

PHILIP

ENVIRONMENTAL

Environmental Services Corporation
800-326-2262

Marshall 'B' #1J 0-14-27N-66W
Meter Code 89039

Pit was excavated to 7 feet beneath ground surface. Headspace soil readings from excavation bottom were 267 parts per million. Soil analytical were as follows: benzene - < 0.5 mg/kg, total BTEX - 55 mg/kg, TPH - 3,090 mg/kg.

One soil boring was completed and no monitoring well installed. Groundwater was encountered at approximately 19.5 feet. No groundwater samples were collected. Soil boring analytical results were as follows; benzene - <0.025 mg/kg, total BTEX - <0.1 mg/kg, TPH - 25.5 mg/kg.

Pit was re-excavated to 11 feet beneath ground surface. Headspace soil readings were as follows: pit bottom composite- 893 ppm. Soil analytical from composite were as follows; benzene - < .5 mg/kg, total BTEX - <3 mg/kg, TPH - <10 mg/kg.

A RECON® survey was conducted and three soil gas samples were collected between the pit and Huerfanito Wash. The samples were collected and analyzed using a laboratory-grade gas chromatograph by Philip Environmental's RECON® System. No BTEX constituents were detected.

Dennis A. Rust
DEPUTY OIL & GAS INSPECTOR

FEB 6 1997

[Signature]



FIELD PIT SITE ASSESSMENT FORM

7

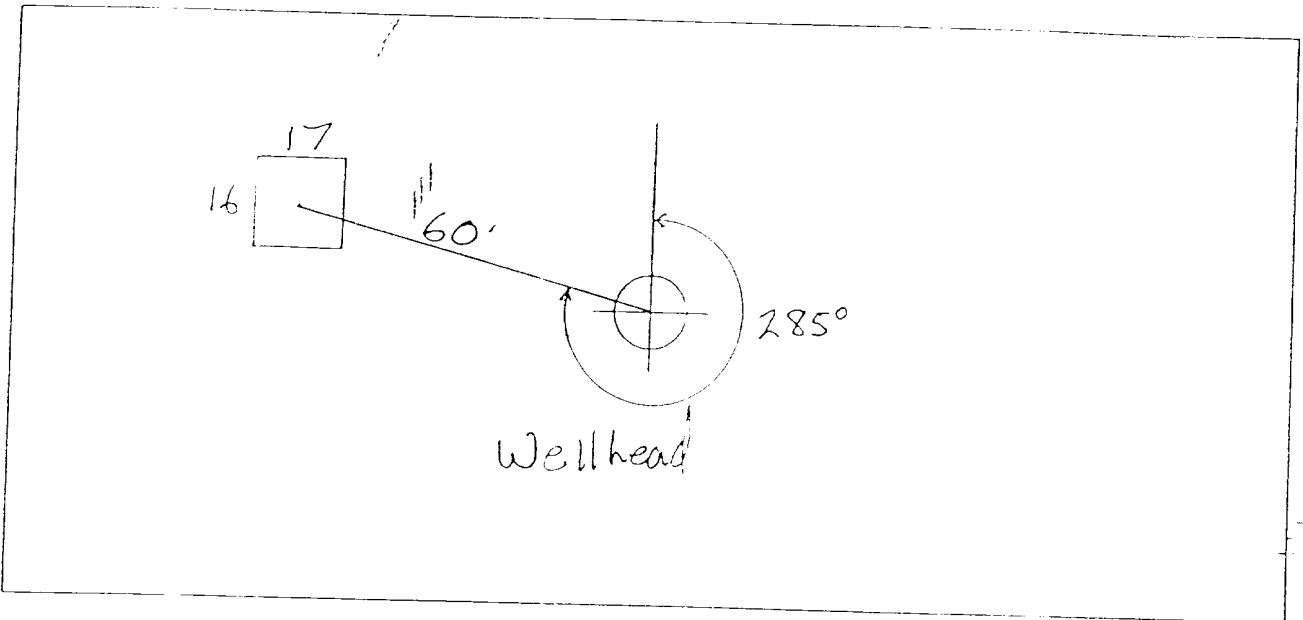
GENERAL	Meter: <u>89039</u> Location: <u>Marshall 'B' #1J</u> Operator #: <u>0834</u> Operator Name: <u>Breck</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>0</u> Section <u>14</u> Township: <u>27</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: ☒ Line Drip: _____ Other: _____ Site Assessment Date: <u>6-16-94</u> Area: <u>11</u> Run: <u>71</u>
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2) Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____ Depth to Groundwater Less Than 50 Feet (20 points) ☒ (1) 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☐ (3) 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? ☐ (1) YES (20 points) ☒ (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) ☒ (1) 200 Ft to 1000 Ft (10 points) ☐ (2) Greater Than 1000 Ft (0 points) ☐ (3) Name of Surface Water Body <u>Huerfano Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only) ☐ (2) > 100' TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS
REMARKS:	Remarks : <u>One pit on location. Dry</u> <u>Inside V.Z. on Redline & Topo</u>

89039

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 285 Footage from Wellhead 60
b) Length : 17 Width : 16 Depth : 3

ORIGINAL PIT LOCATION



Remarks :

Photos - 12-11

Bobtail

REMARKS

Completed By:

K. K. K.
Signature

6-16-94

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	
Meter: <u>89039</u> Location: <u>Marshall B #15</u>	
Coordinates: Letter: <u>0</u> Section <u>14</u> Township: <u>27</u> Range: <u>9</u>	
Or Latitude _____ Longitude _____	
Date Started : <u>8/19/94</u> Run: <u>11</u> <u>71</u>	
FIELD OBSERVATIONS	
Sample Number(s): <u>KD 229</u>	
Sample Depth: <u>7'</u> Feet	
Final PID Reading <u>267 ppm</u> PID Reading Depth <u>7'</u> Feet	
Yes No	
Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet	
CLOSURE	
Remediation Method :	
Excavation ☒ Approx. Cubic Yards <u>30</u>	
Onsite Bioremediation ☐	
Backfill Pit Without Excavation ☐	
Soil Disposition:	
Envirotech ☒ Tierra ☐	
Other Facility ☐ Name: _____	
Pit Closure Date: <u>8/19/94</u> Pit Closed By: <u>BEI</u>	
REMARKS	
Remarks : <u>Excavated pit to 7', Hit Sandstone at this</u> <u>Depth, Took PID Sample, Closed pit</u>	
Signature of Specialist: <u>Henry Dan</u>	



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD229	945982
MTR CODE SITE NAME:	89039	Marshall B-1J
SAMPLE DATE TIME (Hrs):	08/19/94	1335
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	08/24/94	08/24/94
DATE OF BTEX EXT. ANAL.:	08/25/94	08/26/94
TYPE DESCRIPTION:	VC	Light brown coarse sand

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	20			
TOLUENE	24	MG/KG	20			
ETHYL BENZENE	1.8	MG/KG	20			
TOTAL XYLENES	29	MG/KG	20			
TOTAL BTEX	55	MG/KG				
TPH (418.1)	3090	MG/KG			2.13	28
HEADSPACE PID	267	PPM				
PERCENT SOLIDS	96.7	%				

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

The Surrogate Recovery was at 66 % for this sample All QA/QC was acceptable.

Narrative:

/ performed analyses.

DF = Dilution Factor Used

Approved By:

Date:

7/18/94

Page 55 of 55FM-08-0565A (Rev. 03-94)

Phase II Soil Boring

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Albuquerque, New Mexico 87401

Phone (505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 1 of 1

Project Name EPNG Pits

Project Number 14509 Phase 6000.77

Project Location Marshall 'B' #17 89039

Elevation

Borehole Location T27, R9, S14, Ø

GWL Depth

Logged By Jeff W. Kindley

Drilled By M. Donahue

Date/Time Started 03/14/95 1600

Date/Time Completed 03/14/95 1715

Well Logged By Jeff W. Kindley

Personnel On-Site

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	6H	S/MS	
0				BackFill material to 7'						
5										
10										
15	1	13-15'	1.0 2.0	SAND, black, medium grained, loose, dry				100 122		1624
20	2	18-20'	0.6 2.0	CLAY, dark gray, very stiff, moist				0%		1630
25				Boring terminated at 20'						♦ water on rods at 19.5'
30										
35										
40										

Comments:

Sample collected at 18' and submitted to Laboratory For analysis of
BTEX and TPH. BH was grouted to surface

Geologist Signature

Jeff W. Kindley



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK12	947228
MTR CODE SITE NAME:	89039	Marshall B-1J
SAMPLE DATE TIME (Hrs):	08/14/95	1630
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	08/15/95	08/15/95
DATE OF BTEX EXT. ANAL.:	08/19/95	08/19/95
TYPE DESCRIPTION:	VG	Dark gray clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	25.5	MG/KG			2.05	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	83.4	%				

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

The Surrogate Recovery was at 109 % for this sample All QA/QC was acceptable.
Narrative:

A performed analyses.

DF = Dilution Factor Used

Approved By:

Date:

7/18/95

Page 1 of 1REQUESTED TURNAROUND TIME:

DATE RECEIVED

CARRIER CO.

SAMPLE RECEIPT REMARKS

RESULTS & INVOICES TO:

**FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499**

505-599-2144

FAX: 505-599-2261

Phase III Excavation

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL

Meter: 89039 Location: MARSHALL "B" #13

Coordinates: Letter: D Section 14 Township: 27 Range: 09

Or Latitude _____ Longitude _____

Date Started : 11-13-95 Area: 11 Run: 71

OBSERVATIONS

Sample Number(s): NS130

Sample Depth: 11 Feet

Final PID Reading 893 PID Reading Depth 11 Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

Final Dimensions: Length 28' Width 24' Depth 11

FILE

CLOSURE

Remediation Method :

Excavation

☒ (1) Approx. Cubic Yards 120 LT 11/7/95

Onsite Bioremediation

☐ (2)

Backfill Pit Without Excavation

☐ (3)

Overburden Cubic Yards 30 LT 11/7/95

Soil Disposition:

Envirotech

☒ (1)

☐ (3)

Tierra

Other Facility

☐ (2)

Name: _____

Pit Closure Date: 11-14-95

Pit Closed By: Philip

APPROVED CLOSER BY: ALTON JAMES (E.P.N.G.)

REMARKS

Remarks : EXCAVATED PIT TO 28X24X11 Ht SAND STONE C. 7'

PID READINGS: (W-11.3)(S-9.9)(E-1.2)(W-1.1) (FINAL COMPOSITE 893 ppm)

EXCAVATED THROUGH SANDSTONE APPROX 3' CAN NOT EXCAVATE ANY FARTHER.

TREATED BOTTOM OF PIT WITH 50lb. of FERTILIZER.

Signature of Specialist: Nicholas Schmalzer



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS130	947774
MTR CODE SITE NAME:	89039	Marshall B-1J
SAMPLE DATE TIME (Hrs):	11/13/95	0920
PROJECT:	Phase III Excavation	
DATE OF TPH EXT. ANAL.:	11/15/95	11/15/95
DATE OF BTEX EXT. ANAL.:	11/15/95	11/15/95
TYPE DESCRIPTION:	VG	Dark brown sand & clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (418.1)	<10	MG/KG			2.05	28
HEADSPACE PID	893	PPM				
PERCENT SOLIDS	94.5	%				

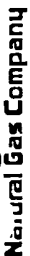
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 95 % for this sample All QA/QC was acceptable.
Narrative: _____

DF = Dilution Factor Used

Approved By: _____

Date: _____



CHAIN OF CUSTODY RECORD.

Page.

of .

[illegible]

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

RECON®

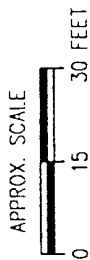
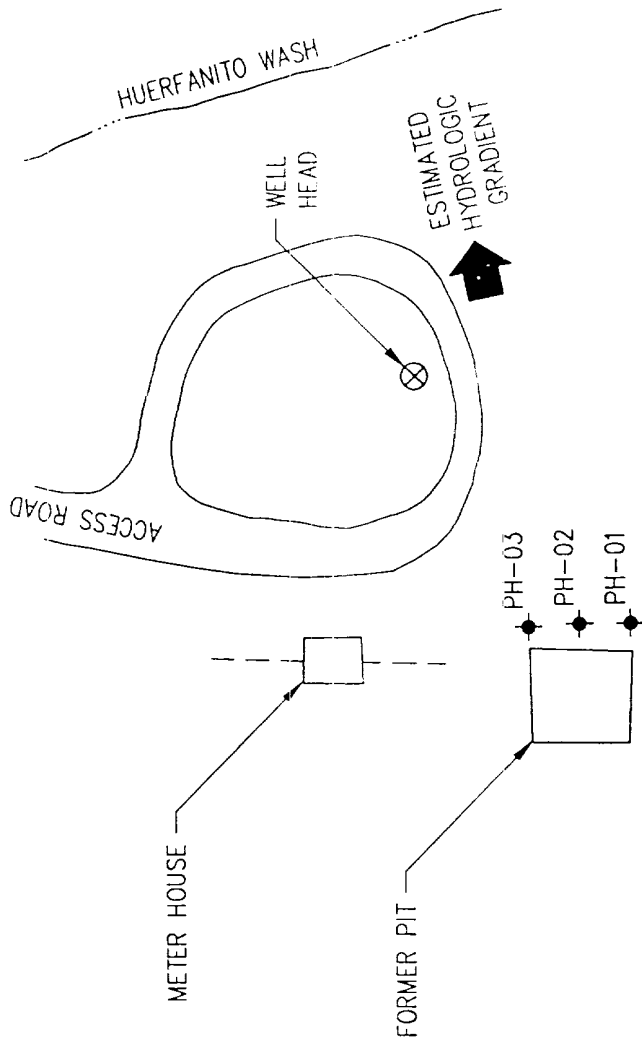


TITLE:
MARSHALL B-1J
METER 89039

SCALE	AS NOTED	DATE	PROJECT NO:	13947
DWN:	M R W	12/12/95	EPNG-RECON PITS	
DES:				
CHKD:	K.B.G.	12/15/95		
APPD:				

REV: 0
FIGURE 33

T27 R 9 SEC 14 UNIT 0



EXPLANATION

- PH-02 APPROXIMATE PROBE HOLE LOCATION AND NUMBER
- WASH ABOVEGROUND PIPING

PHILIP

RECON SAMPLE ANALYSIS

DATA SUMMARY TABLE

Project: 13947

Sample I.D.	Probe Hole Number	Depth (feet)	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	m+p-Xylene (ug/L)	o-Xylene (ug/L)	Comments
LINDRITHB24-02	PH-02	21-27	7	2	ND(1)	<1	ND(1)	Groundwater
LINDRITHB24-03	PH-03	21-27	34	7	50	194	72	Groundwater
LINDRITHB24-03-D	PH-03	21-27	34	10	52	202	102	QC - Duplicate
LINDRITHB24-03-MS	PH-03	21-27	169	2,598	2,945	3,643	3,008	QC - Matrix Spike
Blank-95	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
QCRT-31	N/A	N/A	9	545	588	579	600	QC - Retention Times
Blank-96	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
STD-1206	N/A	N/A	12	705	705	706	707	Calibration Standard
Blank-97	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
Blank-98	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Probe Rod Blank
SJU28679PM-01	PH-01	30-36	3	4	<1	2	1	Groundwater
SJU28679PM-02	PH-02	30-36	ND(1)	<1	ND(1)	ND(1)	ND(1)	Groundwater
SJU28679PM-03	PH-03	30-36	73	152	28	220	77	Groundwater
SJU28679PM-04	PH-04	30-36	2,460	10,168	1,592	12,140	3,552	Groundwater
SJU28679PM-05	PH-05	30-36	6,349	14,827	2,505	19,685	7,288	Groundwater
SJU28679PM-06	PH-06	30-36	4,329	11,327	1,611	11,542	3,577	Groundwater
SJU28679PM-07	PH-07	30-36	ND(1)	6	ND(1)	ND(1)	ND(1)	Groundwater
SJU28679PM-06-D	PH-06	30-36	3,852	11,043	1,501	10,957	3,377	QC - Duplicate
SJU28679PM-06-MS	PH-06	30-36	4,364	14,581	4,888	17,736	7,787	QC - Matrix Spike
Blank-99	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
QCRT-32	N/A	N/A	9	499	466	446	515	QC - Retention Times
Blank-100	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
STD-1207	N/A	N/A	12	705	705	706	707	Calibration Standard
Blank-101	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
Blank-102	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Probe Rod Blank
MB1J-01	PH-01	18-20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
MB1J-02	PH-02	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
MB1J-03	PH-03	8	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas

D = duplicate analysis.

QC = quality control.

ug/L = micrograms of compound detected per liter of soil or groundwater vapor analyzed.

ND = not detected at the lower quantifiable limit indicated in parenthesis.

N/A = not applicable.

MS = matrix spike.

QA Review:

Paul G. Anderson

Review Date:

1-31-96 4/2/14/46