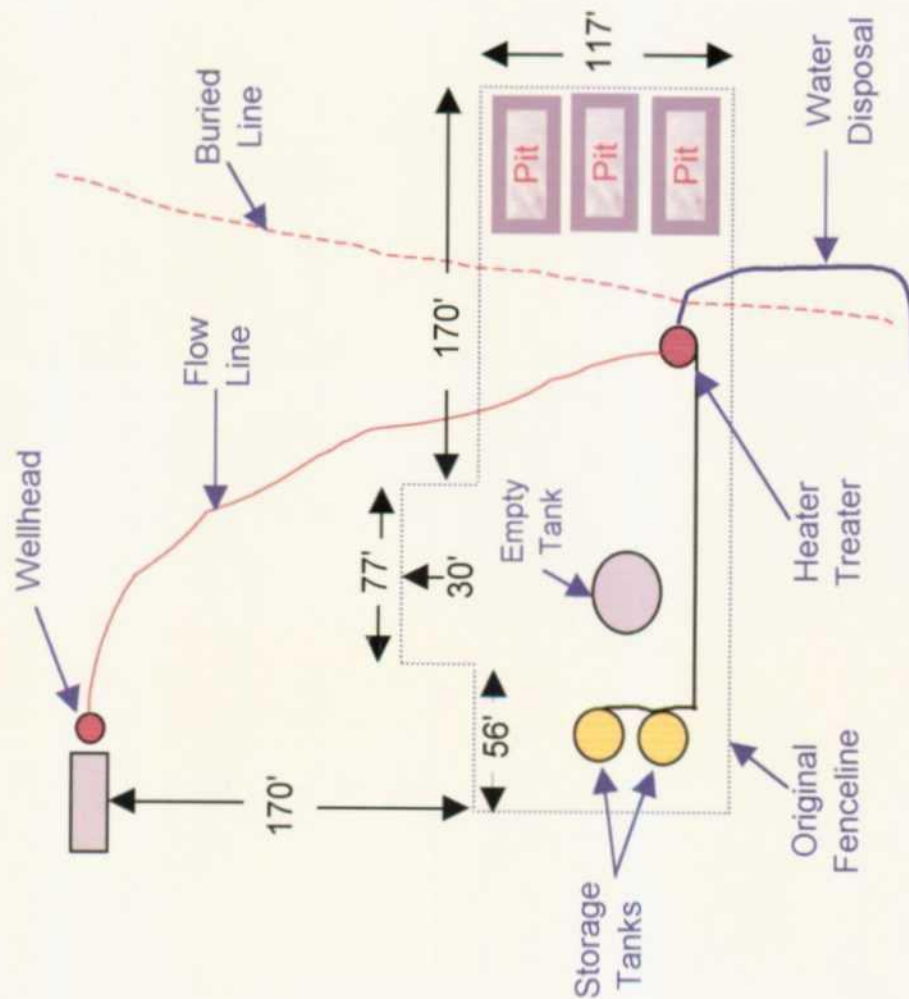
Site Description

The pit network consists of three interconnected unlined surface impoundments used for purposes of emergency overflow from a production facility located immediately west of the pits. Each impoundment is bermed with fill dirt raising the lip of the pits to a point approximately 2' above the surrounding elevations. The entire complex is surrounded with a four string barbed wire fence.

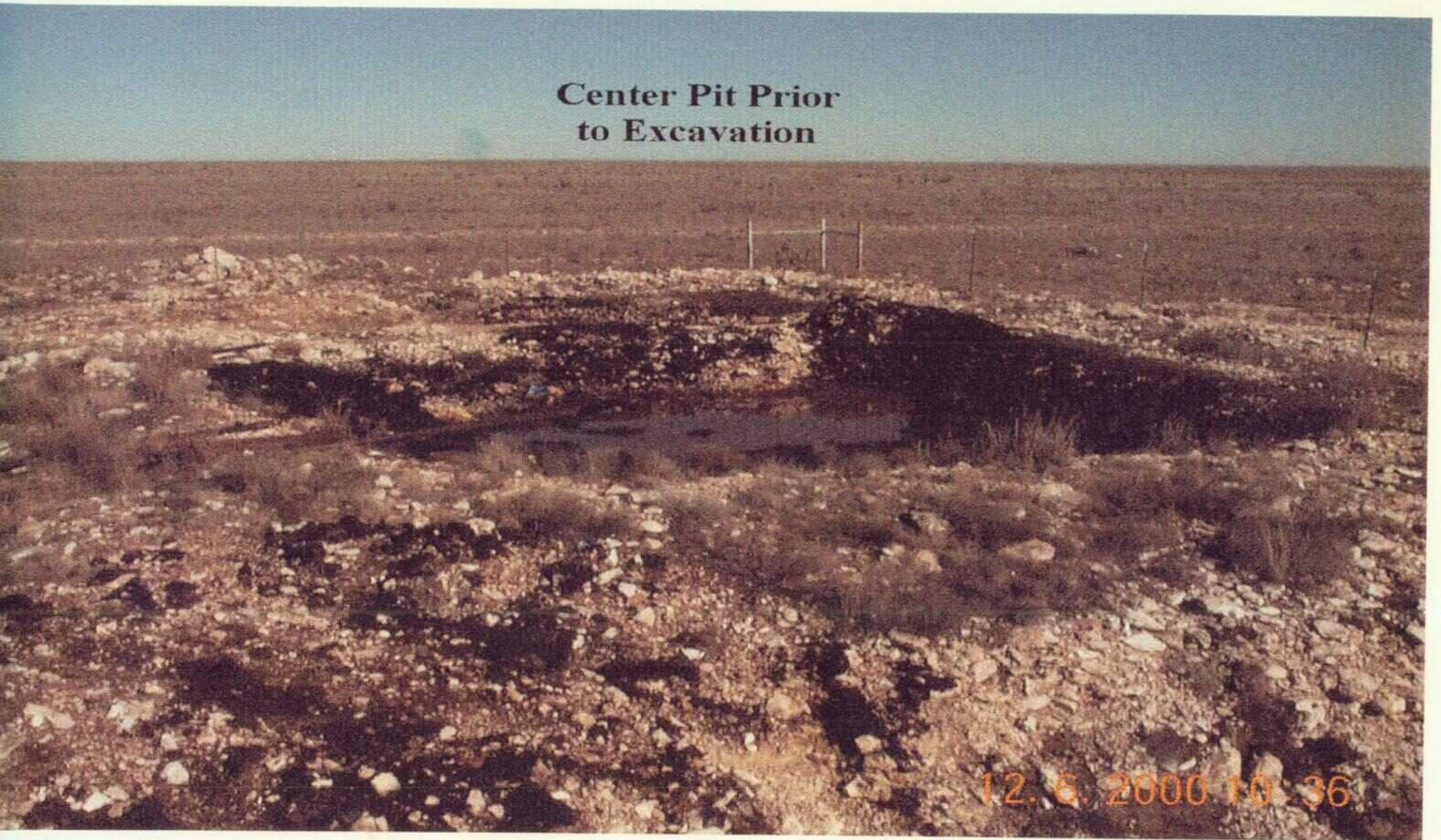




**George O'Brien Oil Company
Graham State # 1
Site Layout**

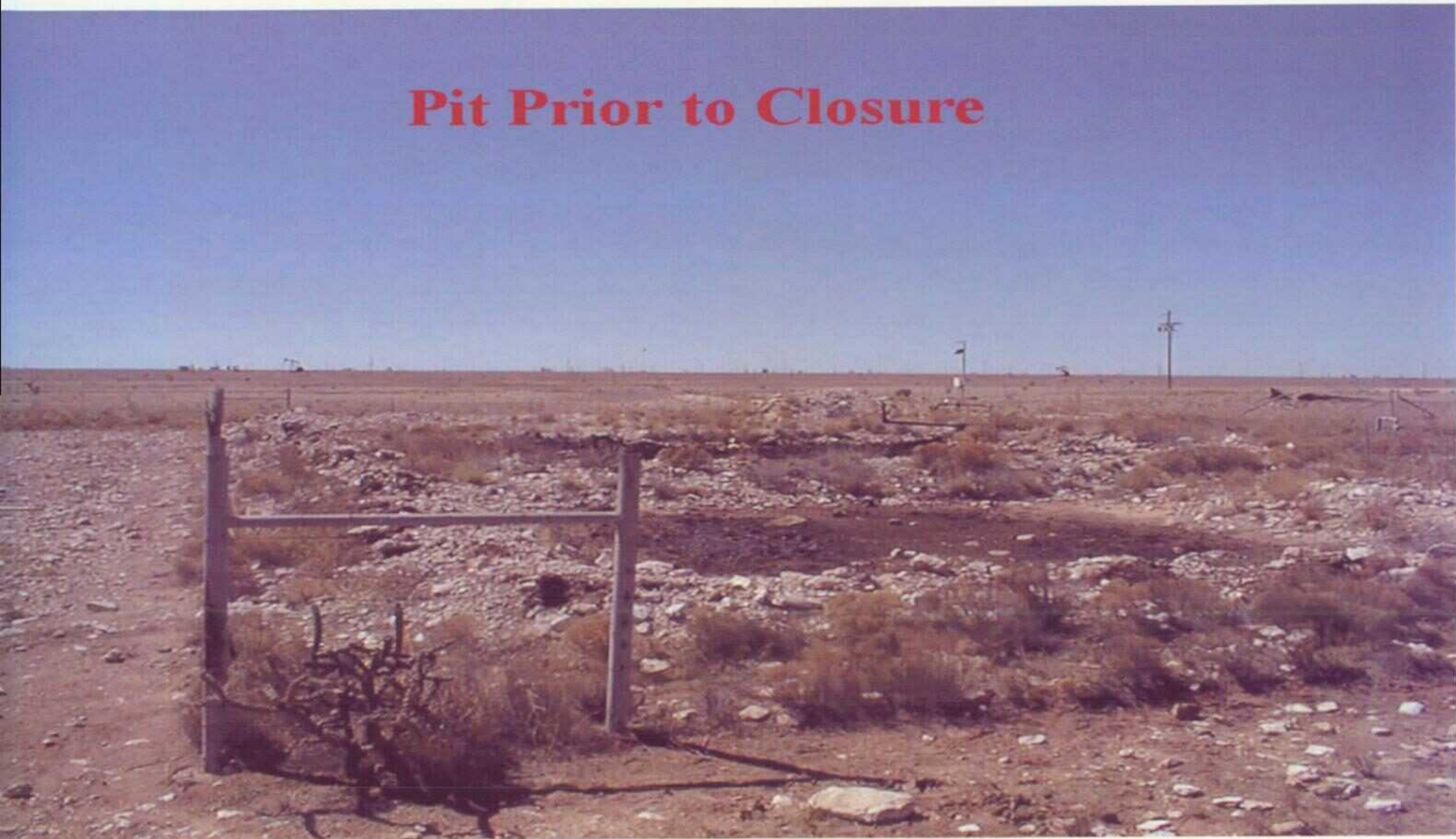


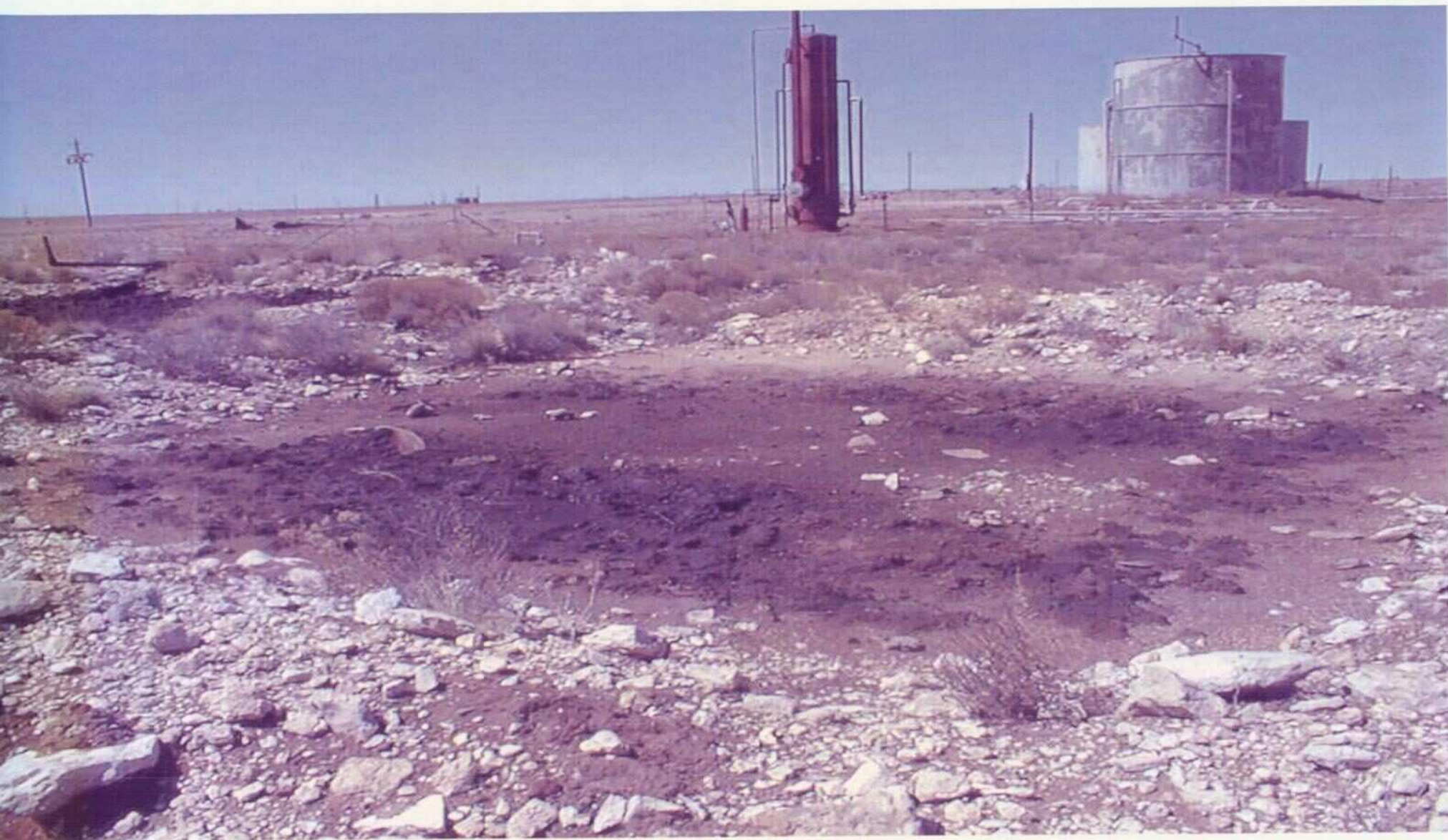
**Center Pit Prior
to Excavation**



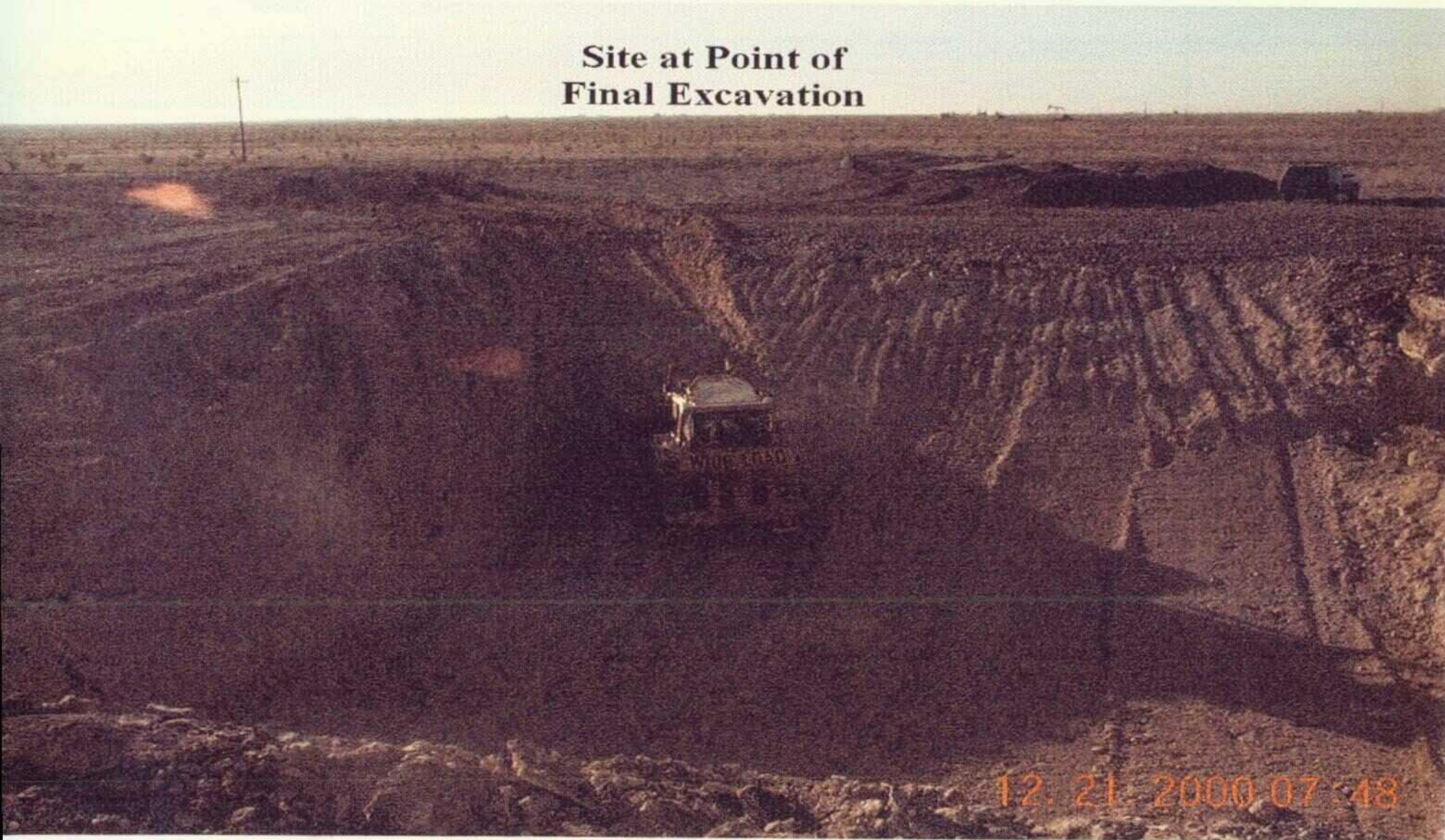
12. 6. 2000 10:36

Pit Prior to Closure





**Site at Point of
Final Excavation**



12.21.2000 07:48

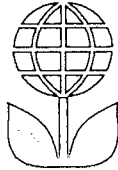
Liner Compaction Detail



2.4.1999 14:30

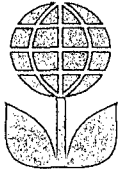
**1-22-01 Site at Final
Contour**





Protocol

This section contains a copy of PR-58A submitted to the NMOCD on November 17, 2000 and approved by Donna Williams on December 4, 2000.



PR-58A

**Remediation Protocol
George O'Brien Oil Company
Graham State # 1**

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation of a pit area located west of Tatum, New Mexico.

2.0 Scope

This protocol is site specific for the George O'Brien remediation project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

3.1.1 Whole Earth shall meet with cognizant personnel within George O'Brien to review this protocol and make any requested modifications or alterations.

3.1.2 Changes to this protocol will be documented and submitted for final review by George O'Brien prior to the initiation of actual field work.

4.0 Safety

4.1 Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate George O'Brien personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All sub-contractors must attend and sign the daily log-in sheet.

4.3 Anyone allowed on to location must be wearing sleeved shirts, steel toed boots, and long pants. Each vehicle must be equipped with two way communication capabilities.

4.4 Prior to any excavation, New Mexico One Call will be notified. The One Call notification number will be included within the closure report. If lines are discovered within the area to be excavated they shall be marked with pin flags on either side of the line at maximum five foot intervals.

5.0 Remediation Procedure

5.1 All soils containing a TPH concentration >100 ppm, and all soils containing a benzene concentration >10ppm or a total BTEX concentration >50ppm will be excavated and placed immediately adjacent to the excavation. The side walls and bottom of the excavation will be field tested for TPH and BTEX concentrations in accordance with WEQP-06 and WEQP-19.

5.2 The Hobbs branch of the OCD will be notified to witness the final confirmation sampling of the side walls and bottom of the excavation. Samples will be collected in accordance with WEQP-77 and analyzed for TPH and BTEX.

5.3 The excavated soils will be mixed and blended with sub-strait materials to achieve a maximum concentration of 1,000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX concentration. A confirmation composite sample will be collected and analyzed in accordance with 7.1 of this protocol.

6.0 Clay Liner

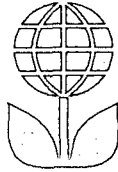
6.1 Upon approval by the NMOCD, Whole Earth will install a clay liner in the bottom of the excavation to a minimum depth of 24" and compacted to 100% density.

7.0 Closure Report

7.1 At the conclusion of the project, Whole Earth shall prepare a closure report which contains the following minimum information:

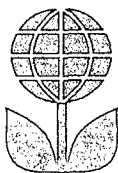
- Photographs of the location prior to remediation
- Photographs of the location at time of final closure
- Plat map showing sampling locations
- All pre-closure contaminant concentrations
- Contaminant concentrations at the conclusion of the project
- Copies of this protocol and all testing procedures
- Copies of each days tailgate safety meeting
- Copies of daily calibration logs for each instrument
- Independent split sample laboratory analyses

- Clay proctor certificate
- Clay density test result



Procedures

This section contains copies of the field testing and laboratory sample collection procedures employed on this project.



QP-06 Rev. C

WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Conducting Field TPH Analysis

Completed By:	Approved By:	Effective Date: 02/15/97
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1.0 Purpose

To define the procedure to be used in conducting total percentage hydrocarbon testing in accordance with EPA Method 418.1 (modified) using the "MEGA" TPH Analyzer.

2.0 Scope

This procedure is to be used for field testing and on site remediation information.

3.0 Procedure

3.1 The G.A.C. "MEGA" TPH analyzer is an instrument that measures concentrations of aliphatic hydrocarbons by means of infra-red spectrometry. It is manufactured to our specifications and can accurately measure concentrations from two parts per million through 100,000 parts per million. The unit is factory calibrated however minor calibration adjustments may be made in the field. Quality Procedure 25 defines the field calibration methods to be employed.

3.2 Prior to taking the machine into the field, insert a 500 ppm and 5,000 ppm calibration standard into the sample port of the machine. Zero out the Range dial until the instrument records the exact standard reading.

3.3 Once in the field, insert a large and small cuvette filled with clean Freon 113 into the sample port of the machine. Use the range dial to zero in the reading. If the machine does not zero, do not attempt to adjust the span dial. Immediately implement Quality Procedure 25.

3.4 Place a 100 g. weight standard on the field scale to insure accuracy. Zero out the scale as necessary.

3.5 Tare a clean 100 ml. sample vial with the Teflon cap removed. Add 10 g. (+/- .01 g), of sample soil into the vial taking care to remove rocks or vegetable matter from the sample to be tested. If the sample is wet, add up to 5 g. silica gel or anhydrous sodium sulfate to the sample after weighing.

3.6 Dispense 10 ml. Freon 113 into the sample vial.

3.7 Cap the vial and shake for five minutes.

3.8 Carefully decant the liquid contents of the vial into a filter/desiccant cartridge and affix the cartridge cap. Recap the sample vial and set aside.

3.9 Insert the metal tip of the pressure syringe into the cap opening and slowly pressurize. **WARNING: APPLY ONLY ENOUGH PRESSURE ON THE SYRINGE TO EFFECT FLOW THROUGH THE FILTERS. TOO MUCH PRESSURE MAY CAUSE THE CAP TO SEPARATE FROM THE BODY OF THE CARTRIDGE.** Once flow is established through the cartridge direct the flow into the 5 cm. cuvette until the cuvette is full. Reverse the pressure on the syringe and remove the syringe tip from the cartridge cap. Set the cartridge aside in vertical position.

3.10 The cuvette has two clear and two frosted sides. Hold the cuvette by the frosted sides and carefully insert into the sample port of the machine. Read the right hand digital read-out of the instrument. If the reading is less than 1,000 ppm. the results shall be recorded in the field Soil Analysis Report. If the result is higher than 1,000 ppm, continue with the dilution procedure.

4.0 Dilution Procedure

4.1 When initial readings are greater than 1,000 ppm using the 5 cm. cuvette, pour the contents of the 5 cm. cuvette into a 1 cm. cuvette. Insert the 1. cm cuvette into the metal holder and insert into the test port of the instrument.

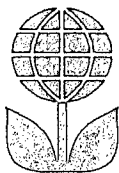
4.1 Read the left hand digital read-out of the machine. If the results are less than 10,000 ppm, record the results into the field Soil Analysis Report. If greater than 10,000 ppm, continue the dilution process. Concentrations >10,000 ppm are to be used for field screen purposes only.

4.2 Pour the contents of the small cuvette into a graduated glass pipette. Add 10 ml. pure Freon 113 into the pipette. Shake the contents and pour into the 1cm. cuvette. Repeat step 4.2. adding two zeros to the end of the displayed number. If the reported result is greater than 100,000 ppm. the accuracy of further readings through additional dilutions is extremely questionable. Do not use for reporting purposes.

4.4 Pour all sample Freon into the recycling container.

5.0 Split Samples

5.1 Each tenth test sample shall be a split sample. Decant approximately one half of the extraction solvent through a filter cartridge and insert into the instrument to obtain a concentration reading. Clean and rinse the cuvette and decant the remainder of the fluid to obtain a second concentration reading from the same sample. If the second reading varies by more than 1% from the original, it will be necessary to completely recalibrate the instrument.



QP-77

WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Obtaining Soil Samples for Transportation to a Laboratory

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed when obtaining soil samples to be taken to a laboratory for analysis.

2.0 Scope

This procedure is to be used when collecting soil samples intended for ultimate transfer to a testing laboratory.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the soil. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 If collecting TPH, BTEX, RCRA 8 metals, cation / anions or O&G, the sample jar may be a clear 4 oz. container with Teflon lid. If collecting PAH's, use an amber 4 oz. container with Teflon lid.

4.0 Chain of Custody

4.1 Prepare a Sample Plan. The plan will list the number, location and designation of each planned sample and the individual tests to be performed on the sample. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.

4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.

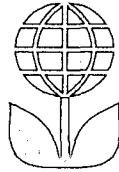
- 4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Sampling Procedure

- 5.1 Go to the sampling point with the sample container. If not analyzing for ions or metals, use a trowel to obtain the soil. Do not touch the soil with your bare hands. Use new latex gloves with each sample to help minimize any cross-contamination.
- 5.2 Pack the soil tightly into the container leaving the top slightly domed. Screw the lid down tightly. Enter the time of collection onto the sample collection jar label.
- 5.3 Place the sample directly on ice for transport to the laboratory.
- 5.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

6.0 Documentation

- 6.1 The testing laboratory shall provide the following minimum information:
- A. Client, Project and sample name.
 - B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
 - C. Results of the requested analyses
 - D. Test Methods employed
 - E. Quality Control methods and results



Laboratory Analytical Results

This section contains copies of the chain of custody and laboratory analytical results for the excavation and remediation portion of the project. The section additionally contains copies of the laboratory proctor and field density tests for the clay liner.

REPORT OF MOISTURE FIELD DENSITY TESTS



Smith Engineering Company
A Full-Service Engineering Company

PROJECT: OILFIELD PIT LINER

LAB NO: 300915

CLIENT: GANDY CORP

TESTED BY: SAY

CONTRACTOR: GANDY CORP

DATE TESTED: 01/08/01

MORLY & GANDY LAND FARM

MATERIAL: NATURAL GROUND ON SITE (LINER, CLAY MATERIAL)

TEST NUMBER	LOCATION OF TEST	PERCENT MOISTURE	DRY DENSITY LBS/CU FT	PERCENT PROCTOR	REQUIRED COMPACTION
1	NW CORNER, 1ST LIFT	14.7	115.0	101%	95%
2	SW CORNER, 1ST LIFT	15.0	115.3	102%	95%
3	SE CORNER, 1ST LIFT	14.9	116.3	102%	95%
4	NE CORNER, 1ST LIFT	15.2	113.6	100%	95%
5	NW CORNER, FINAL LIFT	15.8	115.7	102%	95%
6	SW CORNER, FINAL LIFT	15.6	115.8	102%	95%
7	SE CORNER, FINAL LIFT	15.4	114.9	101%	95%
8	NE CORNER, FINAL LIFT	15.1	115.7	102%	95%

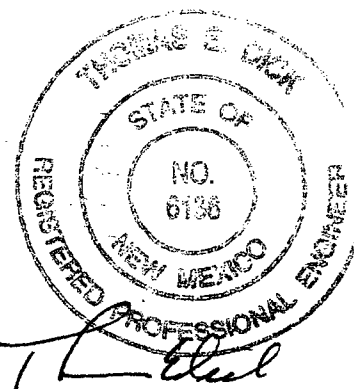
REMARKS:

TEST METHOD: ASTM-D-2922, br

OPTIMUM MOISTURE: 14.5

OPTIMUM DENSITY: 113.5

COPIES TO: GANDY CORP



THOMAS E. DICK, P.E.
N.M. LICENSE NO. 6136



Smith Engineering Company
A Full-Service Engineering Company

SOIL REPORT FORM

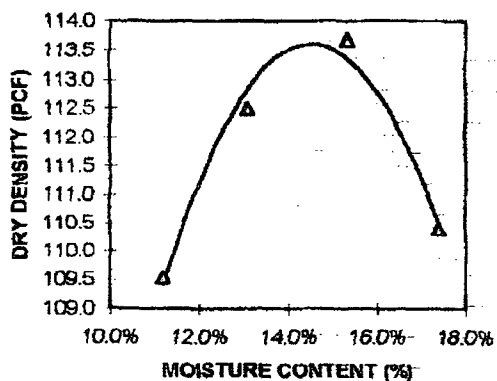
PROJECT OILFIELD PIT LINER LAB NO. 300915
 CLIENT GANDY SAMPLE NO. J001127
 CONTRACTOR GANDY SAMPLED BY CLIENT DATE 12/22/00
 A SAMPLE OF NATURAL GROUND TESTED BY DLG DATE 12/29/00
 LOCATION ON SITE

TEST METHOD - ASTM D-698 A

AGGREGATE SIEVE ANALYSIS

ASTM C136

MOISTURE-DENSITY CURVE



SIEVE SIZE (U.S.S.S.)	CUMULATIVE % PASSING	SPECIFICATION LIMITS
2"	NT	
1 1/2"	NT	
1"	NT	
3/4"	NT	
1/2"	NT	
3/8"	NT	
No. 4	NT	
No. 10	NT	
No. 40	NT	
No. 80	NT	
No. 200	NT	

% GRAVEL	NT
% SAND	NT
% SILT AND CLAY	NT

MAX. DRY DENSITY 113.5 OPTIMUM MOISTURE 14.5%
 CORRECTED FOR OVERSIZE FRACTION: (ASTM D4718)
 MODIFIED M.D. NT MODIFIED O.M. NT

ATTERBERG LIMITS (ASTM D4318)
 LIQUID LIMIT NT PLASTICITY INDEX NT

CLASSIFICATION (ASTM D2487)
 UNIFIED CLASSIFICATION:

REMARKS:

COPIES TO: LA FARGE
Gandy Corp.

Thomas E. Dick P.E.
 N.M. License No. 6136

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

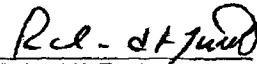
WHOLE EARTH ENVIRONMENTAL
ATTN: MR. ELLIOT WERNER
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Sample Type: Soil
Sample Condition: Intact/Iced/ 3.5 deg C
Project #: None Given
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: See Below
Receiving Date: 01/24/01
Analysis Date: 01/24/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
36790	Lift 1	<10	88	01/21/01
36791	Lift 2	<10	86	01/21/01
36792	Lift 3	11	105	01/21/01
36793	Lift 4	<10	79	01/21/01
36794	Lift 5	<10	60	01/22/01
36795	Lift 6	<10	72	01/22/01
36796	Lift 7	<10	86	01/22/01
36797	Lift 8	<10	74	01/22/01
36798	Lift 9	<10	65	01/22/01
36799	Top Composite	<10	<10	01/22/01
% IA		84	92	
%EA		95	96	
BLANK		<10	<10	

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

1-25-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. ELLIOT WERNER
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

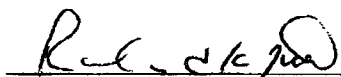
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3.5 deg. C
Project #: None Given
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: See Below
Receiving Date: 01/24/01
Analysis Date: 01/24/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
36790	Lift 1	<0.025	<0.025	<0.025	<0.025	<0.025	01/21/01
36791	Lift 2	<0.025	<0.025	<0.025	<0.025	<0.025	01/21/01
36792	Lift 3	<0.025	<0.025	<0.025	<0.025	<0.025	01/21/01
36793	Lift 4	<0.025	<0.025	<0.025	<0.025	<0.025	01/21/01
36794	Lift 5	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01
36795	Lift 6	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01
36796	Lift 7	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01
36797	Lift 8	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01
36798	Lift 9	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01
36799	Top Composite	<0.025	<0.025	<0.025	<0.025	<0.025	01/22/01

%IA	99	97	98	93	98
%EA	96	97	98	95	98
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B, 5030


Ralard K. Tuttle

1-25-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

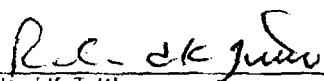
Sample Type: Soil
Sample Condition: Intact/ Iced/ 3.5 deg. C
Project #: None Given
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: See Below
Receiving Date: 01/24/01
Analysis Date: 01/24/01

ELT #	FIELD CODE	Chloride mg/kg
36790	Lift 1	25
36791	Lift 2	<25
36792	Lift 3	<25
36793	Lift 4	<25
36794	Lift 5	<25
36795	Lift 6	<25
36796	Lift 7	<25
36797	Lift 8	<25
36798	Lift 9	<25
36799	Top Composite	25

QUALITY CONTROL	4963
TRUE VALUE	5000
% INSTRUMENT ACCURACY	99
BLANK	<10

METHODS: SW 846-9253


Roland K. Tuttle

1-25-01
Date

**12600 West I-20 East
Odessa, Texas 79763**
Phone: 915-563-1800
Fax: 915-563-1713

Phone: 915-563-1800
Fax: 915-563-1713

E. Weaver

Whole Earth Environmental

19606 San Gabriel

Harvey T. 77084

854-C1353

M. diff.

Fax No: (281) 7646-8996

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

George O'Brien

Project #:

Tatum, A.M.

03

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

SampleType: Soil
Sample Condition: Intact/ Iced/ -0.5 deg. C
Project #: Graham State
Project Name: George O'Brien
Project Location: Tatum, N.M.

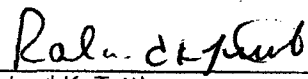
Sampling Date: 12/20/00
Receiving Date: 12/21/00
Analysis Date: 12/22/00

ELT#	FIELD CODE	Chloride mg/kg
35546	N. Wall	18
35547	S. Wall	18
35548	W. Wall	<10
35549	E. Wall	<10
35550	Bottom	32

QUALITY CONTROL
TRUE VALUE
% INSTRUMENT ACCURACY
BLANK

5051
5000
101
<10

METHODS: SW 846-9253


Ralanda K. Tuttle

12-29-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

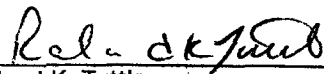
SampleType: Soil
Sample Condition: Intact/ Iced/ -0.5 deg. C
Project #: Graham State
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: 12/20/00
Receiving Date: 12/21/00
Analysis Date: 12/21/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
35546	N. Wall	<10	<10
35547	S. Wall	<10	15
35548	W. Wall	<10	12
35549	E. Wall	<10	<10
35550	Bottom	<10	<10

% IA	101	107
% EA	94	98
BLANK	<10	<10

METHODS: SW 846-8015M GRO/DRO


Raland K. Tuttle

12-29-00
Date

ENVIRONMENTAL LAB OF , INC.

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19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

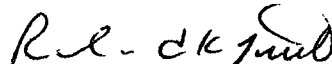
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg. C
Project #: Graham State
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: 12/20/00
Receiving Date: 12/21/00
Analysis Date: 12/28/00

ELT #	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
35546	N. Wall	<0.025	<0.025	<0.025	<0.025	<0.025

%IA	99	99	105	104	99
%EA	107	114	107	115	114
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

12-29-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996


Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg. C
Project #: Graham State
Project Name: George O'Brien
Project Location: Tatum, N.M.

Sampling Date: 12/20/00
Receiving Date: 12/21/00
Analysis Date: 12/28/00

ELT #	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
35547	S. Wall	<0.025	<0.025	<0.025	<0.025	<0.025
35548	W. Wall	<0.025	0.037	<0.025	0.044	<0.025
35549	E. Wall	<0.025	<0.025	<0.025	<0.025	<0.025
35550	Bottom	<0.025	0.044	0.113	0.463	0.333

%IA	99	102	99	99	97
%EA	106	109	105	108	110
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

12-29-00
Date

Project Manager: F. Weiss

Company Name Whole Earth Environ

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx 77084

Telephone No: (800) 854-4358

Sampler Signature: *M. J. A.*

Fax No: (281) 646-8996

Project Manager: F. Weiss

Company Name Whole Earth Environ

Company Address: 19606 San Gabriel

City/State/Zip: Houston, Tx 77084

Telephone No: (800) 854-4358

Sampler Signature: *M. J. A.*

Fax No: (281) 646-8996

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