

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

DEC 02 1997

Approved

Meter Number:90592
Location Name:N.E. BLANCO UNIT #66
Location:TN-31 RG-07
SC-30 UL-F
1 - State
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.

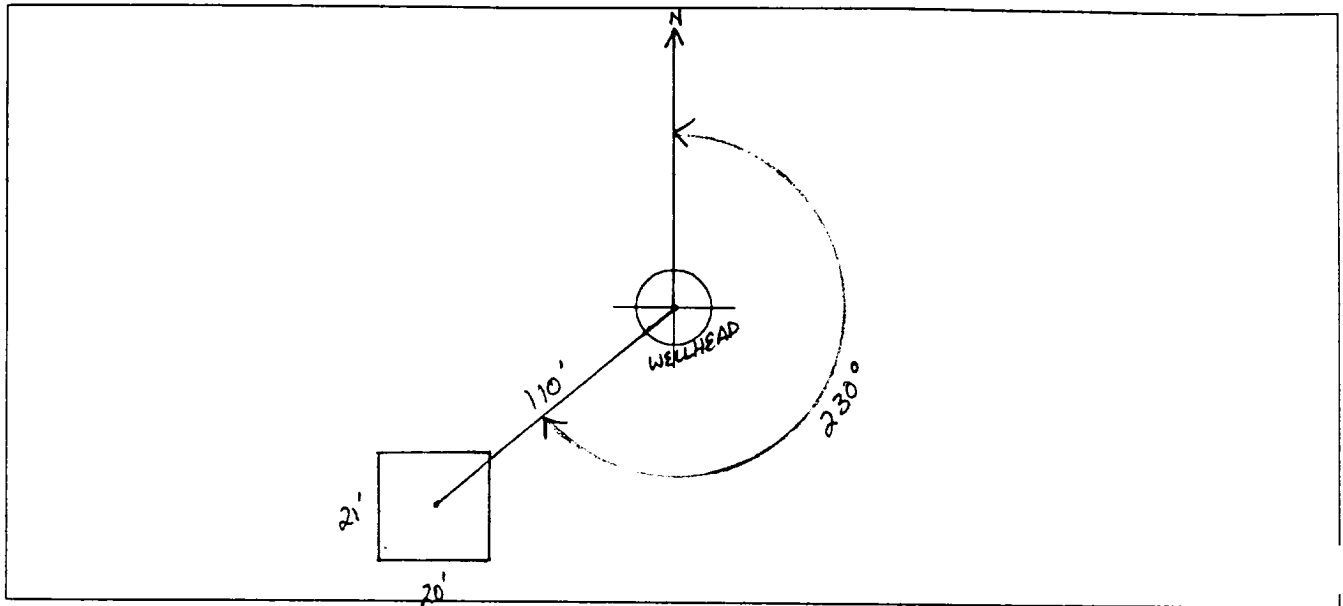
FIELD PIT SITE ASSESSMENT FORM



GENERAL	Meter: <u>90592</u> Location: <u>N.E. BLANCO UNIT #66</u> Operator #: <u>0735</u> Operator Name: <u>BLACKWOOD NICHOLS</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>F</u> Section: <u>30</u> Township: <u>30</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <u>X</u> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>5-6-94</u> Area: <u>10</u> Run: <u>63</u>								
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)								
	Land Type: <table border="0"> <tr> <td>BLM</td> <td><input type="checkbox"/> (1)</td> </tr> <tr> <td>State</td> <td><input checked="" type="checkbox"/> (2)</td> </tr> <tr> <td>Fee</td> <td><input type="checkbox"/> (3)</td> </tr> <tr> <td>Indian</td> <td>_____</td> </tr> </table>		BLM	<input type="checkbox"/> (1)	State	<input checked="" type="checkbox"/> (2)	Fee	<input type="checkbox"/> (3)	Indian
BLM	<input type="checkbox"/> (1)								
State	<input checked="" type="checkbox"/> (2)								
Fee	<input type="checkbox"/> (3)								
Indian	_____								
REMARKS	Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)								
Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (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 <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'									
TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS									
Remarks : <u>TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS ON A MESA ABOVE NAVAJO LAKE. REDLINE SHOWS LOCATION IS INSIDE THE U.Z. BUT TOPO SHOWS THAT IT IS OUTSIDE THE U.Z.</u>									

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 230° Footage from Wellhead 110'
b) Length : 21' Width : 20' Depth : 4'



Remarks :

TOOK PICTURES AT 1:21 P.M.

DUMP TRUCK - BOBTAIL

Completed By:

Robert Thompson
Signature

5.6.94
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>40592</u> Location: <u>N.E. Blanco Unit #66</u> Coordinates: Letter: <u>F</u> Section <u>30</u> Township: <u>31</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Date Started : <u>6-2-94</u> Area: <u>10</u> Run: <u>63</u>
FIELD OBSERVATIONS	Sample Number(s): <u>VW172</u> Sample Depth: <u>4'</u> Feet Final PID Reading <u>2</u> PID Reading Depth <u>4'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div>Excavation</div> <div><input type="checkbox"/> (1) Approx. Cubic Yards _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Onsite Bioremediation</div> <div><input type="checkbox"/> (2)</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Backfill Pit Without Excavation</div> <div><input checked="" type="checkbox"/> (3)</div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div>Envirotech</div> <div><input type="checkbox"/> (1)</div> <div><input type="checkbox"/> (3) Tierra</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Other Facility</div> <div><input type="checkbox"/> (2) Name: _____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Pit Closure Date: <u>6-2-94</u></div> <div>Pit Closed By: <u>BEZ</u></div> </div>
REMARKS	Remarks : <u>Pit was dug out of solid rock 4'</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 172	945344
90592	N/A
6-2-94	1300
N/A	N/A
6-6-94	6/6/94
N/A	N/A
VG	Brown fine sand

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)	<10	MG/KG			2.20	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	90.7	%				

— 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

Approved By:

John Sardi

Date:

6/16/94

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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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04/06/06 14:05

Sample Identification
#45364

Initial mass of sample, g
1.200

Volume of sample after extraction, ml
13.000

Petroleum hydrocarbons, ppm
167.618

Net absorbance of hydrocarbons (2900 cm-1)
0.048

