

Denny E. Best
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Approved

Meter Number:70524

Location Name:SAN JUAN 30-6 UNIT #76

Location:TN-30 RG-07

SC-24 UL-H

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

RECEIVED
APR 14 1997

OIL CON. DIV.
DIST. 3

**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

GENERAL

Meter: 70524 Location: SAN JUAN 30-6 UNIT #76
 Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD
 Coordinates: Letter: H Section 24 Township: 30 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 6-1-94 Area: 10 Run: 82

SITE ASSESSMENT

NMOCD Zone:
 (From NMOCD Maps)

Inside (1)
 Outside (2)

Land Type: BLM (1)
 State (2)
 Fee (3)
 Indian _____

Depth to Groundwater
 Less Than 50 Feet (20 points) (1)
 50 Ft to 99 Ft (10 points) (2)
 Greater Than 100 Ft (0 points) (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) (1)
 200 Ft to 1000 Ft (10 points) (2)
 Greater Than 1000 Ft (0 points) (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 (1) < 100' (Navajo Pits Only)
 (2) > 100'

TOTAL HAZARD RANKING SCORE: 0 POINTS

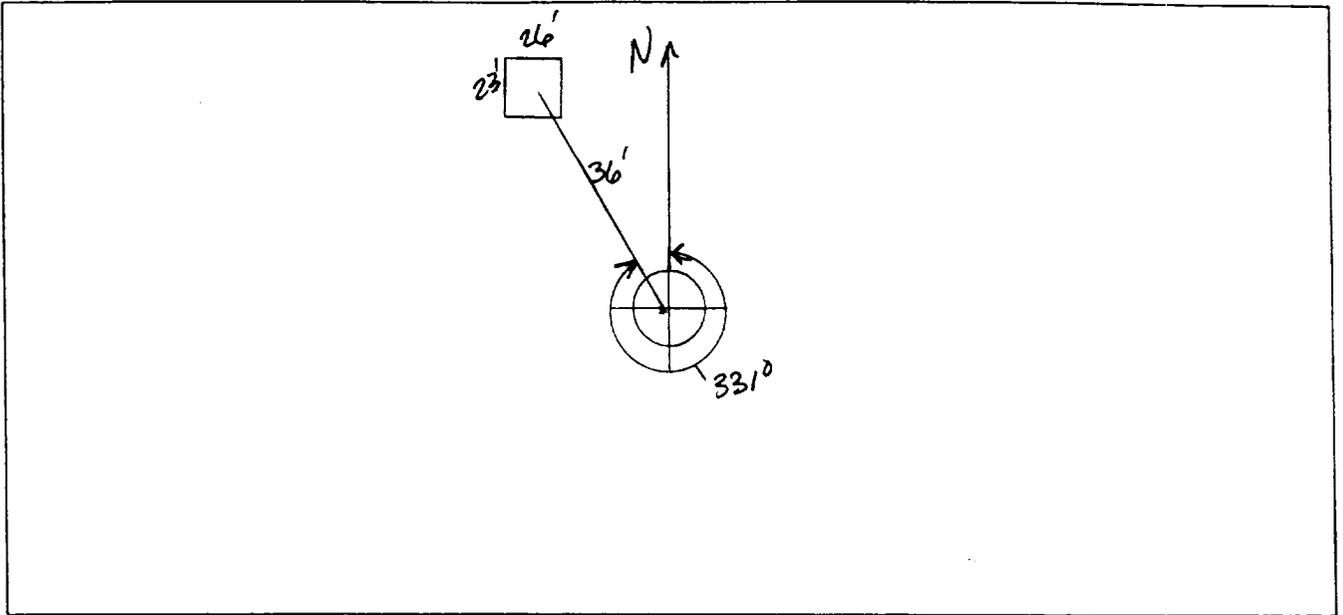
REMARKS

Remarks : ONE PIT ON LOCATION, ONE PIT TO CLOSE. A FIBERGLASS TANK IS LOCATED IN PIT. DEHYDRATOR HAS BEEN REMOVED.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 331° Footage from Wellhead 36'
b) Length : 26' Width : 23' Depth : 2'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

PHOTOGRAPHS TAKEN ON AH-11

Completed By:

Alvin S. Harris

Signature

6-1-94

Date

FILE J PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>70524</u> Location: <u>SAN JUAN 30-6 unit #76</u>
	Coordinates: Letter: <u>H</u> Section <u>24</u> Township: <u>30</u> Range: <u>7</u> Or Latitude _____ Longitude _____
	Date Started : <u>7-12-94</u> Area: <u>10</u> Run: <u>22</u>

FIELD OBSERVATIONS	Sample Number(s): <u>PK117</u>
	Sample Depth: <u>4'</u> Feet
	Final PID Reading <u>160</u> PID Reading Depth <u>4'</u> Feet
	Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet Yes No

CLOSURE	Remediation Method :
	Excavation <input type="checkbox"/> (1) Approx. Cubic Yards _____
	Onsite Bioremediation <input type="checkbox"/> (2)
	Backfill Pit Without Excavation <input checked="" type="checkbox"/> (3)
	Soil Disposition:
Envirotech <input type="checkbox"/> (1) <input type="checkbox"/> (3) Tierra	
Other Facility <input type="checkbox"/> (2) Name: _____	
Pit Closure Date: <u>7-12-94</u> Pit Closed By: <u>BEI</u>	

REMARKS	Remarks : <u>EPNG LINES MARKED soil light brown NO HYDROCARBON odor pit had liner in it it sandstone 4'</u>

Signature of Specialist: <u>Morgan Killian</u>
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**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 117	945641
MTR CODE SITE NAME:	70524	N/A
SAMPLE DATE TIME (Hrs):	7-12-94	0938
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	7-14-94	7/14/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Lt. Brown Fine Sand/Sandstone

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)	793	MG/KG			2.04	28
HEADSPACE PID	160	PPM				
PERCENT SOLIDS	94.7	%				

- 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:

Date: 7/17/94

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

04/07/14 10:28

Sample Identification
045641

Initial mass of sample, g
0.040

Volume of sample after extraction, ml
20.000

Petroleum hydrocarbons, ppm
793.087

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.107

ILLEGIBLE

1 Petroleum hydrocarbons spectrum

10:28

