

*Denny E. Faust*

DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

*Approved*

Meter Number:90049

Location Name:VALENCIA CANYON UNIT #10

Location:TN-28 RG-04

SC-34 UL-H

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

RECEIVED  
APR 14 1997

OIL CON. DIV.  
DIST. 2

**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.

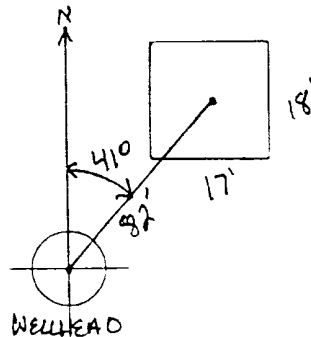


# FIELD PIT SITE ASSESSMENT FORM **EL PASO FIELD SERVICES**

GENERAL	Meter: <u>90049</u> Location: <u>VALENCIA CANYON UNIT #10</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>H</u> Section <u>34</u> Township: <u>28</u> Range: <u>4</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>2.23.95</u> Area: <u>10</u> Run: <u>62</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2) Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian <input type="checkbox"/> (4) FOREST <input checked="" type="checkbox"/> (5) 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	Remarks : <u>REDLINE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z.</u> <u>THREE PITS ON LOCATION. LOCATION DRIP BELONGS TO SPNG. WILL CLOSE PIT.</u> <div style="text-align: right;"><u>PUSH IN</u></div>	

## ORIGINAL PIT LOCATION

REMARKS



PHOTOS - 1230

PHOTOS - 1230

[illegible]

Pat Thompson

2.23.95

Date

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>90049</u> Location: <u>Valencia Canyon unit #10</u>
	Coordinates: Letter: <u>11</u> Section <u>34</u> Township: <u>28</u> Range: <u>4</u> Or Latitude <u>33° 14' 15"</u> Longitude <u></u>
	Date Started : <u>3/16/95</u> Run: <u>10</u> <u>62</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 392</u>
	Sample Depth: <u>12'</u> Feet Final PID Reading <u>215 ppm</u> PID Reading Depth <u>12'</u> Feet
	Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approximate Depth <u></u> Feet
CLOSURE	Remediation Method : Excavation <input type="checkbox"/> Approx. Cubic Yards <u>0</u> 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: <u></u>
	Pit Closure Date: <u>3/16/95</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Dug test hole to 12', took PID sample, closed pit.</u>
	Signature of Specialist: <u>[Signature]</u>



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 392	946734
MTR CODE   SITE NAME:	90049	N/A
SAMPLE DATE   TIME (Hrs):	3-16-95	1040
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	KD 3/17/95 N/A 3/23/95	KD 3/17/95 N/A 3/23/95
DATE OF BTEX EXT.   ANAL.:	N/A	N/A
TYPE   DESCRIPTION:	VG	Dark Brown sand and clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	560	MG/KG			2.01	28
HEADSPACE PID	215	PPM				
PERCENT SOLIDS	87.3	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

J. J.

Date:

3-24-95

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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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95/03/23 09:24

Sample identification  
746734

Initial mass of sample, g  
2.010

Volume of sample after extraction, ml  
28.000

Petroleum hydrocarbons, ppm  
559.694

Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
0.078

