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 bedroch defined the extent of a

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

		111217
Operator: Amoco Production Company	Telephone	311111111111111111111111111111111111111
Address: 30-045-25	754	DEC 2002 NECHIVED OIL CONS. DIV.
Facility Or: Riddle Com #7, Meter 94113 Well Name	16.3	DIST. 3
Location: Unit or Qtr/Qtr Sec K Sec 8 T	28 R 8 County S	an Juan
Pit Type: Separator Dehydrator X	Other	
Land Type: BLM X, State , Fee, Fee	Other	
Pit Location: Pit dimensions: length 22, width (Attach diagram)	22', depth 5'	
Reference: wellhead X, other	[
	•	
Footage from reference: 76'		
		•
Direction from reference: 157 Deg	rees X East North	
Direction from reference: <u>157</u> Deg		<u></u>
Direction from reference: <u>157</u> Deg	0	
	o West	f South
Depth To Ground Water	West Less than 50 feet	South(20 points)
Depth To Ground Water (Vertical distance from	West Less than 50 feet 50 feet to 99 feet	South(20 points) (10 points)
Depth To Ground Water	West Less than 50 feet	South(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	West Less than 50 feet 50 feet to 99 feet	South(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	West Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) <u>0</u>
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	West Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) _0_
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	West Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) <u>0</u>
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	West Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (0 points) _0_ Yes (20 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.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) Yes (20 points) No (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 Less than 200 feet	(20 points) (10 points) (0 points) (0 points) Yes (20 points) No (0 points) (20 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 Less than 200 feet 200 feet to 1000 feet	Yes (20 points) No (0 points) (20 points) (0 points) Yes (20 points) No (0 points) (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 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) (0 points) Yes (20 points) No (0 points) (20 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 lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Less than 200 feet 200 feet to 1000 feet	(20 points) (10 points) (0 points) (0 points) (0 points) (10 points) (10 points) (10 points) (10 points) (10 points) (10 points)

Date Remediation Started:	07/27/94 Date completed: 07/27/94
	avation Approx. cubic yards
(Check all appropriate sections.) Lan	dfarmed Insitu Bioremediation
Otho	er Backfill pit without excavation
Remediation Location: Ons (i.e. landfarmed onsite, name and location of offsite facility)	site N/A Offsite N/A
General Description of Remo	edial Action:EPNG lines not marked. Soil gray, strong hydrocarbon odor. Hit
sandstone 6'.	
Ground Water Encountered:	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 6'
locations and depths)	Sample Date <u>07/27/94</u> Sample time <u>15:38</u>
	Sample Results
	Benzene(ppm) Not reported.
	Total BTEX(ppm) Not reported
	Field headspace(ppm) 49
	TPH <u>1690</u>
Ground Water Sample:	Yes NoX (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/)	
Signature	Printed Name Scott T. And and Title Service Fall Scientist



Riddle Com #7 Meter/Line ID 94113

SITE DETAILS

Legals - Twn: 28N Rng: 8W

NMOCD Hazard Ranking: 10

Operator: Amoco Production Company

Sec: 8

Land Type: BLM

Pit Closure Date: 7/27/94

Uni

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 6 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 49 ppm; laboratory analysis indicated a TPH concentration 1,690 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. The NAPI irrigation canal is approximately 800 ft from the site.

A Phase II boring was completed at the edge of the pit to refusal at 12 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 10-11 ft bgs. Headspace analysis indicated an organic vapor content of 256 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, TPH and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned production 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.
- 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.
- Groundwater was not encountered in the soil boring at 12 ft bgs; local geologic features indicate the depth to groundwater is greater than 100 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 12 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Bedrock was encountered at 6 ft bgs making further excavation impractical and further downward migration of residual hydrocarbons unlikely.

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

GENER	Meter: 94113 Location: RIDDLE Com #7 Operator #: Operator Name: Amoco Peac. P/L District: Coordinates: Letter: K Section B Township: 28 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.1.98 Area: Area: 13 Run: 62
SITE ASSESSM	NMOCD Zone: Cand Type: BLM (1) (1) (1) (2) (2) (3) (2) (3) (2) (3) (3) (2) (3) (3) (2) (3
RU RKS	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 AND 15 APPROXIMATELY 800' FROM THE NAPT CANAL.

(assess) 12/16/91

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 94113 Location: RIDDLE CDM 7 Operator #: 0203 Operator Name: AMO(D P/L District: BLAN(D) Coordinates: Letter: Section Township: 28 Range: 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/23/94 Area: 13 Run: 62
ĺ	NMOCD Zone: Land Type: BLM 🔀 (1)
	(From NMOCD) State (2)
	\square Maps) Inside \square (1) Fee \square (3)
	Outside (2) Indian
	Depth to Groundwater Less Than 50 Feet (20 points) [(1)
	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2)
	Greater Than 100 Ft (0 points) (3)
Ţ	Wellhead Protection Area:
MEN	Is it less than 1000 ft from wells, springs, or other sources of
ASSESSMENT	fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)
SSI	Horizontal Distance to Surface Water Body
-	Less Inan 200 Ft (20 points) (1)
SITE	200 Ft to 1000 Ft (10 points) \square (2)
	Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Cotter Carry C
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,
	in in a dividual priciles (rakes Ponds)
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	\square (2) > 100'
	TOTAL HAZARD RANKING SCORE: POINTS
RR	Remarks: Redline Inside, Jula - Dutside
REMARK	Spits Clase 1. Oil Stanned Soil No standing liquid.
RE	PUSH-IN

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94/13 Location: Riddle Com #7 Coordinates: Letter: C Section & Township: 28 Range: 8 Or Latitude Longitude Date Started: 7-27-94/ Run: 13 62
FIELD OBSERVATIONS	Sample Number(s): MK 191 Sample Depth: 6' Feet Final PID Reading 49 Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: EPNG lines Not Marked Soil Gray Strong HYDro Carbon odor Hit Sand Stone 6' Signature of Specialist: Morgan Xillian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Fiel	d ID		Lab ID		
SAMPLE NUMBER:	mx 191		9457	80		
MTR CODE SITE NAME:	94113	• •		N/A		
SAMPLE DATE TIME (Hrs):	7-27-9	4	19	38		
SAMPLED BY:			N/A			
DATE OF TPH EXT. ANAL.:	7/28]	94	7/28	194		
ATE OF BTEX EXT. ANAL.:	2)4	·	NIA			,
TYPE DESCRIPTION:	٧ G-		Fine 6n	4/BOM	n Sana/s	andst
		RESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIF Q	M(g)	V(ml)
BENZENE	·	MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG			<u> </u>	
TOTAL XYLENES		MG/KG				
TOTAL BTEX	·	MG/KG				
TPH (418.1)	1690	MG/KG		İ	2.16	28

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

PPM

regate Recovery was at	NIA	_% for this sample	All QA/QC was acceptable
stante:	,		

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F = Dilution Factor Used

HEADSPACE PID

PERCENT SOLIDS

noroved Bv:

Xb.

Date:

8/8/44

PHI Closure Project # 24324 See Mark Mark See	TOST COO	MIMBER	PROJECT N	AME			_	_	(1	TAILY CHIAL	Veic	1		
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1	LABID	ᆲ	TIME	MATRIX	SAMP	UMBER	OE CC						38	EMARKS
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52738 7-2744 3724 501 m, k 89 1 1/6 x 170 8kck So. 1 5l/544 1 1/6 x 171 8kck So. 1 5l/544 1/6 2 1/6 x 1/	4-77	72.7%	12:23	1.8	N/4188		7					591	Fray St Black # 15179 Li	Ì
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CHARGE CODE 505-599-2144	CARRIE	8			·								P. O. BOX 4990	NAL GAS COMPANY
	BILL NO.					CHARGE CODE				·	205-1	599-2144	FARMING I ON, IV	FAX: 505-599-2261

CORD OF SUBSURFACE EXPLORATION

P SERVICES CORP.

Monroe Road

no Ne	w Mexico 87401
	FAX (505) 326-2388

Boreho	le#	BH-	\
Well#		NA	
Page	_1	of	

Project Number

19643

1001.77

Project Name EPFS PITS >10

ation shole Location LTR: C S: S T: Z8 R:8 _ Depth NA ed By K. PADILLA H. BRADBURY Logged By 11/25/98 Started ₃ Completed 11/25/98

Drilling Method 4 1/4 ID HSA

Project Location Riddle

Air Monitoring Method PID

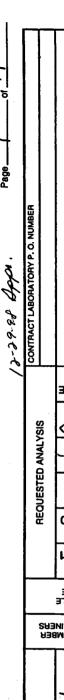
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epth Feet)	Sample Number	Sample Interval	Type & Recovery	Sample Description Classification System: USCS	USCS	Lithology	Air Moni Units:	-	Drilling Conditions & Blow Counts
. der)	Hamber	III ILEI VAI	(inches)	Classification System. 0303	Symbol	Change (feet)	BZ BH		a blow Counts
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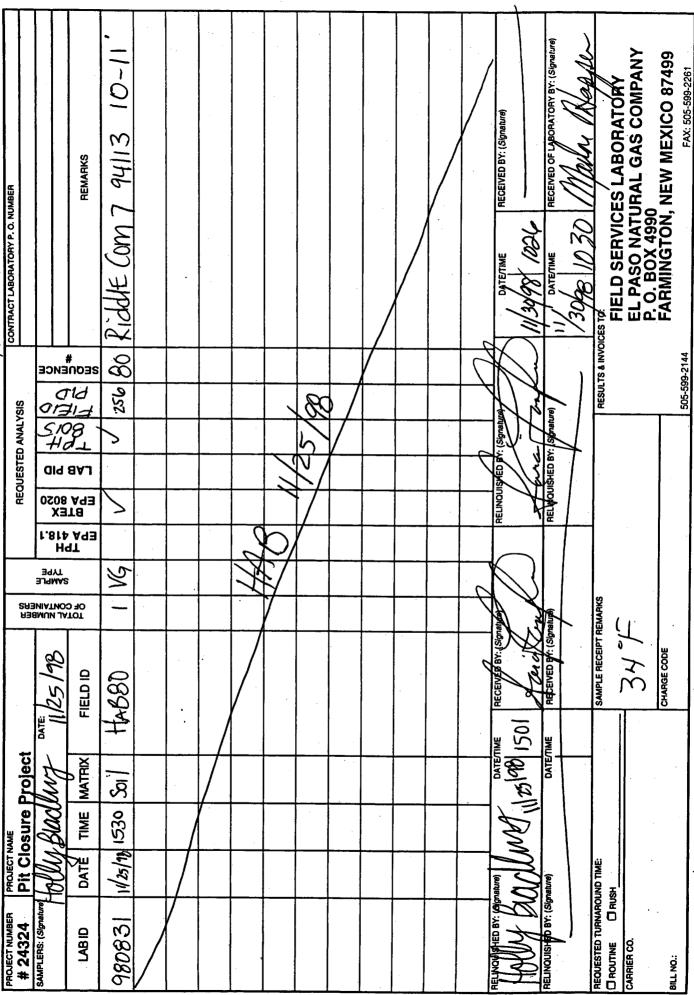
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CHAIN OF CUSTODY RECORD

12-78-88 And. 1339.98 Chor





White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0565 A (Rev. 05-94)



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB80	980831
MTR CODE SITE NAME:	94113	Riddle Com 7
SAMPLE DATE TIME (Hrs):	11/25/98	1530
PROJECT:	Phase	II Drilling
DATE OF TPH EXT. ANAL.:	12/2/98	12/2/98
DATE OF BTEX EXT. ANAL.:	11/30/98	12/2/98

Field Remarks: 10-11'

RESULTS

PARAMETER	RESULT	UNITS	DF	QUALIFIE Q	ris M(g)	V(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	256	PPM				
PERCENT SOLIDS	96.1	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at attemptive:	96.7	% for this sample	All QA/QC was acceptable.	
<u> </u>				· · · · · · · · · · · · · · · · · · ·
OF = Dilution Factor Used	1-00		Date: 12/2/60	





GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT) : EL PASO FIELD SERVICES

CLIENT

PINNACLE I.D.: 812003

PROJECT #

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJECT	NAME	. I TIAGE II DIVI	LEITYO				
SAMPLE				DATE	DATE	DATE	DIL.
iD. #	CLIENT J.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR_
01	980826		NON-AQ	11/20/98	12/2/98	12/2/98	1
02	980827		NON-AQ	11/20/98	12/2/98	12/2/98	1
03	980828		NON-AQ	11/20/98	12/2/98	12/2/98	1
PARAMET	ER	DET. LIMIT	10	VITS	01	02	03
FUEL HYD	OROCARBONS, C6-C10	10	MG	S/KG	34	< 10	< 10
	PROCARBONS, C10-C22	5.0	MC	S/KG	< 5.0	< 5.0	< 5.0
	PROCARBONS, C22-C36	5.0	MC	G/KG	< 5.0	< 5.0	< 5.0
	TED SUM:				34.0		
SURROGA	ATE:						
O-TERPHI	FNYL (%)				88	87	85



SURROGATE LIMITS

(66 - 151)

CHEMIST NOTES:

N/A



PINNACLE I.D.: 812003



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

SAMPLE				DATE	DATE	DATE	DIL.
D. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980829		NON-AQ	11/25/98	12/2/98	12/2/98	1
05	980830		NON-AQ	11/25/98	12/2/98	12/3/98	10
06	980831		NON-AQ	11/25/98	12/2/98	12/2/98	11
PARAME	TER	DET. LIMIT	UN	IITS	04	05	06
FUEL HY	DROCARBONS, C6-C10	10	MG	/KG	< 10	2300	< 10
FUEL HY	DROCARBONS, C10-C22	5.0	MG	i/KG	< 5.0	1500	< 5.0
FUEL HY	DROCARBONS, C22-C36	5.0	,MG	S/KG	< 5.0	< 50	< 5.0
	ATED SUM:	•				3800	
SURRO	GATE:						
O-TERPI	HENYL (%)				87	84	90
SURROC	SATE LIMITS	(66 - 151)					

CHEMIST NOTES: N/A

BTEX SOIL SAMPLE WORKSHEET

File		:	980831	Date Printed :	12/3/98
Soil Mass	(g)	:	5.03	Multiplier (L/g) :	0.00099
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
Shot Volume	(uL)	:	50	CAL FACTOR (Report):	0.19881

		DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L) : <0.5	Benzen e	(mg/Kg):	#VALUE!	0.497
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	#VALUE!	0.497
Ethylbenzene	(ug/L) : <0.5	Ethylbenzene	(mg/Kg):	#VALUE!	0.497
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/Kg):	#VALUE!	0.994
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	#VALUE!	0.497
		Total xylenes	(mg/Kg):	#VALUE!	1.491
		Total BTEX	(ma/Ka):	#VALUE!	