

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 29 1997

Approved

Meter Number:94823

Location Name:C.A. MCADAMS D #2E

Location:TN-27 RG-10

SC-20 UL-J

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

*RECEIVED
DEC 31 1997
OIL & GAS DIV
SMT 3*

**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.

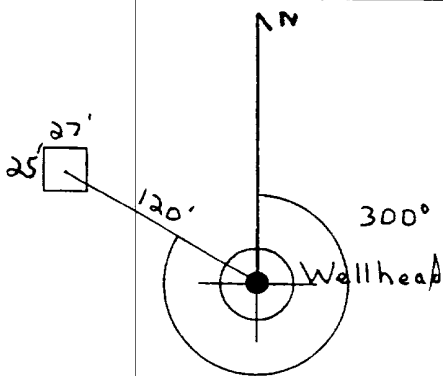
Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

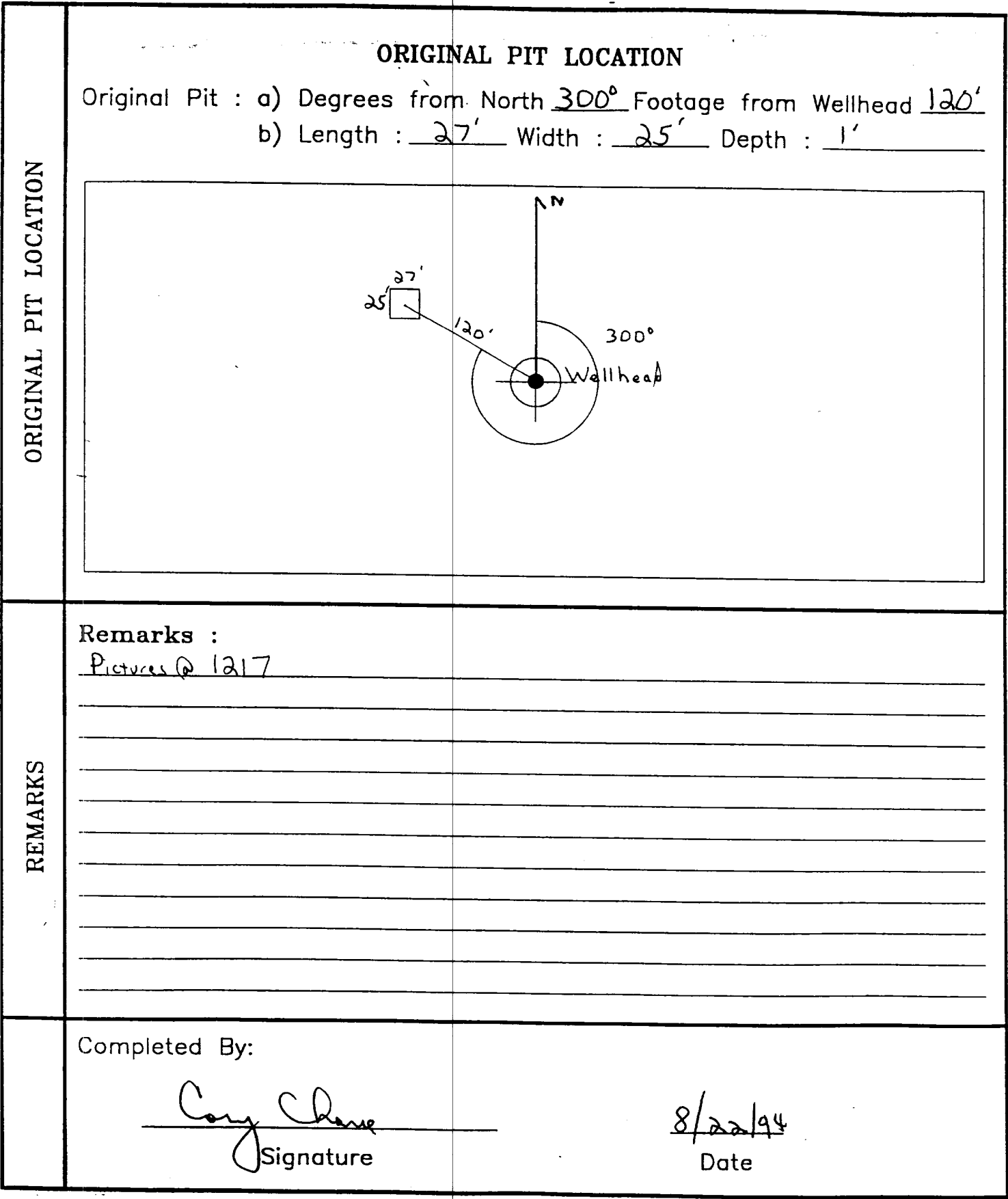
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>94823</u> Location: <u>C.A. McAdams D No. 2E</u> Operator #: <u>0203</u> Operator Name: <u>Ameco</u> P/L District: <u>Angel Peak</u> Coordinates: Letter: <u>J</u> Section <u>20</u> Township: <u>27</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>8/22/94</u> Area: <u>01</u> Run: <u>53</u>
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2) Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____ 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
REMARKS	Remarks : <u>Redline Book - Outside</u> <u>Vulnerable Zone Type - Outside</u> <u>Topo shows site in Unit I. Location sign + Redline book show Unit J</u> <u>32 pits. Will close. Pit dry</u> PUSH-IN

ORIGINAL PIT LOCATION	
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>300°</u> Footage from Wellhead <u>120'</u> b) Length : <u>27'</u> Width : <u>25'</u> Depth : <u>1'</u>
	Remarks : <u>Pictures @ 1217</u>
REMARKS	
Completed By:	
<u>Cory Chase</u> Signature	<u>8/22/94</u> Date

ORIGINAL PIT LOCATION	
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>300°</u> Footage from Wellhead <u>120'</u> b) Length : <u>27'</u> Width : <u>25'</u> Depth : <u>1'</u> 
	Remarks : <u>Pictures @ 1217</u>
REMARKS	Completed By: <u>Cory Chase</u> Signature <u>8/22/94</u> Date

[illegible][illegible]

Completed By:	 Signature	 Date
---------------	--	---

Completed By:	 Signature	 Date
---------------	--	---

Completed By:	 Signature	 Date
---------------	--	---

FILLED PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94823</u> Location: <u>C.A. Mc Adams D # 2E</u> Coordinates: Letter: <u>I</u> Section <u>20</u> Township: <u>27</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Date Started : <u>10/20/94</u> Run: <u>01 53</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 341</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>651 ppm</u> PID Reading Depth <u>12'</u> 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: <u>10/20/94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Dug test hole to 12', took pid sample, closed pit.</u>
	Signature of Specialist: <u>[Signature]</u>





FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 341	946428
MTR CODE SITE NAME:	94823	N/A
SAMPLE DATE TIME (Hrs):	10-20-94	1020
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	10-26-94	
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VL	Brown fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	858	MG/KG			2.26	28
HEADSPACE PID	651	PPM				
PERCENT SOLIDS	91.8	%				

-- TPH is by EPA Method 418.1 --

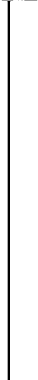
Narrative:

DF = Dilution Factor Used

Approved By:

Date:

11/3/94



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

74/10/26 10:49

Sample Identification
 1442E

Initial mass of sample, g
 1.000

Volume of sample after extraction, ml
 10.000

Petroleum hydrocarbons, ppm
 55.116
 1st absorbance of hydrocarbons (2930 cm⁻¹)
 105

