District I
1623 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Bedrock

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

PIT REMEDIATION AND CLOSURE REPORT

	10 0011	
Operator: Cross Timbers by EPFS Teleph	one	2002778
Address:	mec.	2002 VS. DIV.
Facility Or: State Gas Com U#1, Meter 72047 Well Name	DIS	T. 3
Location: Unit or Qtr/Qtr Sec H Sec 2 T	29 R 10 County San F	uan
Pit Type: Separator Dehydrator	Other <u>Drip</u>	
Land Type: BLM, StateX, Fee	Other	
Pit Location: Pit dimensions: length 19, widtl (Attach diagram)		
Reference: wellhead X, oth	er	
Footage from reference: 64 '		•
Direction from reference:30_ Deg	rees X East North	
	of	
	West Sou	th
Depth To Ground Water	Less than 50 feet	
		(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal		
1 `	50 feet to 99 feet	(10 points)
contaminants to seasonal high water elevation of ground water.)	50 feet to 99 feet Greater than 100 feet	(10 points) (0 points) <u>10</u>
contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	50 feet to 99 feet Greater than 100 feet Yes	(10 points) (0 points) 10
contaminants to seasonal high water elevation of ground water.)	50 feet to 99 feet Greater than 100 feet	(10 points) (0 points) 10
contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private	50 feet to 99 feet Greater than 100 feet Yes	(10 points) (0 points) 10
contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	50 feet to 99 feet Greater than 100 feet Yes	(10 points) (0 points) 10
contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water: (Horizontal distance to perennial	50 feet to 99 feet Greater than 100 feet Yes No Less than 200 feet 200 feet to 1000 feet	(10 points) (0 points) <u>10</u> (20 points) (0 points) <u>0</u>
contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water:	50 feet to 99 feet Greater than 100 feet Yes No Less than 200 feet	(10 points) (0 points)

Date Remediation Started:	06/09/94 Date completed:06/09/94
Remediation Method: Exca	vation Approx. cubic yards
Check all appropriate ections.) Land	dfarmed Insitu Bioremediation
Othe	er Backfill pit without excavation
(i.e. landfarmed onsite, name and location of	ite Offsite
offsite facility)	
General Description of Remo	edial Action: Landmarkers on site. Hit sandstone at 10', Gray soil 0-10'
Ground Water Encountered:	No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location _ Four walls and center of pit composite
attach sample results and diagram of sample locations and depths)	Sample depth10'
locations and deptils)	Sample Date Sample time11:45
	Sample Results
	Benzene(ppm) Not reported.
·	Total BTEX(ppm) Not reported.
	Field headspace(ppm) _235
	TPH4190
Ground Water Sample:	Yes No X (If yes, attach sample results)
I hereby certify that the infor	mation above is true and complete to the best of my knowledge and belief.
Date 1/8/03	Printed Name Scott T. Pope and Title Senior Ever Scientist
Signature Sur T.	and Title Senior Five Scientist



State Gas Com U #1 Meter/Line ID 72047

SITE DETAILS

Legals - Twn: 29N

Rng: 10W

Sec. 2

Unit: H

NMOCD Hazard Ranking: 10 Operator: Crosstimbers

Land Type: STATE
Pit Closure Date: 6/9/94

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 10 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected for field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 235 ppm; laboratory analysis showed a TPH concentration of 4,190 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 21 ft bgs where hard drilling was encountered. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-21 ft bgs. Headspace analysis indicated an organic vapor content of 22 ppm, laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were performed.

El Paso Field Services requests closure of the above mentioned pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- Sandstone bedrock was encountered at 10 feet bgs making further vertical migration unlikely.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Groundwater was not encountered in the soil boring at 21 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 21 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons, if any, in the soil will likely degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase II Soil Boring Log Laboratory Analytical Results

REVISEDFIELD PIT SITE ASSESSMENT FORM

GENERA	Meter: 72047 Location: STATE GAS (OM U#) Operator #: Operator Name: Coss Timbers P/L District: Coordinates: Letter: H Section 2 Township: 29 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.27.98 Area: 10 Run: 73
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM 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)
SSME	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?
SITE ASSESSME	(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, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits Only) (2) > 100'
	TOTAL HAZARD RANKING SCORE: POINTS
REKRKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. LOCATION 15 IN A REMOTE AREA UP ON A HILL.

ssess) 12/16/97



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	ATION			
	Fiel	d ID		Lab ID		_
SAMPLE NUMBER:	VW 184		9454	116		
MTR CODE SITE NAME:	72047			N/A		·
SAMPLE DATE TIME (Hrs):	6-9-94)] (45		
SAMPLED BY:			N/A			
DATE OF TPH EXT. ANAL.:	(0)	10/94	10	10/94		
ATE OF BTEX EXT. ANAL.:	NIA		N/A			
TYPE DESCRIPTION:	16		Grey	Sand	Clay	
			J		1	
REMARKS:					·	
		RESULTS				·
		NESUL 13		····		
	entre en			1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Sala Sala Sala Sala Sala Sala Sala Sala	
PARAMETER	RESULT	UNITS	DF	QUALIF Q	IERS M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
						<u> </u>
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX	·	MG/KG				
TPH (418.1)	4190	MG/KG			2.09	28
HEADSPACE PID	235	PPM	A.			
PERCENT SOLIDS	98.286					
6/1219	TPH is by EPA Method 4	18.1 and BTEX is by EPA	Method 8020 —			

ogate Recovery was at	NIA	% for this sample	All QA/QC was acceptable.	•
= Dilution Factor Used	^			
	Tare		Date: 4/14/44	· .

FIELD IT REMEDIATION/CLOSUR FORM

GENERAL	Meter: 72047 Location: State Gas Com U#/ Coordinates: Letter: H Section 2 Township: 29 Range: 10 Or Latitude Longitude Date Started: 6-9-94 Area: 10 Run: 73
FIELD OBSERVATIONS	Sample Number(s): \(\subseteq \textstyle \) Feet Sample Depth: \(\subseteq \textstyle \textstyle \) Feet Final PID Reading \(\subseteq \textstyle \textstyle \) PID Reading Depth \(\subseteq \textstyle \) Feet Yes No Groundwater Encountered \(\subseteq \textstyle \) (1) \(\supseteq \textstyle \) Approximate Depth \(\subseteq \textstyle \) Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Line morkers on site, hit sandstone at 10' Grey soil 0-10' Signature of Specialist: Vale Wilson

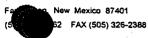
-2-

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Date Completed



Boreho	le#	BH-	<u> </u>
Well#		N.	A
Page	1	of	

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10

Project Location State Gas Com U #1 72047

Elevation
Borehole Location LTR: # S: Z T: Z1 R: 10

GWL Depth
Drilled By
Well Logged By
Date Started

K. PADILLA
H. BRADBURY

7/10/18

9/10/98

Drilling Method 4 1/4 ID HSA Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monito Inits: PF		Drilling Conditions & Blow Counts
										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5		·		EXCAVATION SAMPLE COLLECTED At 10'	·					
15	1	15-16	12	LTBR SANDSTONE, fine SAND, HARD CEMENTARION DAY			0	30	26 92	.0909 hRs hARd seilling .0926 hRS
20	Z	20-21	6	LTGR SANDSTONE, FINE SAND, MOD CEMENTATION, day			0	1	8 22	0926 hRS
25										
30										·
35										
40										

ents:

HAB29 20-21' SENT TO JAB FOR TPH. BTEX. GW NOT ENCOUNTERED BH GROUTED TO SURFACE

Geologist Signature

H. Brackery



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB29	980638
MTR CODE SITE NAME:	72047	State Gas Com U 31
SAMPLE DATE TIME (Hrs):	9/10/98	0926
PROJECT:	Phas	e II Drilling
DATE OF TPH EXT. ANAL.:	9/15/98	9/17/98
DATE OF BTEX EXT. ANAL.:	9/14/98	9/14/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

RESULTS

PARAMETER.	RESULT	UNITS		OUALIFI:		
			DF	0	M(g)	Y(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG		÷.		
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG			·	
HEADSPACE PID	22	PPM				
PERCENT SOLIDS	93.9	%				

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020								
The Surrogate Recovery was at	% for this sampl	ple All QA/QC was acceptable.						
DF = Dilution Factor Used	^							
Approved By:	- Jacks	Date: /0///08						



PINNACLE I.D.: 809038



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJECT NAME	. 1 1 1/4	40E II DIVILLIIN	•				
SAMPLE			D	ATE D	ATE DATE		IL.
ID. # CLIENT I.I	D.	МА	ATRIX SAM	IPLED EXTR	RACTED ANALYZE	D FAC	CTOR
13 980636		. NO	N-AQ 9/	9/98 9/	15/98 9/17/98		10
14 980637		NO	N-AQ 9/	9/98 9/	15/98 9/17/98		10
15 980638		NO	N-AQ 9/	10/98 9/	15/98 9/17/98		1
PARAMETER	D	ET. LIMIT	UNITS	13	14	15	
FUEL HYDROCARBOI	NS, C6-C10	10	MG/KG	1000	00 170	< 10	
FUEL HYDROCARBOI		5.0	MG/KG	1200	1600	< 5.0	
FUEL HYDROCARBOI		5.0	MG/KG	< 50	380	< 5.0	
CALCULATED SUM:		·		1120	00 2150		
SURROGATE: O-TERPHENYL (%) SURROGATE LIMITS	(1	66 - 151)		122	131	87	

CHEMIST NOTES:

N/A





GAS CHROMOTOGRAPHY RESULTS

REAGENT BLANK

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

BLANK I.D.

: 091598

PINNACLE I.D.

: 809038

CLIENT

: EL PASO FIELD SERVICES

DATE EXTRACTED

: 9/15/98

PROJECT#

: (none)

DATE ANALYZED

: 9/16/98

PROJECT NAME

: PHASE II DRILLING

SAMPLE MATRIX

: NON-AQ

PARAMETER		UNITS	-		
FUEL HYDROCARBONS, C6-C10		MG/KG	<	10	
FUEL HYDROCARBONS, C10-C22		MG/KG	<	5.0	
FUEL HYDROCARBONS, C22-C36		MG/KG	<	5.0	
SURROGATE:					
(RPHENYL (%)	•	• • •	95		
ROGATE LIMITS	(80 - 151)				

CHEMIST NOTES:

N/A





GAS CHROMOTOGRAPHY QUALITY CONTROL

MSMSD

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

MSMSD#

: 809038-08

CLIENT

: EL PASO FIELD SERVICES

PROJECT# PROJECT NAME

: (none)

: PHASE II DRILLING

PINNACLE I.D.

X 100

DATE EXTRACTED

9/15/98 9/16/98 DATE ANALYZED

SAMPLE MATRIX

NON-AQ

809038

UNITS MG/KG

					014110		<u> </u>	***************************************		
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD	
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS	
FUEL HYDROCARBONS	<5.0	100	110	110	106	106	4	(56 - 148)	20	

CHEMIST NOTES:



(Spike Sample Result - Sample Result)

% Recovery =

--- X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

Average Result

Acceptable 129/68