

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Meter Number:93708
Location Name:STANOLIND GAS COM C #1
Location:TN-32 RG-12
SC-17 UL-J
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED
APR 14 1997
OIL CON. DIV.
DIST. 3

Approved

**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: 93708 Location: STANOLIND GAS COM C #1
 Operator #: 0203 Operator Name: Amoco P/L District: KUTZ
 Coordinates: Letter: J Section 17 Township: 32 Range: 12
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator Location Drip: _____ Line Drip: _____ Other: _____
 Site Visit Date: 3-31-94 Run: 02 92

SITE ASSESSMENT

NMOCD Zone: Inside Land Type: BLM
 (From NMOCD Vulnerable Zone State
 Maps) Outside Fee
 Indian _____

Depth to Groundwater
 Less Than 50 Feet (20 points)
 50 Ft to 99 Ft (10 points)
 Greater Than 100 Ft (0 points)

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? YES (20 points) NO (0 points)

Horizontal Distance to Surface Water Body
 Less Than 200 Ft (20 points)
 200 Ft to 1000 Ft (10 points)
 Greater Than 1000 Ft (0 points)
 Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 0 POINTS

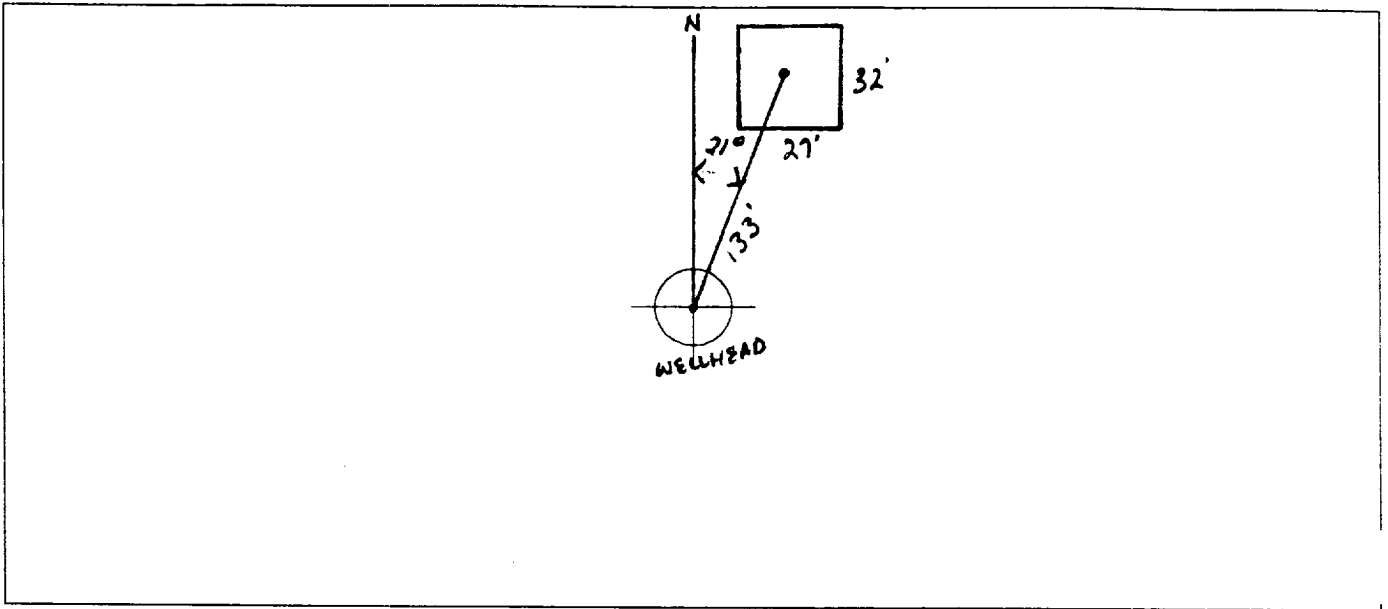
REMARKS

Remarks : TWO PITS ON LOCATION WILL CLOSE ONLY ONE. PIT IS DRY.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 21° Footage to Wellhead 133'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 32' Width : 27' Depth : 4'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

STARTED TAKING PICTURES AT 2:06 P.M.
END DUMP

Completed By:

Robert Thompson
Signature

3.31.94
Date

FIELD IT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93708 Location: Stanolind Gas Com C#1
 Coordinates: Letter: J Section 17 Township: 32 Range: 12
 Or Latitude _____ Longitude _____
 Date Started : 5/9/94 Area: 02 Run: 92

FIELD OBSERVATIONS

Sample Number(s): VW41
 Sample Depth: 12' Feet
 Final PID Reading 0 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered (1) (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation (1) Approx. Cubic Yards 0
 Onsite Bioremediation (2)
 Backfill Pit Without Excavation (3)

Soil Disposition:

Envirotech (1) (3) Tierra
 Other Facility (2) Name: _____

Pit Closure Date: 5/9/94 Pit Closed By: BEI

REMARKS

Remarks : Soil was clean. No line markers.

Signature of Specialist: Vick Wilson

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW41	945104
MTR CODE SITE NAME:	93708	N/A
SAMPLE DATE TIME (Hrs):	5/9/94	1200
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5/10/94	5/10/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Fine 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)	<10	MG/KG			2.05	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	89.2	%				

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

Surrogate Recovery was at N/A % for this sample All QA/QC was acceptable.
Narrative: _____

F = Dilution Factor Used

Approved By: John L. Lubi

Date: 4/15/94

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

04/05/10 14:15

Sample identification
045104

Initial mass of sample, g
1.030

Volume of sample after extraction, ml
15.000

Petroleum hydrocarbons, ppm
105.467

Net absorbance of hydrocarbons (FTIR cm-1)
0.037

