Denny & Fout DEPUTY OIL & GAS INSPECTION.

Meter Number:93766

me:VALENCIA CANYON UNIT #43

DEC 291997

Location:TN-28 RG-04
SC-27 UL-N

2 - Federal

MOCD Zone:OUTSIDE

Hazard Ranking Score:00

REGEIVED

#### 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<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> 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 ELFAS

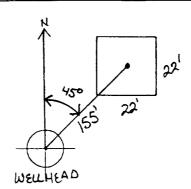


GENERAL	Meter: 93766 Location: VALENCIA CANYON LINIT #43  Operator #: 0203 Operator Name: Amaco P/L District: BLOOMFIELA  Coordinates: Letter: MN Section 27 Township: 28 Range: 4  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: 2.23.95 Area: 10 Run: 62
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  (From NMOCD  Maps)  Inside  Outside  Outside  (2)    Indian   Indi
REMARI.	Remarks: REDLINE: TOPO SHOW LOCATION GLITSIDE V.Z. THREE PITS ON LOCATION. DEHY PIT BELONGS TO EPNG. WILL CLOSE PLT.
REN	PUSH IN (SP3190) 04/08/94

REMARKS

#### ORIGINAL PIT LOCATION

- Original Pit : a) Degrees from North 45° Footage from Wellhead 155'
  - b) Length: <u>22'</u> Width: <u>22'</u> Depth: <u>2'</u>



Remarks	:
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PHOTOS - 1321

Completed By:

Signature

2.23.95

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93766 Location: <u>Valencia</u> Comyon unit #43  Coordinates: Letter: N Section 27 Township: 28 Range: 4  Or Latitude Longitude  Date Started: 3/16/95 Run: 10 62
FIELD OBSERVATIONS	Sample Number(s): KD 394  Sample Depth: 6' Feet  Final PID Reading 410 ppm PID Reading Depth 6 Feet  Yes No  Groundwater Encountered  Approximate Depth Feet
CLOSURE	Remediation Method .  Excavation
REMARKS	Remarks: Dug test Hole to 6' Hit Hard Bentonite  Lityer, Stop Excavating, TOOK Did Sample, Closed Dit.  Signature of Specialist: hum Dawn
	(SP3181) 03/16/9



# FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

Field II KD 394 9376 3-16-95 NIA NIA	6 S N/A 3/23/95	وم الم الم على الم	N/A 197	,)as		
9376 3-16-95	S N/A 3/23/95	20k  45 ===================================	N/A 197	,)as		
9376 3-16-95	S N/A 3/23/95	وم الم الم على الم	100	,)95		
20 10 10 10 10 10 10 10 10 10 10 10 10 10	3/23/95	وم الم الم على الم	7/23	,)95		
2 14	3/23/95	20 kg 11/6 20 Al 14	/	,/95		
2 14		n   h	/	,/95		
NP		TANK BUDE	DANK Brown sund and clar			
	TOULTS					
<u></u>	ESULIS					
RESULT	UNITS	QUALIFIERS				
NEOOL!		DF			V(mi)	
36	MG/KG			1.93	28	
410	PPM				·	
86.1	%					
	- TPH is by EPA Method	418.1				
	<u>,</u>					
,	36 410 86.1	36 MG/KG -{10 PPM	RESULT UNITS  DF  MG/KG  PPM	RESULT UNITS QUALIFORM QUA	RESULT UNITS  OUALIFIERS  DF Q M(g)  36 MG/KG  193  410 PPM  86.1 %	

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                  Test Me\ ad for
     Oil and Grease and Petroleum Hydrocarbons
                 in Water and Soil
           Perkin-Elmer Model 1600 FT-IR
                  Analysis Report
**************************************
95/03/23 09:29
  Sample identification
946736
  Initial mass of sample, g
1.930
  Volume of sample after extraction, ml
28,000
  Petroleum hydrocarbons, ppm
136.287
  Net absorbance of hydrocarbons (2930 cm-1)
0.026
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