

RECEIVED
APR 1 1997
OIL CONSERVATION
DIVISION

DEC 1 1997

Approved

Meter Number:94232
Location Name:STATE GAS COM BP #1 CH
Location:TN-29 RG-09
SC-32 UL-G
1 - State
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.

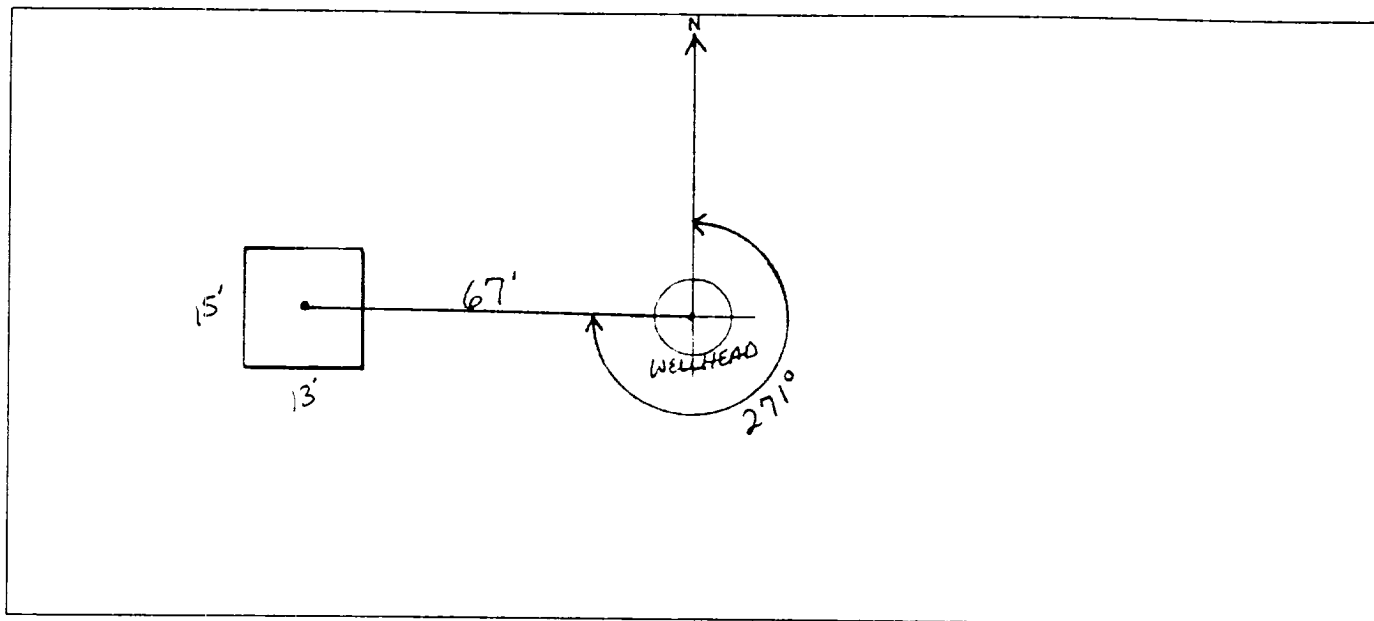
FIELD PIT SITE ASSESSMENT FORM



GENERAL	Meter: <u>94232</u> Location: <u>STATE GAS COM BP #1 CH</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLANCO</u> Coordinates: Letter: <u>G</u> Section <u>32</u> Township: <u>29</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: ☒ Line Drip: _____ Other: _____ Site Assessment Date: <u>5.14.94</u> Area: <u>03</u> Run: <u>42</u>																
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Land Type: <table border="0"> <tr> <td>Inside</td> <td>☐ (1)</td> <td>BLM</td> <td>☐ (1)</td> </tr> <tr> <td>Outside</td> <td>☒ (2)</td> <td>State</td> <td>☒ (2)</td> </tr> <tr> <td></td> <td></td> <td>Fee</td> <td>☐ (3)</td> </tr> <tr> <td></td> <td></td> <td>Indian</td> <td>_____</td> </tr> </table> Depth to Groundwater 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 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: <u>0</u> POINTS	Inside	☐ (1)	BLM	☐ (1)	Outside	☒ (2)	State	☒ (2)			Fee	☐ (3)			Indian	_____
Inside	☐ (1)	BLM	☐ (1)														
Outside	☒ (2)	State	☒ (2)														
		Fee	☐ (3)														
		Indian	_____														
REMARKS	Remarks : <u>THREE PITS ON LOCATION. WILL CLOSE TWO OF THEM. PIT IS DRY.</u> <u>LOCATION IS ON A MESA SOUTH OF SULLIVAN RD. REDLINE AND TOPO</u> <u>CONFIRMED LOCATION TO BE OUTSIDE U-Z.</u> PUSH IN																

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 271° Footage from Wellhead 67'
b) Length : 15' Width : 13' Depth : 3'



Remarks :

TOOK PICTURES AT 11:48 A.M.

DUMP-TRUCK BOBTAIL

Completed By:

Robert Thompson

Signature

5.14.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94232</u> Location: <u>STAT Gas com BP #1 CH</u> Coordinates: Letter: <u>6</u> Section <u>32</u> Township: <u>29</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Date Started : <u>7-27-94</u> Run: <u>03</u> <u>42</u>
FIELD OBSERVATIONS	Sample Number(s): <u>mK 185</u> Sample Depth: <u>4'</u> Feet Final PID Reading <u>156</u> PID Reading Depth <u>4'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation Onsite Bioremediation Backfill Pit Without Excavation ☐ Approx. Cubic Yards _____ ☐ ☒ Soil Disposition: Envirotech ☐ Other Facility ☐ ☐ Tierra Name: _____ Pit Closure Date: <u>7-27-94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>EPNG lines marked Soil Brown slight HYDROcarbon odor Hit sand stone 4</u>
	Signature of Specialist: <u>Morgan Killian</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

Field ID

Lab ID

mk185	945774
94232	N/A
7-27-94	1002
N/A	
7/28/94	7/28/94
N/A	N/A
1G	Coarse Brown Sand

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)	836	MG/KG			2.28	28
HEADSPACE PID	156	PPM				
PERCENT SOLIDS	90.4	%				

— TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 —

The Surrogate Recovery was at
Narrative:

N/A

% for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

J.P.

Date:

8/8/94

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
Perkin-Elmer Model 1600 FT-IR
Analysis Report

NOTICE 1436

Sample Identification

1. Sample Name: Sample 1
2. Sample ID: 110

3. Sample Location: Room 1000, Box 100
4. Sample Date: 1/1/00

5. Sample Description: Soil

6. Sample Weight: 10.00 g (10.00 g)

7. Sample Preparation: Ground

8. Sample Storage: Room 1000, Box 100

9. Sample Analysis: 1/1/00