

Denney 3rd
DEPT'S PIT CLOSURE SUMMARY
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved

Rincon Unit # 44
Meter/Line ID - 70973

SITE DETAILS

~~Legal: Twn: 27~~ ~~Rng: 7~~
NMOCD Hazard Ranking: 20
Operator: UNOCAL

Sec: 25 Unit: P
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 11/15/94
Monitor Well: N/A

Excavation: 11/22/94
Re-Excavation: N/A -

Soil Boring: 8/28/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 550 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 65.3 mg/kg, and TPH was above standards at 3,950 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A very hard tan silty sand (possibly sandstone) was encountered at 22 feet bgs and continued to the termination of the borehole at 35 feet bgs. A soil sample was collected for BTEX and TPH analysis at 33-35 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH present at 77.4 mg/kg.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 21 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

RECEIVED
MAR - 9 1998

OIL CON. DIV.
DIST. 3

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>70973</u> Location: <u>RINCON unit #44</u></p> <p>Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>Blanco</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>25</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>11/15/94</u> Area: <u>03</u> Run: <u>22</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>20</u> POINTS</p>
REMARKS	<p>Remarks : <u>Topo - Inside Redline - Inside</u></p>

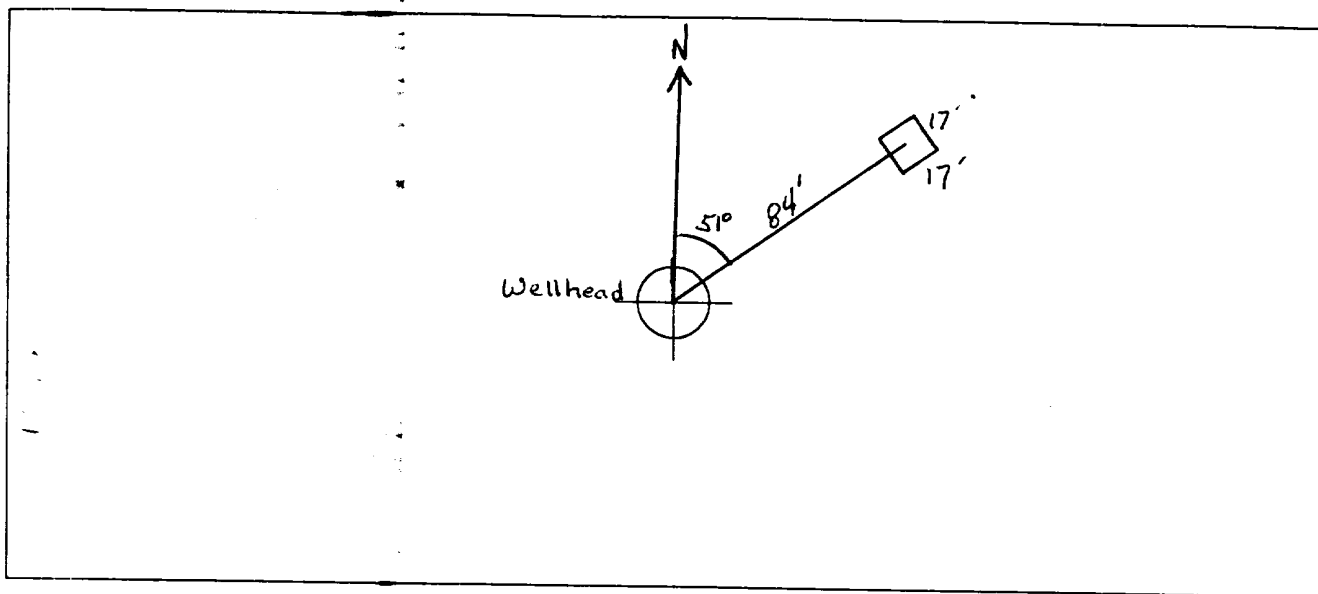
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DIST. 3

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 51° Footage from Wellhead 84

b) Length : 17 Width : 17 Depth : 0



REMARKS

Remarks :

Pictures 1240 (21-24) Roll-5

Pit appeared to be moved. All measurements taken from
approximate center of old pit. Marked with Survey 1sth

Completed By:

Steve T. Payne

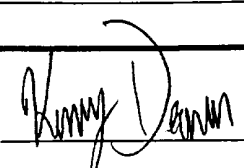
Signature

11/15/94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>70973</u> Location: <u>Rincon unit #44</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>25</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>11/22/94</u> Run: <u>03</u> <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 376</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>550 ppm</u> PID Reading Depth <u>12'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>90</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>11/22/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Unocal had Covered pit, Removed Approximately 6 yds of pit overburden. Excavated pit to 12', Took PID Sample, Closed pit.</u></p>
	<p>Signature of Specialist: <u></u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID	Lab ID
	KD376	946508
MTR CODE SITE NAME:	70973	Rincon Unit #44
SAMPLE DATE TIME (Hrs):	22-Nov-94	1330
PROJECT:	Phase I Excavation	
DATE OF TPH EXT. ANAL.:	11/29/94	11/29/94
DATE OF BTEX EXT. ANAL.:	12/1/94	12/5/94
TYPE DESCRIPTION:	VC	Brown sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.05	MG/KG				
TOLUENE	0.83	MG/KG				
ETHYL BENZENE	42	MG/KG				
TOTAL XYLENES	22	MG/KG				
TOTAL BTEX	65	MG/KG				
TPH (418.1)	3,950	MG/KG			2.04	28.0
HEADSPACE PID	550	PPM				
PERCENT SOLIDS	87.7	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 75 % for this sample All QA/QC was acceptable.

Narrative:

Samples analyzed by Analytical Technologies.

DF = Dilution Factor Used

Approved By:

Date:

Original 12/27/94
Reprint 2/10/98

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*****
*                                     *
*      Test Method for               *
*      Oil and Grease and Petroleum *
*      Hydrocarbons                  *
*      in Water and Soil             *
*                                     *
*      Perkin-Elmer Model 1600 FT-IR *
*      Analytical Report              *
*                                     *
*****

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74/11/27 14:49

* Sample identification
566705

* Initial mass of sample, g
2.040

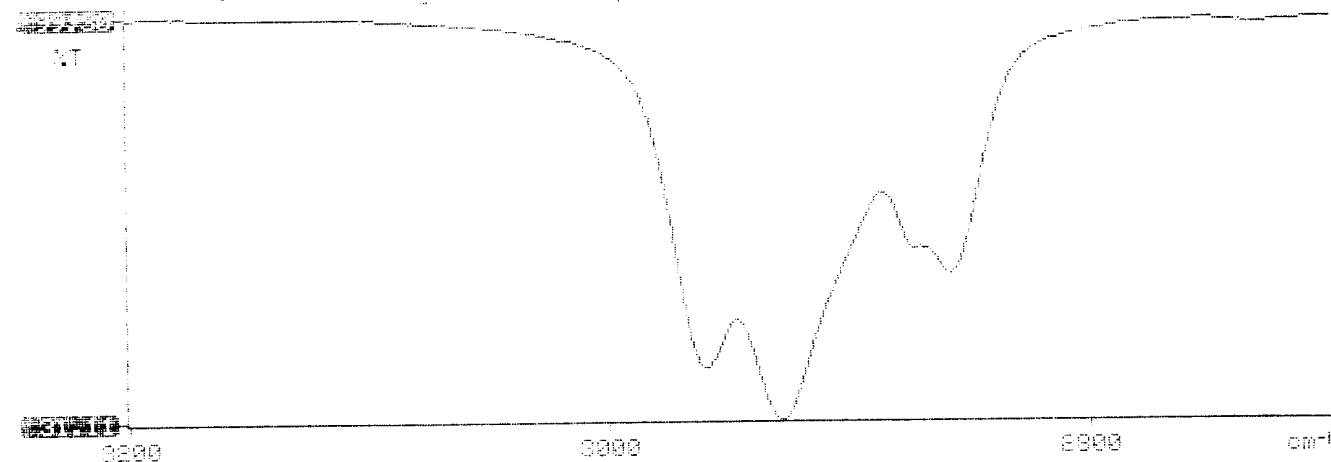
* Volume of sample after extraction, ml
25.000

* Petroleum hydrocarbons, ppm
3951.407

* Net absorbance of hydrocarbons (2930 cm-1)
0.502

* Petroleum hydrocarbons spectrum

14:50





Analytical **Technologies, Inc.**

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 411401

December 7, 1994

El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 11/30/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

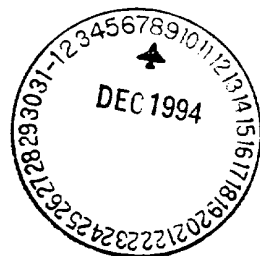
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 411401
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946506	NON-AQ	11/21/94	12/01/94	12/03/94	1
05	946507	NON-AQ	11/21/94	12/01/94	12/03/94	1
06	946508	NON-AQ	11/22/94	12/01/94	12/05/94	20
PARAMETER			UNITS	04	05	06
BENZENE			MG/KG	<0.025	<0.025	<0.50
TOLUENE			MG/KG	0.07	<0.025	0.83
ETHYLBENZENE			MG/KG	<0.025	<0.025	42
TOTAL XYLENES			MG/KG	0.04	<0.025	22

SURROGATE:

BROMOFLUOROBENZENE (%) 106 87 75

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 60+ 6000
Project Location Rincon Unit #44, 70980
70973 dk 8/28/95
Well Logged By S.Kelly
Personnel On-Site M. Danahue, J.O'Keefe
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/4" ID HSK
Air Monitoring Method CGI, PID

Elevation _____
Borehole Location T27, R7, S.25, P
GWL Depth _____
Logged By S.Kelly
Drilled By M. Danahue
Date/Time Started 8/28/95, 1700
Date/Time Completed 8/28/95, 1405

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH <u>3/HS</u>			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15										
20	1	18-20		silt, dk grey, dense, dry		22			<u>110</u> <u>480</u>	<u>1223</u>
25	2	23-25	<u>.61</u> <u>20'</u>	silty SAND, light grey, 10-25% silt, fine sand, dense					<u>137</u> <u>447</u>	drilling is hard, like rock <u>1234</u>
30	3	28-30	<u>.4'</u> <u>2.0'</u>	silty SAND, tan, 10-25% silt, fine sand, dense					<u>131</u> <u>443</u>	<u>1245</u>
35	4	33-35	<u>.5'</u> <u>20'</u>	SAND					<u>4</u> <u>3</u>	<u>1255</u>
40				TOB- 35.0'						

Comments:

33'-35' sample (SEK 70) sent to lab. (BTEX & TPH) sample was bagged and iced prior to being put in jar. BHT grouted to surface.

Geologist Signature

Josh Kelly



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 70	947343
MTR CODE SITE NAME:	70973	Rincon Unit #44
SAMPLE DATE TIME (Hrs):	08-28-95	1255
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/29/95	
DATE OF BTEX EXT. ANAL.:	8/30/95	9/3/95
TYPE DESCRIPTION:	V6	Prerun sand & sand stone

Field Remarks:


RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	77.4	MG/KG			1.99	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	93.6	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

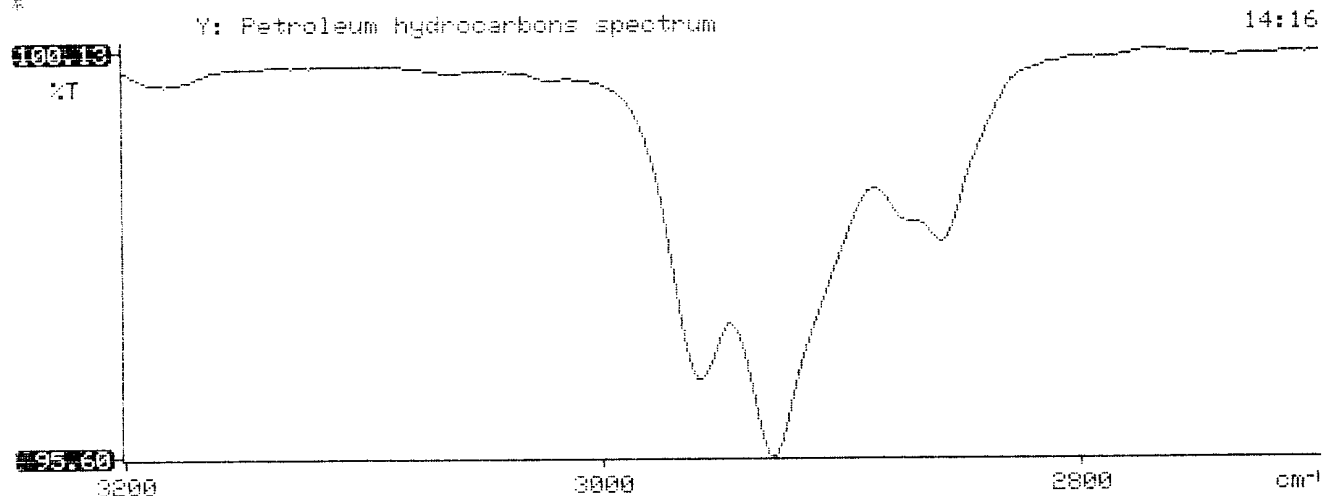
The Surrogate Recovery was at 93% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 9-7-95

Perkin-Elmer Model 1600 FT-IR
Analysis Report



BTEX SOIL SAMPLE WORKSHEET

File : 947343
Soil Mass (g) : 5.03
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 9/6/95
Multiplier (L/g) : 0.00099
DF (Analytical) : 200
DF (Report) : 0.19881

				Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.497
Toluene (ug/L) :	0.00	Toluene (mg/Kg):	0.000	0.497
Ethylbenzene (ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.497
p & m-xylene (ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	0.994
o-xylene (ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.497
		Total xylenes (mg/Kg):	0.000	1.491
		Total BTEX (mg/Kg):	0.000	

**EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\090395-1.006
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947343,5.03G,100U
Acquired : Sep 02, 1995 18:03:46
Printed : Sep 04, 1995 08:27:01
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.967	2149970	90.3383
TOLUENE	6.797	179860	-0.3888
ETHYLBENZENE	10.530	0	0.0000
M & P XYLENE	10.907	223019	-3.0649
O XYLENE	11.950	0	0.0000
BFB	13.450	32776296	93.3141

