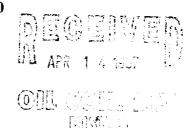
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Meter Number: 95922
Location Name: Jicarilla Contract 148 #40
Location: TN-25 RG-05
SC-13 UL-A

6 - Jicarilla
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.





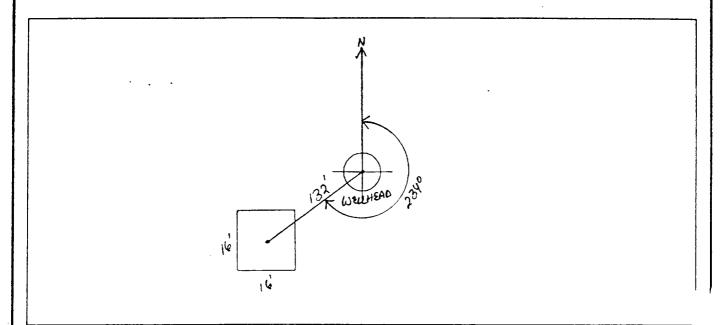
	FS/
el paso fiel	DSERVICES

GENERAL	Meter: 95922 Location: JICARILLA COMRACT 148 #40 Operator #: 0203 Operator Name: Amoco P/L District: 05170 Coordinates: Letter: A Section 13 Township: 25 Range: 5 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9.27.95 Area: 08 Run: 63						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside Outside (I) Fee (3) Indian TRARBINA APACHE Depth to Groundwater Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) 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? (1) YES (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 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						
REMAF"	REMARKS: REDLINE : TOPO SHOW LOCATION OUTSIDE V.Z. THERE ARE FOUR PITS ON THIS LOCATION. THE LOCATION DRIP PIT BELONGS TO EPNG. THE THREE OTHER PITS BELONG TO THE OPERATOR WILL CLOSE EPNG'S PIT. PUSH IN.						

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 234° Footage from Wellhead 132′

b) Length : 16 Width : 16 Depth : 2'



Remarks:

PHOTOS- 1200

Completed By:

Volut Champsen Signature

9.27.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 9592 Location: <u>Jicarilla contract 148</u> #40 Coordinates: Letter: A Section 13 Township: 25 Range: 5 Or Latitude Longitude Date Started: 10/5/95 Run: 08 63
FIELD OBSERVATIONS	Sample Number(s): 5/94 Sample Depth: 12' Feet Final PID Reading 53.0 PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-11-95 Pit Closed By: Philips
REMARKS	Remarks: Pit Pic Reachings W-11.0 (5-22.1) (E-65.3) (U-25.6) Vit Size 20×27×12 More Than 180' From EPhemral Strem Fencing 20 × 20 × 3 Nething Y N N Signature of Specialist: Specialist: Signature of Specialist: Specialist: Signature of Specialist: Special



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK 94	947590
MTR CODE SITE NAME:	95922	Jic. Contract 148 #40
SAMPLE DATE TIME (Hrs):	10-05-95	0948
PROJECT:	Nic Dits	
	10-6-76	
DATE OF TPH EXT. ! ANAL.:	101 100	101, 105
DATE OF BTEX EXT. ANAL.:	10/6/95	16/93
TYPE DESCRIPTION:	VG	DARK FROM DOLLA / Sugar
		ニー・・・・ アンカイド ホー 木 バジレーツ・・・・・ マミシィシ ターチール・シミモ

Field Remarks: $(N-11.0)(5-22.1)(E-65.3)(\omega-25.4)$

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER			DF	Q	M(g)	V(mi)
BENZENE	L 0.5	MG/KG				
TOLUENE	4 0.5	MG/KG				
ETHYL BENZENE	4 0,5	MG/KG			·	
TOTAL XYLENES	3.7	MG/KG				
TOTAL BTEX	3.7	MG/KG				
TPH (418.1)	207	MG/KG			2,00	23
HEADSPACE PID	53.0	PPM				
PERCENT SOLIDS	90.5	%				

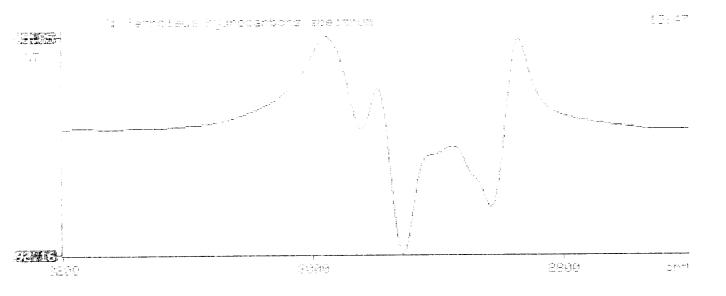
 ТРН	is by	EPA	Method	418.1	and	BTEX	is t	by EPA	Method	8020	

The Surrogate Recovery was at	97%	for this sample	All QA/QC was acceptable
Narrative:			

Pample identification 147590 nutual mass of sample, g 1.170 Colume of sample after extraction, ml 18.000

25/10/06 15:47

Pytroleum hydrocarbons, ppm pro 472 Heg absorbance of hydrocarbons (2930 cm-1)



BTEX SOIL SAMPLE WORKSHEET

Fil	e :	947590	Date Printed :	10/7/95
Soil Mas	s (g):	5.04	Multiplier (L/g) :	0.00099
Extraction vo	I. (mL):	10	DF (Analytical) :	200
Shot Volum	e (uL) :	50	DF (Report) :	0.19841
				Det. Limit
Benzene	(ug/L):	0.67	Benzene (mg/Kg):	0.133 0.496
Toluene	(ug/L) :	1.39	Toluene (mg/Kg):	0.276 0.496
Ethylbenzene	(ug/L):	1.78	Ethylbenzene (mg/Kg):	0.353 0.496
p & m-xylene	(ug/L) :	14.80	p & m-xylene (mg/Kg):	2.937 0.992
o-xylene	(ug/L):	3.73	o-xylene (mg/Kg):	0.740 0.496
-			Total xylenes (mg/Kg):	3.677 1.488
			Total BTEX (mg/Kg):	4.438

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100695-0.002 Method : C:\LABQUEST\METHODS\0-092095.MET

Sample ID : 947590,5.04G,50U Acquired : Oct 06, 1995 16:11:48 Printed : Oct 06, 1995 16:42:16

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.173	248871	0.6651
a,a,a-TFT	10.517	9195275	105.1059
TOLUENE	12.933	504167	1.3853
ETHYLBENZENE	17.257	598667	1.7784
M, P-XYLENES	17.640	5756391	14.7524
O-XYLENE	18.810	1198731	3.7272
BFB	19.877	53027912	97.2845

