District I
1625 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
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy to appropriate

District Office and 1 copy to the Santa Fe Office

en Countered (Revised 3/9/94)

bedock

PIT REMEDIATION AND CLOSURE REPORT

		V01777
Operator: <u>Dugan Production</u> (Site Closed by E	El Paso Field Services) Telephone:/	Common The Common Transport
Address:	Lr 	273
Facility Or: Paul Hall #1, Meter 73284 Well Name		
Location: Unit or Qtr/Qtr SecN Sec	20 T 31 R 13 Cou	nty San Juan
Pit Type: Separator Dehydrator	Other <u>Drip</u>	
Land Type: BLM X, State , Fe	ee Other	
Pit Location: Pit dimensions: length 14' (Attach diagram) Reference: wellhead X,	, width <u>13'</u> , depth <u>1'</u> other	
Footage from reference:79'		<u>. </u>
Direction from reference: 341	Degrees X East North	
		^
·	West	f South
Depth To Ground Water		South
Depth To Ground Water (Vertical distance from	West	
-	Less than 50 feet	South(20 points)
(Vertical distance from	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points)10_
(Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) _10 Yes (20 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points)10_
(Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) _10 Yes (20 points)
(Vertical distance from 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.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) _10 Yes (20 points) No (0 points) _0
(Vertical distance from 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:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Less than 200 feet	(20 points) (10 points) (0 points) 10 Yes (20 points) No (0 points) 0
(Vertical distance from 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.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) _10 Yes (20 points) No (0 points) _0

Date Remediation Start	red: 02/06/95 Date completed: 02/06/95
Remediation Method:	Excavation Approx. cubic yards
(Check all appropriate sections.)	Landfarmed Insitu Bioremediation
	Other Backfill Pit Without Excavation
ı	
	Onsite N/A Offsite N/A
(i.e. landfarmed onsite, name and location of offsite facility)	
General Description of	Remedial Action: Arrived, dug sample hole. Hit rock 4'. Soil grayish brown, strong hydro-
carbon odor.	
Ground Water Encount	ered: No X Yes Depth
Final Pit:	Sample location _ Four walls and center of pit composite
Closure Sampling: (if multiple samples,	· · · · · · · · · · · · · · · · · · ·
attach sample results and diagram of sample	Sample depth 4'
locations and depths)	Sample Date Sample time12:30
	Sample Results
	Benzene(ppm) Not reported
	Total BTEX(ppm) Not reported
	Field headspace(ppm)276
	TPH <u>2410</u>
Ground Water Sample:	Yes NoX (If yes, attach sample results)
	information above is true and complete to the best of my knowledge and belief.
Date 4/23/03	Printed Name
Signature 1	and Title Scott Pope. Senior Environmental Scientist



Paul Hall #1 Meter/Line ID 73284

SITE DETAILS

Legals - Twn: 31N Rng: 13W

13W Sec: 20

Unit: N

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Dugan Production Corp.

Pit Closure Date: 2/6/95

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 4 feet (ft) below ground surface (bgs) where bedrock 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 276 ppm, laboratory analysis indicated a TPH concentration of 2,410 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 borehole was completed with auger refusal (sandstone) at 15-16 ft bgs. A soil sample was collected at 15-16 ft bgs for field headspace and laboratory analysis for TPH and total BTEX. No groundwater was encountered in the soil boring. Headspace analysis indicated an organic vapor content of 232 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 3.82 mg/kg, and a TPH concentration of 68 mg/kg. The benzene, total BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score of 10.

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 8 years.
- Bedrock was encountered at 4 feet bgs making additional excavation impractical and further downward migration of contaminants 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., direct contact exposure pathways are unlikely to be completed.
- Auger refusal in sandstone was encountered at 16 feet bgs.
- Groundwater was not encountered in the soil boring at 16 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.

REVISEDFIELD PIT SITE ASSESSMENT FORM

GENERA	Meter: 73284 Location: Paul Hall # Operator #: Operator Name: P/L District: Coordinates: Letter: N	
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM (1) State (2) Fee (3) Indian	
	Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points) (1) (2) (3)	
ASSESSME	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)	
SITE ASSI	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)	
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits On (2) > 100')	ly)
RKS	TOTAL HAZARD RANKING SCORE: POINTS Remarks: Site has been re-assessed, due to initial assessment including washes	v
RECR	as a Surface Water Body. Site is < 100' Vertical From conterof Backer Arroyo.	

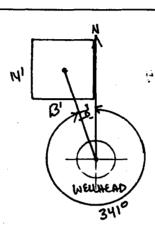
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 73284 Location: PAUL HAUL # Operator #: Operator Name: Dusan Peop. P/L District: Kurz Coordinates: Letter: N Section 20 Township: 31 Range: 13 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 1.4.95 Area: 22 Run: 42
SITE ASSESSMENT	NMOCD Zone:
EMARKS	Remarks: REDLINE SHOWS INSIDE BUT TOPO SHOWS LACATION OUTSIDE V-2- 2 PITS ON LOCATION. DENY PIT BELONGS TO EPNG. WILL CLOSE FIT.

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 341° Footage from Wellhead 79′

b) Length : 14' Width : 13' Depth : 1'



ке	\mathbf{m}	ai	.K	S	:

PHOTOS-1215

Completed By:

Signature

1.4.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73284 Location: Paul Hall* Coordinates: Letter: N Section 20 Township: 31 Range: 13 Or Latitude Longitude Date Started: 2-6-95 Run: 02 42
FIELD OBSERVATIONS	Sample Number(s): MK 354 Sample Depth: 4' Feet Final PID Reading 276 Yes No Groundwater Encountered \(\boxed{\text{X}} \) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Arrived Dug Sample Hole, Hit Rock 4' Soil Grayish Brown Strong Hrorocarbon ador
	Signature of Specialist: Morgan Killion (SP3181) 03/16/84

RECORD'OF SUBSURFACE EXPLORATION

HILIP SÉRVICES CORP.

300 Monroe Road

New Mexico 87401 io 262 FAX (505) 326-2388

Borehole #	вн-
Well#	NA .
Page 1	of

Project Number 19643 Phase

Phase <u>1001.77</u> >10

Project Name EPFS PITS >10

Project Location PAUL HAIL #1 73284

Elevation	
3orehole Location	LTR: N S: 20 T: 31 R: 13
3WL Depth	NA
Orilled By	K. PADILLA
Nell Logged By	H. BRADBURY
Date Started	9/8/98
Date Completed	918/98

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)	Air Monitoring Units: PPM BZ BH S/HS		M		
5				EXCAVATION SAMPLE COLLECTED AT 4'						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace	
	_			LT BR SANDSTONE, FINE SAND, LOW CEMENTED, DRY					<i>50</i>		
10		10-11		DU DD STITSTONE			0	٥	<i>58</i> 44	1,19,	
15	Z	15-16		TOB 16'			0	0	218 232	hard deilling 1509 1509	
20	3	19-20	3	10070						Yes To	
25											
30		3,									
35											
40											

ents:

HAB25 SENT TO LAB FOR TPH, BTEX GW NOT ENCOUNTERED

Geologist Signature

H. Bradling



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	HAB25	980627
MTR CODE SITE NAME:	73284	Paul Hall #1
SAMPLE DATE TIME (Hrs):	9/8/98	1509
PROJECT:	Phase	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: 15-16'

RESULTS

PARAMETER	RESULT	UNITS	D.F	OVALIFI	ars M(g)	l V(ml)
BENZENE	<0.5	MG/KG		1 113111111111111111111111111111111111	F 1888 444.): LESS	
TOLUENE	0.51	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	3.31	MG/KG				
TOTAL BTEX	3.82	MG/KG				
TPH (MOD.8015)	68	MG/KG			510950000000000000000000000000000000000	
HEADSPACE PID	232	PPM				
PERCENT SOLIDS	88.4	%				

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

The Surrogate Recovery was at	96.7	% for this sample	All QA/QC was acceptable.	
		·		
DF = Dilution Factor Used	D			<u>-</u> -
	tin		- 10/ 160	