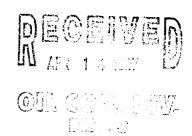
DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:89346 Location Name:HELEN JACKSON #6 Location:TN-29 RG-09 SC-34 UL-O

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.

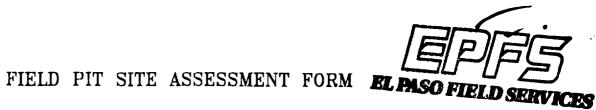
In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity 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.



GENERAL	Meter: 89346 Location: HELEN DACKSON #6 Operator #: 0203 Operator Name: AMOCO P/L District: BLANCO Coordinates: Letter: O Section 34 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5:14.94 Area: 03 Run: 42				
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM (1)				
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY LOCATION IS UP ON A HILL SOUTH OF LARGO WASH. REDUKE AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z. PUSH W				

7	ORIGINAL PIT LOCA Original Pit : a) Degrees from North <u>333°</u> b) Length : <u>14′</u> Width : _	
ORIGINAL PIT LOCATION	H' 5- WELLHEAD 3333	
REMARKS	Remarks: TOOK PICTURES AT 4:07 P.M 6:15-94 END DUMP	
	Completed By:	
	Cord Champson	5.14.94
1	Signature	Date

FIELD PIT REMEDIATION/CLOSUKE FORM

GENERAL	Meter: <u>89346</u> Location: <u>Helen Jackson</u> #6 Coordinates: Letter: <u>O</u> Section <u>34</u> Township: <u>79</u> Range: <u>9</u> Or Latitude Longitude Date Started: <u>8/23/94</u> Run: <u>O3</u> <u>42</u>
FIELD OBSERVATIONS	Sample Number(s): 12 Feet Sample Depth: 12 Feet Final PID Reading PID Reading Depth 12 Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name:
REMARKS	
	Signature of Specialist:

outside

FIELD SERVICES LABORATORY **ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID			Lab ID		
SAMPLE NUMBER:	V 2	36	945	996		
MTR CODE SITE NAME:	89344	o	N/A			
SAMPLE DATE TIME (Hrs):	9-23-9		13	1250		
SAMPLED BY:			/A			
DATE OF TPH EXT. ANAL.:	8-25-		3/	3125194		
DATE OF BTEX EXT. ANAL.:	83	20194	8/29/94			
TYPE DESCRIPTION:	V 6		Even fine Sand			
REMARKS:			V (
	F	RESULTS				
PARAMETER	RESULT	UNITS	DF	ERS M(g)	V(ml)	
	10.25			Q	ivity/	
BENZENE	40.25	MG/KG	10			
TOLUENE	20.25	MG/KG	10			
ETHYL BENZENE	7,3	MG/KG	10			
TOTAL XYLENES	140	MG/KG	10			
TOTAL BTEX	148	MG/KG				
TPH (418.1)	1530	MG/KG			2.09	28
HEADSPACE PID	170	PPM				
PERCENT SOLIDS	89.C	%				
"- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 The Surrogate Recovery was at 284 % for this sample All QA/QC was acceptable. Jarrative: ATI results allached. Surrogate recovery was						
outside	00 ITE	2 limit	s du	2 to m	sontal	inter
OF = Dilution Factor Used				9/30/4	t./	
\ \C_1 \ \ \C_2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Date:	71 9019	' V	

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GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408405

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945995	NON-AQ	08/23/94	08/28/94	08/28/94	1
02	945996	NON-AQ	08/23/94	08/28/94	08/29/94	10
03	945997	NON-AQ	08/23/94	08/28/94	08/29/94	1
PARAI	METER		UNITS	01	02	03
BENZ	ENE		MG/KG	<0.025	<0.25	<0.025
TOLU	ENE		MG/KG	<0.025	<0.25	<0.025
ETHY:	LBENZENE		MG/KG	<0.025	7.3	<0.025
TOTAL XYLENES			MG/KG	<0.025	140	0.027
SURR	OGATE:					
BROMOFLUOROBENZENE (%)				89	284*	76

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



ATI I.D. 408405

August 30, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/26/94, 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.

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure

