



Environmental Services Group
Southern Region

Krause WN Federal Well No. 1E C -32-28N-11W
Meter Code 93262

Pit was excavated to 12 feet beneath ground surface. Headspace soil readings from excavation bottom were 300 parts per million. Soil analytical were as follows; benzene 0.5 mg/kg, total BTEX - 194 mg/kg, TPH - 2,390 mg/kg.

One soil boring was completed and no monitoring well installed. Groundwater was encountered at 19 feet. No groundwater samples were collected. Soil boring analytical results were as follows; benzene - 4.3 mg/kg, total BTEX - 166 mg/kg, TPH - 296 mg/kg.

Pit was re-excavated to 19 feet beneath ground surface. Headspace soil readings were as follows: pit bottom composite- 4 ppm. Soil analytical from composite were as follows; benzene - < .5 mg/kg, total BTEX - 3 mg/kg, TPH - <10 mg/kg.

Denny S. Faust
DEPUTY OIL & GAS INSPECTOR

FEB 06 97

Approved



FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93-267 Location: Krause WN Federal Well No 1E
 Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak
 Coordinates: Letter: C Section 32 Township: 28 Range: 11
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 9/13/94 Area: 01 Run: 82

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

Land Type:

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☒ (1)

☐ (2)

☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☒ (1)

☐ (2)

☐ (3)

Name of Surface Water Body Horn Canyon

(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: 40 POINTS

Remarks : Redline Book - Inside Vulnerable Zone Type - Inside
Three pits, location drippit is dry. Will close one pit.

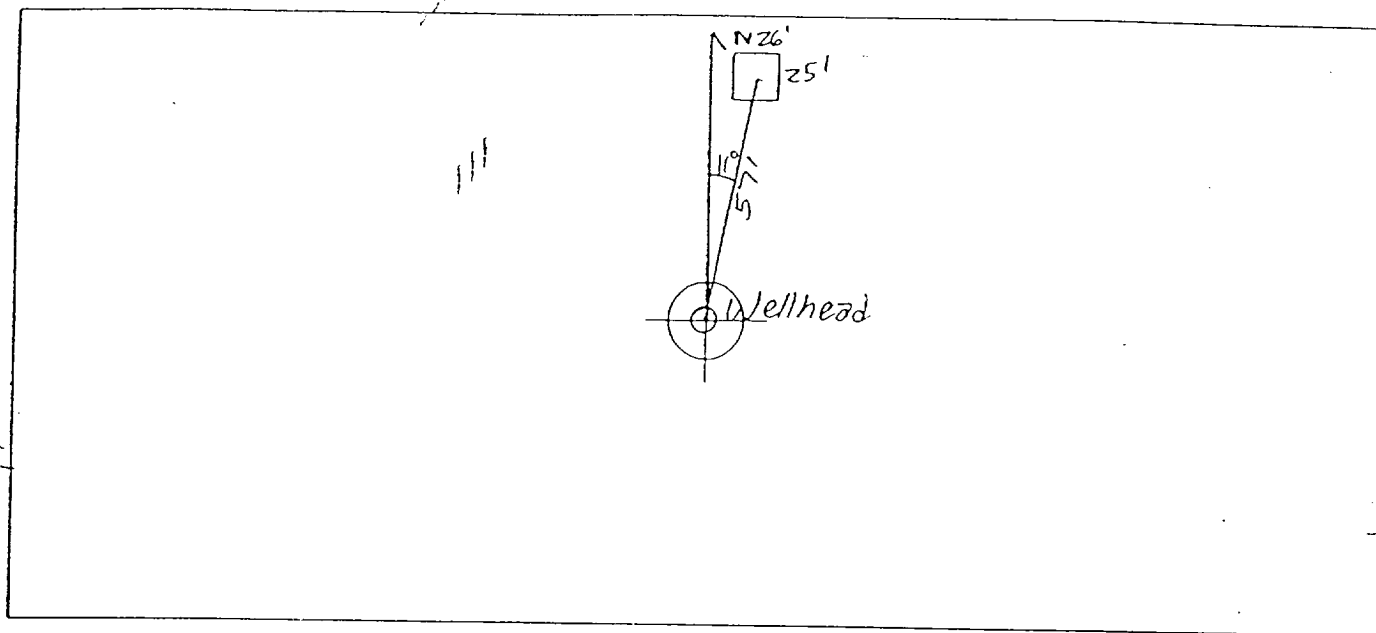
REMARKS

95262

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 11° Footage from Wellhead 57'
 b) Length : 26' Width : 25' Depth : 5'

ORIGINAL PIT LOCATION



Remarks :

Pictures @ 1059, Roll 7

Dump Truck

REMARKS

Completed By:

Garth Kelly

9/13/94

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>93262</u> Location: <u>Krause W N Federal Well No. 1 E</u> Coordinates: Letter: <u>C</u> Section <u>32</u> Township: <u>28</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Date Started : <u>9-22-94</u> Run: <u>01</u> <u>82</u>
ELD OBSERVATIONS	Sample Number(s): <u>KP 248</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>300</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>70</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: Envirotech ☒ Tierra ☐ Other Facility ☐ Name: _____ Pit Closure Date: <u>9-22-94</u> Pit Closed By: <u>B.E.I.</u>
REMARKS	Remarks : <u>Some line markers. Started Remediation to 12'</u> <u>Soil light gray with a smell. At 12' soil still the same. Real</u> <u>Sandy.</u>
Signature of Specialist: <u>Kelly Beall</u>	



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP248	946194
MTR CODE SITE NAME:	93262	Krause WN Fed #1E
SAMPLE DATE TIME (Hrs):	09/22/94	1645
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	09/27/94	09/27/94
DATE OF BTEX EXT. ANAL.:	09/29/94	09/29/94
TYPE DESCRIPTION:	VC	Gray course sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.50	MG/KG	20			
TOLUENE	6.0	MG/KG	20			
ETHYL BENZENE	17	MG/KG	20			
TOTAL XYLENES	170	MG/KG	20			
TOTAL BTEX	194	MG/KG				
TPH (418.1)	2390	MG/KG			2.04	28
HEADSPACE PID	300	PPM				
PERCENT SOLIDS	88.4	%				

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

The Surrogate Recovery was at 76 % for this sample All QA/QC was acceptable.

Narrative:

perforemd analyses.

DF = Dilution Factor Used

Approved By:

Date:

7/18/01



CHAIN OF CUSTODY RECORD

[illegible]

Phase II Soil Boring

RECORD OF SUBSURFACE EXPLORATION

WILP ENVIRONMENTAL

J 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 6000.77

Project Location Krause W.N. Federal Well No 1E

93-262

Well Logged By Jeff W. Kindley

Personnel On-Site G. Sudduth, H. Kelly, O. Roberts

Contractors On-Site _____

Client Personnel On-Site _____

Elevation _____

Borehole Location T28, R11, S32, C

GWL Depth _____

Logged By Jeff W. Kindley

Drilled By G. Sudduth

Date/Time Started 08/30/95 1410

Date/Time Completed 08/30/95 1515

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/H/S	
0				Backfill material to 12'						
5										
10										
15										
20	1	18-20	2.0 2.0	sw, DK GR/BK medium-grained sand, moist, Very loose, hydrocarbon odor. water encountered at 19' Boring terminated at 20'				21/ 65	1425	1 Blow per Foot
25										
30										
35										
40										

Comments:

Sample collected from 18 to 19 feet and submitted to Laboratory (JWK 57) for analysis of ATEX and TPH. Encountered water at 19 feet and terminated boring. BH grouted to the surface.



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK57	947370
MTR CODE SITE NAME:	93262	Krause WN Fed #1E
SAMPLE DATE TIME (Hrs):	08/30/95	1425
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	08/31/95	09/11/95
DATE OF BTEX EXT. ANAL.:	09/01/95	09/10/95
TYPE DESCRIPTION:	VG	Dark gray sand & clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	4.3	MG/KG	4	D		
TOLUENE	3.3	MG/KG	4	D		
ETHYL BENZENE	15.6	MG/KG	4	D		
TOTAL XYLENES	143	MG/KG	4	D		
TOTAL BTEX	166	MG/KG	4	D		
TPH (418.1)	296	MG/KG			2.23	28
HEADSPACE PID	65	PPM				
PERCENT SOLIDS	89.3	%				

-- TPH is by EPA Method 413.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 92 % for this sample All QA/QC was acceptable.
Narrative: _____

DF = Dilution Factor Used

Approved By: _____

Date: _____

7/10/01



El Paso
Natural Gas Company

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER 14509		PROJECT NAME Pit Closure Project # 24324		DATE August 30, 1995		SAMPLE NUMBER					
LAB ID		DATE	TIME	MATRIX	SAMPLE NUMBER						
LAB ID		DATE	TIME	MATRIX	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	PID HS # (ppm)	SEQ #	REMARKS
08/30/95		1159		Soil	1	V6	✓	✓	26	50	Lat GA-21 LINE DRIP Y-1 58 to 60 feet
08/30/95		1425		Soil	1	V6	✓	✓	65	51	Krause WIN Federal well No 1E 18 to 19' 93-262
<i>RECEIVED 8/31/95</i>											
RECEIVED BY: (Signature) <i>John Kinley</i>		DATE/TIME 08/30/95 1630	340F	RECEIVED BY: (Signature) <i>John Kinley</i>	RELINQUISHED BY: (Signature) <i>John Kinley</i>	DATE/TIME 8/31/95 9:15	RECEIVED BY: (Signature)				
RECEIVED BY: (Signature) <i>John Kinley</i>		DATE/TIME		RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)				
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH		SAMPLE RECEIPT REMARKS		RESULTS & INVOICES TO:		FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261					
CARRIER CO.		CHARGE CODE		505-599-2144							
BILL NO.:											

Phase III Excavation

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

Meter: 93262 Location: Krause W N Fed Well #1 E

Coordinates: Letter: C Section 32 Township: 28 Range: 11

Or Latitude _____ Longitude _____

Date Started : 11-21-95 Area: 01 Run: 82

Sample Number(s): JP88

Sample Depth: 19 Feet

Final PID Reading 004 ppm PID Reading Depth 19 Feet
Yes No

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

Final Dimensions: Length 37 Width 30 Depth 19

Remediation Method :

Excavation

☒ (1) Approx. Cubic Yards 570 LT 11/28/95
770 LT 11/22/95

Onsite Bioremediation

☐ (2)

Backfill Pit Without Excavation

☐ (3)

Overburden Cubic Yards 120 LT 11/22/95

Soil Disposition:

Envirotech

☒ (1)

☐ (3) Tierra

Other Facility

☐ (2)

Name: _____

Pit Closure Date: 11-21-95

Pit Closed By: Philip Env.

Remarks : Dug to 19 Ft took pid readings were N wall 2 ppm
S wall 01 ppm E wall 01 ppm W wall 02 ppm Bot 4 ppm
comp sample 04 ppm used 50 lbs Fert+Lizer
Ground was wet but did not encounter ground water

Signature of Specialist: James J. Penrose



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP88	947806
MTR CODE SITE NAME:	93262	Krause WN Fed #1E
SAMPLE DATE TIME (Hrs):	11/21/95	1430
PROJECT:	Phase II Excavation	
DATE OF TPH EXT. ANAL.:	11/27/95	11/29/95
DATE OF BTEX EXT. ANAL.:	11/28/95	11/29/95
TYPE DESCRIPTION:	VC	Light brown 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			2.09	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	82.2	%				

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

The Surrogate Recovery was at 97 % for this sample All QA/QC was acceptable.

Narrative: _____

DF = Dilution Factor Used

Approved By: _____

Date: _____

7/18/95



White

CHAIN OF CUSTODY RECORD

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTACT LABORATORY P. O. NUMBER	
SAMPLERS: (Signature)		DATE		SAMPLE NUMBER		DATE		REMARKS	
LAB ID	DATE	TIME	MATRIX	SAMPLE TYPE	TOTAL NUMBER OF CONTAINERS	TPH EPA 418.1	BTEX EPA 8020		
11-21-95	11:30	1430	SOIL	1 K	1	X	X	Arouse WIL Fall #1 E 93262	
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
James P. Fournier		11-21-95 11:30		Kelly Small		11/22/95 10:35			
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
REQUESTED TURNAROUND TIME:									
☐ ROUTINE ☐ RUSH									
CARRIER CO.									
BILL NO.:									
CHARGE CODE									
RESULTS & INVOICES TO:									
FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261									