Denny L. Fourt DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:93620
Location Name:HOWELL #1E
Location:TN-30 RG-08
SC-03 UL-C
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

DECEIVED N APR 1 4 1997

OIL CON. DIV. Dist. 2

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



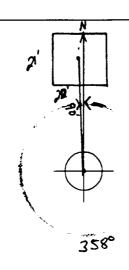
GENERAL	Meter: 93620 Location: Howell # 18 Operator #: 5540 Operator Name: Explosure P/L District: Bloomfield Coordinates: Letter: C Section 3 Township: 30 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.24.94 Area: 10 Run: 32						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Feet (3) Feet (3) Feet (3) Depth to Groundwater Less Than 100 Ft (0 points) Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, cr; 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) (2) Greater Than 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: O POINTS						
REMAR _{nS}	Remarks: THREE PITS ON LOCATION, WILL CLOSE ONLY ONE, PIT IS DRY. LOCATION IS ON TOP OF PUMP MESA. REDUNE AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z.						
RE	Pusit IN						

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North <u>358°</u> Footage from Wellhead <u>90′</u>

b) Length : _______ Width : _______ Depth : ______ 4'_____



TOOK PICTURES AT 9:01 A.M.

amud ans

Completed By:

Signature

5.24.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93620 Location: Howell # 1E Coordinates: Letter: C Section 3 Township: 30 Range: 8 Or Latitude Longitude Date Started: 11/18/94 Run: 10 32
FIELD OBSERVATIONS	Sample Number(s): Kp 370 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
	Soil Disposition: Envirotech
REMARKS	Remarks: Duy test Hole to 4', Hit Sandstone, TOOK DID Sample, Closed pit.
	Signature of Specialist: hwy hww (SP3181) 03/16/84



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID			
SAMPLE NUMBER:	KD 3-	7 D	9262	39			
MTR CODE SITE NAME:	93620		N/A				
SAMPLE DATE TIME (Hrs):	11 - 18 - 9	1	122	2			
SAMPLED BY:		Α					
DATE OF TPH EXT. ANAL.:	11-22.	94	11-22-94				
DATE OF BTEX EXT. ANAL.:		بدا ل ر		NIA			
TYPE DESCRIPTION:	V G						
REMARKS:						, 	
		RESULTS					
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g)			V(mi)	
TPH (418.1)	14.0	MG/KG			1.97	2%	
HEADSPACE PID	7	PPM					
PERCENT SOLIDS	90.3	%					
		TPH is by EPA Method	d 418.1				
Narrative:							_
DF = Dilution Factor Used							
Approved By:	<u> </u>		Date:	12-6-	-q×		

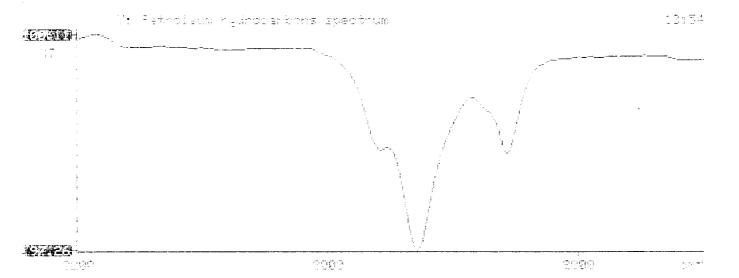
************************ Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR

94/11/22 10:54 Sample identification 046489 inchial ness of santle, g 1970 Volume of sample ifter extraction, ml CSLOCCPermoleum hydrocarbons, pom 1.4.045 Net absorbance of hidrocarbons (2730 cm-1) 0.012

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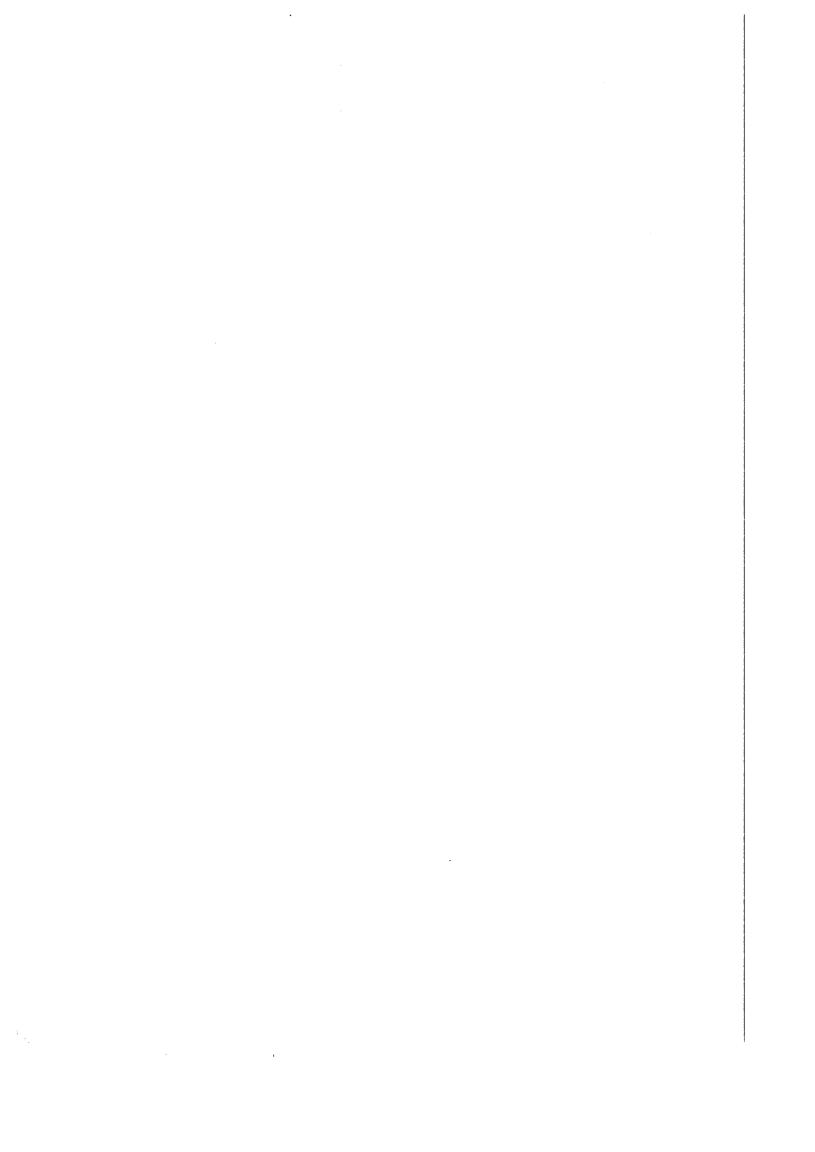
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T LTR



Job separation sheet



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate District Office

Form C-104B

March 19, 2001

Change of Operator Name

	2	9				
OGRID:	12807					
Effective Date:	01/02/2002					
Previous Ope	erator Name and Informat	tion: New	Opera	itor Name and Information:		
Name:	Koch Exploration Comp	pany New N	lame:	Koch Exploration Company, LLC		
Address:	PO Box 489	Add	dress:	PO Box 489		
Address:	Aztec, NM 87410	Add				
City, State, Zip:	Aztec, NM 87410	City, State,	, Zip: _	Aztec, NM 87410		
	5) 334-9111		MAY 2002			
			<u>NMO</u>	CD Approval		
		Signature:				
		Printed Name:				
		District:				

Date: