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 defined (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

JU 010 00 133	$\int_{\mathbb{R}^{2}} e^{-i\omega t} dt$	1 17 2 224
Operator: Amoco (Site Closed by El Paso Field Ser	vices) Telephone:	
Address:		
Facility Or: Likins Gas Com A#3, Meter 75139 Well Name		<u> </u>
Location: Unit or Qtr/Qtr Sec M Sec 34	T <u>30</u> R <u>9</u> CountyS	San Juan
Pit Type: Separator DehydratorX	Other	
Land Type: BLM, State, FeeX	Other	
Pit Location: Pit dimensions: length 13, wide (Attach diagram)  Reference: wellhead X, other	tth <u>13'</u> , depth <u>1'</u>	
Footage from reference: 150'		_
Direction from reference: 314 I	Degrees X East North	
Direction from reference:314_ I	Degrees X East North of	
	of West Sou	th
Depth To Ground Water	Mest Sou  Less than 50 feet	(20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	of West Sou	th
Depth To Ground Water (Vertical distance from	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points)
Depth To Ground Water (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 Greater than 100 feet	(20 points) (10 points) ( 0 points) <u>10</u>
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Yes	(20 points) (10 points) ( 0 points) <u>10</u>
Depth To Ground Water (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  Yes No	(20 points) (10 points) ( 0 points)
Depth To Ground Water (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: (Horizontal distance to perennial	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Yes No  Less than 200 feet 200 feet to 1000 feet	(20 points) (10 points) ( 0 points)
Depth To Ground Water (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  Yes No	(20 points) (10 points) ( 0 points)

,	Date Remediation Starte	d: <u>05/31/94</u> Date completed: <u>05/31/94</u>
		Excavation Approx. cubic yards
1	(Check all appropriate sections.)	Landfarmed Insitu Bioremediation
		Other Backfill pit without excavation
and a second	Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite N/A Offsite N/A
	General Description of I	Remedial Action: Line markers on location.
	Ground Water Encounter	red: NoX
	Final Pit: Closure Sampling: (if multiple samples,	Sample location _ Four walls and center of pit composite
	attach sample results and diagram of sample	Sample depth12'
	locations and depths)	Sample Date <u>05/31/94</u> Sample time <u>09:00</u>
		Sample Results
		Benzene(ppm)Not reported
		Total BTEX(ppm) Not reported.
		Field headspace(ppm) 401
		TPH 2190
	Ground Water Sample:	Yes No X (If yes, attach sample results)
	I hereby certify that the	information above is true and complete to the best of my knowledge and belief.
1	Date 4/22/03/)	
	Signature	Printed Name and Title Scott Pope, Senior Environmental Scientist



### Likins Gas Com A #3 Meter/Line ID 75139

#### SITE DETAILS

Legals - Twn: 30N

Rng: 9W

Sec: 34

Unit: M

**NMOCD Hazard Ranking: 10** 

Land Type: Fee

**Operator: Amoco Production Company** 

Pit Closure Date: 5/31/94

### 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 12 feet (ft) below ground surface (bgs) 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 401 ppm, laboratory analysis indicated a TPH concentration of 2,190 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score.

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 with auger refusal (hard sandstone) at 53 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 52-53 ft bgs. Headspace analysis was not taken due to poor sample recovery, laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 12 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.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Hard sandstone was encountered in the Phase II soil boring at 53 feet bgs making further downward migration of contaminants unlikely.
- Groundwater was not encountered in either the test pit or Phase II soil boring to 53 feet bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene, total BTEX and TPH concentrations at the base of the Phase II boring were below recommended remediation levels for the Hazard Ranking Score.

# REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75139 Location: Likins Gas Com A#3  Operator #: Operator Name: P/L District:  Coordinates: Letter: M Section 34 Township: 30 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: 4/8/98 Area: Run:
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Land Type:  BLM  (1)  State  (2)  Fee  (3)  Indian  Indian
	Less Than 50 Feet (20 points)       □ (1)         50 Ft to 99 Ft (10 points)       □ (2)         Greater Than 100 Ft (0 points)       □ (3)
SITE ASSESSMENT	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, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	Distance to Nearest Ephemeral Stream  (1) < 100' (Navajo Pits Only)  (2) > 100'  TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is < 100' vectical From Center of San Juan R.

(assess) 12/16/97

# FIELD PIT SITE ASSESSMENT FORM

	GENERAL	Meter: 75139 Location: LIKINS GAS COM A #3  Operator #: 0203 Operator Name: Amoro P/L District: BLOOMFIELD  Coordinates: Letter: M Section 34 Township: 30 Range: 96 54.79  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: 5.6.99 Area: 10 Run: 43
		NMOCD Zone:       Land Type:       BLM       □ (1)         (From NMOCD       State       □ (2)         Maps)       Inside       □ (1)       Fee       ☑ (3)         Outside       ☑ (2)       Indian
	ASSESSMENT	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 AS	Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)
		(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'
_	ro	TOTAL HAZARD RANKING SCORE:POINTS
4	REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON A SLIGHT HILL REPLIKE SHOWS LOCATION IS INDICE THE U.Z. BUT TOPO SHOWS
	MA	THAT IT IS OUTSIDE THE V.Z.
I	R.	FISH 1N (SP3190) 04/08/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	TION				
	Field	i ID		Lab ID		_	
SAMPLE NUMBER:	NW 148	949	945305				
MTR CODE   SITE NAME:	751		N/A				
SAMPLE DATE   TIME (Hrs):	5-31-9-	1		0900			
SAMPLED BY:			I/A				
DATE OF TPH EXT.   ANAL.:	6-2	74	6	294			
DATE OF BTEX EXT.   ANAL.:	10/19		N/A	·			
TYPE   DESCRIPTION:	16		Fine	sown:	sanalo	AY	
REMARKS:						•	
		RESULTS		<del></del>			
PARAMETER	RESULT	UNITS		TIERS			
		<del></del>	DF	<u> </u>	M(g)	V(ml)	
BENZENE		MG/KG		<u>-</u>		·	
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG				<u> </u>	
TOTAL XYLENES		MG/KG		_			
TOTAL BTEX		MG/KG					
TPH (418.1)	2190	MG/KG			201	28	
HEADSPACE PID	401	PPM					
PERCENT SOLIDS	91.2	%					
he Surrogate Recovery was at larrative:	- TPH is by EPA Method 41	8.1 and BTEX is by EPA % for this sample		was accep	table.		
DF = Dilution Factor Used		·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·	<del></del>	

# CORD OF SUBSURFACE EXPLORATION

LIP SERVICES CORP.

gton, New Mexico 87401 55) 326-2262 FAX (505) 326-2388

Boreho	oie#	вн-	1
Well#			
Page	1	of	Z

Project Number 19643

Phase 1001.77

Project Name EPFS PITS >10

Project Location Likens Gas Com AH3 7513

Elevation
Borehole Location LTR: M S: 3 4 T: 30 R: 9

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

K. PADILLA
H. BRADBURY

9/18/98

Drilling Method 4 1/4 ID HSA

Air	Monitoring	Method	PID	 	

·Depth (Feet)	1	mple mber	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		-Monitor nits: PP BH		Drilling Conditions & Blow Counts
	5									•	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
10					EXCAVATION SAMPLE Collected at 12'						
	5	ı	15-17	24	LT GR SANDY CLAY, FINE SAND. SOFT, low plasticity.day	·		0	и	345 340	1332 hRs
20	0   2	2	Z <b>0</b> -21	24	LT BR SAND, FINE SAND 1005E, DRY	SW		l	358	214 331	1339 hrs
2	5	3	25-27	24	LTBR Silty SAND, FINE SAND, LOSE, LEY	SM		2	304	301	-1346 hRs
30	٥	4	30-32	24	SAND, loose, MOIST	511		2	225	88 28	1353 hrs
3	5	5	3 <i>53</i> 1	12	LTBR Silty SAND. FINE SAND, DOSE, dry	SM		ţ	286	76 237	1402 hrs
E_4	0 (	lo	40-42	24	LT BR SILTY SAND, FINE SAND WOSE DRY	SM			106	3 <u>5</u> 33	1415 hrs

Comments:

HABY3 52-53' SENT tO IAB FOR TPH, BFEX. GW NOT

ENCOUNTERFO AUGER REFUSAL at 52'

Geologist Signature

Holly Beatling

	CE EXPLORATION
	量
	- inter-
ete Started  Date Completed	H. BRADBURY 9/18/98

Boreh	ole#	BH-	<u> </u>
Well #			
Page	2	of	

Project Number 19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location LIKENS Gas COM A #3 75/39

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)	ł	Monitoria nits: PPN BH	- 1	Drilling Conditions & Blow Counts
5	7	45-47	12	LT BR SAND, FINE SOND. 1005E, dry	\$W		2	46		BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
_ <b>5</b> 0	(	56.52	12	LT BE SANDY CLAY, FINE SAND, low plasticity, soft	·	=	٥	10	<u>86</u> Z	1502 hrs
<b>5</b> 5	9 525 +8	52-§		TOB 53'			D	55	0	Poor 1516 hes sample RECCVI NEADSON Not THE
20						e e e e e e e e e e e e e e e e e e e				Not THE
25 										
30							r			
35						The state of the s	6			ų.

mments:

HABY3 52-53' SENT to lAB FOR BTEX, TPH, AUGERREFUSA

BH growted to SURFACE

Geologist Signature

Holly Bracking