

**EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE**

Outside Risk - Below
BTEX TPH

Riddle F3 (MV)
Meter/Line ID - 71901

RECEIVED
NOV - 2 1999
OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 28N
NMOCD Hazard Ranking: 0
Operator: Amoco

Rng: 8W

Sec: 20 Unit: A
Land Type: BLM
Pit Closure Date: 7/18/94

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

Sandstone was encountered in the test excavation at ten feet. The excavation was terminated and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 261 ppm; laboratory analysis indicated a TPH concentration of 35,900 mg/kg.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over four years.
- Bedrock was encountered at 10 feet below ground surface making remediation impracticable.
- The test pit was backfilled with clean soil and the former pit area graded to direct surface runoff away from the former pit.
- Source material has been removed from the ground surface, eliminating potential direct contact with livestock and the public.
- Groundwater was not encountered in the test excavation. In addition, the estimated depth to groundwater is greater than 100 feet; therefore, impact to groundwater is unlikely.
- There are no water supply wells or potential surface water receptors within 1,000 feet of the site.
- Residual hydrocarbons in the soil will degrade by natural attenuation with minimal risk to the environment.

ATTACHMENT

Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form

Field Pit Assessment Form
Laboratory Analytical Results

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	
Meter: <u>71901</u> Location: <u>Riddle F3 (MV)</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>A</u> Section <u>20</u> Township: <u>28</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>2/13/98</u> Area: _____ Run: _____	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)
	Land Type: Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)
	BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____
	Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)
SITE ASSESSMENT	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)
	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)
	Name of Surface Water Body _____ (Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'
TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS	
REMARKS	Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. <u>Site is > 1000' From center of Carrizo & Largo Canyon.</u>

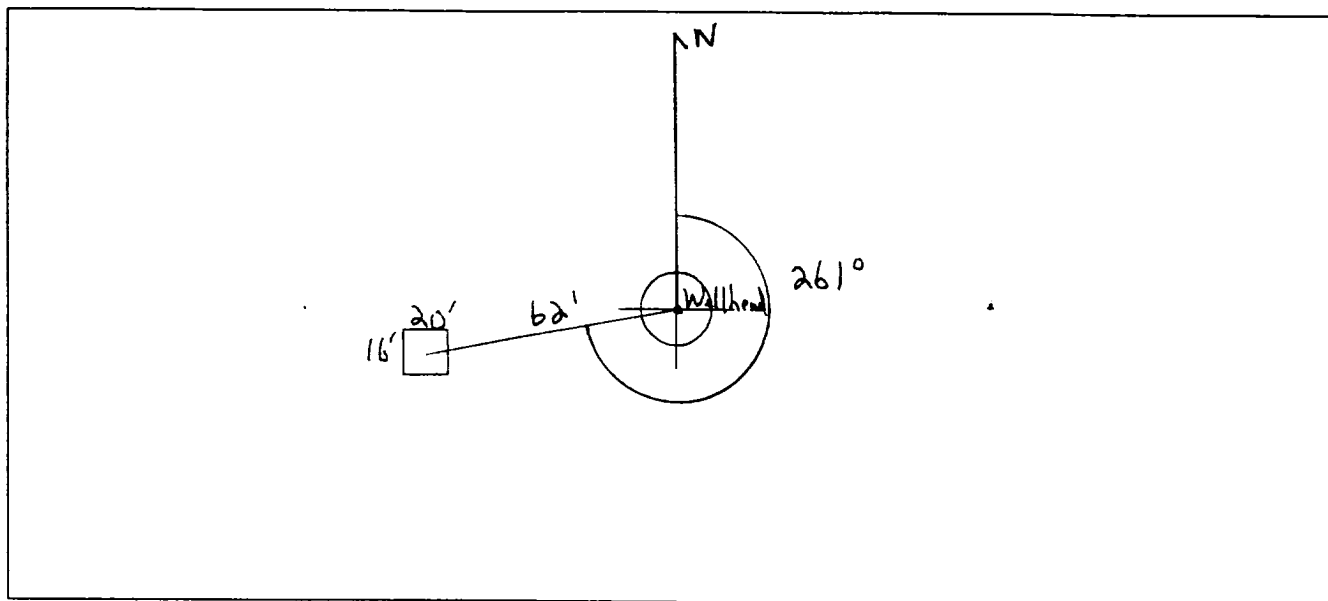
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>71901</u> Location: <u>Riddle F3 (MV)</u> Operator #: <u>0203</u> Operator Name: <u>Ameco</u> P/L District: <u>Blanco</u> Coordinates: Letter: <u>A</u> Section <u>20</u> Township: <u>28</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>5/23/94</u> Area: <u>13</u> Run: <u>31</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input checked="" 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 type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" 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 checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body <u>Carriazo Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) 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>10</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline - Inside, Vuln - Outside</u> <u>6 pits. Close 2 (1 PC & 1 MV) MV pit has productivity. Called</u> <u>Blanco office</u> <u>PUSH-IN</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 261° Footage from Wellhead 62'
 b) Length : 20' Width : 16' Depth : 3'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

Pictures @ 1204 (1-5) roll 2

Dump Truck

Completed By:

Long Chang
 Signature

5/1/94
 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>71901</u> Location: <u>Riddle F#3 (mu)</u> Coordinates: Letter: <u>A</u> Section <u>20</u> Township: <u>28</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Date Started : <u>7-18-94</u> Run: <u>13</u> <u>31</u>
FIELD OBSERVATIONS	Sample Number(s): <u>MK 159</u> Sample Depth: <u>10'</u> Feet Final PID Reading <u>261</u> <small>KVH 7-20-94 Taken off sample lid</small> PID Reading Depth <u>10'</u> Feet Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation <input type="checkbox"/> Approx. Cubic Yards _____ Onsite Bioremediation <input type="checkbox"/> Backfill Pit Without Excavation <input checked="" type="checkbox"/> Soil Disposition: Envirotech <input type="checkbox"/> Tierra <input type="checkbox"/> Other Facility <input type="checkbox"/> Name: _____ Pit Closure Date: <u>7-18-94</u> Pit Closed By: <u>BEJ</u>
REMARKS	Remarks : <u>EPNG lines Marked Gray Soil Strong HYDROcarbon</u> <u>odor Hit Sand stone 10'</u>
	Signature of Specialist: <u>Morgan Killian</u>



CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P. O. NUMBER	
LAB ID		DATE		TIME		MATRIX		SAMPLE NUMBER	
94	5711	7-19-94	09:15	Soil	1	UG	X	139	gray soil NO Hydrocarbon odor
94	5712	7-19-94	11:00	Soil	1	UG	X	140	Brown soil NO Hydrocarbon odor
94	5713	7-19-94	12:10	Soil	1	UG	X	141	Brown soil Strong Hydrocarbon odor
94	5714	7-19-94	12:10	Soil	1	D	X		
94	5715	7-19-94	12:15	Soil	1	B	X		
94	5716	7-19-94	13:01	Soil	1	UG	X	142	gray soil Strong Hydrocarbon odor
94	5717	7-19-94	13:33	Soil	1	UG	X	143	Brown soil Slight Hydrocarbon odor
94	5718	7-19-94	14:23	Soil	1	UG	X	144	gray soil Slight Hydrocarbon odor
94	5719	7-19-94	15:35	Soil	1	UG	X	145	Brown soil Slight Hydrocarbon odor
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
Morgan Keller		7-19-94 17:35		Brenda Liss		7/20/94 09:50			
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
								Kym K...	
REQUESTED TURNAROUND TIME:		ROUTINE <input type="checkbox"/> RUSH <input type="checkbox"/>		SAMPLE RECEIPT REMARKS		RESULTS & INVOICES TO:		FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499	
CARRIER CO.		CHARGE CODE				505-599-2144		FAX: 505-599-2261	



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 159	945716
MTR CODE SITE NAME:	71901	N/A
SAMPLE DATE TIME (Hrs):	7-19-94	1301
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7/21/94	7/21/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	DK Brown Fine Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	35,900	MG/KG			0.16	28
HEADSPACE PID	241	PPM				
PERCENT SOLIDS	92.5%	%				

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

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

DF = Dilution Factor Used

Approved By:

J.P.

Date:

8/8/94