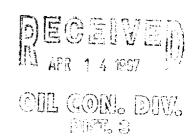
DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number: 72623
Location Name: CALLOW #12
Location: TN-29 RG-13
SC-33 UL-B

4 - Fee

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.

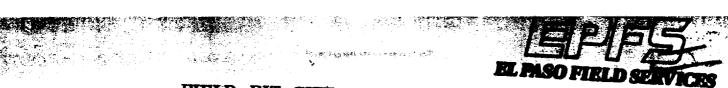
In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity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

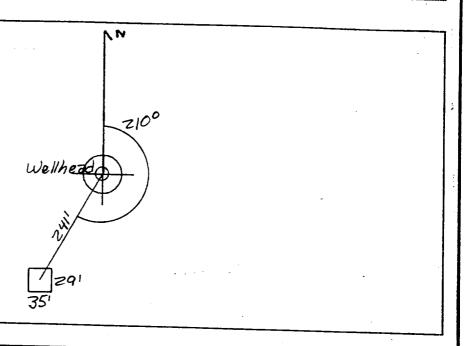
- cattery	GENERAL	Meter: 72-623 Location:						
1		NMOCD Zone: Land Type: Div (1)						
		(From NMOCD Land Type: BLM (1)						
		Maps) Inside ☐ (1) State ☐ (2) Fee ☐ (3)						
	ı	Outside (2) Indian						
		Depth to Groundwater						
		Less Than 50 Feet (20 points) (1)						
	I	50 Ft to 99 Ft (10 points) (2)						
	ļ	Greater Than 100 Ft (0 points) 🔯 (3)						
l Z		Wellhead Protection Area:						
ASSESSMENT		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)						
N.S.A		Horizontal Distance to Surface Water Body						
SITE 4	· I	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 San Juan River (Surface Water Body: Barreni L. B.						
		(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)						
		Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)						
		$\square (2) > 100' (Navajo Pits Only)$						
		TOTAL HAZARD RANKING SCORE: POINTS						
KS	$\overline{}$	Remarks: Redline Book - Outside VI 112 - Outside						
TAR								
REMARKS	-	one pit. Will close						
		PUSH TI						

该价价 古内别的PSS 证证

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 210° Footage from Wellhead 241'

b) Length : 35^{1} Width : 29^{1} Depth : 4^{1}



Remarks:

ORIGINAL PIT LOCATION

REMARKS

Pictures @ 1755 Roll Z

Dump Truck

Redline book shows location in unit C, location sign

Says unit

Completed By:

Signature

FL.D PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72623 Location: <u>Callow well # 12</u> Coordinates: Letter: <u>B</u> Section <u>33</u> Township: <u>29</u> Range: <u>13</u> Or Latitude Longitude Date Started: <u>10.7.99</u> Run: <u>01</u> <u>31</u>							
FIELD OBSERVATIONS	Sample Number(s): Kf 303 Sample Depth: 5' Feet Final PID Reading 298 Yes No Groundwater Encountered Approximate Depth Feet							
CLOSURE	Remediation Method: Excavation							
REMARKS	Pit Closure Date: 10-7-94 Pit Closed By: BET Remarks: Some Line markers: Pit Has oil & WAter in it. Hit SAND Stone At S'							
	Signature of Specialist: Kelly Podille							



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID		Lab ID				
SAMPLE NUMBER:	KP 303		946362				
MTR CODE SITE NAME:	10/10/9 72633		N/A				
SAMPLE DATE TIME (Hrs):	10-7-9-		0835				
SAMPLED BY:							
DATE OF TPH EXT. ANAL.:	10-13-						
DATE OF BTEX EXT. ANAL.:				Ą			
TYPE DESCRIPTION:	V G		Brown (Brown course sand			
		RESULTS					
DADAMETED	RESULT	UNITS		QUALIFIERS			
PARAMETER	NEOCE:		DF	Q	M(g)	V(ml)	
TPH (418.1)	278CC	MG/KG			C.33	28	
HEADSPACE PID	398	PPM					
PERCENT SOLIDS	89.7	%					
arrative:		TPH is by EPA Metho	od 418.1				

94/10/13 13:35

Sample identification 946362

Initial mass of sample, g

Volume of sample after extraction, $\varpi 1.28.000$

Petroleum hydrocarbons, ppm 27781.298

Net absorbance of hydrocarbons (2930 tm-1) 0.569

