

Deering & Toot
DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

Approved

Meter Number: 75755
Location Name: NEWSOM A #7
Location: TN-26 RG-08
SC-10 UL-O
2 - Federal
NMOCD Zone: OUTSIDE
Hazard Ranking Score: 00

DECEMBER 30 1997
APR 14 1997
OIL & GAS DIV.
DIST. 9

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.

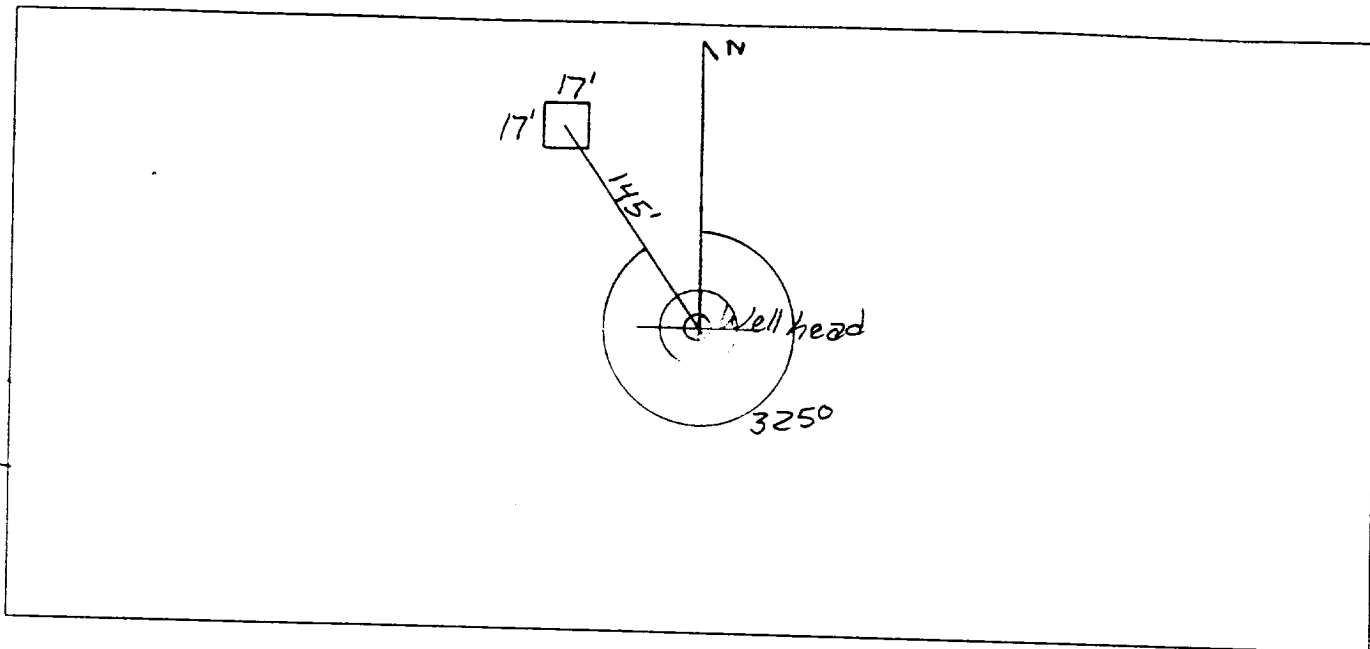
FIELD PIT SITE ASSESSMENT FORM

GENERAL	COR 9/19/94 Meter: <u>75-755</u> Location: <u>Newson A No. 7</u> Operator #: <u>0128</u> Operator Name: <u>Meridian Oil P/L</u> District: <u>Ballard</u> Coordinates: Letter: <u>Q</u> Section <u>10</u> Township: <u>26</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>7/28/94</u> Area: <u>07</u> Run: <u>92</u>				
	<table border="0"> <tr> <td data-bbox="138 691 414 840"> NMOCD Zone: (From NMOCD Maps) </td> <td data-bbox="511 798 625 904"> Inside Outside </td> <td data-bbox="820 798 950 904"> ☐ (1) ☒ (2) </td> <td data-bbox="852 712 1079 766"> Land Type: </td> <td data-bbox="1136 712 1421 915"> BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____ </td> </tr> </table> 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 <u>Heifer Canyon</u> (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: <u>0</u> POINTS	NMOCD Zone: (From NMOCD Maps)	Inside Outside	☐ (1) ☒ (2)	Land Type:
NMOCD Zone: (From NMOCD Maps)	Inside Outside	☐ (1) ☒ (2)	Land Type:	BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____	
REMARKS	Remarks : <u>Redline Book - Outside Vulnerable Zone Type - Outside</u> <u>Three pits, location drip pit is dry, will close one pit.</u> <u>PUSH IN</u>				

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 325° Footage from Wellhead 145'
 b) Length : 17' Width : 17' Depth : 2'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

Pictures @ 1131 (8-11, R6117)
 Dump Truck

Completed By:

Sarah Kelly
 Signature

7/28/94
 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>75755</u> Location: <u>Newson A# 7</u> Coordinates: Letter: <u>0</u> Section <u>10</u> Township: <u>26</u> Range: <u>8</u> Or Latitude _____ Longitude _____ Date Started : <u>10-10-94</u> Run: <u>07</u> <u>92</u>
FIELD OBSERVATIONS	Sample Number(s): <u>VJ395</u> Sample Depth: <u>5</u> Feet Final PID Reading <u>213</u> PID Reading Depth <u>5</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation Onsite Bioremediation Backfill Pit Without Excavation ☐ Approx. Cubic Yards _____ ☐ ☒ Soil Disposition: Envirotech ☐ Other Facility ☐ ☐ Tierra Name: _____ Pit Closure Date: <u>10-10-94</u> Pit Closed By: <u>BLZ</u>
REMARKS	Remarks : <u>5' sandstone</u> _____ _____
	Signature of Specialist: <u>Vale Wilson</u>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 395	946377
MTR CODE SITE NAME:	75755	N/A
SAMPLE DATE TIME (Hrs):	10-10-94	1430
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	10-13-94	
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Brown Sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	4040	MG/KG			2.02	2.8
HEADSPACE PID	213	PPM				
PERCENT SOLIDS	91.8	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

10/23/94

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Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
Perkin-Elmer Model 1600 FT-IR
Analysis Report
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04/10/13 11:59

Sample identification
946377

Initial mass of sample, g
1.020

Volume of sample after extraction, ml
13.000

Petroleum hydrocarbons, ppm
1043.625

Net absorbance of hydrocarbons (2930 cm⁻¹)
1.508

