

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

FIELD PIT SITE ASSESSMENT FORM

MAR 27 1998

GENERAL

Approval

Meter: 94984

Location: ANDERSON GAS COM A #1 P.C.

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

Coordinates: Letter: C Section 28 Township: 29 Range: 10

Or Latitude _____ Longitude _____

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

Site Visit Date: 4.12.94 Run: 10 42

SITE ASSESSMENT

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: 40 POINTS

REMARKS

Remarks : THREE PITS ON LOCATION. WILL CLOSE TWO OF THEM.
PITS ARE DRY. LOCATION HAS A CH AND PC SIDE. IT IS LOCATED
NEXT TO THE SAN JUAN RIVER.



Anderson GC A #1
Meter Code 94984

Pit was excavated to 8 feet beneath ground surface. The headspace soil reading from excavation bottom was 428 parts per million. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - 17.2 mg/kg, TPH - 445 mg/kg.

A Geoprobe investigation was completed and groundwater samples were collected. Groundwater analytical results were as follows:

PH-4: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - 21.6 ppb, total xylenes - 165 ppb.

PH -5: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - 7.5 ppb, total xylenes - 21.3 ppb.

PH -6: benzene - <1 ppb, toluene - 1.25 ppb, ethyl benzene - <1 ppb, total xylenes - 1.4 ppb.

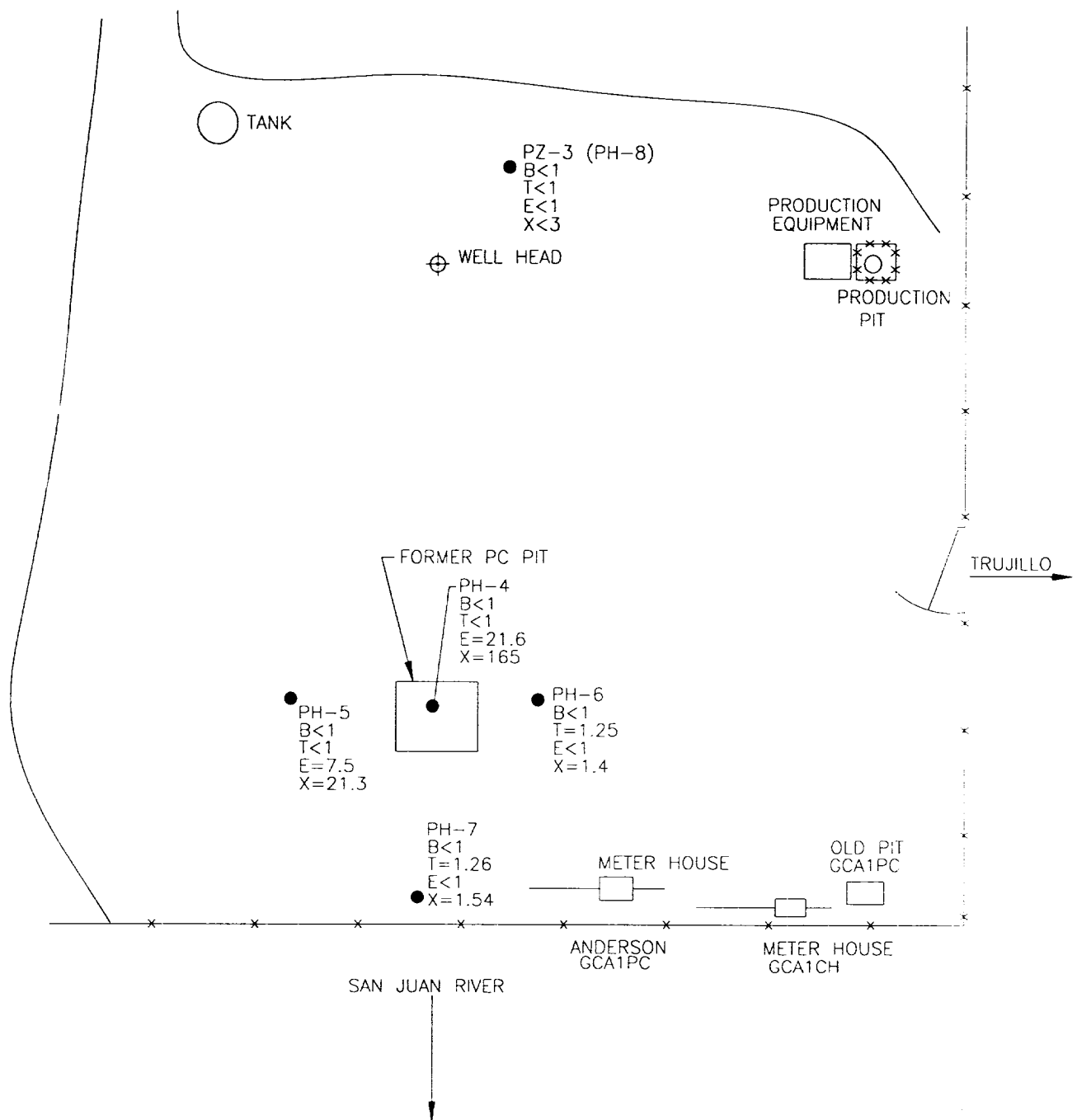
PH-7: benzene - <1 ppb, toluene - 1.26 ppb, ethyl benzene - <1 ppb, total xylenes - 1.54 ppb.

PH -8: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

This site is ready for closure based on the following:

- Excavation soil samples were below standards on benzene and total BTEX.
- Geoprobe groundwater samples were below standards up and downgradient of the former pit, and from the center of the former pit.





COL 13947E-002

PHILIP
ENVIRONMENTAL

TITLE:
Anderson GC A #1 P.C.

OWN:	DES.:
TMM	TMM
CHKD:	APPD:
CC	CC
DATE:	REV.:
7/16/97	0

PROJECT NO.: 13947
EPNG
SAN JUAN COUNTY, MN

Figure 1

FIELD PIT REMEDIATION/CLOSURE FC. 1

GENERAL	Meter: <u>94984</u> Location: <u>ANDERSON GAS COM A#1 P.C.</u> Coordinates: Letter: <u>C</u> Section <u>28</u> Township: <u>29</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Date Started : <u>4/29/94</u> Area: <u>10</u> Run: <u>42</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP. 8</u> Sample Depth: <u>8'</u> Feet Final PID Reading <u>428</u> PID Reading Depth <u>8'</u> Feet Yes No Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth <u>8'</u> Feet
CLOSURE	Remediation Method : Excavation ☒ (1) Approx. Cubic Yards <u>35</u> Onsite Bioremediation ☐ (2) Backfill Pit Without Excavation ☐ (3) Soil Disposition: Envirotech ☐ (1) ☒ (3) Tierra Other Facility ☐ (2) Name: _____ Pit Closure Date: <u>4/29/94</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>SOME LINE MARKERS ON LOCATION W/ ground water</u> <u>9' Take sample. waiting FOR phone call TO close up Location ALTON JAMES</u> <u>making call. ALTON JAMES get a hold OF Bill OLSON OGD. OKayed closed</u> <u>Pit.</u>
	Signature of Specialist: <u>Kelly Padilla</u>

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP8	945048
MTR CODE SITE NAME:	94984	Anderson Gas Com A#1
SAMPLE DATE TIME (Hrs):	4/29/94	1300
PROJECT:	Phase I Drilling- Excavation	
DATE OF TPH EXT. ANAL.:	5/2/94	5/2/94
DATE OF BTEX EXT. ANAL.:	5/5/94	5/9/94
TYPE DESCRIPTION:	VC	Coarse brown sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	20	D		
TOLUENE	<0.50	MG/KG	20	D		
ETHYL BENZENE	1.20	MG/KG	20	D		
TOTAL XYLENES	16.0	MG/KG	20	D		
TOTAL BTEX	17.2	MG/KG				
TPH (418.1)	445	MG/KG			2.26	28
HEADSPACE PID	428	PPM				
PERCENT SOLIDS	78.1	%				

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

The Surrogate Recovery was at 45.0 for this sample All QA/QC was acceptable.

The "D" qualifier indicates reported result for this analyte is calculated based on a secondary dilution factor.

1 Sample analyzed by ATI.

Surrogate recovery was outside ATI limit due to matrix interference

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: _____

5/21/94



Natural Gas Company

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER		PROJECT NAME		CONTACT LABORATORY P. O. NUMBER																		
24324		Pit Closure Project # 24324																				
SAMPLERS: (Signature)		DATE																				
Kelly Pachella		4/24/99																				
LABID	DATE	MATRIX	SAMPLE NUMBER	REMARKS																		
74 5047	4/24/99 1015	SOIL	KP 17	1	YK	TPH EPA 418.1	BTX EPA 8020	REQUESTED ANALYSIS	500 ft	5	6	7	8	610 at 8'								
74 5048	4/24/99 1300	SOIL	KP 18	1	YK	TPH EPA 418.1	BTX EPA 8020	REQUESTED ANALYSIS	500 ft	5	6	7	8	610 at 8'								
74 5049	4/24/99 1326	SOIL	KP 19	1	YK	TPH EPA 418.1	BTX EPA 8020	REQUESTED ANALYSIS	500 ft	5	6	7	8	610 at 6'								
74 5050	4/24/99 1445	SOIL	KP 10	1	YG	TPH EPA 418.1	BTX EPA 8020	REQUESTED ANALYSIS	500 ft	5	6	7	8	610 at 6'								
RELINQUISHED BY: (Signature) Kelly Pachella															DATE/TIME	330	4/24/99 1610	RECEIVED BY: (Signature) Scott T. Price	DATE/TIME	300F	5/2/99 1005	RECEIVED BY: (Signature) [Signature]
RELINQUISHED BY: (Signature) Kelly Pachella															DATE/TIME	330	4/24/99 1610	RECEIVED BY: (Signature) Scott T. Price	DATE/TIME	300F	5/2/99 1005	RECEIVED BY: (Signature) [Signature]
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH															SAMPLE RECEIPT REMARKS							
CARRIER CO															RESULTS & INVOICES TO							
BILL NO.:															FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499							
															FAX: 505-599-2261							

SITE ACTIVITIES

21-Feb-97

Meter/Line #: 94984

Location/Line #: Anderson Gas Com A #1 PC

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 10/21/96

Activity: Geoprobe

Comments: Installed 3 piezos on PC and CH well location. PZ1 just south of CH pit.
PZ2 in center of PC pit. Also completed 6 probe holes.

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID CMC215	Lab ID 947937
MTR CODE SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE TIME (Hrs):	10/21/96	1350
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/23/96	10/23/96
TYPE DESCRIPTION:	PH4 Grab	PH4 water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			OF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	21.6	PPB				
TOTAL XYLENES	165	PPB				
TOTAL BTEX	187	PPB				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 93.8 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John Lard

Date: 10/29/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID CMC216	Lab ID 947938
MTR CODE SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE TIME (Hrs):	10/21/96	1415
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/23/96	10/23/96
TYPE DESCRIPTION:	PAS Grab	PH5 water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	7.50	PPB				
TOTAL XYLENES	21.3	PPB				
TOTAL BTEX	28.8	PPB				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 89.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Larch

Date: 10/29/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID CMC217	Lab ID 947939
MTR CODE SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE TIME (Hrs):	10/21/96	1435
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/23/96	10/23/96
TYPE DESCRIPTION:	DHL Grab	PHS Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	1.25	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	1.40	PPB				
TOTAL BTEX	2.65	PPB				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 93.1 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Tard

Date: 10/29/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID CMC218	Lab ID 947940
MTR CODE SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE TIME (Hrs):	10/21/96	1650
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL:	10/23/96	10/23/96
TYPE DESCRIPTION:	PH7 Grab	PH7 water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	O		
BENZENE	<1	PPB				
TOLUENE	1.26	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	1.54	PPB				
TOTAL BTEX	2.80	PPB				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 92.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:

John Tarch

Date:

10/29/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC219	947941
MTR CODE SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE TIME (Hrs):	10/21/96	1620
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/23/96	10/23/96
TYPE DESCRIPTION:	PH8 Grab	PH8 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				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 92.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

proved By:

John Sardi

Date:

10/21/96

