

Denny E. Frost
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Approved

Meter Number: 94258
Location Name: SAN JUAN 30-6 #94A (LD)
Location: TN-30 RG-07
SC-29 UL-A
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: 94258 Location: SAN JUAN 30-6 #94A (LINE DRIP)
 Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD
 Coordinates: Letter: A Section 29 Township: 30 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: X Other: _____
 Site Assessment Date: 5-11-94 Area: 10 Run: SL

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

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 : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON SMITH
PASS. REDLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE
V.Z.

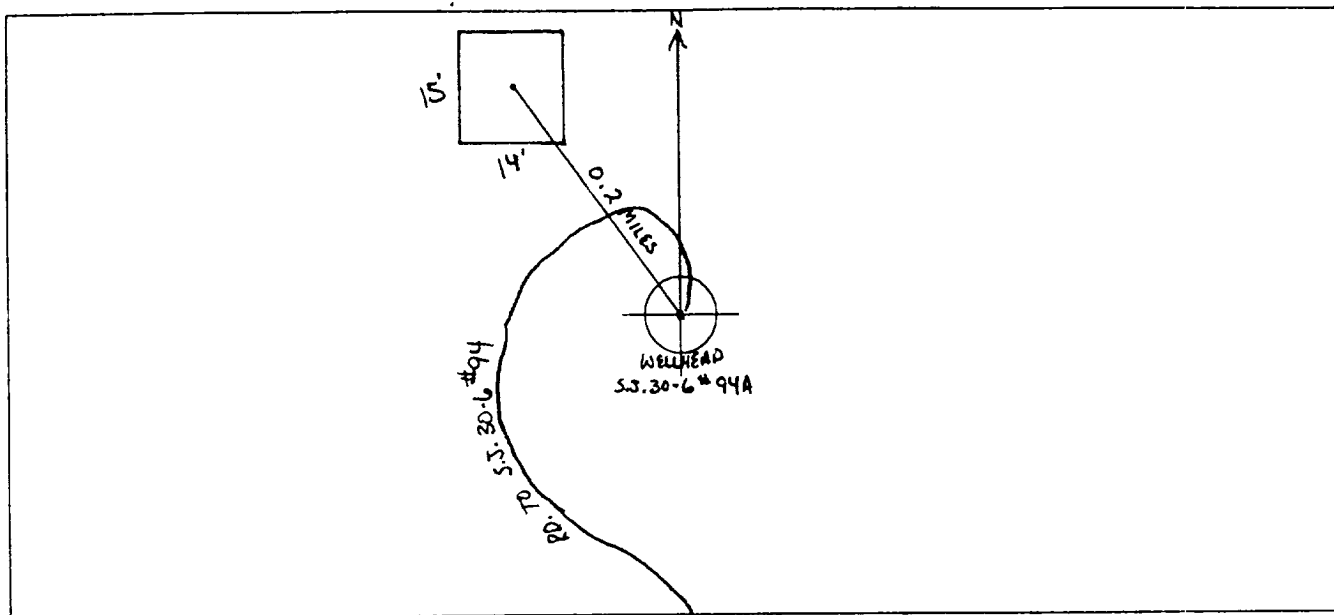
PUSH IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

MILEAGE

S.J. 30-6 #94A

Original Pit : a) Degrees from North 323° Footage from Wellhead 0.2 MILESb) Length : 15' Width : 14' Depth : 3'

REMARKS

Remarks :

TOOK PICTURES AT 2:20 P.M.DUMP TRUCK - BOBTAIL

DROVE PICK-UP FROM BESIDE THE PIT TO THE WELLHEAD OF S.J. 30-6 #94A AND
GOT 2/10 OF A MILE. TOOK BEARING OF PIT BY STANDING DIRECTLY BEHIND PIT
AND SHOOTING IN THE DIRECTION OF THAT LOCATION.

Completed By:

Robert Champion

Signature

5.11.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94258</u> Location: <u>San Juan 30-6 #94A (Line Dip)</u> Coordinates: Letter: <u>A</u> Section <u>29</u> Township: <u>30</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Date Started : <u>6-15-94</u> Area: <u>10</u> Run: <u>51</u>
FIELD OBSERVATIONS	Sample Number(s): <u>VW209</u> Sample Depth: <u>9'</u> Feet Final PID Reading <u>265</u> PID Reading Depth <u>9'</u> 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: <u>6-15-94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>EPNIG line marks, 9' h.f sandstone</u> _____ _____
Signature of Specialist: <u>Vale Wilson</u>	



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

VW 209

945459

94258

N/A

6-15-94

1105

N/A

6/16/94

6/16/94

N/A

N/A

VG

Beige Fine Sand / Clay

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)	43.6	MG/KG			2.03	28
HEADSPACE PID	265	PPM				
PERCENT SOLIDS	92.6	%				

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

The Surrogate Recovery was at
Narrative:

N/A % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

A. L. Ford

7/14/00

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

Perkin-Elmer Model 1600 FT-IR
 Analysis Report

94/06/16 16:47

Sample identification
 #45459 ~~oil~~

Initial mass of sample, g
 7.430

Volume of sample after extraction, ml
 12.000

Petroleum hydrocarbons, ppm

47,600

Net absorbance of hydrocarbons (E770 co-1)
 1.005

Petroleum hydrocarbons spectrum

16:47



ILLEGIBLE