

SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRODUCTION OFFICE		

OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104
Effective 1-1-65

Operator
Merrion Oil & Gas Corporation
Address
Post Office Box 1017, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

New Well ☐ Change in Transporter of:
Recompletion ☐ Oil ☒ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name
and address of previous owner

I. DESCRIPTION OF WELL AND LEASE

Lessee Name Salazar G 34	Well No. 1	Pool Name, including Formation Devils Fork Gallup	Kind of Lease State, Federal or Free Federal SF	Lease 0801
Location Unit Letter <u>K</u> : <u>1630</u> Feet From The <u>South</u> Line and <u>1660</u> Feet From The <u>West</u> Line of Section <u>34</u> Township <u>25N</u> Range <u>6W</u> , NMPM, Rio Arriba Co.				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ CONOCO, INC. Surface Transportation	Address (Give address to which approved copy of this form is to be sent) 555 17th Street, 9th Floor, Denver, CO 80202					
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ El Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 4289, Farmington, New Mexico 87499					
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 34	Twp. 25N	Rge. 6W	Is gas actually connected? Yes	When 2/82

If this production is commingled with that from any other lease or pool, give commingling order number:

III. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Dill. R
Date Spudded	Date Compl. Ready to Prod.	Total Depth			P.B.T.D.				
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay			Tubing Depth				
Perforations					Depth Casing Shoe				
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT				

IV. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top of hole for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method	NOV 02 1984
Length of Test	Tubing Pressure	Casing Pressure	Oil CON. DIV.
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	DIST. 8

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (shot-in)	Casing Pressure (shot-in)	Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

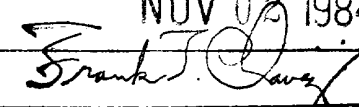

(Signature)

OPERATIONS MANAGER

(Title)

October 30, 1984

OIL CONSERVATION COMMISSION

APPROVED  , 19

BY

TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the devils tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for all wells on new and recompleted wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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	GAS
OPERATION	
PRODUCTION OFFICE	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 05-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Merion Oil & Gas Corporation

Address
P. O. Box 840, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

☐ New Well	Change in Transporter of:	☐ Dry Gas
☐ Recompletion	☒ Oil	☐ Condensate
☐ Change in Ownership	☐ Casinghead Gas	

Other (Please explain)

RECEIVED
MAY 21 1985
OIL CON. DIV. I
DIST. 3

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Salazar G 34	Well No. 1	Pool Name, Including Formation Devils Fork Gallup	Kind of Lease State, Federal or Fee Federal	Lease No. SF 080136
Location				
Unit Letter K	1630	Feet From The South	Line and 1660	Feet From The West
Line of Section 34	Township 25N	Range 6W	, NMPM, Rio Arriba County	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ The Mancos Corporation	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1320, Farmington, New Mexico 87499
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 4289, Farmington, New Mexico 87499
If well produces oil or liquids, give location of tanks.	Is gas actually connected? when
Unit K	Sec. 34
Twp. 25N	Rge. 6W
Yes	2/82

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.


(Signature)
Glenn S. Dunn, Operations Manager
(Title)
5/11/85
(Date)

OIL CONSERVATION DIVISION
MAY 21 1985
APPROVED _____, 19____
BY 
SUPERVISOR, DISTRICT # 3
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OPERATOR	
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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RECEIVED
DEC 10 1987
OIL CON. DIV.
DIST. 3

I. Operator
Merrion Oil & Gas Corp.

Address
P. O. Box 840, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

☐ New Well	Change in Transporter of:	☐ Dry Gas
☐ Recompletion	☒ Oil	☐ Condensate
☐ Change in Ownership	☐ Casinghead Gas	

Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Salazar G 34	Well No. 1	Pool Name, including Formation Devils Fork Gallup	Kind of Lease State, Federal or Fee Federal	Lease No. SF-080136
Location Unit Letter K : 1630 Feet From The South Line and 1660 Feet From The West Line of Section 34 Township 25N Range 6W, NMPM, Rio Arriba County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Conoco Transportation, Inc.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1429, Bloomfield, NM 87413
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rec. Is gas actually connected? When K 34 25N 6W Yes 2/82

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

(Signature)
Operations Manager
DEC 10 1987
(Date)

OIL CONSERVATION DIVISION

APPROVED _____, 19____
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
SUNSHINE NEW MEXICO 87501-2088

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator MERRION OIL & GAS CORPORATION		Well API No.
Address P. O. BOX 840, FARMINGTON, NEW MEXICO 87499		
Reason(s) for Filing (Check proper box) ☐ Other (Please explain)		
New Well ☐	Change in Transporter of: ☐ Effective 3/1/90	
Recompletion ☐	Oil ☒ Dry Gas ☐	
Change in Operator ☐	Casinghead Gas ☐ Condensate ☐	
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Salazar G 34	Well No. 1	Pool Name, Including Formation Devils Fork Gallup	Kind of Lease State ☒ Federal ☐ or Fee	Lease No. SF-080136
Location				
Unit Letter K	1630	Feet From The South	Line and 1660	Feet From The West
Section 34	Township 25N	Range 6W	NMPM,	Rio Arriba
County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Meridian Oil, Inc.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 4289, Farmington, New Mexico 87499	
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ El Paso Natural Gas Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 4990, Farmington, New Mexico 87499	
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 34
	Twp. 25N	Rge. 6W
	Is gas actually connected? Yes	
	When? 2/82	

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Dil'l Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RI, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)			
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF
GAS WELL			
Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut in)	Casing Pressure (Shut in)	Choke Size

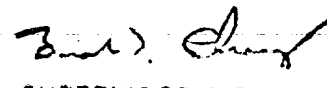
VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


Signature
Steven S. Dunn
Printed Name
2/26/90
Date
Operations Manager
Title
(505) 327-9801
Telephone No.

OIL CONSERVATION DIVISION

Date Approved FEB 28 1990

By 
Title SUPERVISOR DISTRICT #3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1001

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: Feb 11, 1991

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL _____
Proposed WFX _____
Proposed NSP _____

Proposed DHC _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Tubingless Comp.

Gentlemen:

I have examined the application received on Dec. 13, 1990
for the Merrin Oil and Gas Corp. Salazar 6-341 #1
OPERATOR LEASE & WELL NO.

~~K 31254 61~~ and my recommendations are as follows:
UL-S-T-R

Approved

Yours truly,

[Signature]

MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. Box 840
FARMINGTON, NEW MEXICO 87499

RECEIVED

DEC 13 1990

**OIL CON. DIV.
DIST. 3**

December 12, 1990

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87503

RE: Request for Administrative Approval on Tubingless Completions

Dear Mr. Catanach:

We request administrative approval for tubingless completions in the following four wells:

WELLLOCATION

Canyon Largo Unit #302
Canyon Largo Unit #304
Canyon Largo Unit #311
Salazar G 34-1

(J) Section 3, T24N, R6W
(C) Section 11, T24N, R6W
(F) Section 3, T24N, R6W
(K) Section 34, T25N, R6W

These wells have all been producing with piston lift for some time. We have recently pulled the tubing and installed a Concoyle "casing piston" in an effort to increase the production rate from the wells. We received verbal approval from the NMOC in Aztec to install the casing pistons strictly on a test basis with the understanding that we would eventually need administrative approval from Santa Fe.

A diagram of the casing piston is attached. The main advantages of the casing piston over a tubing piston are as follows:

- a) The casing piston removes all the fluid off of the perforations when it trips as opposed to just the fluid in the tubing. That decreases the back pressure on the formation and increases the flow rate.
- b) There is no "annular back pressure" on the formation when the piston is up, again increasing the flow rate.
- c) Because the casing piston removes more fluid per run than a tubing piston, fewer runs are required, and thus, the wells are producing down the line for more hours of the day than before.

Mr. David Catanach
NMOCD
Page Two
December 12, 1990

We are excited about the potential of this new tool and have numerous other applications if the test results are positive. Because the wells will produce at higher rates, they will ultimately recover more reserves and thus, protect correlative rights.

Please call me at (505) 327-9801 if you have any questions.

Sincerely,



George F. Sharpe
Engineer

Attachments

CC: ✓ NMOCD-Aztec, NM
Warren Blakemore-Concoyle
Steve Dunn
Well Files

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

February 19, 1991

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Merrion Oil and Gas Corporation
P.O. Box 840
Farmington, NM 87499

Attention: George Sharpe

RECEIVED

FEB 22 1991

**OIL CON. DIV.
DIST. 3**

Administrative Order TX-197

Dear Mr. Sharpe:

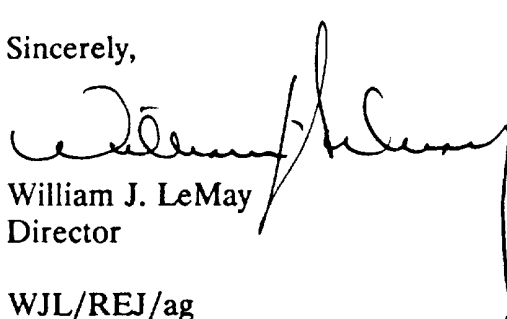
Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named wells.

Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized for tubingless completions in the following wells:

<i>Well Name & Number</i>	<i>Unit</i>	<i>Location</i>
Canyon Largo Unit No. 302	J	Sec. 3, T24N, R6W
Canyon Largo Unit No. 304	C	Sec. 11, T24N, R6W
Canyon Largo Unit No. 311	F	Sec. 3, T24N, R6W
Salazar G 34-1	K	Sec. 34, T25N, R6W

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,


William J. LeMay
Director

WJL/REJ/ag

cc: Oil Conservation Division - Aztec



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

August 9, 1993

Ms. Anu Pundari
Sr. Compliance Engineer
El Paso Natural Gas Company
PO Box 4990
Farmington, NM 87499

RE: Illegal Pits in Northwestern New Mexico
Merrion Salazar G 34-2, I-34-25N-06W
Merrion Canyon Largo #298, A-03-24N-06W
South Lybrook Station Drip Pit, E-25-23N-07W
Merrion Salazar G-34 #1, K-34-25N-06W

Dear Ms. Pundari:

New Mexico Oil Conservation Order R-8952 (for the protection of migratory birds) became effective June 15, 1989 and states that all pits and open tanks more than 16' in diameter shall be screened, netted or covered.

On July 21 and 29, 1993 field inspections conducted by Jackie Neckels from the BLM revealed that the above mentioned pits contained hydrocarbons. In order for these pits to be in compliance, you are hereby directed to remove all fluid or properly net these pits by September 9, 1993.

If you have any questions please feel free to call this office.

Sincerely,

Dianna K. Fairhurst

Dianna K. Fairhurst
Deputy Oil & Gas Inspector

xc: C-134 File
Well File
Jackie Neckels - BLM Farmington



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

August 23, 1993

Mr. Steve Dunn
Merrion Oil & Gas Corporation
PO Box 840
Farmington, NM 87499

RE: Illegal Pits in Northwest New Mexico
Salazar G 34 #1, K-34-25N-06W (Production Tank)
Salazar G 34 #2, I-34-25N-06W (Production Tank)
Salazar G 34 #3, E-34-25N-06W (Production Tank/Separator)
Canyon Largo Unit #313 (Separator)
Salazar G 27 #1, J-27-25N-06W (Production Tank/Separator)
Fikes Com #2, F-27-25N-06W (Separator)
Salazar Fed G 34 #4, H-34-25N-06W (Separator)
Canyon Largo Unit Tank Battery, P-08-24N-06W (Production Tank and Separator pits)

Dear Mr. Dunn:

Field inspections conducted by Jackie Neckels from the BLM on July 29, 1993 revealed that the above mentioned pits have been netted as per requested. The pits are now in compliance and no longer require C-134's.

If you have any questions please feel free to call this office.

Yours truly,

Dianna K. Fairhurst

Dianna K. Fairhurst
Deputy Oil & Gas Inspector

xc: Jackie Neckels - BLM Farmington
C-134 Correspondence
Well File



STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

December 16, 1993

Anu N. Pundari
Sr. Compliance Engineer
El Paso Natural Gas Company
PO Box 4990
Farmington, NM 87499

RE: Illegal Pits in Northwest New Mexico
Salazar G 34-2, I-34-25N-06W
Salazar G 34 #1, K-34-25N-06W
CLU #298, A-03-24N-06W

Dear Ms. Pundari:

Field inspections conducted on December 14, 1993 by Charles Gholson revealed that the above mentioned pits have been netted as per requested and no longer require C-134's.

If you have any questions please feel free to call me at 505-334-6178.

Yours truly,

Dianna K. Fairhurst

Dianna K. Fairhurst
Deputy Oil & Gas Inspector

xc: Jackie Neckels - BLM Farmington
C-134 Correspondence
Well File

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Grande Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Merrion Oil & Gas Corp. P. O. Box 840 Farmington, New Mexico 87499		OGRID Number 014634
API Number 30 - 039-22821	Pool Name Devils Fork Gallup	Pool Code 17610
Property Code 007839	Property Name Salazar G 34	Well Number 1
		Reason for Filing Code CO - Effective 9/01/95 Change oil/condensate transport

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
K	34	25N	06W	NESW	1630	south	1660	west	Rio Arriba

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
Lee Code F	Producing Method Code	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
009018	Giant Refining Company P. O. Box 12999 Scottsdale, AZ 85267	1911410	O	
007057	El Paso Natural Gas Co. P. O. Box 4990 Farmington, NM 87499	1911430	G	

RECEIVED
SEP 11 1995
OIL CON. DIV.
DIST. 3

IV. Produced Water

POD	POD ULSTR Location and Description
1911450	

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Esther J. Greeyes*

Printed name: Esther J Greeyes

Title: Drlg & Prod Tech

Date: 9/07/95

Phone: (505) 327-9801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

Denny S. Faust

DEPUTY OIL & GAS INSPECTOR FIELD PIT SITE ASSESSMENT FORM

MAR 27 1998

GENERAL

Approved

Meter: 94-180 Location: Salazar "G" 34-1

Operator #: 5997 Operator Name: Merrison P/L District: Ballard

Coordinates: Letter: K Section 34 Township: 25 Range: 6

Or Latitude _____ Longitude _____

Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____

Site Assessment Date: 7/12/94 Area: 07 Run: 42

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

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 Largo Wash

(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: 40 POINTS

REMARKS

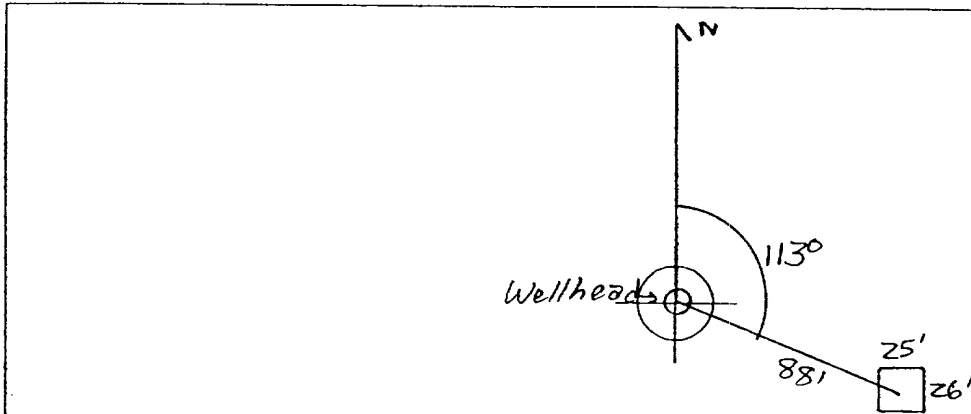
Remarks : Redline Book - Inside Vulnerable Zone Tap - Inside
Three pits on site, location drip pit has liquid in it.
Will close one pit.

DTG 11/11

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 113° Footage from Wellhead 88'
b) Length : 25' Width : 26' Depth : 4'

ORIGINAL PIT LOCATION



REMARKS :

Pictures @ 14:37 (19-22, Roll 12)
Dump Truck

REMARKS

Completed By:

Sarah Kelly
Signature

7/12/94
Date



Environmental Services Group
Southern Region

Salazar G 34-1
Meter Code 94180

Pit was excavated to 12 feet beneath ground surface. The headspace soil reading from excavation bottom was 170 parts per million. Soil analytical were as follows; benzene - <0.25 mg/kg, total BTEX - 16.5 mg/kg, TPH - 11,100 mg/kg.

One soil boring was completed and a monitoring well installed and a soil sample collected at 30 - 31 feet. Soil boring analytical results were as follows: benzene - <0.03 mg/kg, total BTEX - <10 mg/kg, TPH - 81.8 mg/kg. Groundwater was encountered at 34 feet and a monitoring well installed. Initial groundwater analytical were as follows; benzene - 2.5 ug/L, toluene - 2.5 ug/L, ethylbenzene - 2.5 ug/L, xylenes - 7.5 ug/L. Second groundwater analytical were as follows; benzene - <1.0 ug/L, toluene - <1.0 ug/L, ethylbenzene - <1.0 ug/L, xylenes - <3.0 ug/L.

This site is ready for closure based on the following:

- Soil boring analytical results are below standards.
- Groundwater analytical results are below standards.

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94180</u> Location: <u>SALAZAR G 34-1</u> Coordinates: Letter: <u>K</u> Section <u>34</u> Township: <u>25</u> Range: <u>6</u> Or Latitude _____ Longitude _____ Date Started : 8-26-94 ⁸⁻²⁹⁻⁹⁴ <u>8-29-94</u> Run: <u>07</u> <u>42</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP 211</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>170</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>210</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: Envirotech ☒ ☐ Tierra Other Facility ☐ Name: _____ Pit Closure Date: 8-26-94 ⁸⁻²⁹⁻⁹⁴ <u>8-29-94</u> Pit Closed By: <u>B.EI</u>
REMARKS	Remarks : <u>Some LINE markers. Pit has a lot of water & oil in it dumped 2 loads to Solidify Pit. At 12' soil started Looking clean Pid 170 closed Pit.</u>
	Signature of Specialist: <u>Kelly Padilla</u>

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP211	946025
MTR CODE SITE NAME:	94180	Salazar "G" 34-1
SAMPLE DATE TIME (Hrs):	8/29/94	1000
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	9/1/94	9/1/94
DATE OF BTEX EXT. ANAL.:	8/31/94	9/1/94
TYPE DESCRIPTION:	VC	Brown sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.25	MG/KG				
TOLUENE	<0.08	MG/KG				
ETHYL BENZENE	1.93	MG/KG				
TOTAL XYLENES	14.2	MG/KG				
TOTAL BTEX	16.5	MG/KG				
TPH (418.1)	11,100	MG/KG			0.57	28
HEADSPACE PID	170	PPM				
PERCENT SOLIDS	91.2	%				

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

The Surrogate Recovery was at 105 for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recoveries were outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: _____

9/30/97



CHAIN OF CUSTODY RECORD

Abstract

CHAIN OF CUSTODY RECORD

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH	SAMPLE RECEIPT REMARKS samples temp above 36°C
CARRIER CO.	CHARGE CODE
BILL NO.:	

White. Testing Laboratory, Carson, EDWARDS, Dink. Field Controller



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408425
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946018	NON-AQ	08/26/94	08/31/94	09/07/94	20
08	946025	NON-AQ	08/29/94	08/31/94	09/07/94	10
09	946026	NON-AQ	08/29/94	08/31/94	09/06/94	-
PARAMETER			UNITS	07	08	09
BENZENE			MG/KG	8.1	<0.25	<0.025
TOLUENE			MG/KG	36	3.3	0.038
ETHYLBENZENE			MG/KG	22	3.5	0.096
TOTAL XYLENES			MG/KG	240	16	0.025

SURROGATE:

BROMOFLUOROBENZENE (%) 209* 127* 93

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



Analytical **Technologies, Inc.**

BTEX

9-1-94

9-6-94

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

ATI I.D. 408425

September 12, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/31/94, 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.

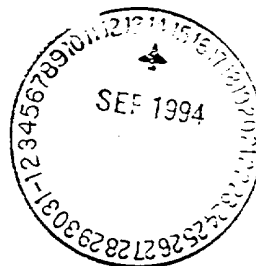
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





Analytical Technologies, Inc.

CLIENT : EL PASO NATURAL GAS CO. DATE RECEIVED : 08/31/94
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE REPORT DATE : 09/12/94

ATI ID: 408425

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	946006	NON-AQ	08/25/94
02	946007	NON-AQ	08/25/94
03	946008	NON-AQ	08/25/94
04	946009	NON-AQ	08/25/94
05	946010	NON-AQ	08/25/94
06	946011	NON-AQ	08/25/94
07	946013	NON-AQ	08/25/94
08	946025	NON-AQ	08/29/94
09	946026	NON-AQ	08/29/94
10	946027	NON-AQ	08/29/94
11	946028	NON-AQ	08/29/94
12	946029	NON-AQ	08/29/94



---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
NON-AQ	12

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

CHAIN OF CUSTODY

DATE: 8/30/94 PAGE 1 OF 2

LAB ID: 1108246

PROJECT MANAGER: JOHNN LAMBIN

COMPANY: EL PASO NATURAL GAS

ADDRESS: P.O. BOX 4990
FARMINGTON, NM 87409

PHONE: (505) 599-2141

FAX: (505) 599-2261

BILL TO: SAME AS ABOVE

COMPANY:

ADDRESS:

SAMPLE ID

DATE

TIME

MATRIX LAB ID

946007	8/25/94	1145	soil	01
946008	8/25/94	1245	soil	02
946009	8/25/94	1070	soil	03
946010	8/25/94	1230	soil	04
946011	8/25/94	1500	soil	05
946018	8/25/94	1540	soil	06
946025	8/29/94	1415	soil	07
946036	8/29/94	1000	soil	08
946036	8/29/94	1150	soil	09

PROJECT INFORMATION

SAMPLE RECEIPT

PROJ. NO.: 24324 NO. CONTAINERS: 9
PROJ. NAME: PIT CLOSURE CUSTODY SEALS: (Y) N / NA
P.O. NO.: 38822 RECEIVED INTACT: 1
SHIPPED VIA: FEDERAL EXPRESS RECEIVED COLD: 1200

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments: CHARGE CODE: 50% 108-51570 24 (X01) (012) 31 2440

50% 108-52452 24 (X01) (012) 31 2440

NO. ON PROJECT SAMPLES: 710

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1)	
(MOD 8015) Gas/Diesel	
Diesel/Gasoline/BTXE/MTBE (MOD 8015 8020)	
BTXE/MTBE (8020)	
BETX (8020)	X
Chlorinated Hydrocarbons (601/8010)	X
Aromatic Hydrocarbons (602/8020)	X
SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	X
Pesticides/PCB (608/8080)	X
Herbicides (615/8150)	X
Base/Neutral/Acid Compounds GC/MS (825/8270)	X
Volatile Organics GC/MS (824/8240)	X
Polynuclear Aromatics (810/8310)	X
SDWA Primary Standards - Arizona	
SDWA Secondary Standards - Arizona	
SDWA Primary Standards - Federal	
SDWA Secondary Standards - Federal	
The 13 Priority Pollutant Metals	
RCRA Metals by Total Digestion	
RCRA Metals by TCLP (1311)	

SAMPLED & RELINQUISHED BY: 1

RELINQUISHED BY: 2

RELINQUISHED BY: 3

RECEIVED BY: 1

RECEIVED BY: 2

RECEIVED BY (LAB): 3

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1)
 8015) Gas/Diesel
 /Gasoline/BTXE/MTBE (MOD 8015/8020)
 E/MTBE (8020)
 X (8020)
 Aromatized Hydrocarbons (601/8010)
 Aromatic Hydrocarbons (602/8020)
 A Volatiles (502.1/503.1), 502.2 Reg. & Unreg.
 Chlorinated Hydrocarbons (608/8080)
 Chlorides (615/8150)
 /Neutral/Acid Compounds GC/MS (625/8270)
 Organic Compounds GC/MS (624/8240)
 Nuclear Aromatics (610/8310)
 A Primary Standards - Arizona
 A Secondary Standards - Arizona
 A Primary Standards - Federal
 A Secondary Standards - Federal
 13 Priority Pollutant Metals
 A Metals by Total Digestion
 A Metals by TCLP (1311)
 NUMBER OF CONTAINERS

	Petr
	(MO
	Des
	BT
xx x	BE
	Chic
	Arco
	SDV
	Petr
	Hert
	Bas
	Vol
	Poly
	SDV
	SDV
	SDV
	SDV
	The
	RCI
	RCI

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:	Phone:	Company:		Company:	
		<i>Kim K</i>	<i>1550</i>		
		<i>Kim K</i>	<i>8/30/94</i>		
		<i>Kim K</i>			
		<i>EL PASO NATURAL GAS</i>			

RECEIVED BY:		RECEIVED BY:		RECEIVED BY:(LAB)	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:		Company:		Analytics	Logistics, Inc.

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well #
Page 1 of 1

Project Name EPNG PITS
Project Number 14509 Phase 6000.77
Project Location Subzone "G" 34-1 94/180

Elevation
Borehole Location Letter K-S34-T25-R6
GWL Depth
Logged By J.F. LaBarbera
Drilled By K. Padilla
Date/Time Started 8/8/95-1250
Date/Time Completed -1415

Well Logged By J.F. LaBarbera
Personnel On-Site K. Padilla, F. Rivera, D. Charlie
Contractors On-Site
Client Personnel On-Site

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 ¹⁶⁵ BZ BH S			Drilling Conditions & Blow Counts
0										
5				Fill						
10										
15	1	15-14.5	18	Brown, loose, v fine to med, SAND, some s, l, dry damp no odor noted. JFLB.	SW		0	0	1005 0.2	1300 1258
20	2	20-21	13	AA			0	0.3	1049 0	1306
25	3	25-24	13	AA - fine	SP		0	0.3	1032 0	Recalibrated PID 1315
30	4	30-31	13	AA - fine to coarse	SW		0	0.5	112 0	1324
35	5	35-34.5	18	AA - fine, saturated	SP		0	0	112 0	H2O 0 1335 35' came up to 34'
40				TOB @ 44'						

Comments: Sample JFL 50 from 30-31' sent to lab for BTEX/TPH and 1513. Set 4" monitoring well at 40' by 5-8 feet of core, etc.

Geologist Signature

J.F. LaBarbera

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL50	947181
MTR CODE SITE NAME:	94180	Salazar "G" 34-1
SAMPLE DATE TIME (Hrs):	8/8/95	1324
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/9/95	8/9/95
DATE OF BTEX EXT. ANAL.:	8/12/95	8/14/95
TYPE DESCRIPTION:	VG	Brown sand & clay

Field Remarks: (30 - 31')

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	<0.03	MG/KG				
ETHYL BENZENE	<0.03	MG/KG				
TOTAL XYLENES	<0.03	MG/KG				
TOTAL BTEX	<10	MG/KG				
TPH (418.1)	81.8	MG/KG			2.04	28
HEADSPACE PID	972	PPM				
PERCENT SOLIDS	95.6	%				

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

The Surrogate Recovery was at 102.0 for this sample All QA/QC was acceptable.

Narrative:

~~ALL Results Attached~~ JS 4/22/97

DF = Dilution Factor Used

Approved By:

John Zander

INGVZPIT.XLS

Date:

8/28/95



Phoebe
Dills

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER # 24324		PROJECT NAME Pit Closure Project		DATE 8/5/95		FIELD ID		TOTAL NUMBERS OF CONTAINERS		SAMPLE TYPE		REQUESTED ANALYSIS				CONTRACT LABORATORY P. O. NUMBER							
SAMPLERS: (Signature) <i>John F. Barber</i>		LAB ID		DATE		TIME		MATRIX		FIELD ID		TPH EPA 418.1		BTEX EPA 8020		LAB PID		PID H5		SEQUENCE #		REMARKS	
947180		8/5/95		1002		Soil				JFL 49		1 VG		X		X		92		43		87037 hardhaus #7 (35-35.25') 74180 Sulphur 15" 34-1 (30-31') 1020	
947181		8/5/95		1524		Soil				JFL 50		1 VG		X		X		972		44		74180 Sulphur 15" 34-1 (30-31') 1020	
																						<i>John F. Barber</i>	

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.
4000 Monrovia Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2368

Borehole # BH-1
Well # MW-1
Page 1 of 1

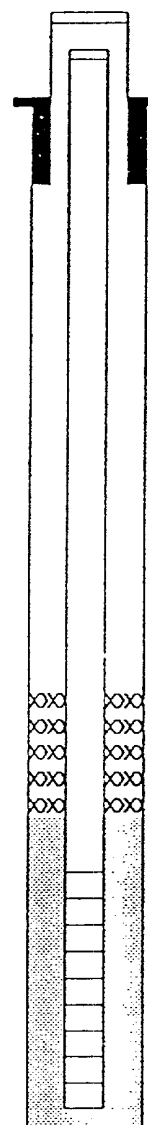
Project Name EDUC - Pits
Project Number 14509 Phase 6000.11
Project Location Salazar "G" 34-1 94150

Elevation _____
Well Location Letter K-S34-T25-R6
GWL Depth 34.10' bgs
Installed By J LaBarbera, K Padilla

On-Site Geologist J LaBarbera
Personnel On-Site K Padilla, F Rivera, D Charlier
Contractors On-Site _____
Client Personnel On-Site _____

Date/Time Started 8/8/95 - 1410
Date/Time Completed + 1740

Depths in Reference to Ground Surface		
Item	Material	Depth
Top of Protective Casing	n2/A	
Bottom of Protective Casing	[Hand-drawn wavy line]	
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout	9 x 94# Portland 15 x 94# Best.	0
Bottom of Grout	"	
Top of Well Riser	29' x 7" PVC 30'	+3
Bottom of Well Riser	"	-27
Top of Well Screen	15' x 7" PVC 0.010" slot	-27
Bottom of Well Screen	"	-42
Top of Peltonite Seal	1 x 20# Holt Plug	-19
Bottom of Peltonite Seal	"	-21
Top of Gravel Pack	22 x 50# 10-20 silica	-21
Bottom of Gravel Pack	"	-42
Top of Natural Cave-In		-42
Bottom of Natural Cave-In		-44
Top of Groundwater		-34
Total Depth of Borehole		-44



Top of Protective Casing n2/A

Top of Riser +3

Ground Surface 0

Top of Seal _____

Top of Gravel Pack _____

Top of Screen -27

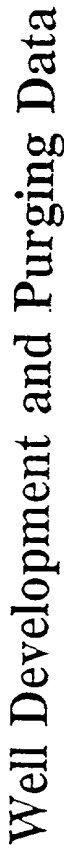
Bottom of Screen -42

Bottom of Borehole -44

Comments: Well installed 1' into cave-in while placing gravel pack
depth in water after installation = 33.10' bgs.

Geologist Signature

J LaBarbera



☒ Development
☐ Purging

Page _____ of _____

Project Manager Cory ChangClient Company EPN's

Site Name 521333 "G" 34-1 94180

Site Address

Water Volume Calculation

- Initial Depth of Well (feet) 46.24
Initial Depth to Water (feet) 35.45

Height of Water Column in Well (feet) 10,79

Methods of Development

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

☐ Other

Water Disposal

Drummers and Transferred to Kutz
Speiser in Blankfield

Water Removal Data 5/15/88

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume (gallons)		Temperature (°F)	pH	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
08-25-55	0730		X				10	10			61.3	7.22	4,000		LTBON SIXTY
	0955		I				10	20			62.5	7.27	5.01		I
	1010		I				5	25			61.5	7.26	5.31		
	1020		I				5	30			61.3	7.33	5.43		LTBON SIXTY
08-25-55	1040		X				5	35			60..	7.28	5.45		L

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

Comments

Developer's Signature(s)

Date 08-25-95

Reviewer

Date _____



Water Sampling Data

Location No. MW-1Serial No. WSD-Group List Number Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other Date 08-25-55Project Name EPH PITS Project No. 14509Project Manager Earl Chance Phase/Task No. 603.77Site Name SALAZAR "G" 34-1 94180

Sampling Specifications

Requested Sampling
Depth Interval (feet) TOP 3'
Requested Wait Following
Development/Purging (hours)

Initial Measurements

Time Elapsed From Final Development/Purging ^{min}(hours) 20
Initial Water Depth (feet) 35-45
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	Final Water Depth (feet)	
See	well	Development					2nd Purging Data form					

Sample Containers

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)
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	
BTEX	2	A	40		X	H	X		T 1100
TDS	1	P	250		X	NA	X		T 1100

Filter Type Chain-of-Custody Form Number Comments Signature James G. Long Date 08-25-55 Reviewer Date



Page _____ of _____

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



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JAL14	947334
MTR CODE SITE NAME:	94180	Salazar "G" 34-1
SAMPLE DATE TIME (Hrs):	8/25/95	N/A
PROJECT:	Phase II Drilling	
DATE OF BTEX EXT. ANAL.:	9/1/95	9/1/95
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks: TDS - Total Dissolved Solids (PPM) 3764

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<2.5	PPM				
TOLUENE	<2.5	PPM				
ETHYL BENZENE	<2.5	PPM				
TOTAL XYLENES	<7.5	PPM				
TOTAL BTEX	<15	PPM				

The Surrogate Recovery was at 86.0 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Larch

Date: 9-7-95

CHAIN OF CUSTODY RECORD

94180

[illegible]

3/14/96

To: John Lambdin

Date: March 4, 1996

From: 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	
Hammond Fed. #1	4"	25.77'	33.00'	15.5	1.5 ppm	
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	1.5 ppm	94180

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.

DB
Dennis P. Bird
Chief Technician

cc: Nancy Prince
Ann Allen
Sandra Miller

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960192
SITE NAME:	Ballard Pipeline
SAMPLE SITE:	Salazar "G" 34-1
SAMPLE DATE:	02/22/96
SAMPLE TIME (Hrs):	1547
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	02/23/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	< 1.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	< 1.0		750
TOTAL XYLENES	< 3.0		620
SURROGATE % RECOVERY	96.3	Allowed Range 80 to 120 %	

NOTES:

D. Bird

Date: 2-26-96

EL PASO FIELD SERVICES

Field Services Laboratory Water Analysis Report

LOCATION: Ballard Pipeline PROJECT: M.W.
DATE OF REPORT: 2/28/96 SAVE FILE: 960192
SAMPLED BY: Dennis Bird & Richard Benson

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

[illegible]

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

REMARKS:

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

* It is not unusual for shallow groundwater in New Mexico to naturally exceed these limits.

Approvals:

Lab Super.:

Date:

3/14/94

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960192
LOCATION:	Ballard Pipeline
SAMPLE DATE:	02/22/96
SAMPLE TIME (Hrs):	1547
SAMPLED BY:	D. Bird
SAMPLE POINT:	Salazar "G" 34-1

REMARKS:

RESULTS

PARAMETER	DISSOLVED RESULT (mg/L)	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
ARSENIC	0.001	0.008	0.10
BARIUM	0.02	0.32	1.00
CADMIUM	<0.0005	<0.0005	0.01
CHROMIUM	0.006	0.018	0.05
LEAD	0.013	0.052	0.05
MERCURY	0.0003	<0.0001	0.002
SELENIUM	0.041	0.052	0.05
SILVER	0.0009	0.0013	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, USEPA, June, 1991.
 Method 7741A, Selenium (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1994.
 Method 7761, Silver (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

Reported By:

mb

Approved By:

John Fitch 3/13/96