

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

FIELD PIT SITE ASSESSMENT FORM

MAR 27 1998

Meter: 93296

Location: GALLEGOS CANYON UNIT #188E

Operator #: 0203 Operator Name: AMOCO P/L District: KURTZ

Coordinates: Letter: B Section 30 Township: 29 Range: 12

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____

Site Visit Date: 4.5.94 Run: 02 33

NMOCD Zone:
(From NMOCD
Maps)

Inside
Vulnerable
Zone ☒
Outside ☐

Land Type: BLM ☐
State ☐
Fee ☒
Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒

50 Ft to 99 Ft (10 points) ☐

Greater Than 100 Ft (0 points) ☐

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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐

200 Ft to 1000 Ft (10 points) ☒

Greater Than 1000 Ft (0 points) ☐

Name of Surface Water Body SAN JUAN RIVER

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

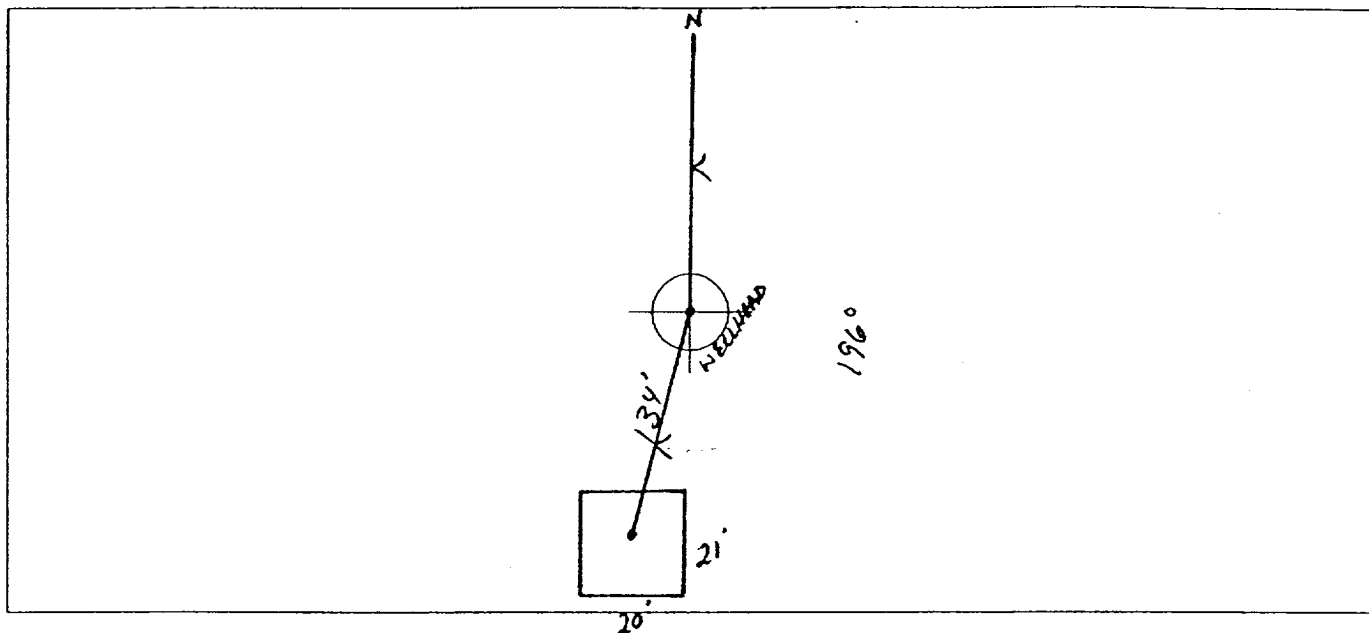
TOTAL HAZARD RANKING SCORE: 30 POINTS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS SOUTH OF HWY. 64, NEXT TO THE RIVER.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 196° Footage to Wellhead 134'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 21' Width : 20' Depth : 4'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 12:29 P.M.END DUMP

Completed By:

Robert Thompson
Signature

4.5.94
Date



Environmental Services Group
Southern Region

Gallegos Canyon Unit #188 E
Meter Code 93296

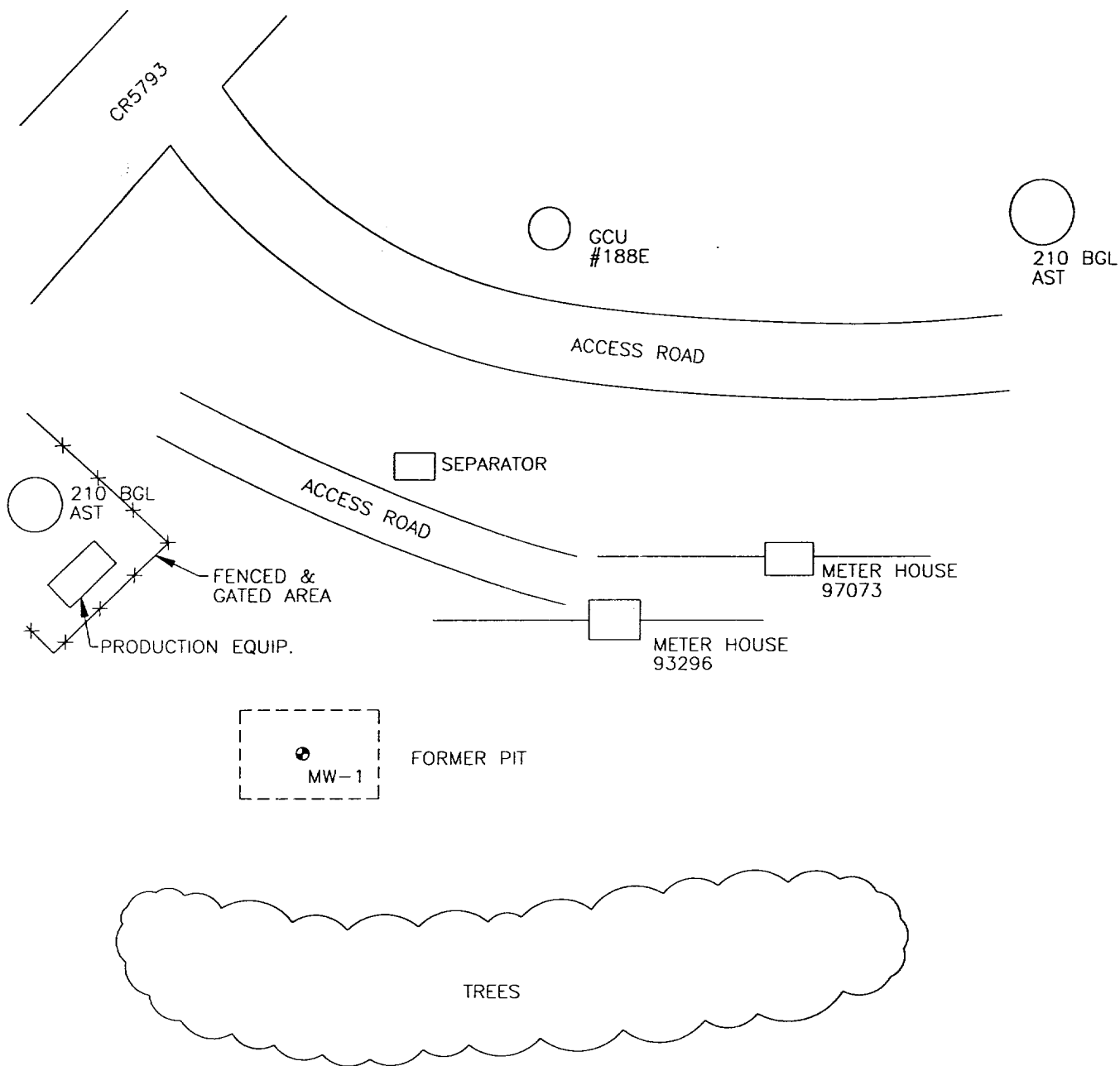
Pit was excavated to 4 feet beneath ground surface. The headspace soil reading from excavation bottom was 89 parts per million. Soil analytical were as follows; benzene - <0.03 mg/kg, total BTEX - 0.12 mg/kg, TPH - <10 mg/kg.

One soil boring was completed and a groundwater monitoring well was installed. No soil sample was collected due to encountering groundwater. Groundwater analytical results were as follows: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

This site is ready for closure based on the following:

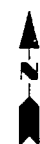
- Soil boring analytical were below standards.
- Monitoring well groundwater samples were below standards.





LEGEND

 **MW-1** APPROXIMATE WELL LOCATION AND NUMBER

NOT TO SCALE
 

COL. 175201-001



TITLE:
 GALLEGOS CANYON
 UNIT# 188E-93296

DWN:
 TMM
 CHKD:
 CC
 DATE:
 7/15/97

DES.:
 CC
 APPD:
 REV.:
 0

PROJECT NO.: 17520
 EPFS GW PITS

FIGURE 1

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>93296</u> Location: <u>Gallegos Canyon Unit #188E</u> Coordinates: Letter: <u>B</u> Section <u>30</u> Township: <u>29</u> Range: <u>12</u> Or Latitude _____ Longitude _____ Date Started : <u>4-27-94</u> Area: <u>02</u> Run: <u>33</u>
FIELD OBSERVATIONS	Sample Number(s): <u>VW34</u> Sample Depth: <u>4</u> Feet Final PID Reading <u>89</u> PID Reading Depth <u>4</u> Feet Yes No Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth <u>4'</u> Feet
CLOSURE	Remediation Method : Excavation ☒ (1) Approx. Cubic Yards <u>30</u> Onsite Bioremediation ☐ (2) Backfill Pit Without Excavation ☐ (3) Soil Disposition: Envirotech ☐ (1) ☒ (3) Tierra Other Facility ☐ (2) Name: _____ Pit Closure Date: <u>4-27-94</u> Pit Closed By: <u>BEI</u>
MARKS	Remarks : <u>Pit was pretty clean on top. 2' hit black soil. 4' hit groundwater. Pulled sample of soil PID-89 at foot bot. Pulled water sample. OGD gave permission to close hole. excavated 2' more to the North to get out of contamination. No line markers.</u>
	Signature of Specialist: <u>Vale Wilson</u>

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW34	945022
MTR CODE SITE NAME:	93296	Gallegos Canyon Unit #188E
SAMPLE DATE TIME (Hrs):	4/27/94	820
PROJECT:	Phase I Drilling Excavation	
DATE OF TPH EXT. ANAL.:	4/28/94	4/28/94
DATE OF BTEX EXT. ANAL.:	5/9/94	5/10/94
TYPE DESCRIPTION:	VC	Brown coarse sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	<0.03	MG/KG				
ETHYL BENZENE	0.04	MG/KG				
TOTAL XYLENES	0.08	MG/KG				
TOTAL BTEX	0.12	MG/KG				
TPH (418.1)	<10	MG/KG			2.06	28
HEADSPACE PID	89	PPM				
PERCENT SOLIDS	85.0	%				

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

The Surrogate Recovery was at 140 for this sample All QA/QC was acceptable.

Narrative:

ATI analyzed this sample. Surrogate recovery outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: _____

5/21/94

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTRACT LABORATORY P. O. NUMBER	
SAMPLES (Signature)		DATE		SAMPLE NUMBER		EPA 418.1		EPA 8020	
LAB ID	DATE	TIME	MATRIX	SAMPLE TYPE	TOTAL NUMBER OF CONTAINERS	TPH	BTEX	REMARKS	
5022	4/27/04	0820	Soil	VC	1	X	X	24	Wet soil
5023	4/27/04	1145	Soil	VC	1	X	X	30	
5024	4/27/04	1335	Soil	VC	1	X	X	31	
5025	4/27/04	1540	Soil	VC	1	X	X	32	
[REMAINDER OF TABLE IS DIAGONAL LINE]									
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
Valle Wilson		340		Don T. Pope		4/28/04 0948		M. J. J. J.	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
REQUESTED TURNAROUND TIME:				SAMPLE RECEIPT REMARKS				RESULTS & INVOICES TO:	
☐ ROUTINE ☐ RUSH								FIELD SERVICES LABORATORY	
CARRIER CO.								EL PASO NATURAL GAS COMPANY	
								P. O. BOX 4990	
								FARMINGTON, NEW MEXICO 87499	
BILL NO.:				CHARGE CODE				FAX: 505-599-2261	

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH- 2
Well # 1
Page 1 of 1

Project Name EPFS GW PITS
Project Number 17520 Phase 600277
Project Location GCU #188E- 93296

Elevation _____
Borehole Location T29 R 12 S 30 - Ltr 'B'
GWL Depth 6' BGS
Logged By D CESARK
Drilled By K PADILLA
Date/Time Started 3/26/97 - 0830
Date/Time Completed 11 - 1000

Well Logged By D CESARK
Personnel On-Site D CHARLEY, C MAZ
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	BH	S	
0				BACKFILL						
5				TO 4'						
10				(HIGHLY CONTAM. BLACK SOIL)						
15				GW @ 6' BGS						
20				TD = 13'						
25										
30										
35										
40										

Comments:

ENCOUNTERED GW @ 6' BGS. OVER-DRILLED TO 13' BGS + SET GW MW-1.
NO SAMPLES COLLECTED - PLEASE REFER MON. WELL INSTALL. RECORD.

Geologist Signature



MONITORING WELL INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # 2
Well # 1
Page 1 of 1

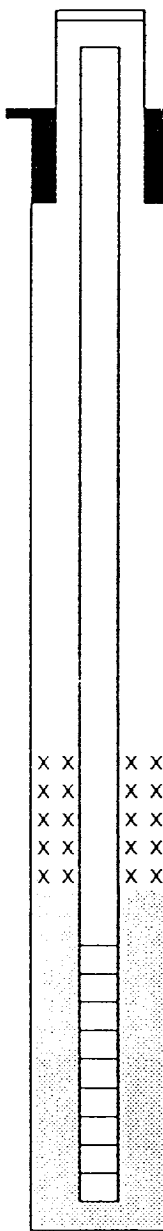
Project Name EPFS GW PITS
Project Number 17520 Phase 6005.77
Site Location ECU #188E

Elevation _____
Well Location T29N-R12W-S30-LB
GWL Depth 6' BGS
Installed By K PADILLA

On-Site Geologist D CESARK
Personnel On-Site D CHARLEY, C MAIZ
Contractors On-Site _____
Client Personnel On-Site _____

Date/Time Started 3/26/97-1000
Date/Time Completed 11 - 1100

Depths in Reference to Ground Surface		
Item	Material	Depth (feet)
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		N/A
Bottom of Permanent Borehole Casing		N/A
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser	SCH 40 PVC	+3'
Bottom of Well Riser	"	-2'
Top of Well Screen	6" ID SLOT	-2'
Bottom of Well Screen	"	-12'
Top of Peltonite Seal	ENVIROPLUG	-0.5'
Bottom of Peltonite Seal	"	-1.5'
Top of Gravel Pack	10-20 S. SAND	-1.5'
Bottom of Gravel Pack	"	-12'
Top of Natural Cave-In		-12'
Bottom of Natural Cave-In		-13'
Top of Groundwater		-6'
Total Depth of Borehole		-13'



Top of Protective Casing +3'

Top of Riser +3'

Ground Surface 0'

Top of Seal -0.5'

Top of Gravel Pack -1.5'

Top of Screen -2'

Bottom of Screen -12'

Bottom of Borehole -13'

Comments: _____

Geologist Signature

[Handwritten Signature]



~~Development~~
~~Purging~~

Well Number MM-1Page 7 of 7Project Name GW PITS

Project Manager C CHANCE

Project No. 17520

Client Company EPFS

Phase.Task No. 6003,77.

Site Name GCU A188E-93296

Site Address

Phase.Task No. 6003,77.

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 12

Initial Depth to Water (feet)

Height of Water Column in Well (feet) 8'

Diameter (inches): Well 4 Gravel Pack

Methods of Development

Bailer Pump

- ☐ Centrifugal
☐ Submersible
☐ Peristaltic
☐ Other _____
- ☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

Instruments

Serial No. (If applicable)

- ☒ pH Meter
- ☐ DO Monitor
- ☒ Conductivity Meter
- ☒ Temperature Meter
- ☐ Other _____

Water Disposal

Water Removal Data

[illegible]

Circle the date and time that the development criteria are met.

Comments
1st trailer was clean, muddy thereafter, little rust; no evidence of HC, did not trail well day.

Developer's Signature(s)

Date 4/3/97

Reviewer _____ Date _____



Water Sampling Data

Location No. MW-1

Serial No. WSD- _____

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 4/3/97Project Name EPFS GW PITS Project No. 17520Project Manager C CHANCE Phase Task No. 6003.77Site Name GCU #188E - 93296

Sampling Specifications

Requested Sampling

Depth Interval (feet) _____

Requested Wait Following

Development/Purging (hours) _____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) _____

Initial Water Depth (feet) _____

Nonaqueous Liquids Present (Describe) _____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/ cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (feet)	Bail	Final Water Depth (feet)	

Sample Containers

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); - = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
EPA 8020 BTEX	DRC27	VV	40		X	Y	X		MW-1
"	DRC28	"	"		X		X		TRIP BLANK

Filter Type _____ Chain-of-Custody Form Number _____

Comments * PLEASE REFER TO WELL DEVP. & PURGING DATA FORMSignature [Signature] Date 4/3/97 Reviewer _____ Date _____



EL PASO FIELD SERVICES



5-22-97

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	DRC27	970246
MTR CODE SITE NAME:	93296	GCU #188E
SAMPLE DATE TIME (Hrs):	4/3/97	1140
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL.:	4/4/97	4/4/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

The Surrogate Recovery was at 97.6 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:

John L. Ladd

Date:

4/8/97

970246,4/8/97

1005-5899-2144