3R - 179

REPORTS

DATE:

2000

EL PASO FIELD SERVICES

Certified Mail: **#7000 1670 0012 7260 6739**

February 26, 2001

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: 2000 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports (Volumes 1-4), EPFS hereby requests closure of six sites. The six sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports". Four of the six sites were submitted in last years report and a decision has not been made on closure. The remaining two sites have been submitted in previous years and denied closure.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this years report and will be submitted by the required deadline of April 1, 2001

EPFS has also included for your information six Navajo sites in a separate binder.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7000 1670 0012 7260 6722**
Mr. Bill Liesse, BLM – w / enclosures (federal sites only), **Certified Mail # 7000 1670 0012 7260 6715**

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services
Pit Project Groundwater Report
Annual Report
Volume II

March 2001

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 62800398

PSC

EPFS GROUNDWATER PITS
2000 ANNUAL GROUNDWATER REPORT

GALLEGOS CANYON UNIT COM A #142E
Meter/Line ID - 03906

SITE DETAILS

Legals - Twn: 29N **Rng:** 12W **Sec:** 25 **Unit:** G
NMOCD Hazard Ranking: 10 **Land Type:** FEE
Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Apr-94 **Excavation:** Apr-94 (20 cy) **Soil Boring:** Oct-95
Re-Excavation: Oct-96 (882 cy) **Monitor Well:** Feb-97 **Quarterly Sampling Initiated:** Aug-97

2000 ACTIVITIES

Annual Groundwater Monitoring - Annual groundwater monitoring was conducted during May of 2000.

SUMMARY TABLES

Groundwater analytical data are presented in Table 1. Copies of the laboratory data sheets and associated quality assurance/quality control data are presented as Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 2000.

DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

ISOCONCENTRATION MAPS

Isoconcentration maps were not generated for this site.

CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene above New Mexico groundwater standards.

Pertinent data from past groundwater reports include the following:
Groundwater measurements taken from temporary Geoprobe holes indicate that production pits are upgradient of the EPFS MW-1. Up-gradient Geoprobe hole shows levels of benzene, toluene, and total xylenes in the groundwater above NMWQCC groundwater standards. Levels of hydrocarbon constituents in groundwater from up-gradient Geoprobe holes are two orders of magnitude greater than hydrocarbon levels from MW-1. The production pits may be a source of hydrocarbon constituents in the groundwater at this site.

The operator was notified of the results observed in the 1997 groundwater report that indicate production pits may be the source of continued contamination of groundwater at the site.

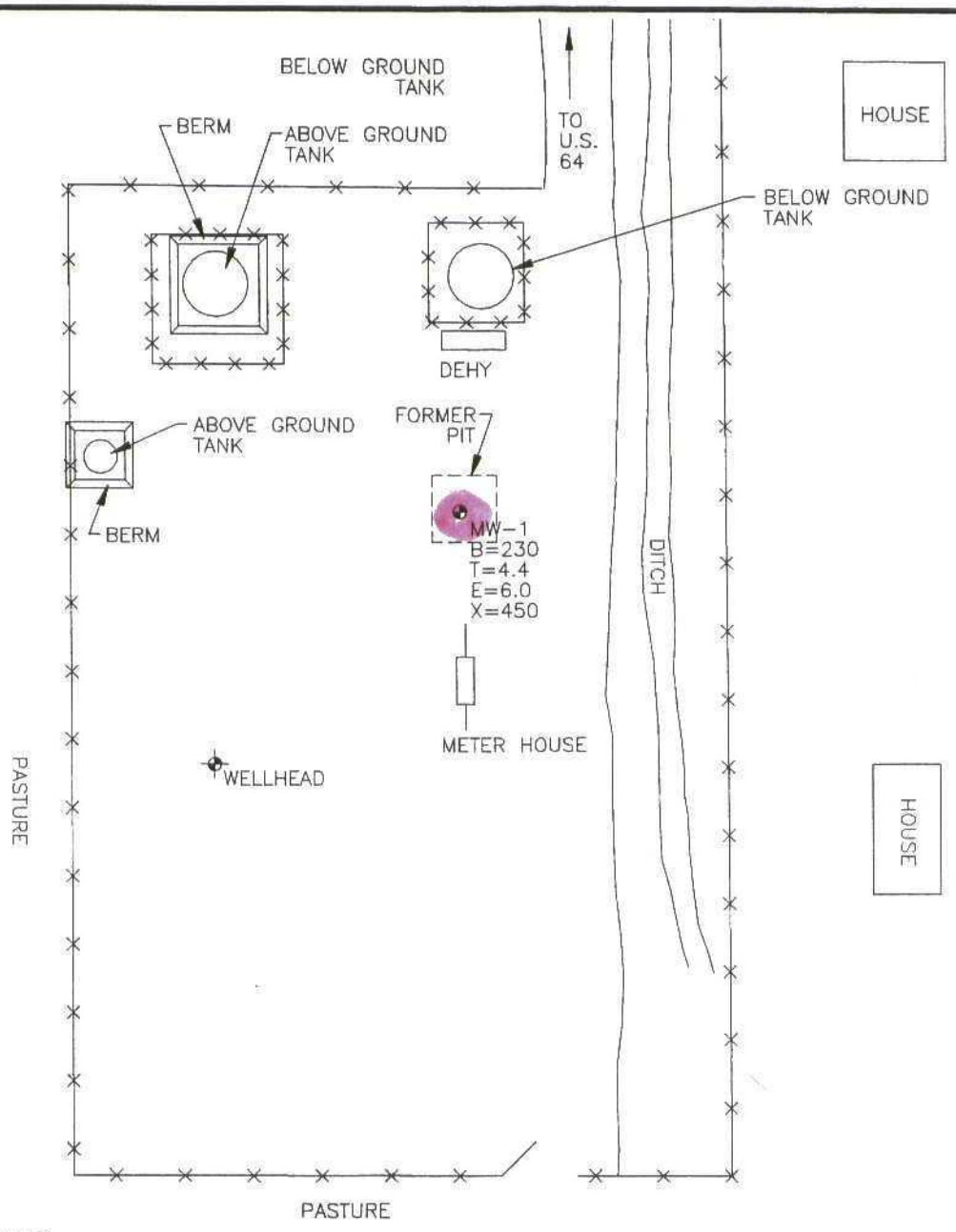
RECOMMENDATIONS

- EPFS proposes to continue annual sampling at the site until BTEX levels are lowered.
- Quarterly sampling will follow until BTEX levels are below NMWQCC standards for four consequtive quarters.
- EPFS will continue to provide the operator with pertinent site data regarding EPFS activities at the site.

Table 1

Sample #	Meter / Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX (PPB)
GCV-0005-MW1	03906	Gallegos Canyon Unit A 142 E	05/25/2000	1	Sample 1 - 6th Event	= 230.0	= 4.4	= 6.0	= 450.0	690.4

Sample 1 - Annual Sampling



LEGEND

MW-1	APPROXIMATE MONITORING WELL LOCATION AND NUMBER
B	BENZENE (ug\L)
T	TOLUENE (ug\L)
E	ETHYL BENZENE (ug\L)
X	XYLENE (ug\L)
ug\L	MICROGRAMS PER LITER

0 40
FEET

N

PHILIP SERVICES CORP

TITLE:
GALLEGOS CANYON UNIT A142E
METER 03906
MAY 25, 2000

DWN: TMM	DES.: LW	PROJECT NO.: 62800219	
CHKD: LW	APPD: MN	EPFS GW PITS	
DATE: 1/30/01	REV.: 0	FIGURE 1	

COIL 628\002191-003

ATTACHMENT 1

2000 GROUNDWATER ANALYTICAL

PHILIP ENVIRONMENTAL

Well Number MW-1

☐ Develo ☒ Purging

WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-

Project Name EPFS QUARTERLY SAMPLING Project Manager ROBERT THOMPSON Project No. 92800007

Client Company EL PASO FIELD SERVICES Phase.Task No. 0301

Site Name GCU COM A # 142E (03906) Site Address RURAL SAN JUAN COUNTY

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other

Methods of Development

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 21.72 TOR
Initial Depth to Water (feet) 16.44 TOR
Height of Water Column in Well (feet) 5.28
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	5.28	3.45 x 3	10.3
Gravel Pack			
Drilling Fluids			
Total			10.3

Instruments

	Serial No. (If applicable)
☒ pH Meter	HYDAC
☐ DO Monitor	
☒ Conductivity Meter	HYDAC
☒ Temperature Meter	HYDAC
☐ Other	

Water Disposal

KURZ SEPARATOR, BLOOMFIELD, NM.

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5/25/00	1448		X				2	2			21.6	6.67	1250		DARK BROWN/GREY
"	1452		X				2	4			18.2	6.69	1110		"
"	1458		X				2	6			18.8	7.09	1070		"
"	1502		X				2	8			16.9	7.17	1050		CLEAR

Circle the date and time that the development criteria are met.

Comments WELL BAILED DRY AT 8'; LET RECHARGE + SAMPLED FOR BTEX AT 1508

Developer's Signature(s) Juan Wagner Date 5/25/00 Reviewer RT Date 5/25/00

PHILIP

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2556

Project Name: EPFS QUARTERLY SAMPLING
Project Number: 62800101 Phase . Task: 0301
Samplers: R. THOMPSON
Laboratory — Name: PINNACLE LABS
Laboratory — Location: ALBUQUERQUE, NM

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle	Comments
GCU 0009 MW-1	5/25/00	1508	H2O	[illegible]		GCU COM A #142E 03906

Relinquished by:

Signature	Date	Time
[signature]	5/25/00	1612

Received By:

Signature	Date	Time

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)

- ☐ Cyanide .... Sodium hyroxide (NaOH)
- ☒ Volatile Organic Analysis .... Hydrochloric acid (HCl)
- ☐ Metals .... Nitric acid (HNO_3)
- ☐ TPH (418.1) .... Sulfuric acid (H_2SO_4)
- ☐ Other (Specify) ______
- ☐ Other (Specify) ______

Carrier: EXCAVATING LABS

Airbill No. GCU00065074 9

Shipping and Lab Notes:

PE-176 4/95

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **005109**
May 31, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

EL PASO FIELD SERVICES
614 RIELY STREET
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING
Project Number 62800107

Attention: Robert Thompson/LeAudra Stanley

On 05/26/00 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 005109
PROJECT #	: 62800107	DATE RECEIVED	: 05/26/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 05/31/00

PIN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	GCV 0005-MW01	AQUEOUS	05/25/00

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : PHILIP ENVIRONMENTAL
PINNACLE I.D.: 005109
PROJECT # : 62800107
PROJECT NAME : EPFS QUARTERLY SAMPLING

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GCV 0005-MW01	AQUEOUS	05/25/00	NA	05/27/00	2

PARAMETER	DET. LIMIT	UNITS	GCV 0005-MW01
BENZENE	0.5	**UG/L**	**230**
TOLUENE	0.5	**UG/L**	**4.4**
ETHYLBENZENE	0.5	**UG/L**	**6.0**
TOTAL XYLENES	0.5	**UG/L**	**450**

SURROGATE:
BROMOFLUOROBENZENE (%) 104
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 005109
BLANK I. D.	: 052600	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 05/26/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		102
SURROGATE LIMITS:	(80 - 120)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 005109
BLANK I. D.	: 052700	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 05/27/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		100
SURROGATE LIMITS:	(80 - 120)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED		
MSMSD #	: 005101-04	PINNACLE I.D.	: 005109
CLIENT	: PHILIP ENVIRONMENTAL	DATE EXTRACTED	: NA
PROJECT #	: 62800107	DATE ANALYZED	: 05/26/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	18.3	92	18.8	94	3	(80 - 120)	20
TOLUENE	<0.5	20.0	18.2	91	18.9	95	4	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	20.6	103	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	61.4	102	61.1	102	0	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PHILIP ENVIRONMENTAL

Chain of Custody Record

4000 Monroe Road
Farmington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

005109

COC Serial No. C 2556

Project Name: EPFS QUARTERLY SAMPLING
Project Number: 62800107 Phase . Task 0301
Samplers: R. THOMPSON
Laboratory: Name: PINNACLE LABS; Location: ALBUQUERQUE, NM

Type of Analysis and Bottle

Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	BTEX						Lab ID #						Comments
GCU 0005 MW-1	5/25/00	1508	H_2O	2	X						01						GCU Com A # 1426 03906

Relinquished by:

Signature	Date	Time
[signature]	5/25/00	1612

Received By:

Signature	Date	Time
Francine [signature]	5/26/00	1110

Samples Iced: ☒ Yes ☐ No

Preservatives (ONLY for Water Samples)
- ☐ Cyanide .... Sodium hyroxide (NaOH)
- ☒ Volatile Organic Analysis .... Hydrochloric acid (HCl)
- ☐ Metals .... Nitric acid (HNO_3)
- ☐ TPH (418.1) .... Sulfuric acid (H_2SO_4)
- ☐ Other (Specify) ______
- ☐ Other (Specify) ______

Carrier: GREYHOUND LINES Airbill No. GLI1600650749

Shipping and Lab Notes:

Rec'd @ 6°C