

Denny & Foust
DEPUTY OIL & GAS INSPECTOR

DEC 30 1997

RECEIVED
APR 1 4 1997
OIL & GAS DIV.
SANDIA

Meter Number:87802
Location Name:DELO #8
Location:TN-29 RG-11
SC-33 UL-I
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

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.

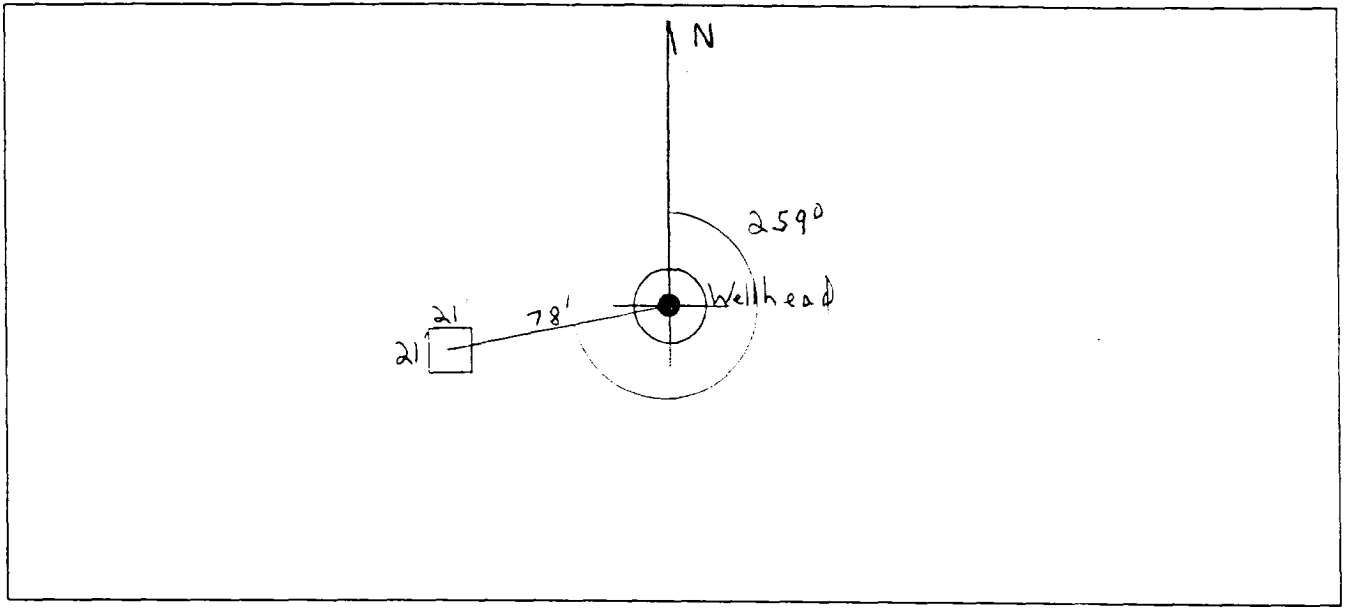
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>87802</u> Location: <u>DeLo No. 8</u></p> <p>Operator #: <u>1987</u> Operator Name: <u>Meridian</u> P/L District: <u>Angel Peak</u></p> <p>Coordinates: Letter: <u>I</u> Section <u>33</u> Township: <u>29</u> Range: <u>11</u> <small>cmc 9/13/94</small></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>9/13/94</u> Area: <u>01</u> Run: <u>63</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p style="margin-left: 100px;">Inside <input type="checkbox"/> (1)</p> <p style="margin-left: 100px;">Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type:</p> <p style="margin-left: 100px;">BLM <input checked="" type="checkbox"/> (1)</p> <p style="margin-left: 100px;">State <input type="checkbox"/> (2)</p> <p style="margin-left: 100px;">Fee <input type="checkbox"/> (3)</p> <p style="margin-left: 100px;">Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Wellhead Protection Area :</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only)</p> <p style="margin-left: 100px;"><input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book - Outside , Vulnerable Zone Topo - Outside</u></p> <p><u>2 pits. Will close 1. Pit has small amount of water in it</u></p> <p><u>Redline book shows site in Sec. 33. Location sign shows 23.</u></p> <p style="text-align: right;"><u>PUSH-IN</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 259° Footage from Wellhead 78'
b) Length : 21' Width : 21' Depth : 5'

ORIGINAL PIT LOCATION



REMARKS

Remarks :
Pictures @ 1724 hr

Completed By:

Cory Chance
Signature

9/13/94
Date

GENERAL

Meter: 87802 Location: Delo #8
Coordinates: Letter: I Section 33 Township: 29 Range: 11
Or Latitude _____ Longitude _____
Date Started : 10/6/94 Run: 01 63

FIELD OBSERVATIONS

Sample Number(s): KD 320
Sample Depth: 12' Feet
Final PID Reading 198 ppm PID Reading Depth 12' Feet
Yes No
Groundwater Encountered Approximate Depth _____ Feet

CLOSURE

Remediation Method :
Excavation Approx. Cubic Yards _____
Onsite Bioremediation
Backfill Pit Without Excavation
Soil Disposition:
Envirotech Tierra
Other Facility Name: _____
Pit Closure Date: 10/6/94 Pit Closed By: BEI

REMARKS

Remarks : Dry test hole to 12', Took pid sample, closed pit.

Signature of Specialist: *Henry Danner*



SPLIT

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 320	946350
MTR CODE SITE NAME:	27802	N/A
SAMPLE DATE TIME (Hrs):	10-6-94	0835
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	10-16-94	10/10/94
DATE OF BTEX EXT. ANAL.:	PIA	PIA
TYPE DESCRIPTION:	UG	Foreign Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
TPH (418.1)	468	MG/KG			2.0	25	310
HEADSPACE PID	320	PPM					
PERCENT SOLIDS	92.6	%					

-- TPH is by EPA Method 418.1

Narrative: ATI Results attached.

DF = Dilution Factor Used

Approved By: [Signature] Date: 11/3/94



ATI I.D. **410392**

October 19, 1994

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **10/14/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



