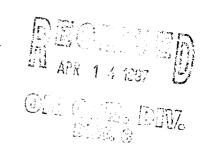
DEPUTY OIL & GAS INSPECTION

DEC 3 0 HEEN

Meter Number:87628
Location Name:SAMMONS D#1
Location:TN-29 RG-09
SC-07 UL-N
4 - Fee

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00



# 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 ELPASOFIELD SERVICES

GENERAL	Meter: 87628 Location: SAMMONS D #   Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD Coordinates: Letter: N Section 7 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5.5.94 Area: 10 Run: 73					
SITE ASSESSMENT	NMOCD Zone:    Land Type: BLM					
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS UP ON TOP  OF A MESA. REBLINE SHOWS LOCATION IS INSIDE THE V.Z. BUT TOPO SHOWS  THAT IT IS OUTSIDE THE V.Z.  PUSH IN					

(SP3190) 04/08/94

!	ORIGINAL	PIT LOCATION
7	Original Pit : a) Degrees from No	orth <u>3∞°</u> Footage from Wellhead <u>83′</u> Width : <u>18′</u> Depth : <u>3′</u>
ORIGINAL PIT LOCATION	18' 83	WELL PEAD
	Remarks:  TOOK PICTURES AT 9:15 A.M.  SERT DUMP TRUCK - BORTAIL	
REMARKS		
	Completed By:	
	Completed By:	5.5.94

(CDT4000) 04/07/04

## FIELD IT REMEDIATION/CLOSURY FORM

GENERAL	Meter: 87628 Location: Sammons D */  Coordinates: Letter: N Section 7 Township: 29 Range: 9  Or Latitude Longitude Longitude Date Started: 6-8-93 Area: 10 Run: 73
FIELD OBSERVATIONS	Sample Number(s): KD105  Sample Depth: 12 Feet  Final PID Reading 231 Pro PID Reading Depth 12 Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Dug test, Hole to 12', TOOK PID Sample, Closed Pit.  Signature of Specialist: My Jann  (SP3191) 04/07/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 105	945403
MTR CODE   SITE NAME:	87628	N/A
SAMPLE DATE   TIME (Hrs):	6-8-94	1400
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	6/10/94	(0)10/94
DATE OF BTEX EXT.   ANAL.:	NIX	~ th
TYPE   DESCRIPTION:	√ G	Conse Grey Brown Sand
		J

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#### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	2390	MG/KG			2.00	28
HEADSPACE PID	231	PPM				
PERCENT SOLIDS	92.4	%	at .	11.41.	. eg e <sup>r</sup>	

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

The Surrogate Recovery was at	AIA	_% for this sample	All QA/QC was acceptable
Narrative:	,		

DF = Dilution Factor Used

Nd D.D.

10/16/64

