

Denny J. Faust
DEPUTY OIL AND GAS INSPECTOR

DEC 20 1997

Meter Number: 72018
Location Name: SAN JACINTO #3
Location: TN-29 RG-10
SC-24 UL-D
2 - Federal
NMOCD Zone: OUTSIDE
Hazard Ranking Score: 00

RECEIVED
APR 14 1997
OIL AND GAS DIV.
EL PASO

Approved

**RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS
LOCATED OUTSIDE OF THE VULNERABLE ZONE
IN THE SAN JUAN BASIN**

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone	10^{-9} to 10^{-13} cm/sec
Shale	10^{-12} to 10^{-16} cm/sec
Clay	10^{-12} to 10^{-15} cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

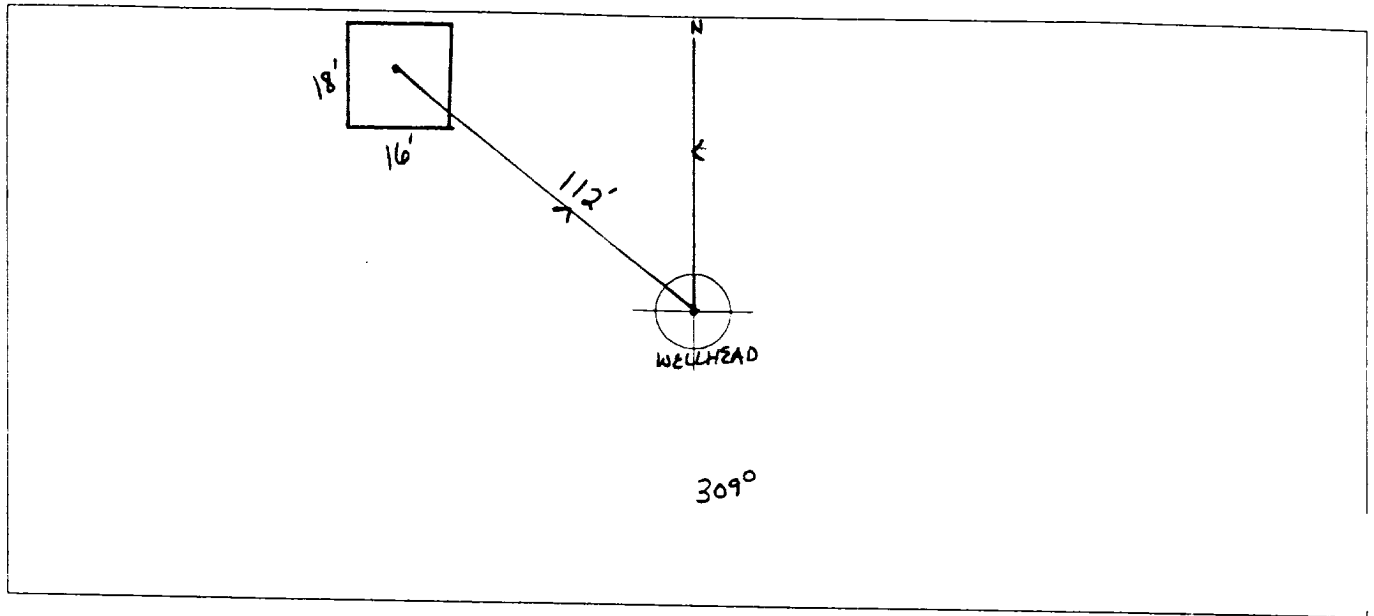
EPFS EL PASO FIELD SERVICES

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>72018</u> Location: <u>SAN JACINTO #3</u></p> <p>Operator #: <u>0128</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>D</u> Section <u>24</u> Township: <u>29</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Visit Date: <u>4.11.94</u> Run: <u>10</u> <u>42</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: Inside _____ Land Type: BLM <input checked="" type="checkbox"/> (From NMOCD Vulnerable _____ State <input type="checkbox"/> Maps) Zone <input type="checkbox"/> Fee <input type="checkbox"/> Outside <input checked="" type="checkbox"/> Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> 50 Ft to 99 Ft (10 points) <input type="checkbox"/> Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Wellhead Protection Area :</p> <p>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"/> YES (20 points) <input checked="" type="checkbox"/> NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS UP ON TOP OF A MESA.</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 309° Footage to Wellhead 112'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 18' Width : 16' Depth : 1'



REMARKS :

STARTED TAKING PICTURES AT 12:47 P.M.
END DUMP

Completed By:

Robert Champion
 Signature

4.11.94

Date

GENERAL

Meter: 72018 Location: San Jacinto #3
Coordinates: Letter: D Section 24 Township: 29 Range: 10
Or Latitude _____ Longitude _____
Date Started : 6-1-94 Area: 10 Run: 42

FIELD OBSERVATIONS

Sample Number(s): VW165
Sample Depth: 12' Feet
Final P.D Reading 240 PID Reading Depth 12' Feet
Yes No
Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
Excavation ☐ (1) Approx. Cubic Yards _____
Onsite Bioremediation ☐ (2)
Backfill Pit Without Excavation ☒ (3)
Soil Disposition:
Envirotech ☐ (1) ☐ (3) Tierra
Other Facility ☐ (2) Name: _____
Pit Closure Date: 6-1-94 Pit Closed By: BEZ

REMARKS

Remarks : EPALm line markers

Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

vw165

945322

MTR CODE | SITE NAME:

72018

N/A

SAMPLE DATE | TIME (Hrs):

6-1-94

1515

SAMPLED BY:

N/A

DATE OF TPH EXT. | ANAL.:

6/10/94

6/10/94

DATE OF BTEX EXT. | ANAL.:

N/A

N/A

TYPE | DESCRIPTION:

VG

Brown coarse sand

REMARKS: ~~X~~ REDUN TPH

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)	390	MG/KG			2.08	28
HEADSPACE PID	240	PPM				
PERCENT SOLIDS	94.3	%				

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

he Surrogate Recovery was at
arrative:

N/A

% for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Vol. 1

6/16/94



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 165	945322
MTR CODE SITE NAME:	72018	N/A
SAMPLE DATE TIME (Hrs):	6-1-94	1515
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6-3-94	6/3/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	BROWN COARSE 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)	800	MG/KG			2.03	28
HEADSPACE PID	240	PPM				
PERCENT SOLIDS	94.3	%				

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

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

TPH QC outside limits—need rerun

DF = Dilution Factor Used

Approved By: _____

Date: _____

 Test Method for
 Oil and Grease and Petroleum Hydrocarbons
 in Water and Soil
 Perkin-Elmer Model 1600 FT-IR
 Analysis Report

04/06/10 09:56

Sample identification
 945322 RERUN

Initial mass of sample, g
 2.080

Volume of sample after extraction, ml
 28.000

Petroleum hydrocarbons, ppm
 789.761

Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.053

