DEPUTY ON & GAS INCOMPANDE

DEPUTY OIL & GAS INSPECTOR Meter Number: 72631

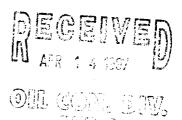
DEC 2 9 1997

Location Name: FEDERAL 28 #1 Location: TN-25 RG-09

SC-28 UL-A

2 - Federal
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.



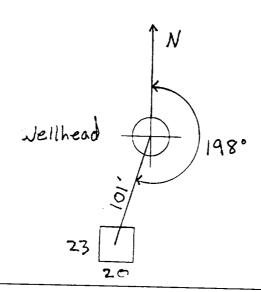
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 7263 Location: Federal 28 #1 (Abandoned) Operator #: 0825 Operator Name: Brannon P/L District: Balland Coordinates: Letter: A Section 28 Township: 25 Range: 9 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-29-94 Area: _// Run: 2_/							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Maps Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) 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 (10 points) (2) Greater Than 1000 Ft (10 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							
REMARKS	Remarks: Three pits. Dehy pit is dry, dehy still on location Outside V.Z. on Redline & Topo							

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 198 Footage from Wellhead 101

b) Length: <u>23</u> Width: <u>20</u> Depth: <u>4</u>



Photos- 0948

Well is abandoned

Completed By: /

Signature

6-29-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72631 Location: Federal 28 [#] 1 (Abandoned) Coordinates: Letter: A Section 28 Township: 25 Range: 9 Or Latitude Longitude Longitude Date Started: 9-28-94 Run: 11 21						
FIELD OBSERVATIONS	Sample Number(s): 12' Feet Sample Depth: 12' Feet Final PID Reading 484 PID Reading Depth 12' Feet Yes No Groundwater Encountered						
CLOSURE	Remediation Method: Excavation						
REMARKS	Remarks: Some Link markers. Dug down 12' Soil turned gray Looking. closed Pit Signature of Specialist: Kelly Palille						



Makurak Gas Company

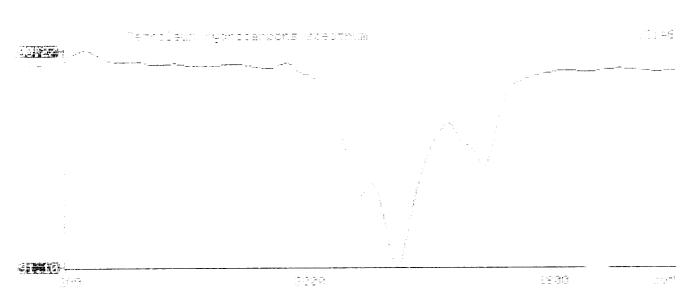
FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	DENTIFICA	TION			
	Field I	ID		Lab ID		
SAMPLE NUMBER:	KP 26	0	9463	46		
MTR CODE SITE NAME:	72631	N/A パステン				
SAMPLE DATE TIME (Hrs):	2-28-94					
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	9-39-					
DATE OF BTEX EXT. ANAL.:	13-3-94		forown Course sand			
TYPE DESCRIPTION:	√ Ģ	<u> </u>	1 WOW 1	<u>сінгуе.</u>)anc	
0514451/6						
REMARKS: _						
		RESULTS				
			T			
PARAMETER	RESULT	UNITS	QUALIFIERS			V(ml)
			DF	<u> </u>	M(g)	V(IIII)
BENZENE	40.50	MG/KG				
TOLUENE	2.4	MG/KG	1			
ETHYL BENZENE	0.49	MG/KG				
TOTAL XYLENES	4 .4	MG/KG	1			
TOTAL BTEX	13.3	MG/KG				
TPH (418.1)	233	MG/KG			2.02	28
HEADSPACE PID	484	PPM				
PERCENT SOLIDS	95.6	%				
	TPH is by EPA Method				bio	
The Surrogate Recovery was at	73	_% for this samp	DIE AII QA/QC	, was acce	glabie.	
Varrative:	A rachia.					

)F = Dilution Factor Used

Approved By: _





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409445

PROJECT # : 24324

ROJECT NAME : PIT CLOSURE

1 1/00 1						
SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946245	NON-AQ	09/28/94	10/03/94	10/10/94	50
08	946246	NON-AQ	09/28/94	10/03/94	10/06/94	1
09	946247	NON-AQ	09/28/94	10/03/94	10/06/94	1
PARAMETER			UNITS	07	08	09
BENZENE			MG/KG	3.6	<0.50	<0.025
TOLUENE			MG/KG		2.4	<0.025
ETHYLBENZENE			MG/KG	1.0	0.99	<0.025
TOTAL XYLENES			MG/KG	6.3	9.4	<0.025
SURRO	DGATE:					
BROMOFLUOROBENZENE (%)				37	73	9 6



ATI I.D. 409445

October 13, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/30/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager