DEPUTY OIL & GAS INSPECTOR

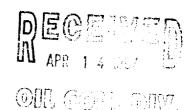
DEC 3 0 1997

Meter Number: 87567 Location Name: LIVELY #8, Pit 1 Location: TN-29 RG-08

SC-12 UL-N 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.

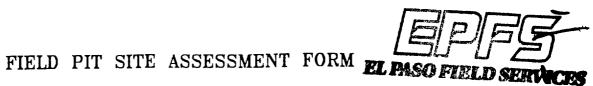
There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

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:

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.

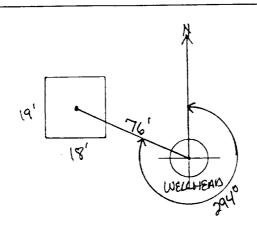


GENERAL	Meter: 87567 Location: LVELY #8, Pit 1 Operator #: Operator Name: LIVELY EXPLOY. P/L District: BLOOMFIELD Coordinates: Letter: N Section 12 Township: 29 Range: _8 Or
	NMOCD Zone: Land Type: BLM ☐ (1) (From NMOCD State ☐ (2) Maps) Inside ☐ (1) Fee ☐ (3) Outside ☐ (2) Indian ☐ Depth to Groundwater ☐ (1) ☐ (1) Less Than 50 Feet (20 points) ☐ (1) 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☐ (3)
ASSESSMENT	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)
SITE ASSE	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)
	TOTAL HAZARD RANKING SCORE: POINTS
REMARI	REMOTES: BEDLINE & TOPO SHOW LOCATION OUTSIDE U.Z. TWO PITS ON LOCATION. DLD DEHY PIT HAS NO FENCE AND IS MOSTLY FILLED IN. BELONGS TO EPNG. SEPERATOR PIT IS NEXT TO WELLHEAD AND IS IN-OPER. NOT SURE OF OWNERSHIP. ASSESSED BOTH PITS TO BE CLOSED. PUSH IN

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 294° Footage from Wellhead 76′

b) Length : 13' Width : 13' Depth : 1'



Remarks	:

PHO103-1258

Completed By:

Signature

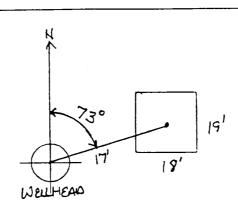
2.22.95 Date

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87567-2 Location: LIVELY #8, Pit 2 Operator #: Operator Name: LIVELY EXPLOR.P/L District: BLOOMFIELD Coordinates: Letter: N Section 12 Township: 29 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Other: SSPSEATOR Site Assessment Date: _2.22.95
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Less Than 50 Feet (20 points) Land Type: BLM State (1) Fee (2) Indian Indian (1) (1)
ASSESSMENT	50 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)
SITE ASS	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 HADARD REPORTED TO THE PROPERTY OF THE P
RI	REMarks: REDLINE : TOPO SHOW LOCATION BUTSIDE V.Z. TWO PITS ON LOCATION, OLD DEHY PIT HAS NO FENCE AND IS MOSTLY FILLED IN.
REMARI	BELONGS TO EPING, SEPERATOR PIT IS NEXT TO WELLHEAD AND IS IN-OPER.
RE	NOT CURE OF TUNERSHIP ACCESSED BOTH PITS TO BE CLOSED, PUSH IN

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 73° Footage from Wellhead 17'



Remarks	:

PHOTOS-1304

Completed By:

Signature

2.22.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 8756 T Location: Lively #8 Coordinates: Letter: 丛 Section 1 Township: 29 Range: 8 Or Latitude Longitude Date Started: 3-2-95 Run: 10 72
FIELD OBSERVATIONS	Sample Number(s): MK414 Sample Depth: 8' Feet Final PID Reading OctoPPM PID Reading Depth 3' Feet Yes No Groundwater Encountered \(\begin{array}{c c} \omega & \text{Approximate Depth} & \omega & \text{Feet} \end{array} \)
CLOSURE	Remediation Method : Excavation
D	Envirotech Tierra Other Facility Name: Pit Closure Date:3-2-95 Pit Closed By: BEJ
REMARKS	Remarks: Arrived Oug sam ple Hole pit appeared to be Clear all the way Through It ROCK 3' Soil Fan No Hi Oro Curbon odor
	Signature of Specialist: Morgan Xiceion (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

Field I	D		Lab ID		
mk 414		944	944722		
87567)	N/A 6845			
3-2-9	<u>s</u>				
N/A					
3/3/95		3/3/95			
٦١٦		NIA			
v		Light Dro	Light brown time sand		
R	ESULTS				
RESULT	UNITS		QUALI	FIERS	
112002.		DF	Q	M(g)	V(ml)
47.7	MG/KG			2.19	28
0	PPM				
94.2	%	·			
	- TPH is by EPA Meti	hod 418.1			
	MK 4 87567 2-2-9 3/3/9: PIA VG	3/3/95 PIR VG RESULTS RESULT UNITS 47.7 MG/KG PPM 94.2 %	MK 414 944 944 87567 3-2-95 08 N/A 3/3/95 3. N/A N	## 946727 ## 946727 ## 87567 ## 8	## 944727 ## 944727 ## 97567 ## 10845 N/A ## 3/3/95 **N/A ## 3/3/95 **N/A ## 3/3/95 **DIA

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report *******************

95/03/03 15:34

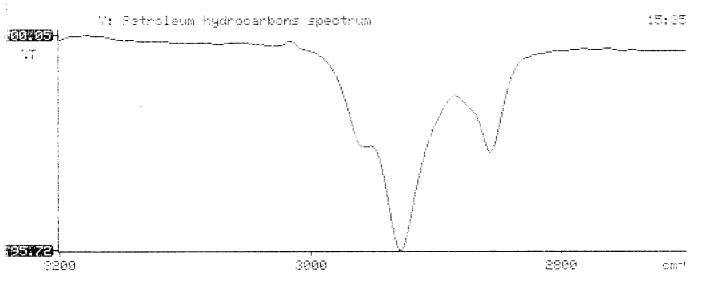
Sample identification 746722

Initial mass of sample, g

Volume of sample after extraction, ml 29.000

1 Patroleum hydrocarbons, ppm

Net absorbance of hydrocarbons (2730 cm-1) 0.018



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