

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
defined
extent of
plume*

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Telephone: _____

Address: 30-039-20848

Facility Or: San Juan 28-6 Unit #206, Meter 89060
Well Name _____

Location: Unit or Qtr/Qtr Sec H Sec 10 T 27 R 06 County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

Land Type: BLM X, State _____, Fee _____ Other _____

Pit Location: Pit dimensions: length 28', width 26', depth 4'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 42'

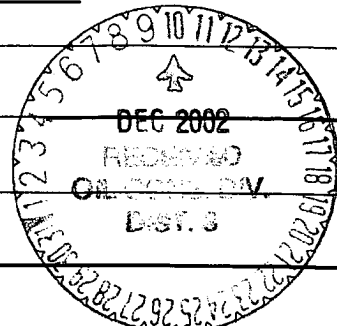
Direction from reference: 23 Degrees X East North _____
of _____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>20</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No (0 points) <u>0</u>
domestic water source, or; less than	
1000 feet from all other water sources.)	

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20



Date Remediation Started: 03/20/95 Date completed: 03/20/95

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____
Other Backfill Pit Without Excavation

Remediation Location: Onsite N/A Offsite N/A
(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: No line markers; dug a test hole to 12'. Sampled closed pit.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Four walls and center of pit composite
Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths) Sample depth 12'
Sample Date 03/20/95 Sample time 12:00

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 449

TPH 638

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date 1/8/03
Signature Scott T. Pope

Printed Name Scott T. Pope
and Title Senior ENV. Scientist



PIT CLOSURE REQUEST

San Juan 28-6 Unit #206
Meter/Line ID - 89060

SITE DETAILS

Legals - Twn: 27N

Rng: 06

Sec: 10

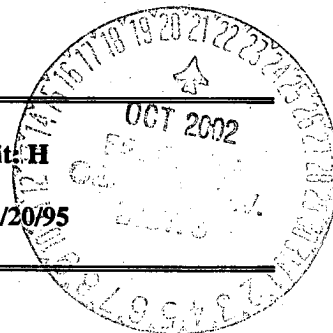
Unit: H

NMOCD Hazard Ranking: 20

Land Type: BLM

Operator: Meridian

Pit Closure Date: 03/20/95



RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 449 ppm; laboratory analysis indicated a TPH concentration of 638 mg/kg. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 21 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-21 ft bgs. Headspace analysis indicated an organic vapor content of 58 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over six years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 21 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase 2 soil boring at 21 ft bgs were non-detect, indicating no significant downward constituent migration is occurring.
- Residual hydrocarbons, if any, in the soil will degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form
Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase 2 Soil Boring Log
Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 89060 Location: San Juan 28-6 unit # 206
 Operator #: _____ Operator Name: Meridian P/L District: Bloomfield
 Coordinates: Letter: H Section 10 Township: 27 Range: 06
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 3/10/95 Area: 10 Run: 52

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 Cerza Canyon 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

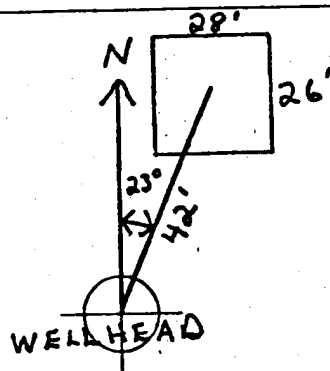
EMARK

Remarks : Red line shows inside Topo shows outside VZ
2 pits on loc 1 has Dehy in service, Old Dehy pit
belongs to Epng Will close old Dehy pit
D. - 1 T.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 23° Footage from Wellhead 42'
b) Length : 28' Width : 26' Depth : 4'



REMARKS

Remarks :

Photos: 07.37

Completed By:

James J. Poirer
Signature

3/10/95
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 89060 Location: San Juan 28-6 Unit #206
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: H Section 10 Township: 27 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 4/14/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside
Outside

Land Type:

☐ (1)
☒ (2)

BLM

State

Fee

Indian

☒ (1)
☐ (2)
☐ (3)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☒ (1)
☐ (2)
☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☐ (1)
☐ (2)
☒ (3)

Name of Surface Water Body _____

(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream

☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is < 50' vertical from center of Cereza Canyon



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 454	946748
MTR CODE SITE NAME:	89060	N/A
SAMPLE DATE TIME (Hrs):	3-20-95	1200
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	3/23/95	3/23/95
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Black clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	638	MG/KG			2.02	28
HEADSPACE PID	449	PPM				
PERCENT SOLIDS	80.1	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By: _____

Date: _____

3-24-95

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 89060 Location: SAN JUAN 28-6 UNIT #206
 Coordinates: Letter: H Section 10 Township: 27 Range: 06
 Or Latitude _____ Longitude _____
 Date Started : 3-20-95 Run: 10 52

FIELD OBSERVATIONS

Sample Number(s): KP 454
 Sample Depth: 12' Feet
 Final PID Reading 449 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☐ Approx. Cubic Yards _____
 Onsite Bioremediation ☐
 Backfill Pit Without Excavation ☒
 Soil Disposition:
 Envirotech ☐ Tierra ☐
 Other Facility ☐ Name: _____
 Pit Closure Date: 3-20-95 Pit Closed By: B.EI

REMARKS

Remarks : No LINE MARKERS dug A Test hole To 12'
SAMPLED closed Pit.

Signature of Specialist: Kelly Padilla

PROJECT NAME Pit Closure Project				CONTRACT LABORATORY P. O. NUMBER			
QUEST NUMBER # 24324	DATE 3-20-95			REQUESTED ANALYSIS			
LAB ID	DATE	TIME	MATRIX	FIELD ID	TPH EPA 418.1	BTEX EPA 8020	LAB PID
946746	3-20-95	0950	Soil	KP 452	VG X		
946747	3-20-95	1050	Soil	KP 453	VG X		
946748	3-20-95	1200	Soil	KP 454	VG X		
946749	3-20-95	1310	Soil	KP 455	VG X		
946750	3-20-95	1445	Soil	KP 456	VG X		
946751	3-20-95	1515	Soil	KP 457	VG X		

LAB ID	DATE	TIME	MATRIX	FIELD ID	TPH EPA 418.1	BTEX EPA 8020	LAB PID	SEQUENCE #	REMARKS
946746	3-20-95	0950	Soil	KP 452	VG X			408	HIT SAND STONE AT 9'
946747	3-20-95	1050	Soil	KP 453	VG X			409	HIT SAND STONE AT 5'
946748	3-20-95	1200	Soil	KP 454	VG X			410	AT 12' SOIL DARK BROWN WITH A H.C. ORDER
946749	3-20-95	1310	Soil	KP 455	VG X			411	AT 12' SOIL DARK GRAY WITH A H.C. ORDER
946750	3-20-95	1445	Soil	KP 456	VG X			412	HIT SAND STONE AT 5'
946751	3-20-95	1515	Soil	KP 457	VG X			413	HIT SAND STONE AT 3'

ELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Kelly Padilla	3-20-95 1800	Dynne Casbeer	3/21/95 1622	

REQUESTED TURNAROUND TIME:	ROUTINE	RUSH	CHARGE CODE
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

RESULTS & INVOICES TO:
FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499

BILL NO.:	505-599-2144	FAX: 505-599-2261

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

Monroe Road
Albuquerque, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location SAN JUAN 2B-6 #206 89060

Elevation _____
Borehole Location LTR: H S: 10 T: 27 R: 6
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 10/6/98
Date Completed 10/6/98

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

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			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0				EXCAVATION SAMPLE COLLECTED AT 12'						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
15	1	15-16	12	LTBR SANDSTONE, FINE SAND, MOD CEMENTED, DRY			1	401	450 89	1206 hrs
20	2	20-21	12	LTBR SANDSTONE, FINE SAND, MOD CEMENTED, DRY			1	277	74 58	1218 hrs
25				TOB 21'						
30										
35										
40										

Comments:

HAB45 20-21' SENT TO Lab FOR TPH BTEX, GW NOT
ENCOUNTERED, BH GROUTED TO SURFACE

Geologist Signature

H. Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB45	980689
MTR CODE SITE NAME:	89060	San Juan 28-6 #206
SAMPLE DATE TIME (Hrs):	10/6/98	1218
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/16/98	10/16/98
DATE OF BTEX EXT. ANAL.:	10/12/98	10/12/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	58	PPM				
PERCENT SOLIDS	91.0	%				

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

The Surrogate Recovery was at 98.8 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By: John Sardi

Date: 10/28/98



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

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 810045

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980689	NON-AQ	10/6/98	10/16/98	10/16/98	1
02	980690	NON-AQ	10/6/98	10/16/98	10/16/98	1

PARAMETER	DET. LIMIT	UNITS	01	02
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0

CALCULATED SUM:

SURROGATE:
O-TERPHENYL (%)
SURROGATE LIMITS (66 - 151)

96

110

CHEMIST NOTES:

N/A



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

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 810045
BLANK I.D.	: 101698	DATE EXTRACTED	: 10/16/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 10/16/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

PROBATE:
BIPHENYL (%) 105
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A

CHAIN OF CUSTODY

AE(NM) Accession #: **810045**

DATE: **10/12/98** PAGE: **1** OF **1**

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin COMPANY: E I PASO Field Services ADDRESS: 770 W. Navajo Farmington, NM 87401 PHONE: (505) 599-2144 FAX: (505) 599-2261 BILL TO: Above COMPANY: ADDRESS:		ANALYSIS REQUEST Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject (M8015) Gas/Purge & Trap 8021 (BTX)/8015 (Gasoline) 8021 (BTX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE 8021 (TCL) 8021 (EDX) 8021 (HALO) 8021 (CUST) 504.1 EDB <input type="checkbox"/> / DBCP <input type="checkbox"/> 8260 (TCL) Volatile Organics 8260 (Full) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Landfill) Volatile Organics Pesticides /PCB (608/8081) Herbicides (615/8151) Base/Neutral/Acid Compounds GC/MS (625/8270) Polynuclear Aromatics (610/8310) General Chemistry: Priority Pollutant Metals (13) Target Analyte List Metals (23) RCRA Metals (8) RCRA Metals by TCLP (Method 1311) Metals: NUMBER OF CONTAINERS	
PROJECT INFORMATION PROJ. NO.: 980689 PROJ. NAME: Phase II Drilling P.O. NO.: SHIPPED VIA: Fed Ex SAMPLE RECEIPT: NO. CONTAINERS: 2 CUSTODY SEALS: Y/N/N RECEIVED INTACT: Y RECEIVED BY: JEC		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS (RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/> CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER METHANOL PRESERVATION <input type="checkbox"/> COMMENTS: FIXED FEE <input type="checkbox"/>	
RELINQUISHED BY: Signature: <i>Marlon Hopper</i> Time: 1300 Printed Name: Marlon Hopper Date: 10/12/98 Company: EPFS		RELINQUISHED BY: Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	
RECEIVED BY: Signature: <i>Marlon Hopper</i> Time: 11:20 Printed Name: Marlon Hopper Date: 10/13/98 Company: American Environmental Network (NM), Inc.		RECEIVED BY (LAB): Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____	

BTEX SOIL SAMPLE WORKSHEET

File	:	980689	Date Printed	:	10/15/98
Soil Mass (g)	:	5.02	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report)	:	0.19920

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.498
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.498
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.498
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.996
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.498
	Total xylenes (mg/Kg):	#VALUE!	1.494
	Total BTEX (mg/Kg):	#VALUE!	

[illegible]