

Handwritten signature
SUPERVISOR
APR 14 1997

Approved

Meter Number:89240
Location Name:HUBBELL #15
Location:TN-29 RG-10
SC-17 UL-K
4 - Fee
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED
APR 14 1997
OIL FIELD
BUREAU

**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.

FIELD PIT SITE ASSESSMENT FORM

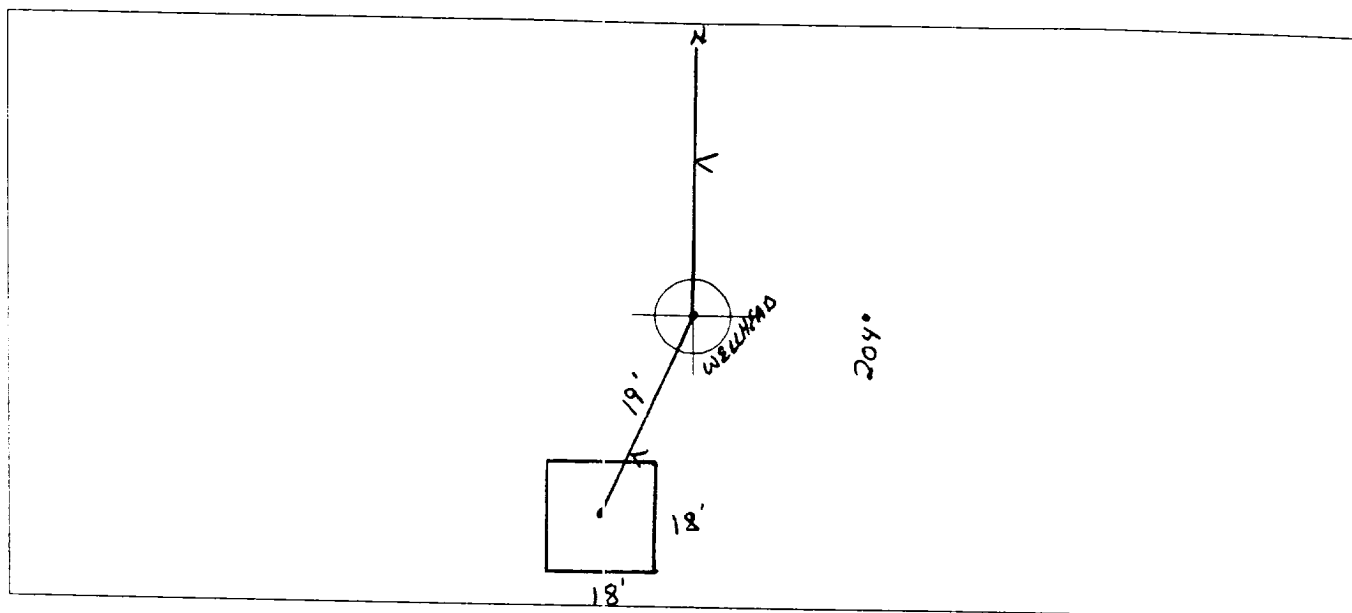
EPFS

EL PASO FIELD SERVICES

GENERAL	<p>Meter: <u>89240</u> Location: <u>HUBBELL #15</u></p> <p>Operator #: <u>2999</u> Operator Name: <u>MERIDIAN</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>K</u> Section <u>17</u> Township: <u>29</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: <u>(X)</u> <small>(FORMERLY SEPERATOR)</small></p> <p>Site Visit Date: <u>4.13.94</u> Run: <u>10</u> <u>81</u></p>
	<p>NMOCD Zone: Inside <input type="checkbox"/> Land Type: BLM <input type="checkbox"/> (From NMOCD Vulnerable <input type="checkbox"/> Maps) Zone <input checked="" type="checkbox"/> State <input type="checkbox"/> Outside <input type="checkbox"/> Fee <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. DO NOT KNOW WHY THIS LOCATION IS IN THE WATER VULNERABLE ZONE. SEPERATOR HAS BEEN REMOVED FROM PIT. METER IS TIED TO WELLHEAD.</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 204° Footage to Wellhead 19'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 18' Width : 18' Depth : 4'



Remarks :

STARTED TAKING PICTURES AT 12:46
END DUMP

Completed By:

Robert Thompson
 Signature

4.13.94
 Date

RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>89240</u> Location: <u>HUBBELL #15</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: _____ Section: _____ Township: _____ Range: _____ Or Latitude: _____ Longitude: _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: _____ Area: <u>10</u> Run: <u>81</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)	
	Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____ Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)	
	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 type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input 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 type="checkbox"/> (3)	
	Name of Surface Water Body _____ (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'	
REMARKS	TOTAL HAZARD RANKING SCORE: _____ POINTS	
	Remarks : _____ _____ _____	

GENERAL

Meter: 89240 Location: Hobbs #15Coordinates: Letter: K Section 12 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 6-1-94 Area: 10 Run: 81

FIELD OBSERVATIONS

Sample Number(s): VW167 _____Sample Depth: 12' FeetFinal PID Reading 294 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) TierraOther Facility ☐ (2) Name: _____Pit Closure Date: 6-1-94 Pit Closed By: BEI

REMARKS

Remarks : no line markersSignature of Specialist: Wade Wilson



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 167	945324
MTR CODE SITE NAME:	89240	N/A
SAMPLE DATE TIME (Hrs):	6-1-94	1710
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-Gray coarse sand

REMARKS: * BERUN 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)	184	MG/KG			2.23 1.99	28
HEADSPACE PID	294	PPM			11/9/94	
PERCENT SOLIDS	94.4	%				

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

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

DF = Dilution Factor Used

Approved By: [Signature]

Date: 6/16/94



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 167	945324
MTR CODE SITE NAME:	8924C	N/A
SAMPLE DATE TIME (Hrs):	6-1-94	1710
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:		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)	5.80	MG/KG			0.5	2.5
HEADSPACE PID	294	PPM				
PERCENT SOLIDS	94.4	%				

— 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

ILLEGIBLE

1. Sample Information
2. Test Results
3. Test Method
4. Test Results
5. Test Method
6. Test Results
7. Test Method
8. Test Results
9. Test Method
10. Test Results

