Denny & Fourt

DEC 0 2 1997

Meter Number:94924 DEPUTY OIL & GAS INSPECTOBocation Name: Mesa Twin Mounds #1 - 30 GL Location:TN-30 RG-14 SC-30 UL-D 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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clay

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.

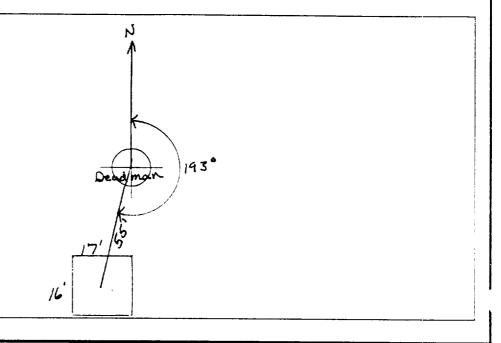
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 74924 Location: Mesa Twin Mounds 1-30 GL Operator #: 4391 Operator Name: Conditates: Letter: Description Section 30 Township: 30 Range: 14 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 10-17-95 Area: 02 Run: 23
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Less Than 50 Feet (20 points) Land Type: BLM (1) State (2) Fee (3) Indian (1) Fee (3)
SITE ASSESSMENT	So Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)
	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) ☒ (2) NO (0 points)
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)
	(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
REMARK,	Remarks: Pratoc. Topo shows outside UZ. Not in my Redline 4 pits on Loc. 1.1 Rig Blow pit 2.1 Seperator pit 3. Loc Drip 4) De loc. Diric both belong to EPNG will close both
REN	4) = loc Drips both belong to EPNG will close both Loc. Drips.

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 193° Footage from Wellhead 55'



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Re	ma	ırk	3	•

Photos 10:05 4 pict.

P+A Loc.

Completed By:

Signature

10-17-95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94924 Location: Mesa Twin Mounds #1-30 GL. Coordinates: Letter: Description Solution Solution Range: 14 Or Latitude Longitude Longitude Date Started: 10-23-95 Run: 02 23
FIELD OBSERVATIONS	Sample Number(s): Sample Depth: Feet Final PID Reading Yes No Groundwater Encountered Approximate Depth Feet Feet
SURE	Remediation Method: Excavation
CLOS	Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-23-95 Pit Closed By: PKIP Env
KEMARKS	Remarks: Dug 2 ft below between of pit + hit sandstone, Take PID it was 4 ppm. Wed 10 chyd backfill. Fencing: 75 x 25 Notting: NO Signature of Specialist: Lamed I Tewar
	(SP3191) 03/16/94



FIELD SERVICES LABORATORY **ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID	
SAMPLE NUMBER:	JP66	947690	
MTR CODE SITE NAME:	94924	MesaTwinMounds #1-30 6	L
SAMPLE DATE TIME (Hrs):	10-23-95	1700	
PROJECT:	Phase		
DATE OF TPH EXT. ANAL.:	10/25/85		
DATE OF BTEX EXT. ANAL.:	10/24/95	10/24/95	
TYPE DESCRIPTION:	VG	Light Dours Sand & Brastone -	
		1	
Field Remarks:			
	RESULTS		- 154 - 154

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF Q	M(g) V(ml)		
BENZENE	4 0.5	MG/KG				
TOLUENE	L 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	415	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	149	MG/KG		2.01 28		
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	91.8	%				

PERCENT SOLIDS	91.8	%	
The Surrogate Recovery was at	- TPH is by EPA Method 98%	418.1 and BTEX is by EP/	A Method 8020 All QA/QC was acceptable.
Narrative:			
DF = Dilution Factor Used		·	10.00
Approved By:			Date: 10-26-95

BTEX SOIL SAMPLE WORKSHEET

Fil	e :	947690	Date Printed	: 1	0/25/95	
Soil Mas	s (g) :	5.01	Multiplier (L/g)	: (0.00100	
Extraction vo	I. (mL) :	10	CAL FACTOR (Analytica	ıl):	200	
Shot Volum	e (uL) :	50	CAL FACTOR (Repor	t): (0.19960	
			DILUTION FACTO	R:	1	Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/K	g):	0.000	0.499
Toluene	(ug/L) :	0.97	Toluene (mg/K	g):	0.194	0.499
Ethylbenzene	(ug/L) :	0.17	Ethylbenzene (mg/K	g):	0.034	0.499
p & m-xylene	(ug/L) :	0.36	p & m-xylene (mg/K	g):	0.072	0.998
o-xylene	(ug/L) :	0.00	o-xylene (mg/K	g):	0.000	0.499
			Total xylenes (mg/K	g):	0.072	1.497
			Total BTEX (mg/K	g):	0.299	

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\102495-1.003 Method : C:\LABQUEST\METHODS\1-101395.MET

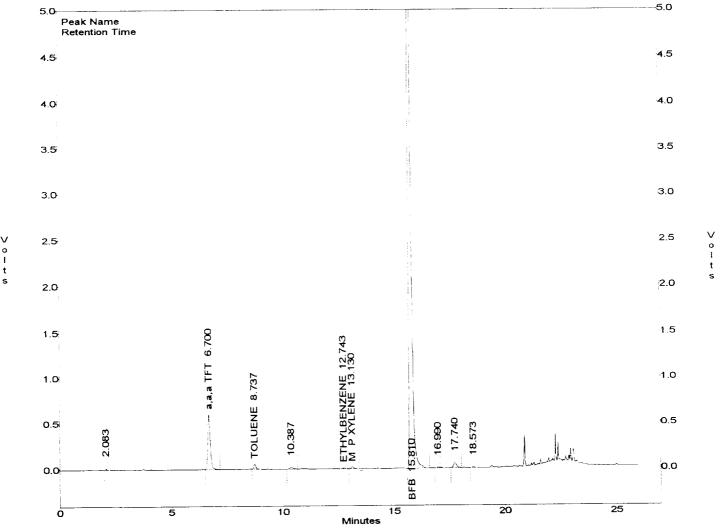
Sample ID : 947690,5.01G,50U Acquired : Oct 24, 1995 14:40:50 Printed : Oct 24, 1995 15:07:11

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.873	0	0.0000
a,a,a TFT	6.700	4503441	100.5374
TOLUENE	8.737	350301	0.9737
ETHYLBENZENE	12.743	57441	0.1735
M & P XYLENE	13.130	147530	0.3644
O XYLENE	14.223	0	0.0000
BFB	15.810	67832840	98.4202

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Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

*

95/10/25 14:59

Sample identification 947690

Initial mass of sample, g 2.010

Volume of sample after extraction, ml 28.000

Fetroleum hydrocarbons, ppm 148.549

Net absorbance of hydrocarbons (2930 cm-1)

0.028

