

Approved

DEC 29 1997

Approved

Meter Number:94162

Location Name:FEDERAL COM A #5

Location:TN-25 RG-06

SC-35 UL-E

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

RECEIVED
APR 14 1997

OIL CONTROL DIV
APR 14 1997

**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: 94162 Location: FEDERAL COM A #5
 Operator #: _____ Operator Name: KIMBELL OIL P/L District: OJITO
 Coordinates: Letter: E Section 35 Township: 25 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: 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: 0 POINTS

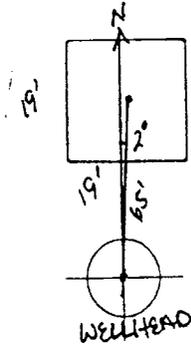
REMARKS

Remarks : REDLINE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE U.2
ONLY PIT ON LOCATION. BELONGS TO EPNG. WILL CLOSE PIT.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 2° Footage from Wellhead 65'
b) Length : 19' Width : 19' Depth : 2'

ORIGINAL PIT LOCATION



Remarks :

PHOTOS - 1030

REMARKS

Completed By:

Robert Champion

Signature

2.7.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94162</u> Location: <u>Federal Com A #5</u> Coordinates: Letter: <u>E</u> Section <u>35</u> Township: <u>25</u> Range: <u>6</u> Or Latitude _____ Longitude _____ Date Started : <u>3-14-95</u> Run: <u>06</u> <u>52</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP 439</u> Sample Depth: <u>9'</u> Feet Final PID Reading <u>243</u> PID Reading Depth <u>9</u> Feet Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation <input type="checkbox"/> Approx. Cubic Yards _____ Onsite Bioremediation <input type="checkbox"/> Backfill Pit Without Excavation <input checked="" type="checkbox"/> Soil Disposition: Envirotech <input type="checkbox"/> Tierra <input type="checkbox"/> Other Facility <input type="checkbox"/> Name: _____ Pit Closure Date: <u>3-14-95</u> Pit Closed By: <u>B.E.J.</u>
REMARKS	Remarks : <u>Some Line markers dug a Test hole. Hit sandstone at 9' sampled closed pit</u>
	Signature of Specialist: <u>Kelly Padilla</u>

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

95/03/23 09:06

Sample identification
946736

Initial mass of sample, g
1.953

Volume of sample after extraction, ml
32.000

Petroleum hydrocarbons, ppm
321.535

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.107

