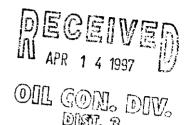
DENUTY OIL & GAS MISTECTOR

DEC 2 9 1997

Meter Number:89433
Location Name:VALENCIA CANYON UNIT #2

Location:TN-28 RG-04 SC-27 UL-A 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:

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 EL PASO FIELD

GENERAL	Meter: 89433 Location: VALBUCIA CANYON UNIT #2 Operator #: 0203 Operator Name: AMOCO P/L District: BCOMFRED Coordinates: Letter: A Section 27 Township: 28 Range: 4 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5-15-94 Area: 10 Run: 62				
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM (1) (From NMOCD State (2) Maps Inside (1) Fee (3) Outside (2) Indian Depth to Groundwater Forest E Less Than 50 Feet (20 points) (1) 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) Horizontal Distance to Surface Water Body (1) 200 Ft to 1000 Ft (20 points) (2) (3) Name of Surface Water Body (3) (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				
REMARKS	Remarks: TWO PITS ON LOCATION, ONE PIT TO BECLOSTED				

ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North 13° Footage from Wellhead 10′ b) Length : 21′ Width : 21′ Depth : 4′
REMARKS	Remarks: PHOTOGRAPAS AH-6 (14-17) Completed By:
	Mu S. Hawin 5-15-94 Signature Date

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FIELL PIT REMEDIATION/CLOSURL FORM

GENERAL	Meter: \(\frac{79433}{9433}\) Location: \(\frac{ValenciA}{2} \) Coordinates: Letter: \(\frac{A}{2} \) Section \(\frac{27}{17} \) Township: \(\frac{28}{28} \) Range: \(\frac{24}{24} \) Or \(\text{Latitude} \) Longitude \(\frac{10}{27} \) Run: \(\frac{62}{24} \) Date Started: \(\frac{7-7-94}{2} \) Area: \(\frac{10}{2} \) Run: \(\frac{62}{2} \)				
FIELD OBSERVATIONS	Sample Number(s): MK/OL Sample Depth: 12' Feet Final PID Reading 310 PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet				
CLOSURE					
REMARKS	Remarks: <u>EPNG lipes marked soil Brown NO HYDrocarbon</u> - Dor Pit Had litol" of Drip In bottom Signature of Specialist: <u>Morgan Killion</u> (50181) 04/07/28				



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 102	945615
MTR CODE SITE NAME:	89433	N/A
SAMPLE DATE TIME (Hrs):	7/7/94	1639
SAMPLED BY:		N/A
CATE OF TPH EXT. ANAL.:	7-12-94	7/12/94
DATE OF BTEX EXT. ANAL.:	NIA	N/A
TYPE DESCRIPTION:	V G	Brown Soud Chy

REMARKS:		

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	185	MG/KG			2.03	28
HEADSPACE PID	310	PPM				
PERCENT SOLIDS	89,9	%				

- TPH is by EPA Method 418.1 and BTEX is bit	y EPA Method	8020 -

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

OF = Dilution Factor Used

7/17/11

********* *************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report ************************************** ILLEGIBLE 74/07/12 09:13 Bample identification

745615

Initial mass of sample, g

Volume of sample after extraction, ml 18.000

Patroleum hydrocarbons, ppm

Het absorbance of hydrocarbons (ZVIO cm-1)

