

Kenney & Best
DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

Approved

Meter Number: 94722

Location Name: SALAZAR G COM #26-1

Location: TN-25 RG-06

SC-26 UL-M

2 - Federal

NMOCD Zone: OUTSIDE

Hazard Ranking Score: 00

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APR 14 1997

OIL CON. DIV.
PAGE 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: 94722 Location: SALAZAR 6 COM #26-1
 Operator #: _____ Operator Name: _____ P/L District: OJITO
 Coordinates: Letter: M Section 26 Township: 25 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 2.7.95 Area: 06 Run: 52

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: _____ ☐ _____ POINTS

REMARKS

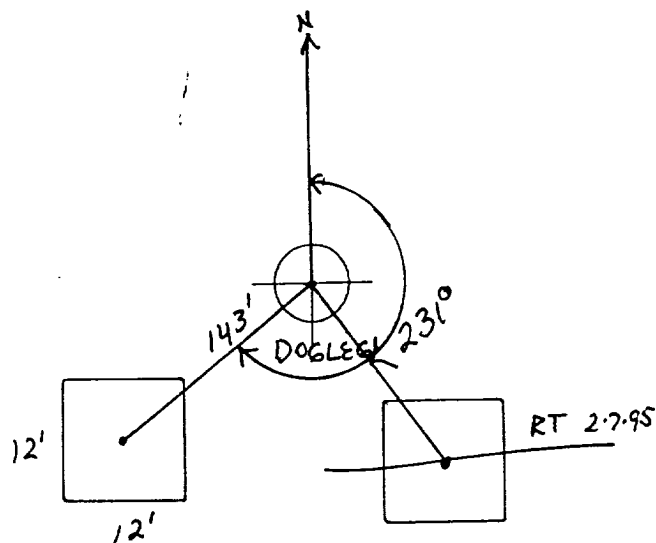
Remarks : REDLINE : TOPO SHOW LOCATION OUTSIDE V.Z. ONLY PIT ON LOCATION. BELONGS TO EPNG. WILL CLOSE PIT.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

DOGLEEG

Original Pit : a) Degrees from North 231° Footage from ~~Wellhead~~ 143'
b) Length : 12' Width : 12' Depth : 2'



REMARKS

Remarks :

PHOTOS - 1145

MEASURED DISTANCE FROM PIT TO THIS WELL'S DOGLEEG.

Completed By:

Signature

2-7-95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

| | |
|---------------------------|--|
| GENERAL | <p>Meter: <u>94722</u> Location: <u>SALAZAR 6 Com #26-1</u></p> <p>Coordinates: Letter: <u>M</u> Section <u>26</u> Township: <u>25</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>3-14-95</u> Run: <u>06</u></p> |
| FIELD OBSERVATIONS | <p>Sample Number(s): ^{KP} <u>440</u></p> <p>Sample Depth: <u>4'</u> Feet</p> <p>Final PID Reading <u>007</u> PID Reading Depth <u>4'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p> |
| CLOSURE | <p>Remediation Method :</p> <p>Excavation <input type="checkbox"/> Approx. Cubic Yards _____</p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input checked="" type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>3-14-95</u> Pit Closed By: <u>B.E.I</u></p> |
| REMARKS | <p>Remarks : <u>Some line markers dug A test hole</u></p> <p><u>closed Pit Hit SAND stone At 4'</u></p> |
| | <p>Signature of Specialist: <u>Kelly Poballa</u></p> |



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

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:

KP 440

946727

94722

N/A

3-14-95

1425

N/A

3/23/95

3/23/95

N/A

N/A

UG

Brown fine sand

REMARKS:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| TPH (418.1) | 348 | MG/KG | | | 1.99 | 28 |
| HEADSPACE PID | 7 | PPM | | | | |
| PERCENT SOLIDS | 91.8 | % | | | | |

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

3-24-95

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

75/03/23 09:08

Sample identification
 746727

Initial mass of sample, g
 1.990

Volume of sample after extraction, ml
 29.000

Petroleum hydrocarbons, ppm
 348.025

Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.052

