DEPUTY OIL & GAR INSPECTOR

DEC 2 9 1997

Meter Number:71528
Location Name:HUERFANITO #56-23

Location:TN-27 RG-09 SC-23 UL-B

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 DECEIVED N APR 1 4 1997

OIL COM. DIV. Dist. 3

# 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

GENERAL	Meter: 71528 Location: HUERFANITO # 56-23  Operator #: Operator Name: MEDIAN P/L District: BALLARD  Coordinates: Letter: 3 Section 23 Township: 27 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Cther:  Site Assessment Date: 1.19.95 Area: 11 Run: 71
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Land Type: BLM (1)  State (2)  Fee (3)  Indian  Indian
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) 🛛 (3)
SITE 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)
	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
K.	Remarks: REDUME SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE U.Z. ONLY
REMARK	PIT ON LOCATION BELONGS TO FANG. WILL CLOSE PIT.
E	PICH IN

	ORIGINAL PIT LOCATION	N	
Z	Original Pit : a) Degrees from North <u>263°</u> Foo b) Length : <u>26′</u> Width : <u>20</u>	otage from Wellhead <u>104</u> 	<i>'</i>
ORIGIN L PIT LOCATION	26' 104' WELLHEAD 33' 26'		
	Remarks: PHOTOS-1138		_
S			<u>-</u>
REMARKS			_
Η			<u>-</u>
			_ _
	Completed By:		
	total Champson	1.19.95	
	Signature <sup>1</sup>	Date	

#### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71528 Location: Hvek Fanito *56-23  Coordinates: Letter: B Section 23 Township: 27 Range: 9  Or Latitude Longitude  Date Started: 2-8-95 Run: // 7/
FIELD OBSERVATIONS	Sample Number(s): MK367  Sample Depth: 12' Feet  Final PID Reading 6/8 PID Reading Depth 12' Feet  Yes No  Groundwater Encountered \( \boxed{\text{X}} \) Approximate Depth \(
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Arrived Ong sample Hole Soil was Gray & Black  Gil the way through Soil Black strong 144000 corbon ador  Signature of Specialist: Morgan Keelion



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	TION		· ·	
_	Fiel	ld ID		Lab ID		
SAMPLE NUMBER:	MK 36	,7	946652 N/A			
MTR CODE   SITE NAME:	7152	8				
SAMPLE DATE   TIME (Hrs):	2-8-95		1325			
SAMPLED BY:	N/A					
DATE OF TPH EXT.   ANAL.:	2-10	. 95	Dark Gray w/ Black some are			
DATE OF BTEX EXT.   ANAL.:	NIN					
TYPE   DESCRIPTION:	76		Dark Gran	21 8/256 20	clima	
	DESUIT UNITS		QUALIFIERS			
DADAMETED	RESULT	UNITS				
PARAMETER	RESULT	UNITS	DF	Q	M(g)	V(ml
PARAMETER TPH (418.1)	RESULT	MG/KG	DF			28
			DF		M(g)	
TPH (418.1) HEADSPACE PID	3420 618	MG/KG	DF		M(g)	
TPH (418.1)	3420	MG/KG PPM %			M(g)	
TPH (418.1) HEADSPACE PID	3420 618	MG/KG PPM			M(g)	

Date: 2-22-45-



