DEPUTY OIL & GAS INSPECTOROCAL

DEC 2 9 1997

Meter Number: 75699

ocation Name:FEDERAL #16 DK,MV MV-PIT1

Location:TN-27 RG-08 SC-09 UL-M

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

GENERAL	Meter: 75699 Location: FEDERAL* 16 DK, MV (MV-PIT)  Operator #: 0286 Operator Name: CONOCO P/L District: RALLARO  Coordinates: Letter: M. Section 9 Township: 27 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: 6.20.94 Area: C7 Run: 21
	NMOCD Zone:       Land Type:       BLM          \( \) (1)         (From NMOCD       State       (2)         Maps)       Inside       (1)       Fee       (3)         Outside       (2)       Indian       Indian         Depth to Groundwater       (1)       (1)         Less Than 50 Feet (20 points)       (1)       (2)         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 ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)
	(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: THREE PITS ON LOCATION, WILL CLOSE TWO OF THEM, PITS ARE
MA1	DRY LOCATION IS ON TOP OF HOLLIS PASS ON BLANCO MESA, REDLINE AND TOPO CONFIRMED LOCATION IS OUTSIDE U.S.
RE	AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z.  PUSH IN

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7569 Location: Feleral # M M M Coordinates: Letter: M Section 9 Township: 27 Range: 9  Or Latitude Longitude  Date Started: 9-27-94 Run: 97 21
FIELD OBSERVATIONS	Sample Number(s): 16345  Sample Depth: 4 Feet  Final PID Reading 2/7 PID Reading Depth 4 Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: 15 Sadstone 10 yds Fill  Signature of Specialist: Vall yww.  (SP3191) 03/16/84

## . Lural Gas Company

# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

### SAMPLE IDENTIFICATION

•	Field	ID .		Lab ID		
SAMPLE NUMBER:	VW 345	RLB9/26/95	946	233		
MTR CODE   SITE NAME:	75-94	95699		N/A		
SAMPLE DATE   TIME (Hrs):	9-27-9	1	131	٥		
SAMPLED BY:		N/	Α			
DATE OF TPH EXT.   ANAL.:	e. 29-	97	9-7	9-94		
DATE OF BTEX EXT.   ANAL.:	NIA		NIE		<u> </u>	
TYPE   DESCRIPTION:	V (~		Park brow	on Sout	& clay	
_					l	
REMARKS:						
<b>-</b>		DECLUITO				
_		RESULTS				
				<del></del>		
PARAMETER	RESULT	UNITS	DF	QUALIFI	ERS M(g)	V(mi)
	<del></del>		Dr		<del></del>	28
TPH (418.1)	1390	MG/KG			2.01	28
HEADSPACE PID	217	PPM				
	82.8	%				
PERCENT SOLIDS	<u> </u>	TPH is by EPA Metho	od 418.1	<u> </u>		
Narrative:						
DF = Dilution Factor Used						**
<b>\</b> \ \				1.1		

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

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

94/09/29 11:21

Sample identification 946233

Initial mass of sample, g 1.010

Volume of sample after extraction, ml 000.80

Petroleum hydrocarbons, ppm 1290.230

Net absorbance of hydrocarbons (2930 cm-1) 1.168



\* \*

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Network Gas Company

CHAIN OF CUSTODY RECORD

SUECT NUMBER PROJECT NAME				BEOLIFSTED ANALYSIS		CONTINCT LABORATORY P. O. NUMBER
	Pit Closure Project # 24324	_				
WPLERS: (Symphon)	11 620 1123/44/2K	MUM JA MIATMO BJAMAS BJAYT		8050 EX	#	
ABID DATE TIME MATRIX	IX SAMPLE NUMBER		дТ . АЧЭ	EPA	bas	REMARKS
20 9-27-11 940 SOI 14J 342	1 W 342	1 1/6	$\times$		300	
(3) 4.27% 1100 SOI	50il 1/W343	1 1/4	×		307	
132 9.27-84 1360 50:1	JW344	1 1/6	×		308	
1.23 9.27 14 1310 501	1 V4345	1 1/6,	×		309	
	1 10346	1 1/4	×		310	
		\ <i>\\</i>				
						- /
LINQUISHED BY: (Signature)	DATE/TIME ST HECEWED BY (Signature)	influent		HETINOPISHED BY (Squature)		DATE/TIME OF RECEIVED BY: (Signature)
Vale M. (Man)	927-941700 1/24 / LLC	C X 11.	シン	NELINQUISHED BY: (Signatura)	14000	DATE/TIME RECEIVED OF LABORATORY BY: (Signature)
					· :	X:X -X
COLESTED TURNAROUND TIME:	SAMPLE RECEIPT HE MARKS	RE MARIKS			RESULTS & INVOICES TO:	
VARIER CO.						P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
TNO:	CHARGE CODE				505-599-2144	FAX: 505-599-2261

itte - Testing Laboratory Ganary - EPNG Lab Pink - Field Sampler