

3R - 154

REPORTS

DATE:

1998

Certified Mail: #Z 211 324 121

March 31, 1999

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RECEIVED

APR 05 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 1998 Pit Project Annual Groundwater Report

Dear Mr. Olson:

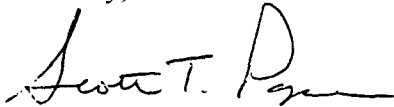
In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

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 # Z 211 324 122**
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 211 324 123**
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 211 324 120**

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services
Final Closure Report For Groundwater Sites With Four
Consecutive Quarters Below Standards

RECEIVED

APR 05 1999

December 1998

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520
Book 1



EPFS GROUNDWATER PITS 1998 CLOSURE REPORT

CANDADO #23 (MV/CH)
Meter/Line ID - 93195/93196

RECEIVED

APR 05 1999

SITE DETAILS

Legals - Twn: 26N Rng: 7W Sec: 9 Unit: B
NMOCD Hazard Ranking: 40 Land Type: FEDERAL
Operator: CENTRAL RESOURCES INC.

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

PREVIOUS ACTIVITIES

Site Assessment: May-94 Excavation: Jun-94 (80 cy) Soil Boring: Mar-97
Monitor Well: Mar-97

The pit was excavated to 6 feet beneath ground surface (bgs) where groundwater was encountered. A composite soil sample was collected from the excavation bottom and four walls. Approximately 80 cubic yards of impacted soil were removed from the excavation. The headspace soil reading from the excavation bottom was 19 ppm. Soil analytical was as follows; benzene - <0.025 mg/kg, total BTEX - 0.103 mg/kg, TPH (418.1) - <10 mg/kg. It should be noted that the initial water sample collected from the pit was not collected from a properly constructed groundwater monitor well and would not accurately represent actual groundwater conditions. The initial water sample was contaminated by soils that were being excavated from the pit.

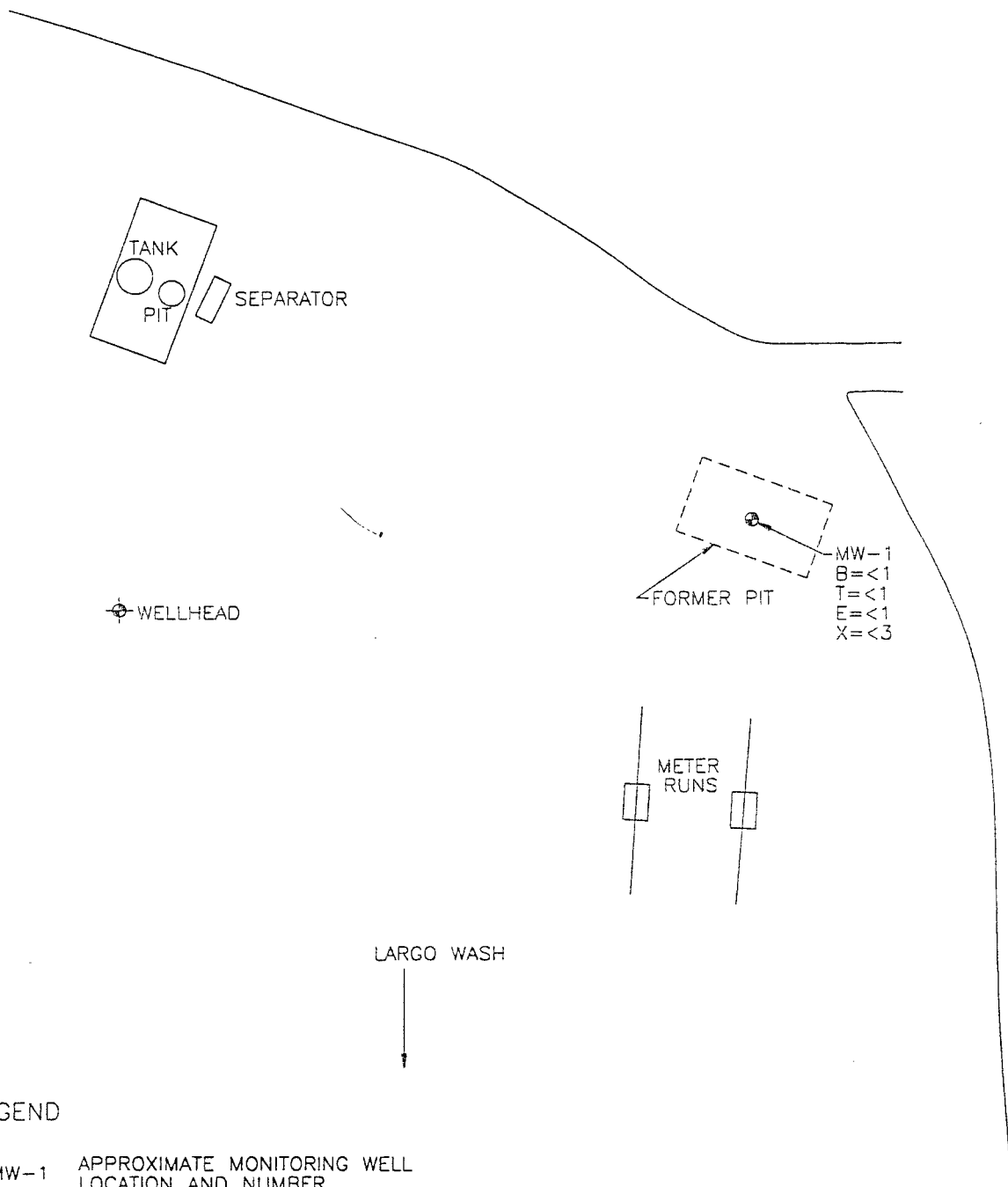
One soil boring was drilled in the center of the former pit. Groundwater was encountered at approximately 6 feet bgs and a monitoring well was installed. No soil samples were collected. Quarterly groundwater monitoring was initiated on 4/16/97 and continued through 3/19/98. Groundwater analytical data are presented in Table 1. Groundwater analytical data prior to 1998 has been previously submitted in the 1997 Annual Report, along with boring logs and monitoring well installation diagrams.

CONCLUSIONS

Groundwater analytical data has been below standards for 4 consecutive quarters since quarterly sampling was initiated. Minimal impact to groundwater has occurred at this site.

RECOMMENDATIONS

- EPFS request closure at this site.
- Following OCD approval for closure, MW-1 will be abandoned following OCD approved abandonment procedures.



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

NOT TO SCALE



COL 17520AC-002 PSC PHILIP SERVICES CORP.	TITLE:	OWN:	DES.:	PROJECT NO.:
	CANDADO #23 93195	TMM	CC	17520
		CHKD:	APPD:	EPFS GW PITS
		CC		
	DATE:	REV.:	FIGURE 1	
	12/8/97	0		

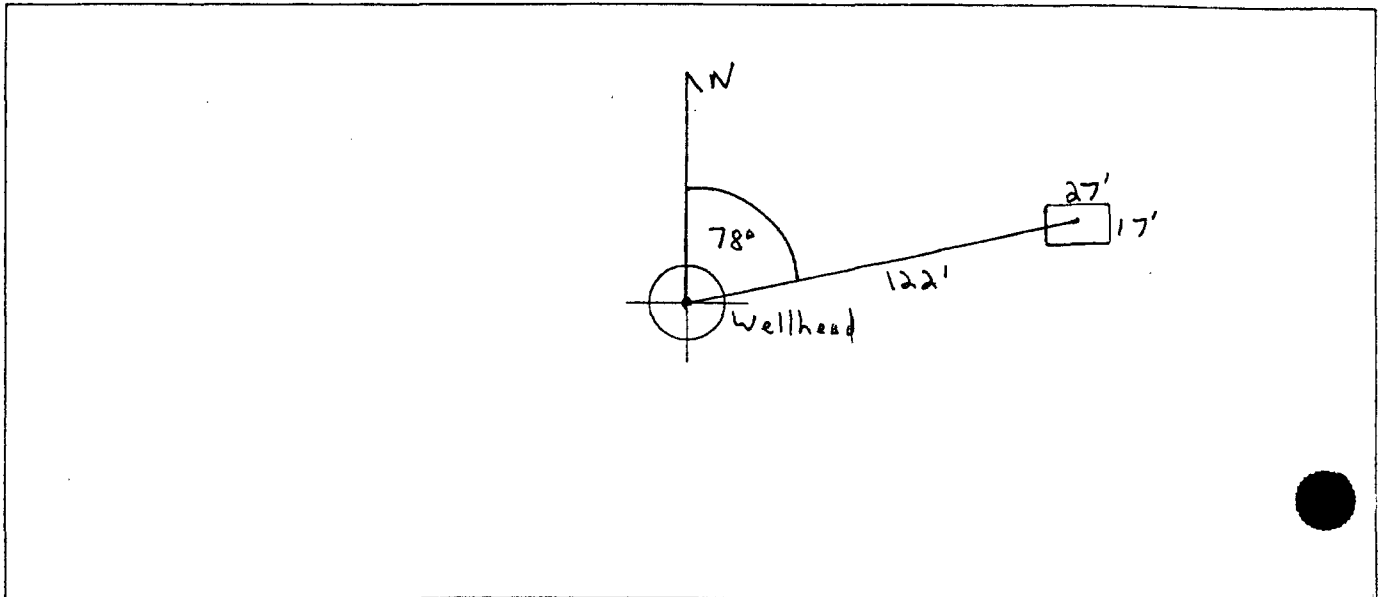
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>93/95</u> Location: <u>CANDADO 23 (MV)</u> Operator #: <u>6311</u> Operator Name: <u>Central Resource</u> District: <u>Blanco</u> Coordinates: Letter: <u>B</u> Section <u>9</u> Township: <u>26</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: ☒ Line Drip: _____ Other: _____ Site Assessment Date: <u>5/18/94</u> Area: <u>03</u> Run: <u>72</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2) Land Type: BLM ☒ (1) 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) 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 <u>Large Canyon</u> (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' TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS	
REMARKS	Remarks : <u>Redline + Vola - Inside</u> <u>3 pits. Close 1. Pit Dry. CH + MV using Same PIT</u> <u>DIG + HAUL</u>	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 78° Footage from Wellhead 122'
 b) Length : 27' Width : 17' Depth : 4'

ORIGINAL PIT LOCATION



Remarks :

Pictures @ 1311(b-10)
Dump Truck

REMARKS

Completed By:

Cory Chang
 Signature

5/18/94
 Date

PHASE I EXCAVATION

FIELD REMEDIATION/CLOSURE FORM

43196

Meter: 93195 Location: Candado #23 mve CH

Coordinates: Letter: B Section 9 Township: 26 Range: 7

Or Latitude _____ Longitude _____

Date Started : 6-2-94 Area: 03 Run: 72

Sample Number(s): KD 96

Sample Depth: 6' Feet

Final PID Reading 19 ppm PID Reading Depth 6' Feet

Yes No

Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth 6' Feet

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 80

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-2-94 Pit Closed By: BEI

Remarks : Pit appeared highly contaminated to about 5', at 6' slight discoloration of soil noted along with water seeping into pit. Cleared pit up at 6', took PID sample, closed pit.

Signature of Specialist: Kerry Leaver



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

6D96	945334
93196 / 93195	N/A
6-2-94	1135
N/A	N/A
6-6-94	6/6/94
6/9/94	6/10/94
VL	Brown sand

REMARKS: Reference to water sample 945347

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.025	MG/KG	1			
TOLUENE	0.025	MG/KG	1			
ETHYL BENZENE	0.025	MG/KG	1			
TOTAL XYLENES	0.028	MG/KG	1			
TOTAL BTEX	0.103	MG/KG				
TPH (418.1)	<10	MG/KG			2.15	28
HEADSPACE PID	19	PPM				
PERCENT SOLIDS	80.0	%				

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

The Surrogate Recovery was at 91 % for this sample All QA/QC was acceptable.

ATI results attached.

DF = Dilution Factor Used

Approved By:

Date:

7/14/94

CHAIN OF CUSTODY RECORD

Page 6 of 6

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTACT LABORATORY P. O. NUMBER	
SAMPLERS: (Signature)		DATE		DATE		DATE		DATE	
LAB ID	DATE	MATRIX	SAMPLE NUMBER	TPH	BTEX	REMARKS	REMARKS	REMARKS	REMARKS
	6-2-94	soil	KD 96	X	X				
	6-2-94	soil	KD 97	X	X				
RELINQUISHED BY: (Signature) <i>Kenny Dean</i> DATE/TIME 33 6-2-94 1855 RECEIVED BY: (Signature) <i>Brenda Fries</i> DATE/TIME 280 6/3/94 0820									
RELINQUISHED BY: (Signature) <i>Kenny Dean</i>				RECEIVED BY: (Signature) <i>Brenda Fries</i>		RELINQUISHED BY: (Signature) <i>Brenda Fries</i>		RECEIVED BY: (Signature) <i>Kenny Dean</i>	
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH				RESULTS & INVOICES TO: FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261					
CARRIER CO.				CHARGE CODE					
BILL NO.:				505-599-2144					

PRELIMINARY GROUNDWATER ASSESSMENT CHECKLIST

meter #: 93196

water sample lab ID: 945347

soil sample lab ID: 94533

1. Groundwater/Hydrology:

- What material is the pit in?
loose: ☐ gravel ☒ sand ☐ silt ☐ clay
hard: ☐ sandstone ☐ shale
- How far below ground surface did you first see water? 6 (feet)
- What material was the water in?
loose: ☐ gravel ☒ sand ☐ silt ☐ clay
hard: ☐ sandstone ☐ shale
- How much water did you see in this layer?
☐ rapid flow ☒ moderate flow ☐ seep
- Did you find a confining layer below the water? ☐ Yes ☒ No
If so, how deep 25 (feet)
- What was the consistency of this confining layer?
loose: ☐ gravel ☐ sand ☐ silt ☐ clay
hard: ☐ sandstone ☐ shale
- How close is the pit to an arroyo/stream:
Vertically 25 (feet) Horizontally 600 (feet)
- Attach a sketch of the area with the pit, any arroyos, streams or cliffs. Draw an arrow pointing North. Draw an arrow showing surface drainage away from the pit. Give approximate distances.

REMARKS: SIDE'S CONTINUING TO CAVE OFF INTO EXCAVATION, EXTREMELY SANDY SOIL

Contaminant Migration:

- How far below grade does soil staining start? 2 (feet)
- Is there free oil on the water? ☒ Yes ☐ No
If so, how much ☒ sheen ☐ drops ☐ layers
- What other sources of contamination are close to the pit?
OPERATOR: SEPARATOR PIT AND TANK PIT

REMARKS: APPROX. 40 yds and 60 yds downstream of FENG PIT

3. Potential risk: (Use approximate distances)

- How close is nearest dwelling? 3 MILES TO LARGE PLT. (feet/miles)
- How close is nearest water well? N/A (feet/miles)
- How close is nearest surface water body? (ditch, pond, stream, etc.)
LARGE WASH - 600 FT (feet/miles)
- How close is nearest spring? N/A (feet/miles)

REMARKS: DUAA COMBINATION OF CANADO 23 CH-93196 and CANADO 23 MV 93195
OPERATOR #311: CENTRAL RESOURCES INC.
LETTER "B" SECTION 9 TN-26-N R-7-W BLM LAND

APPROVAL TO CLOSE PIT GIVEN BY JOHNNY ROBINSON OF OGD
ON THIS DATE 6-2-94 UNABLE TO CONTACT DENNY FOUST

SIDE'S STILL SHOWING CONTAMINATION, BOTTOM BELOW
WATER LEVEL CLEAN



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	945347
MTR CODE SITE NAME:	93196
SAMPLE DATE:	6-2-94
SAMPLE TIME (Hrs):	1115
SAMPLED BY:	Ricky Cosby
DATE OF BTEX ANALYSIS:	6/6/94
SAMPLE TYPE:	G

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	1340	D(20)	10
TOLUENE	4390	D(50)	740
ETHYL BENZENE	1090	D(20)	750
TOTAL XYLENES	6450	D(50)	620
SURROGATE % RECOVERY	116	Allowed Range 80 to 120 %	

NOTES:

Approved By:

John F. Smith

6/6/94

Date



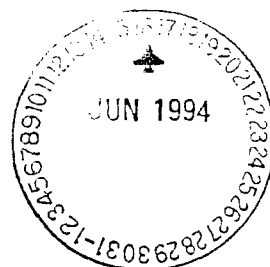
Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 406331

June 15, 1994

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/08/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-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.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406331
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945334	NON-AQ	06/02/94	06/09/94	06/10/94	1
02	945335	NON-AQ	06/02/94	06/09/94	06/10/94	20
03	945336	NON-AQ	06/02/94	06/09/94	06/10/94	1
PARAMETER			UNITS	01	02	03
BENZENE			MG/KG	<0.025	0.70	<0.025
TOLUENE			MG/KG	<0.025	66	0.031
METHYLBENZENE			MG/KG	<0.025	24	<0.025
TOTAL XYLENES			MG/KG	0.028	210	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	91	122*	96
------------------------	----	------	----

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II SOIL BORING

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH- 2

Well # _____

Page 1 of 1

Project Name EPFS GW PITS

Project Number 17520 Phase 6001.77

Project Location CANDADO #23 (MV)(CH)

93195/93196

Well Logged By D CESARK

Personnel On-Site D CHARLEY, S ARCHULETA

Contractors On-Site _____

Client Personnel On-Site _____

Elevation _____

Borehole Location T20 R7 - S9 - Ltr B

GWL Depth 6' BGS

Logged By D CESARK

Drilled By M DONOHUE

Date/Time Started 3/10/97 - 1200

Date/Time Completed " - 1230

Drilling Method 4 1/4" ID HSA

Air Monitoring Method PID, CGI

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			Drilling Conditions & Blow Counts
0				BACKFILL						
5				TO 6'						
				GWCG'						
10										
15				TD = 13'						
20										
25										
30										
35										
40										

NO SAMPLES COLLECTED

Comments:

GW ENCOUNTERED @ 6' BGS, OVER-DRILLED TO 13' BGS, COMPLETED MW, NO SAMPLES WERE COLLECTED. PLEASE REFER TO WELL COMPLETION DIAGRAM.

Geologist Signature

[Signature]

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # 2

Well # 1

Page 1 of 1

Project Name EPFS GW PITS

Project Number 17520 Phase 6002.77

Site Location CANDADO #23 (MV) (CH)

93195193196

On-Site Geologist D CESARK

Personnel On-Site D CHARLEY

Contractors On-Site

Client Personnel On-Site

Elevation

Well Location T26N-R7W-S9-L1B'

GWL Depth 6' BGS

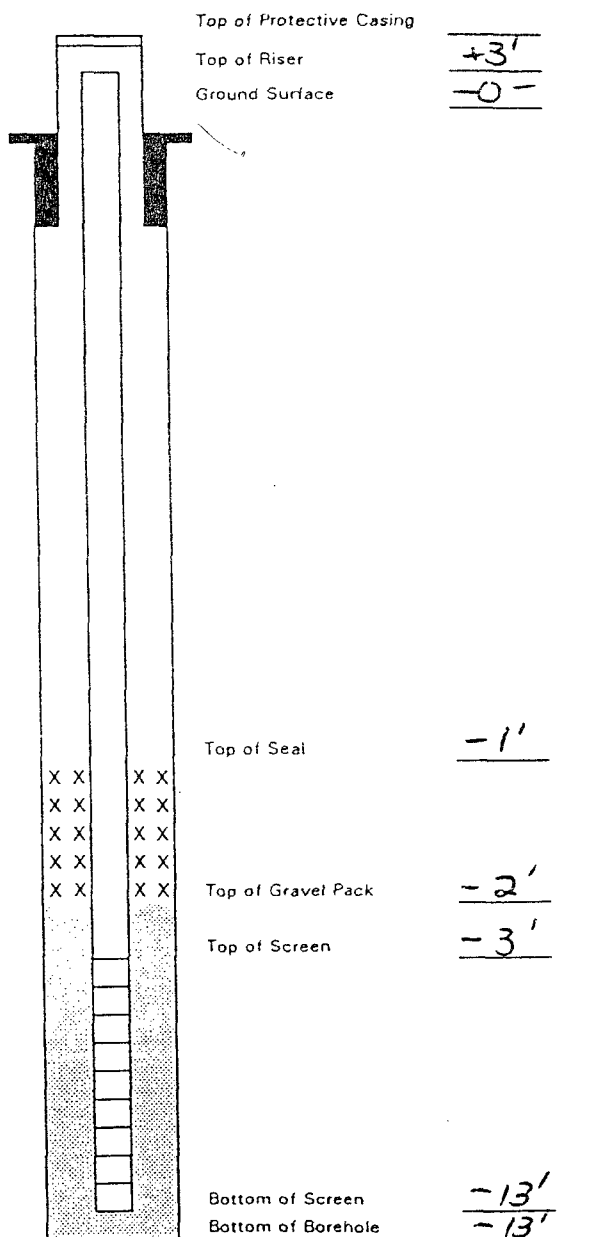
Installed By M DONOHUE

Date/Time Started 3/10/97 - 1230

Date/Time Completed " - 1300

Depths in Reference to Ground Surface

Item	Material	Depth (feet)
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		N/A
Bottom of Permanent Borehole Casing		N/A
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser	SCH 40 PVC	+3'
Bottom of Well Riser	"	-3'
Top of Well Screen	.010 SLOT	-3'
Bottom of Well Screen	"	-13'
Top of Peltonite Seal	ENVIRO PLUG	-1'
Bottom of Peltonite Seal	"	-2'
Top of Gravel Pack	10-20 S.SND.	-2'
Bottom of Gravel Pack	"	-13'
Top of Natural Cave-In		-13'
Bottom of Natural Cave-In		-13'
Top of Groundwater		-6'
Total Depth of Borehole		-13'



Comments:

Geologist Signature

[Handwritten Signature]

PHILIP
ENVIRONMENTAL

Well Development and Purging Data

MW-1

Page 1 of 1

0 CHANCE

17520

Phase, Task No. 6003, 77

Site Address _____

Water Volume Calculation

Initial Depth of Well (feet) 13' RGS

13, 865

Initial Depth to Water (feet) 3' 8GS

3' 8GS

Height of Water Column in Well (feet) 10

(feet) 10

Diameter (inches): Well 4 Gravel Pack

Water Volume in Well

Well	Gallon
------	--------

ions	Rar
------	-----

—
w

☐ Other

Water Disposal

[illegible]

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

Comments WELL HEAD WAS LOCKED + INTRCT. 1ST SEVERAL BAILEYS WERE CLEARE. REMOVED KNOT OF MUD. NERELY BAILED WELL DEY. NO EVIDENCE OF HCS. A

Developer's Signature(s)

Date 4/16/97

Reviewer _____ Date _____



Water Sampling Data

Location No. MW-1

Serial No. WSD- _____

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 4/16/97Project Name EPFS GW PITS Project No. 17520Project Manager C CHANCE Phase/Task No. 6003.77Site Name CANDADO 23 (MV, CH) - 93196/93195

Sampling Specifications

Requested Sampling

Depth Interval (feet) _____

Requested Wait Following

Development/Purging (hours) _____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) _____

Initial Water Depth (feet) _____

Nonaqueous Liquids Present (Describe) _____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data				Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/ cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (feet)	Bail	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); — = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
EPA 8020 BTEX	182	G/VV	40		X	X	X		DRC 38 - TRIP BLANK
	2	"	"		X	Y	X		DRC 39 - MW-1

Filter Type _____ Chain-of-Custody Form Number _____

Comments * PLEASE REFER TO WELL DEVELOPMENT + PURGING DATA FORM.Signature [Signature] Date 4/16/97 Reviewer _____ Date _____



EL PASO FIELD SERVICES



5-5-97

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	DRC 39	970315
MTR CODE SITE NAME:	93196/93195	Canado 23
SAMPLE DATE TIME (Hrs):	4/16/97	1030
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL:	4/18/97	4/18/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	1.98	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	4.15	PPB				
TOTAL XYLENES	6.31	PPB				
TOTAL BTEX	12.4	PPB				

The Surrogate Recovery was at 90.0 % for this sample All QA/QC was acceptable.

Narrative:

Approved By:

John L. Smith

Date:

4/24/97



CHAIN OF CUSTODY RECORD

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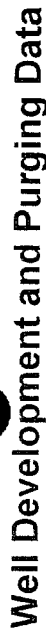
White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FAX: 505-599-2261

QUARTERLY MONITORING RESULTS

Sample #	Meter/ Line #	Site Name	Sample Date	Project	S1	Benzene (PPB)	S2	Toluene (PPB)	S3	Ethyl Benzene (PPB)	S4	Total Xylenes (PPB)	S7	Total BTEX PPB
970315 *	93195	Candado 23 (MV, CH)93195	4/16/97	Phase II Drilling - Initial	=	1.98	<	1	=	4.15	=	6.31	=	12
970529 *	93195	Candado 23 (MV, CH)93195	6/5/97	Sample 4 - 1st Qtr	<	1	<	1	<	1	<	3	<	6
970971 *	93195	Candado 23 (MV, CH)93195	9/11/97	Sample 4 - 2nd Qtr	<	1	<	1	<	1	<	3	<	6
971262 *	93195	Candado 23 (MV, CH)93195	12/2/97	Sample 4 - 3rd Qtr	<	1	<	1	<	1	<	3	<	6
980241	93195	Candado 23 (MV, CH)93195	3/19/98	Sample 4 - 4th Qtr	<	1	<	1	=	1.94	<	3	<	2

* Analytical reports provided to NMOCD in prior annual report.



Well Number MW-1

Meter Code 93195

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

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

☐ Other

Initial Depth of Well (feet) 15.90
Initial Depth to Water (feet) 5.39
Height of Water Column in Well (feet) 10.51

Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		6.9	20.8
Gravel Pack			
Drilling Fluids			
Total			

☒	pH Meter
☐	DO Monitor
☒	Conductivity Meter
☒	Temperature Meter
☒	Other <u>D.O. Check</u>

Water Disposal

KUTZ SEPARATOR

[illegible]

Developer's Signature *Denise Bird*

Date 3-19-98 Reviewer

Date 3/25/98



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980241
MTR CODE SITE NAME:	93195	Candado #23
SAMPLE DATE TIME (Hrs):	3/19/98	1332
PROJECT:	Sample 4 4th Quarter	
DATE OF BTEX EXT. ANAL.:	3/23/98	3/23/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	1.94	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	2	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 102.4 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: _____

3/25/98

980241BTEXMW, 3/25/98



QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX

Samples: 980232, 980234, 980235, 980240 to 980246

QA/QC for 3/23/98 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	52.3	104.6	75 - 125 %	X
Toluene	Standard	50.0	53.3	107	75 - 125 %	X
Ethylbenzene	Standard	50.0	54.1	108	75 - 125 %	X
m & p - Xylene	Standard	100	108.9	108.9	75 - 125 %	X
o - Xylene	Standard	50.0	53.5	107	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	26.6	106.6	39 - 150	X
Toluene	Standard	25.0	27.2	109	46 - 148	X
Ethylbenzene	Standard	25.0	27.5	110	32 - 160	X
m & p - Xylene	Standard	50.0	55.9	112	Not Given	X
o - Xylene	Standard	25.0	27.2	109	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	52.3	104.7	75 - 125 %	X
Toluene	Standard	50.0	53.1	106.2	75 - 125 %	X
Ethylbenzene	Standard	50.0	54.4	108.8	75 - 125 %	X
m & p - Xylene	Standard	100	109.6	109.6	75 - 125 %	X
o - Xylene	Standard	50.0	53.3	107	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	52.2	104.4	75 - 125 %	X
Toluene	Standard	50.0	52.7	105.4	75 - 125 %	X
Ethylbenzene	Standard	50.0	53.8	107.6	75 - 125 %	X
m & p - Xylene	Standard	100	108.4	108.4	75 - 125 %	X
o - Xylene	Standard	50.0	52.8	105.7	75 - 125 %	X

Narrative: Acceptable.

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.9	103.9	75 - 125 %	X
Toluene	Standard	50.0	51.9	103.9	75 - 125 %	X
Ethylbenzene	Standard	50.0	52.1	104.1	75 - 125 %	X
m & p - Xylene	Standard	100	105.0	105.0	75 - 125 %	X
o - Xylene	Standard	50.0	51.9	103.8	75 - 125 %	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
980232					RANGE	
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2	<2	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 980232					RANGE	
Benzene	50	<1	52.7	105.4	75 - 125 %	X
Toluene	50	<1	53.3	107	75 - 125 %	X
Ethylbenzene	50	<1	54.6	109	75 - 125 %	X
m & p - Xylene	100	<2	110.0	110.0	75 - 125 %	X
o - Xylene	50	<1	53.4	107	75 - 125 %	X

Narrative: Acceptable.

AUTO BLANK	SOURCE	PPB (4 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK	SOURCE	PPB (4 analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: CFV

Approved By: John L. Linder

Date: 3/25/98