3R - /88

# REPORTS

DATE:
34/9/1996

August 20, 1996

Mr. Bill Olson New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

RECEIVED

AUG 2 0 1996

Environmental Bureau
Oil Conservation Division

**RE:** Production Pit Closure Submittal

Dear Mr. Olson:

Enclosed herein are data packages for work completed at El Paso Field Services (EPFS) production pit locations where shallow groundwater was encountered during closure operations. The data included within indicate that these sites merit closure per the New Mexico Oil Conservation Division's (NMOCD) Vulnerable Area Orders and EPFS's closure plan submitted to the NMOCD. In front of each data package is a site specific checklist that indicates the work completed at each location. Each checklist is followed by a short summary of the activities and results of data collected to support closure.

Sincerely,

El Paso Field Services

Sandra Miller

Senior Environmental Manager

Sundre O Mille.

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# SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

Pit Closure Report

**July 1996** 

**Prepared For** 

El Paso Field Services Farmington, New Mexico

Project 16297



# Closure Checklist

Meter Code	70595	
Summary Site Map Site Assessment Sheet		চাচাট
Phase I Excavation closure form soil analytical results soil chain-of-custody groundwater analytical results groundwater chain-of-custody bills of lading	<u>4-es</u>	RODERE E
Phase II Soil Boring boring log soil analytical results soil chain-of-custody well installation form development form groundwater analytical groundwater chain-of-custody	YES	ঠাঠাঠাঠাঠাঠ
Phase III Excavation closure form soil analytical results soil chain-of-custody groundwater analytical groundwater chain of-custody bills of lading	NO	
Recon performed groundwater analytical soil-gas analytical	No	

If item boxes are not checked they are not applicable



Southern Region

# Hammond Federal No. 1 Meter Code 70595

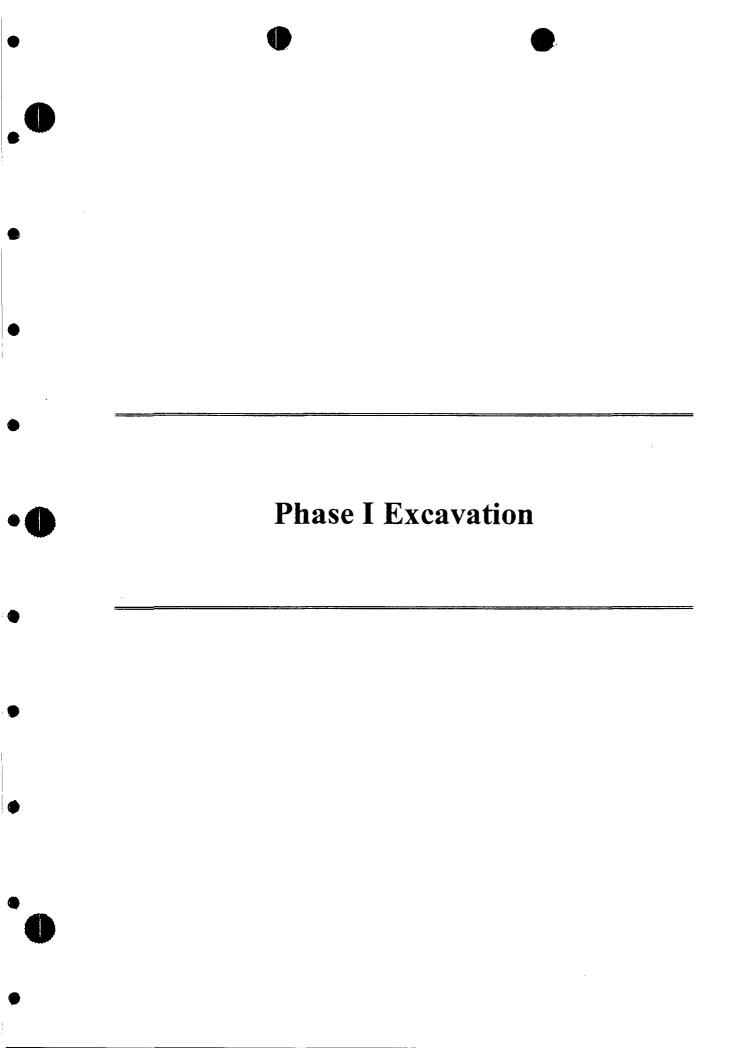
Pit was excavated to 12 feet beneath ground surface. Headspace soil readings from excavation bottom were 442 parts per million. Soil analytical were as follows; benzene -<0.5 mg/kg, total BTEX - 40 mg/kg, TPH - 596 mg/kg.

One soil boring was completed and a monitoring well installed. Soil boring analytical results were as follows; benzene - <.5 mg/kg, total BTEX - 1 mg/kg, TPH - 49.5 mg/kg. Groundwater was encountered at 30 feet. Initial groundwater analytical were as follows; benzene - <2.5 ug/L, toluene - <2.5 ug/L, ethylbenzene - 7.06 ug/L, xylenes - 101 ug/l. Second groundwater analytical were as follows; benzene - <1.0 ug/L, toluene - <1.0 ug/L, ethylbenzene - 1.4 ug/L, xylenes - 16.1 ug/l.

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 70595 Location: Hummond F.D. No./ Operator #: 028b Operator Name: Conoco P/L District: Ballard Coordinates: Letter: L Section 25 Township: 27 Range: 8  Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 6/13/94 Area: 07 Run: 51
ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Feet (20 points)  Greater Than 100 Ft (0 points)  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)  [3]  [4]  [5]  [6]  [7]  [8]  [8]  [8]  [9]  [1]  [1]  [1]  [1]  [1]  [1]  [2]  [1]  [2]  [3]  [4]  [5]  [6]  [7]  [7]  [8]  [8]  [8]  [9]  [1]  [1]  [1]  [1]  [1]  [1]  [2]  [2
SITE ASSI	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 Large Confect  (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'
0	TOTAL HAZARD RANKING SCORE: 40 POINTS
REMAR	Remarks: Redline Book-Inside, Vunlerable Zone Topo-Inside

	ORIGINAL PIT LOCATION
	Original Pit: a) Degrees from North 329° Footage from Wellhead 23′ b) Length: 16′ Width: 16′ Depth: 3′
ORIGINAL PIT LOCATION	Nellhead 329.
	Remarks:  - fictures @ 1200 (20-23)
S)	Dump Truck
REMARKS	
<u> </u>	
R .	
:	
:	Completed By:
:	Completed By:    Completed By:



# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70595 Location: Hammond Fed # 1  Coordinates: Letter: L Section 25 Township: 27 Range: 8  Or Latitude Longitude  Date Started: 7/28/94 Run: 07 51
D OBSERVATIONS	Sample Number(s): KD 171  Sample Depth:
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 7/78/94  Pit Closed By:     Approx. Cubic Yards   50     Approx. Paper   50     Approx. Paper
ARKS	Remarks: Excavated pt to 12, Took PiD Sample, Closedpit.  Signature of Specialist: Wy Jan



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

# SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD171	945782
MTR CODE   SITE NAME:	70595	Hammond Fed #1
SAMPLE DATE   TIME (Hrs):	07/28/94	1045
PROJECT:	Pł	hase I
DATE OF TPH EXT.   ANAL.:	08/02/94	08/02/94
DATE OF BTEX EXT.   ANAL.:	08/04/94	08/05/94
TYPE   DESCRIPTION:	VC	Brown sand/clay

Field Remarks:				
	 	 	<del> </del>	 

# **RESULTS**

PARAMETER	RESULT	UNITS		QUALI	FIERS	
			DF	α	.∜M(g)	V(ml)
BENZENE	< 0.25	MG/KG	10			
TOLUENE	< 0.25	MG/KG	10			
ETHYL BENZENE	2.4	MG/KG	10_			
TOTAL XYLENES	37	MG/KG	10			
TOTAL BTEX	40	MG/KG				
TPH (418.1)	596	MG/KG			2.03	28
HEADSPACE PID	442	PPM		7-		
PERCENT SOLIDS	91.8	%				

TPH is by EPA Met	hod 418.1 and BTEX is by EPA M	ethod 8020
121	% for this sample	All QA/QC was acceptable.

performed analyses. Surrogate recovery was outside ATL QC limits due to matrix interference.

'urrogate Recovery was at

		·	
DF = Dilution Fact	tor Used		
Approved Ry:	John Treda	Date: 7/18 1/2.	



# CHAIN OF CUST JY RECORD

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CONTRACT LABORATORY P. O. NUMBER	#	24	154	155	95							DATETIME	DATECTIME		RESULTS & INVOICES TO: FIELD SI EL PASC P. O. BO	) : : : : : : : : : : : : : : : : : : :
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PROJECT NAME PIt Closure Project # 24324	DATE:	SAMPLE NUMBER	KD 170	KD 171	2210)							7/28/8/ 1730	DATE/TIME			
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PROJECT NAME PIT CLOSI	130	TIME		i .	1							ature)	ature)	NO TIME	H. H.	
	4 `	DATE	7/26/94 0915	Sh01 bof32/1	U23/4/5620							 RELINQUISHED BY: (Signatura)	RELINOUISHED BY: (Signature)	REQUESTED TURNAROUND TIME	B C RUSH	
PROJECT NUMBER	SAMPLERS: (Signature)	LABID										RELINGUISHED BY	RELINGUISE	AFOLIESTE	CARRIER CO	

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		ウェミナ	Early Co.	1 South	CARRIER:	PER: EL PASO I	HS
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spit as noted (contents and condition of contents of corporation in possession of the property under the to each carrier of all or any of, said property over all to all the bill of lading terms and conditions in the shipper and accepted for himself and his assigns.	ontents and con cossession of the of all or any of, s I lading terms a apted for himself	e shipper and acce	arent good order, el teaning any person its mutually agreed under shall be subje- teby agreed to by the	bed above in appart this contract as me said destination. It is performed hereu if conditions are here.	It Lading, the property describeing understood throughout another carrier on the route to perty, that every service to be cation and the said terms and cation and the said terms and	HECEIVED. Subject to the classifications and lawfully field lards in effect on the date of Issue of this Bill of Lading, the property described above in apparent good order, except as notice and above in the date of Issue of this Bill of Lading, the property described above in apparent good order, except as notice and above which said carried them you go wherstood throughout his contracts as meaning any person or corporation in passession of the property where the contract) agrees to carry to its usual place of delivery at said destination. If on its route, other carrier on the route to said destination and as to each carrier of all or any of said property over all or any office of the property where the contract of the profession of the delivery at a subject to all the bill of lading terms and conditions in the governing classification and the isolated adject altitudes with all he is familiar with all the bill of lading terms and conditions in the governing classification and thus and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.	(1) EQ Q Q P T
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		BACKFILL		N/A		ΥD	N/A
		BACKFILL		N/A		YD	N/A
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GAS 505/599-214 2262 BURLINGTON	DATE:	MEANY	chaged, marked and PLAC, regulations of the REQUI	ng terms and conditions in the governing cla	rins in effect on the date of ISSUE of this casted above which said carrier (the word costination, if on its route, otherwise to delive by at any time interested in all or any said.	ding \$ Per	are required to state specifically in v eed or declared value of the prope	Zip:	\. <u>.</u>				Hammond 41-A	mount Fel #			CM/ROTICH	Enveren	scription of Articles PROPER SHIPPING NAME)		Zip	N.	in
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ation	1-28-94		XX NO - FURNISHED BY CARRIER SIGNATURE:	If and his assigns	ration of contents or a property under the said property over all and conditions in the	to the extent provided by NAFC Item is must comply with NAFC Item 173	action in source and provide the state of th	PAID COLLECT	] 🛨	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LABELS REQUIRED (or exemption)	U.S. DOT Hazmat Reg. No.	24	78-94	./

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CARRIER:	DOUG FOUTZ CONSTRUCTION	SCAC		Carrier's No. 43	3373 Date	e 7-28-9	16-
TO: Consignee Street	OTECH US HI	FROM: Shipper I Street	EL PASO NATURAL GAS COMPA P.O. BOX 4990	URAL GAS C	3	24324	24
			V	Vehicle Number	$\dashv$	рот на	U.S. DOT Hazmat Reg. No.
No.	Kind of Packages, Description of Articles	HAZARD	I.D.	PACKING	WEIGHT	DATE	LABELS REQUIRED
Units TIM	(IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	CLASS	Number	GROUP	correction)		(or exemption)
7	hommond bed #1/ Envirance	CARBON CONTAMI-	70595	N/A	0	ΥD	N/A
	Hammand # SS / FOUCHOL	CAREBUS GONTAMI-	27/168	N/A	$\widehat{\mathcal{C}}$	Ϋ́D	N/A
		CAREONSCOUTAMI-	•	N/A		УD	N/A
		EXEMPT HYDRO- CARBON CONTAMI-	'	N/A		ΥD	N/A
	Europolich / Hammond Fed #1	BACKFILL	70598	N/A	O)	УD	N/A
	Excircles / Hammond #55	BACKFILL	241168	N/A	0/	Ą	N/A
		BACKFILL		N/A		УD	N/A
		BACKFILL		N/A		ΥD	N/A
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Remit C.O.D. to: Address:	(0:	C.O.D.	Amt:	C. O. D. Prepaid	iii S	FREIC	
City:	State: Zip:	Salar	nors of this sharpeon is to be	Collect	\$	AA PHEPAID	PAID COLLECT
OTE - Where the leagreed or declar specifically s	NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.	Writing Subject to Section 1 of the conditions, if the proposed is to be develved to the consignee without on the consequence in consequence substance the development statement. DETY IS The carrier shall not make develop of the shipment without payment of height and all other families. (Sephalum of Consequence)	plons, if this shipment is to be shall sign the following statement without pay any of this shipment without pay	be delivered to the consignee without ement payment of freight and all other lawful	which recourse Where the lightly NMF will charges shipper, and labely, that 172. Callot	applicable lant provising there is to their styles of the shipper does not usuabley shall be limited in a virtual state of the shipments of th	recorse Ninear the applicable lated promotion speedy a landation of the currier studying Nation (film 172), it develops not one sales or valve declaration by the charges of those and the stronger down and declare a valve or release the screen's charges. Inches the stronger of the Nation (film 172) and the National seasons are stronger or the National N
RECEIVED. subjections of any portion of a governing classific Shipper hereby ce	RECEIVED, subject to the classifications and savidly ided lands in sisted or his bill of Lading, the property described above in appearing good order, except as notice (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as its meaning any personation in possession of the property understood throughout this contract as its meaning any personation in possession of the property order that contract as its meaning and personation in the said property over all or any of said property over all or any said property. That every survice to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.	Bill of Lading, the property de arrier being understood through arr to another carrier on the routh of property, that every service is described and the said terms	scribed above in approut this contract as reliance to said destination. It is to be performed here and conditions are he	arent good order, e neaning any person t is mutually agreed under shall be subji	xcept as noted (co or corporation in p as to each carrier act to all the bill o	onlents and cor cossession of the of all or any of: I lading terms a epted for himsel	Idition of contents of the property under the said property over all and conditions in the stand has assigns
This is to certify that the labeled and are in proposed and are in proposed Department of Transporta	This is to certify that the above-named materials are properly classified described, packaged marked and labeled and are in proper condition for insemporation accommon the applicable regulations of the parameter of francontation of the XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ARDS IRED N/A		PLACARDS SUPPLIED	DRIVERS S	HIVERS SIGNATURE:	YES KYNO - FURNISHED BY CARRIER
SHIPPER:	EL PASO NATURAL GAS COMPANY	CARRIER:	R: X Auc	15472	(cm7		Y
PER:	PER: SANDRA MILLER DATE:  EMERGENCY RESPONSEEL PASO NATURAL GAS 505/599-2141	PER: Monitored at a	6 7	DATE: Y ~	Material is in	DATE: Y	4~285 ation

**Phase II Soil Boring** 

## RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc. 4000 Morroe Road Fermington, New Mexico 87401 (506) 326-2262 FAX (506) 326-2388

Date/Time Started

Date/Time Completed

Borehole #	BH-1
Well #	
Page	/ of /

Elevation	
Borehole Location	Latter L- S25-727-R8
GWL Depth	
Logged By	J.F. LaBarbera
Dallad Bu	K Padilla

Project Name EPNG PITS

Project Number 14509 Phase 6000.77

Project Location Hammand Fad #1 70575

Well Logged By

Personnel On-Site

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID, CGI

Depth (Foot)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		r Monito Jnits: pp BH	-	Drilling Conditions & Blow Counts
5				Fill						
15	1	/5~ <sub>/</sub> 5-l	· 0-	Black, loose, silty, vin to fin, SAND, dry, risibly impact	SM ø,		٦	7	1123 560	এপ্রক
20	2	2-71.	5.18	RR			i	49	156) 8az	خ9 <i>ا</i> 5
25 25	3	25-24s	JQ.	25-25.25 Bruin, med. tense, SILT, tr. clay, SI cdar, dry As. 15 Brown, med to ware, SANDTONIE, 11 the 51/4	mi		5	41	819	० १२३
30		3s-/		No recovery - spaon west	i		-7	107		30'- Came up 10 65,30' bys. 23' Jros
35			-	703 of 300000 3000000000000000000000000000000						Augar refusal and

Comments:

Sangle IT h 31 from 25-26 sent to lob for BTEX TPH analysis Waster came up to distillage. Sat 4" montaring wall at 30 fter 23.15/200 Drath to water after Geologist Signature John Johnson



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

# SAMPLE IDENTIFICATION

Field ID Lab ID JFL31 SAMPLE NUMBER: 947106 MTR CODE | SITE NAME: 70595 Hammond Fed #1 SAMPLE DATE | TIME (Hrs): 07/28/94 0922 PROJECT: Phase II Drilling DATE OF TPH EXT. | ANAL.: 07/31/95 07/31/95 DATE OF BTEX EXT. | ANAL.: 08/02/95 08/03/95 TYPE | DESCRIPTION: VG Light brown sand & clay

Field Remarks:	 	 		

# **RESULTS**

PARAMETER	RESULT	UNITS		QUALIFIE	RS	ada da angaran angaran Sangaran angaran angar
			DF	<b>Q</b> *	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	< 0.025	MG/KG	1			
TOTAL BTEX	< 0.10	MG/KG				
TPH (418.1)	49.5	MG/KG			2.04	28
HEADSPACE PID	819	РРМ				
PERCENT SOLIDS	93.8	%				

 TPH is	by	EPA	Method	418.1	and	BTEX	is t	by EP	A Meth	od	8020	-

Surrogate Recovery was	at99	_% for this sample	All QA/QC was acceptable.	
varrative:				
performed analyses.				

DF = Dilution Factor Used

Date: 7/18/91-

CHAIN OF CUSTODY RECORD

Page\_\_

# 24324 Pit Closure Project		:BS		RE	REQUESTED ANALYSIS	NALYSIS		CONTRACT LABORATORY P. O. NUMBER
1 1	DATE: 7/3%/9.5	BUUN JA CONTAINE	34YT		<u></u>	PID	├─	
DATE TIME MATRIX	FIELD ID	0±0	qT Aq3	A43 T8 A43	LAB	HS H	# BCOUE	REMARKS
1/22/50922 Sail	F4.31	/ /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X		818	37	Howmsnd Fad. #1 (25-25-75) +100-
They's HAS SAIL	FL 33	) VG	· ×	X		37	8	6 (15-15.75) Precased 2
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34 & DATE/TIME	RECEIVED BY: (Signature)	lature)		RELINO	RELINQUISHED BY: (Signature)	Signature)		1 DATE/TIME   RECEIVED BY: (Signature)
ra 1/28/95	Kully chia	Vall /		<u> </u>	N. C. C.	()/// (//		
DATE/TIME	RECEIVED BY: (Signature)	nature)		RELINO	RELINQUISHED BY: (Signature)	Signature)		DATETIME RECEIVED OF LABORATORY BY. (Signalure)
MELUES I ED TURNAROUND TIME:  CHOUTINE CHUSH	SAMPLE RECEIPT REMARKS	EMARKS				RESI	RESULTS & INVOICES TO	FIELD SERVICES LABORATORY
	<u></u> ·					·		EL PASO NATURAL GAS COMPANY P. O. BOX 4990
	CHARGE CODE					505	505,500,2144	FARMINGTON, NEW MEXICO 87499
						222	1 000	TAA. 503-584-2261

# MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp. 4000 Morroe Road

Fermination, New Mexico 87401
(606) 326-2262 FAX (606) 326-2388

Elevation	
	Harl-525-T27-R8
GWL Depth	83,00
Installed By	to coerce
T. Pac	
Date/Time Started	7/28/95-1000
Date/Time Completed	1330

	Well # mil-) Page of
Project Name	EPhla-Pits
Project Number Project Location	24509 Phase Gay1-77 Amond Fed #1 70595
On-Site Geologist Personnel On-Site Contractors On-Sit	
Client Personnel O	n-Site

Depths in Reference to Ground :	Surface				Top of Protective Casing Top of Riser	14A +3
ltem	Material	Depth			Ground Surface	0
Top of Protective Casing	n4/A				_	
Bottom of Protective Casing Top of Permanent Borehole Casing Bottom of Permanent Borehole Casing						
Top of Concrete						
Bottom of Concrete						
Top of Grout	THE bags Park A	0				
Bottom of Grout	Rondand Type In	70				
Top of Well Riser	H"PYC	+3				
Bottom of Well Riser	71					
Top of Well Screen	411 DVC1 -0-018	75			Top of Seal	-10
Bottom of Well Screen	17	30	000 000	$\infty$		
Top of Pettonite Seal	55 begs x 2 Extroplus	-10	000 000	XX		- 10
Bottom of Peltonite Seal	7	7/2	box	XXX	Top of Gravel Pack	<u>-/2</u> -/5
Top of Gravel Pack	50 # brgs x 27	-12		1	Top of Screen	<del>-</del> 15-
Bottom of Gravel Pack	49*	-30				
Top of Natural Cave-In		il/A				
Bottom of Natural Cave-In		MA		-		
Top of Groundwater		723			Bottom of Screen	
Total Depth of Borehole		30			Bottom of Borehole	-30-

Comments: Depth to contar ofter installation = 23' bys

Geologist Signature

John Ja Balan

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PHILIP Well Development and Furging Data	alla Furging Data Thevelopment	ment Well Number M W-1
		Pageof
Project Name EPNS PITS	Project Manager Coer Chance	Project No. 14505
Client Company & Pu 5		Phase, Task No. 600 > 77
Site Name HAMMONDPED #1 (70595)	Site Address	
Development Criteria	Water Volume Calculation	Instruments Serial No. (If applicable
(\$\frac{1}{2}\tag{1}\tag{2}\ta	Initial Depth of Well (feet) 3 4	D pH Meter NYDAS
Other	Initial Depth to Water (feet) 26,41	0
	Height of Water Column in Well (feet) ファラ	
Methods of Development	Dlameter (inches): Well Gravel Pack	Conductivity Meter
æ	Water Volume In Well Gallons to be	Temperature Meter
☐ Submersible ☐ Double Check Valve	Item Cubic Feet Gallons Removed	Other
	Well Casing 4,55 4,9575	
□ Other	Gravel Pack	Water Disposal
	Drilling Fluids	DRUMMAD &TRANSFORDED TO KUTS
Water Removal Data 5 1345	Total 24.7	Seperator In BloomfierD
Method Removal Rate Intake Depth Wa	Water Volume Removed Product Volume (gallons) Te	Conductivity Dissolved Conductivity Oxygen
-	Increment Cumulative Increment Cumulative	pH (mg/ti) Comments
080895 1350 X	5 5 67.1	7,23 1850 passen sicty
1353	5 10 63,8	7.20 1820
1400	_	7,17 1790
14/0		7.04 1640
1477	5 25 62,2	7
1428		7.02 1570 DIBRN
1420	5 35 64.2	7.03 1590 UTAN ALUENT
08895 (1475) X	5 (40)	7.05 1560 Clerk
Circle the date and time that the development criteria are met.		
Coniments		

p A0101 Rev. 03/21

's Signature(s)

Date 680855

Reviewer\_\_

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		Se	erial No.	WS	D-		<del></del>						(	Grout	) Li	st Numb	er
Sample Ty	pe:	/S	Ground	dwa	ter	□ Surfac	e Wa	er	☐ Oth	ner						Date _	08-08-5
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Project Ma	nager	Co	et_	<u>C</u> 4	Ance		,						_ Pha	ise.Ta	asƙ	No60	003-77
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			Samp	3	Temp.		DO	- [	(µmhos/	Rem		Rate		- 1		Depth	(Explain
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Sample C	ontai	iners	;	Pres	ervative	s: H = HC	1; N =	нио	S = 1 نوا	1,504;	1		0 = Ot	her (S	peci	fy); — =	None
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Form A0202 Rev. 02/24/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Water

# SAMPLE IDENTIFICATION

947186 SAMPLE NUMBER: JAL04 FIELD ID: 70595 MTR CODE: 8/8/95 SAMPLE DATE: Monitor Well SAMPLE TYPE: Hammond Fed. 1 SITE NAME: Phase II MW PROJECT: 11-Aug-95 ¿ OF BTEX ANALYSIS:

FIELD COMMENTS:

# EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)	1580		None
BENZENE (PPB)	<2.5		10
TOLUENE (PPB)	< 2.5		740
ETHYL BENZENE (PPB)	7.1		750
TOTAL XYLENES (PPB)	101		620
		Allowed Range	9
SURROGATE % RECOVERY	99	80 to 120 %	

N' TES:

No bubbles in VOA's.

du Jalle Approved By:



CHAIN OF LUS. JY RECORD

Page\_

PROJECT NUMBER	PROJECT NAME	VAME						CION (AIMA COTTOOLICE)	TED AN	0137		CONTRACT LABORATORY P. O. NUMBER
# 24324		Pit Closure Project	Projec	- 1	H381		ļ	וורמטרי	מוכס אונ	AL1313		
SAMPLERS: (Signature)	(a) (c)			DATE: っちっとうり	MUN JA 41ATMOS	SAMPLE 39YT	418.1 X3.1	8050 EX			ENCE	
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RELINQUISHED BY: (Signature)	ignature)		DATE	DATE/TIME RECEIVED BY: (Signature)	nature)		REL	RELINQUISHED BY: (Signature)	D BY: (S/g	mature)		DATE/TIME RECEIVED OF LABORATORY BY: (Signature)
							+	7.				
REQUESTED TURNAROUND TIME:	OUND TIME: USH			SAMPLE RECEIPT REMARKS	<b>PEMARKS</b>					RESU	RESULTS & INVOICES TO:	ICES TO: FIFT D SERVICES 1 ABOUATODY
CARRIER CO.												EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO.:				CHARGE CODE						505-5	505-599-2144	FARMINGTON, NEW MEXICO 87499



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# SAMPLE IDENTIFICATION

960170 SAMPLE NUMBER: Ballard Pipeline SITE NAME: Hammond Federal #1 SAMPLE SITE: 02/20/96 SAMPLE DATE: 1119 SAMPLE TIME (Hrs): D. Bird SAMPLED BY: 02/23/96 DATE OF BTEX ANALYSIS: Water SAMPLE TYPE:

111th Cone: 70595

REMARKS:

## EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	< 1.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	1.4		750
TOTAL XYLENES	16.1		620
		Allowed Ran	ge
SURROGATE % RECOVERY	98.5	80 to 120 °	%

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Nato: 7.26-06

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# **MEMORANDUM**

To: John Lambdin

Date: March 4, 1996

From:

160170

Dennis Bird

Place: Laboratory Services

Subject: Ballard Pipeline Pit Monitor Wells

On Tuesday, February 20, 1996, Richard Benson and myself went to Ballard Pipeline and started sampling the pit monitor wells. The following analytical parameters are to be performed on these groundwater samples: BTXE, General Chemistry, Nitrate as N03-N, Metals As, Ba, Cd, Cr, Hg, Se, Ag, Pb, and Dissolved Oxygen. The samples were assigned the laboratory numbers 960170, 960171, 960184, 960192, 960193. The samples for metals were filtered with a 0.45 micron filter in the field at the time of sampling. The dissolved oxygen results were taken at the time of sampling with a ChemMets Kit. The Field Service Laboratory will be performing all of the analysis.

The following information was collected on each well.

Monitor Well#	Pipe ID	Static Level	Total Depth	Gallons Bailed	Dissolved Oxygen	which it
Hammond Fed. #1	4"	25.77'	33.00'	15.5	1.5 ppm	70595
Lat. 2C-55 Line Drip	4"	23.47	35.40'	25.0	1.5 ppm	
Cleveland #6	4"	66.65'	82.62'	32.0	3.5 ppm	
Salazar "G" 34-1	4"	35.83	46.25'	21.0	1.0 ppm	

All bailing and sampling was done with disposable, one time use equipment and bottles. All samples were preserved on ice immediately after collection. The static level and total depth was measured from the top of the pipe.

Should you have any question or comments, please let me know.

Dennis P. Bird Chief Technician

cc: Nancy Prince Ann Allen Sandra Miller



# **EL PASO FIELD SERVICES**

Field Services Laboratory Water Analysis Report

LOCATION: Ballard Pipeline

PROJECT: M.W.

DATE OF REPORT:

2/28/96

**SAVE FILE:** 960170

SAMPLED BY: Dennis Bird & Richard Benson

\*\*All Results By Standard Methods (AWWA) Or EPA Method 300\*\*

AII RESULES I		NCCHOGS (	01 31	A Method 300**	
SAMPLE	Hammond				New Mexico
POINT	Federal #1				WQCC
	MW-1				LIMIT
LAB ID #	960170				
Date Of Sample	20-Feb-96				
pH (Units)	7.16	· · · · · · · · · · · · · · · · · · ·			6 - 9
ALKALINITY AS CO3	0				None
ALKALINITY AS HCO3	235				None
CALCIUM AS Ca	230				None
MAGNESIUM AS Mg	31				None
TOTAL HARDNESS AS CaCO3	702				None
CHLORI AS Cl	20				250
SULFAT AS SO4	861				600 *
FLUORIDE AS F	0.85				1.6
POTASSIUM AS K	2				None
DIUM AS Na	165	<u></u>			None
COTAL DISSOLVED SOLIDS	1456				1000 *
CONDUCTIVITY (umhos)	1765				None
NITRATE AS NO3-N	<0.1				10
					-
	<u> </u>		+		
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		<u> </u>			<u> </u>

\*\*All Results Expressed as ppm or umhos\*\*

REM	ARKS:	 		

Fluoride results were with the HACH DR/2000 using the spadns fluoride reagents.

*	Ιt	is	not	unusual	for	shallow	groundwater	in	New	Mexico	to	naturally	exceed	these
	lin	ait:	s .											
	onro	)VA	1 s :											

				/
Lab	Super.:	Sun Habele	Date:	3/14/96



# **EL PASO FIELD SERVICES**

# FIELD SERVICES LABORATORY ANALYTICAL REPORT

## SAMPLE IDENTIFICATION

•	SAMPLE NUMBER:	960170			
	LOCATION:	Ballard Pipeline			
	SAMPLE DATE:	02/20/96			
	SAMPLE TIME (Hrs):	1119			
•	SAMPLED BY:	D. Bird			
•	SAMPLE POINT:	Hammond Federal #1 MW-1			

REMARKS:

## **RESULTS**

PARAMETER	DISSOLVED RESULT (mg/L)	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
ARSENIC	< 0.001	0.002	0.10
BARIUM	0.03	0.21	1.00
CADMIUM	< 0.0005	< 0.0005	0.01
CHROMIUM	0.005	0.011	0.05
LEAD	0.005	0.010	0.05
MERCURY	< 0.0001	< 0.0001	0.002
SELENIUM	< 0.005	0.006	0.05
SILVER	< 0.0004	< 0.0004	0.05

NOTE: The sample results have been corrected for volume adjustment associated with Method 3015.

### References:

Method 3015, Microwave Assisted Acid Digestion of Aqueous Samples and Extracts, Test Methods for Evaluating Solid Waste, SW-846, Sept., 1994.

- Method 7061A, Arsenic (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.
  - Method 7081, Barium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992
  - Method 7131, Cadmium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.
  - Method 7191, Chromium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.
  - Method 7421, Lead (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.
- Method 245.5, Mercury (Automated Cold Vapor Technique), Methods for the Determination of Metals in Environmental Samples, EPA600/4-91 010, DUSEPA, June, 1991,
  - i 7741A, Selenium (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994. 7761, Silver (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

Paramet Du M.

Approved By: Schan Freth 3/18/4

CHAIN OF CUSTODY RECORD

Contract Laboratory

Contract laxis LAT. 2C - ST CINE ORID MINI. ハルバー FARMINGTON NIM. Received by (Signature) Received by. (Signature) HAMMOND FECERAL #1 Remarks TRIP BUANK Date Results Reported / by (Signature) Date/Time Date/Time Requested Analysis \*150 Relinquished by (Signature) Relinquished by (Signature) 13. 13. 15. XXXX Date/Time **CIC** Received for Laboratory by (Signature) (15eta) Chain of Custody Seals Received by (Signature) Received by (Signature) 1011 Total No of Containers Receiving Temp (°F) 750170 Sample Number 21/12/11/16 2/2/2/ 16.5 Date/1ume 27-20-96 Date/Time Date/Time BAUCHRO WATER WATEN 2-25-96 1395 WATCH Malrix Project Name 611 Kind Time Samplers: (Signature) Relinguished by (Signature) Relinquished by. (Signature) Refinquished by. (Signature) 250.06 220.96 Results & Invoices to. Date Lemins Project No. Lab ID

San juan repro Form 71-65

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YELLOW-LPNG Lab

WHITE-Testing to it is every