DEPUTY OIL & GAS INSPECTOR

Meter Number:89315
ocation Name:SAN JUAN 29-6 UNIT #57A
Location:TN-29 RG-06

SC-33 UL-P

2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

RECEIVED APR 1 4 1987

OIL CON. DIV.

## 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.

EPFS MSO FIRM DOTTED

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

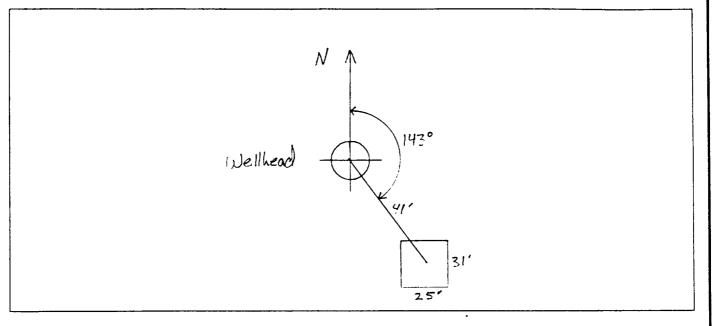
GENERAL	Meter: 893/5 Location: San Juan 29-6 unit 57A  Operator #: 7035 Operator Name: Pilips P/L District: Bloomfield  Coordinates: Letter: P Section 33 Township: 29 Range: 6  Or Latitude Longitude  Pit Type: Dehydrator **Location Drip: Line Drip: Other:  Site Assessment Date: 6-4-94 Area: 10 Run: 91
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  (2)  Maps)  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  (1)  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)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  (2)  Greater Than 1000 Ft (0 points)  (3)  Horizontal Distance to Surface Water Body  Less Than 200 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:  POINTS
S)	Remarks: Two pits on location one is in use with
REMARKS	tank in it, other is dry.
ZEM	location outside KZ' on Redline & Topo
<u> н</u>	1 (SP3190) 04/08/04

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ORIGINAL.

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 143 Footage from Wellhead 41

b) Length: 31 Width: 25 Depth: 4



	Remarks: Photos 12/2 hrs
S	Sump Youck - poss End Sump
REMARKS	
24	

Completed By:

Ken Walter Signature

6-4-94

Date

# FIEL PIT REMEDIATION/CLOSUL FORM

GENERAL	Meter: 893/5 Location: SAN Juan 29-6 Unit #57A  Coordinates: Letter: P Section 33 Township: 29 Range: 6  Or Latitude Longitude  Date Started: 7-5-94 Area: 10 Run: 91
FIELD OBSERVATIONS	Sample Number(s): MK 83  Sample Depth:6' Feet  Final PID Reading174
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: FPNG lines Marked Soil Grazish brown Slight Hypro carbon odor Hit Sand Stone 6'  Signature of Specialist: Mozon Xidlian  (SP3191) 04/07/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	m K 8 3	9455 85
MTR CODE   SITE NAME:	89315	N/A
SAMPLE DATE   TIME (Hrs):	7-5-94	1412
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	717194	7/7/94
DATE OF BTEX EXT. ANAL.:	2/4	N/a
TYPE : DESCRIPTION:	V G-	Too Sand Chy

REMARKS:

#### RESULTS

PARAMETER	RESULT UNITS	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)	1220	MG/KG			2.03	28
HEADSPACE PID	174	PPM				
PERCENT SOLIDS	91.7	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

The	Surrogate	Recovery	was	at	

NID

% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

7/14/90

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 24/07/07 17:05 Dample dentification 145555 — JWD 717/94 Igu itu kasa of dendue, g . Profiles - Todesepoli affiæm extorembiling soc USDIO . A kristo (wille la Zémocambolia), japa. Oligi 966 orandario del 1908 decambro a 1907 conti To Foliation with a justice and a religion of the 

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