

Burnett Oil Company
Loco Hills, New Mexico
Gissler A #9
Spill Report 2016



3001 W Loop 250 N Ste. C-105-166

Midland, Texas 79705

(210) 213-0397

(936) 615-2088

Remediation Services for Hydrocarbon and Produced Water Spills

Week '1'

PREF

MAP

+032.83268°

-103.93973°

3647ft

15:46:18

POSITION - ALTITUDE - TIME

LOG

MAP

HORIZON

+02.3°

ANGLE

ELEVATION

-14.5°

ANGLE

AZIMUTH - BEARING

277° N83W 4924mils TRUE

ZERO

A-B

CAL

LENS 10X

10X

-20

00

+05

PREF

MAP

+032.83269° / -103.93977° 3650ft 15:46:37

MAIL

POSITION - ALTITUDE - TIME

LOG

HORIZON

+01.1°

ANGLE

ELEVATION

-13.3°

ANGLE

AZIMUTH - BEARING

279° N81W 4960mils TRUE

ZERO

A-B

CAL

W

300

LENS

10X

OS

PREF

+032.83270° / -103.93951° 3645ft 15:45:54

MAIL

MAP

POSITION - ALTITUDE - TIME

LOG

HORIZON

+02.5°

ANGLE

ELEVATION

-12.1°

ANGLE

AZIMUTH - BEARING

267° S87W 4747mils TRUE

ZERO

A-B

CAL

LENS

1.0X

OS



PREF

+032.83270° / -103.93910° 3635ft 15:45:19

MAIL

MAP

POSITION - ALTITUDE - TIME

LOG

HORIZON

-00.1°

ANGLE

ELEVATION

-13.2°

ANGLE

AZIMUTH - BEARING

267° S87W 4747mils TRUE

ZERO

A-B

CAL

LENS

1.0X

OS

W

300

240

-05

+05

-15

-10

PREF

MAP

LOG

MAIL

POSITION - ALTITUDE - TIME

+032.83269° / -103.93883° 3645ft 15:44:53

HORIZON

+02.5°

ANGLE

ELEVATION

-13.8°

ANGLE

AZIMUTH - BEARING

274° N86W 4871mils TRUE

ZERO

A-B

CAL

LENS

1.0X

OS

PREF

MAIL

+032.83267° / -103.93861° 3655ft 15:44:31

POSITION - ALTITUDE - TIME

MAP

LOG

-05
00
+05

HORIZON

-00.7°

ANGLE

-20
-15

ELEVATION

-17.4°

ANGLE

● AZIMUTH - BEARING

053° N53E 0942mils TRUE

ZERO

A-B

CAL

LENS

10X

OS



PREF

MAP

+032.83267° / -103.93861° 3656ft 15:44:26

MAIL

POSITION - ALTITUDE - TIME

LOG

-05

HORIZON

+00.6°

ANGLE

ELEVATION

-15.2°

ANGLE

AZIMUTH - BEARING

281° N79W 4996mils TRUE

ZERO

A-B

CAL

LENS

1.0 X

OS

PREF

MAIL

+032.83267° / -103.93861° 3648ft 15:44:21

POSITION - ALTITUDE - TIME

MAP

LOG

HORIZON

+01.6°

ANGLE

ELEVATION

-11.9°

ANGLE

AZIMUTH - BEARING

086° N86E 1529mils TRUE

ZERO

A-B

CAL

LENS 1.0X



-15

-10

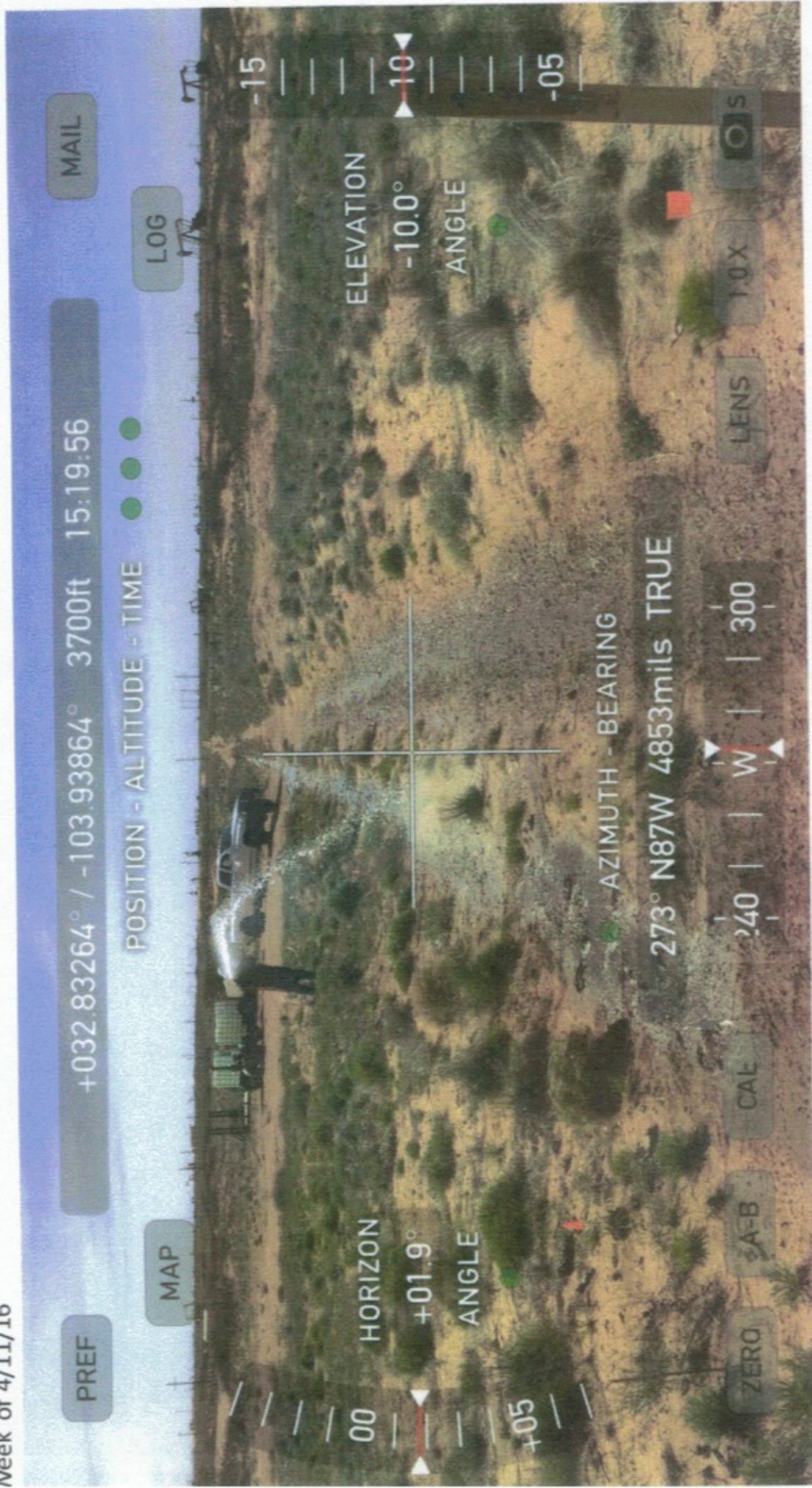
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E

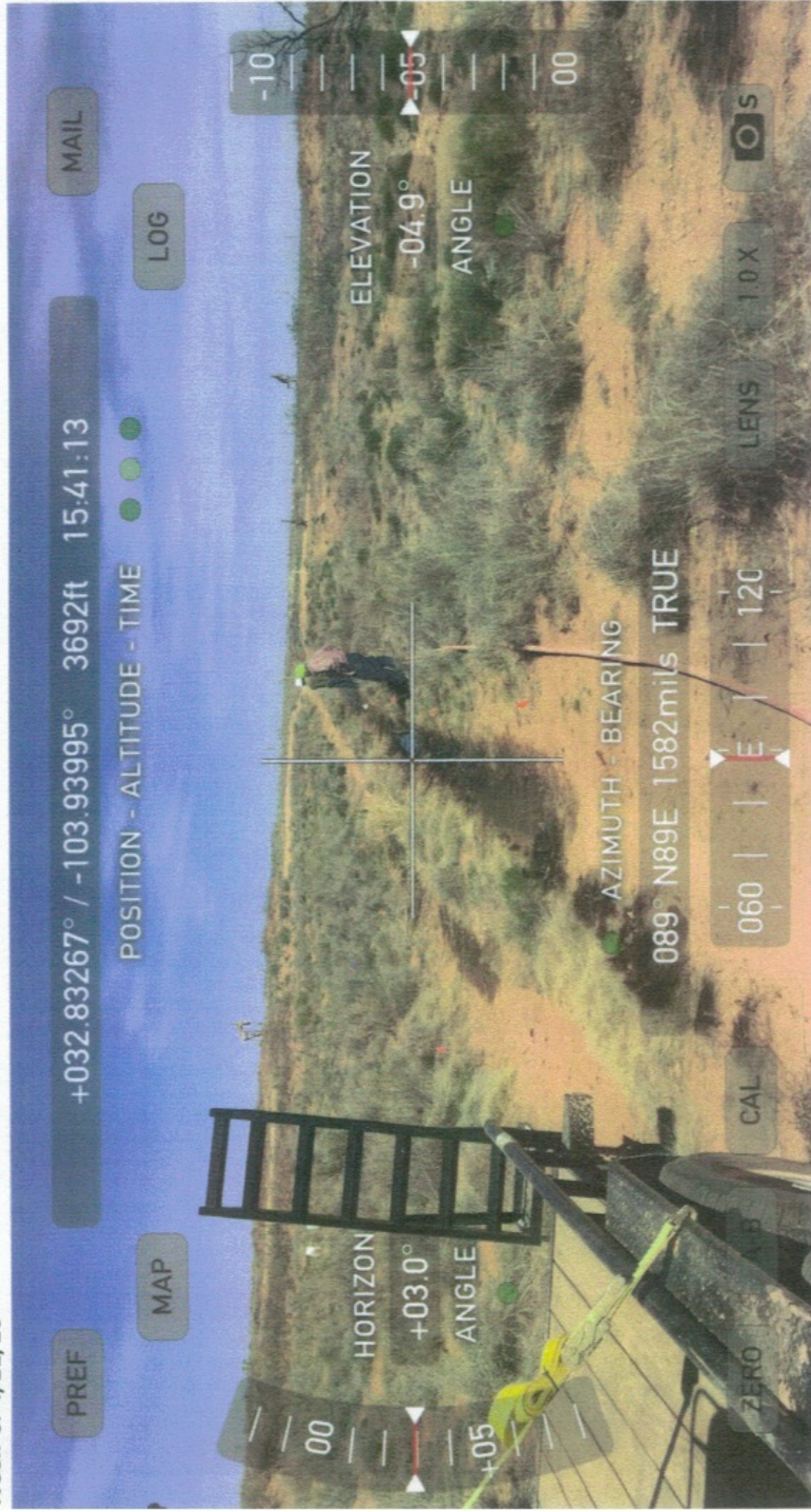
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Week '2'

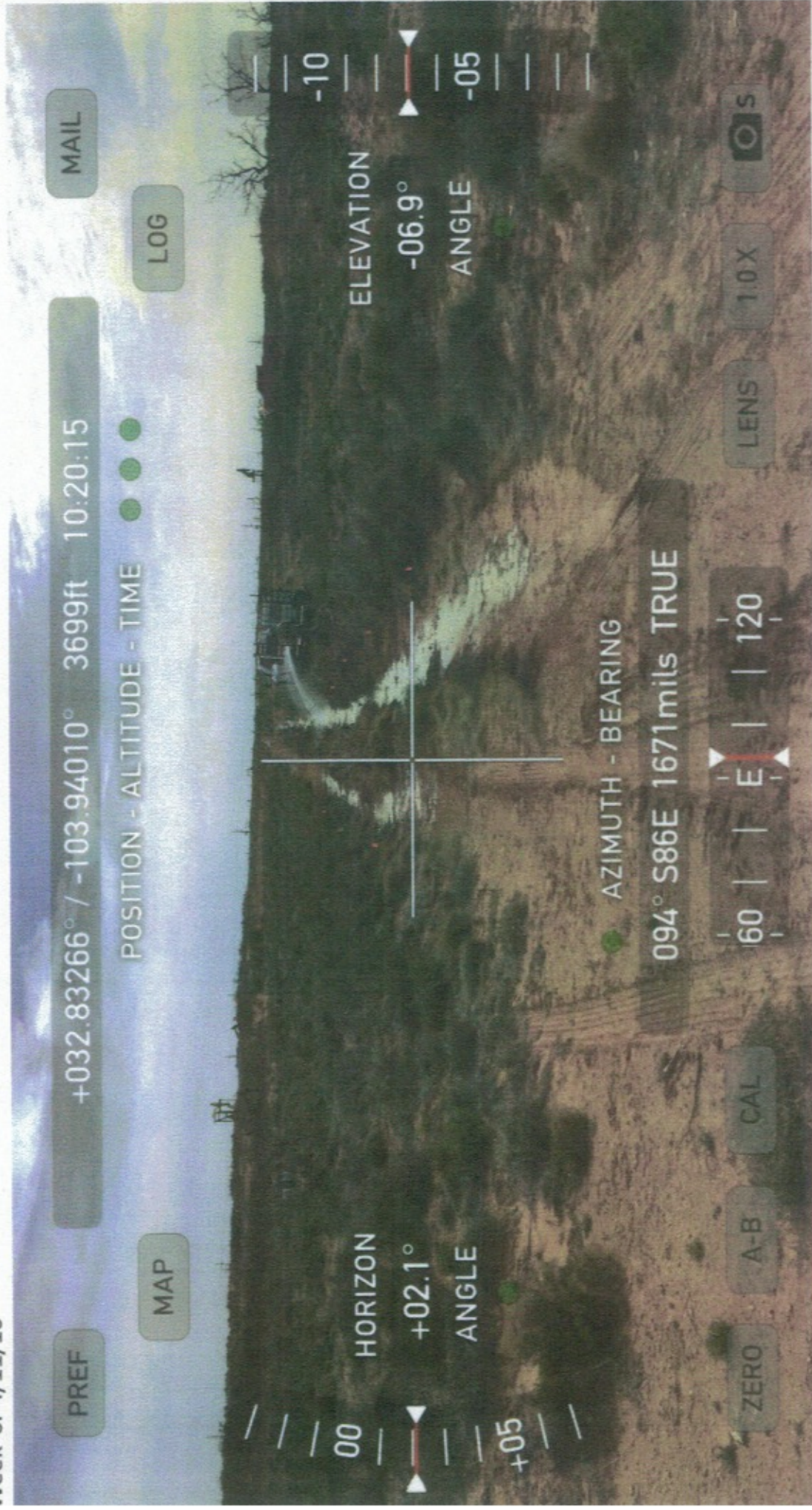
Week of 4/11/16



Week of 4/11/16



Week of 4/11/16

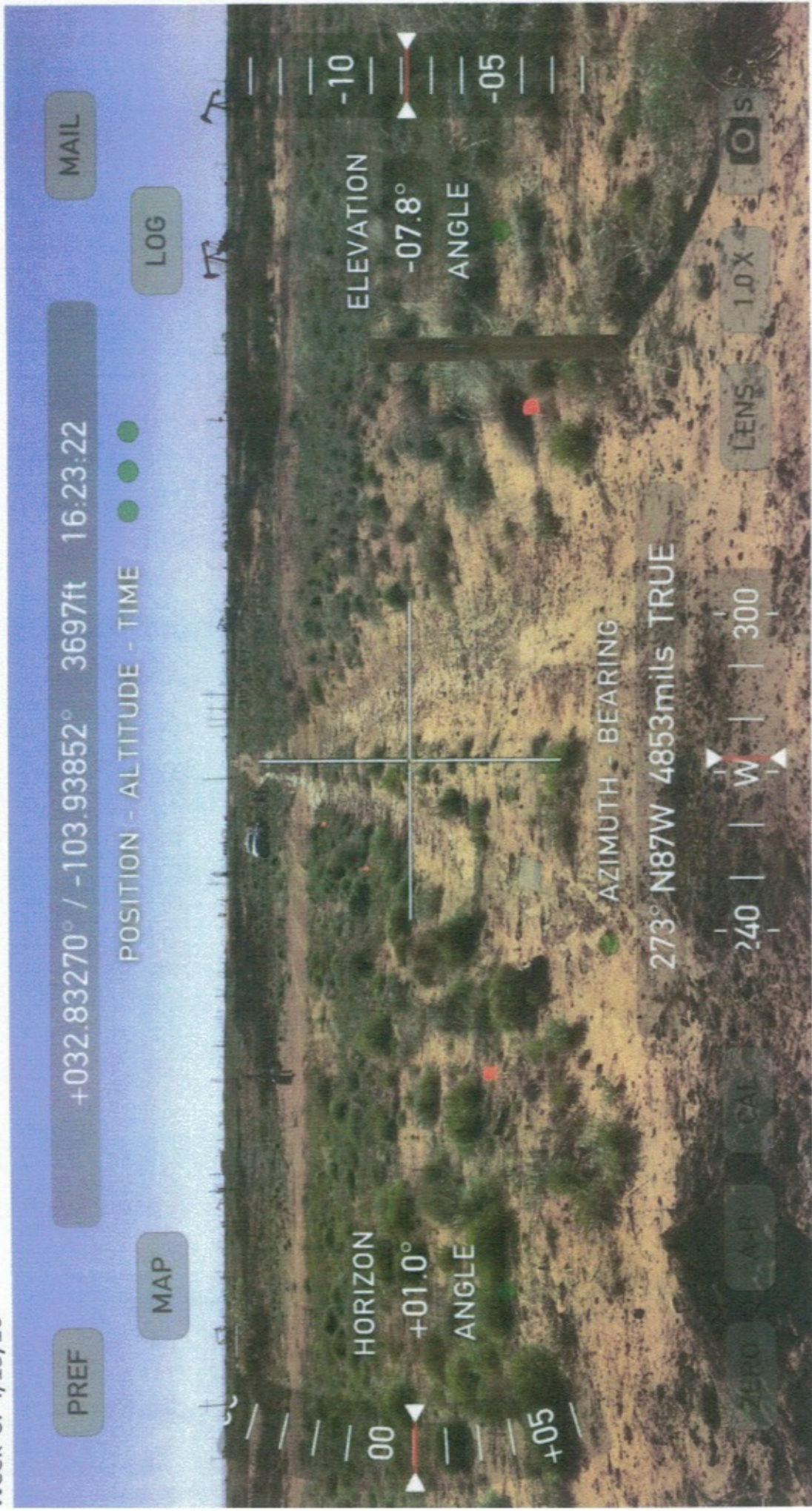


Week of 4/11/16

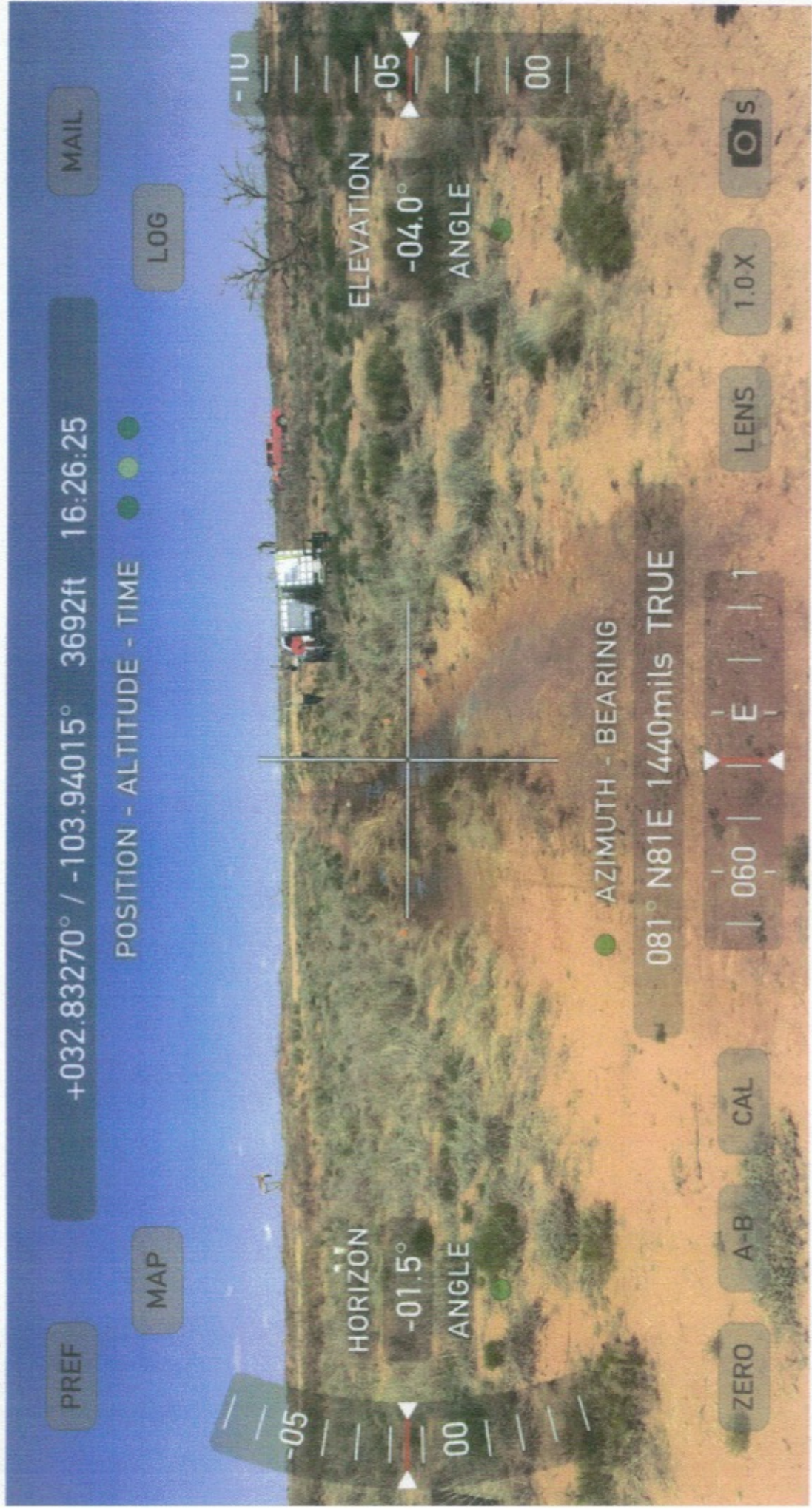


Week '3'

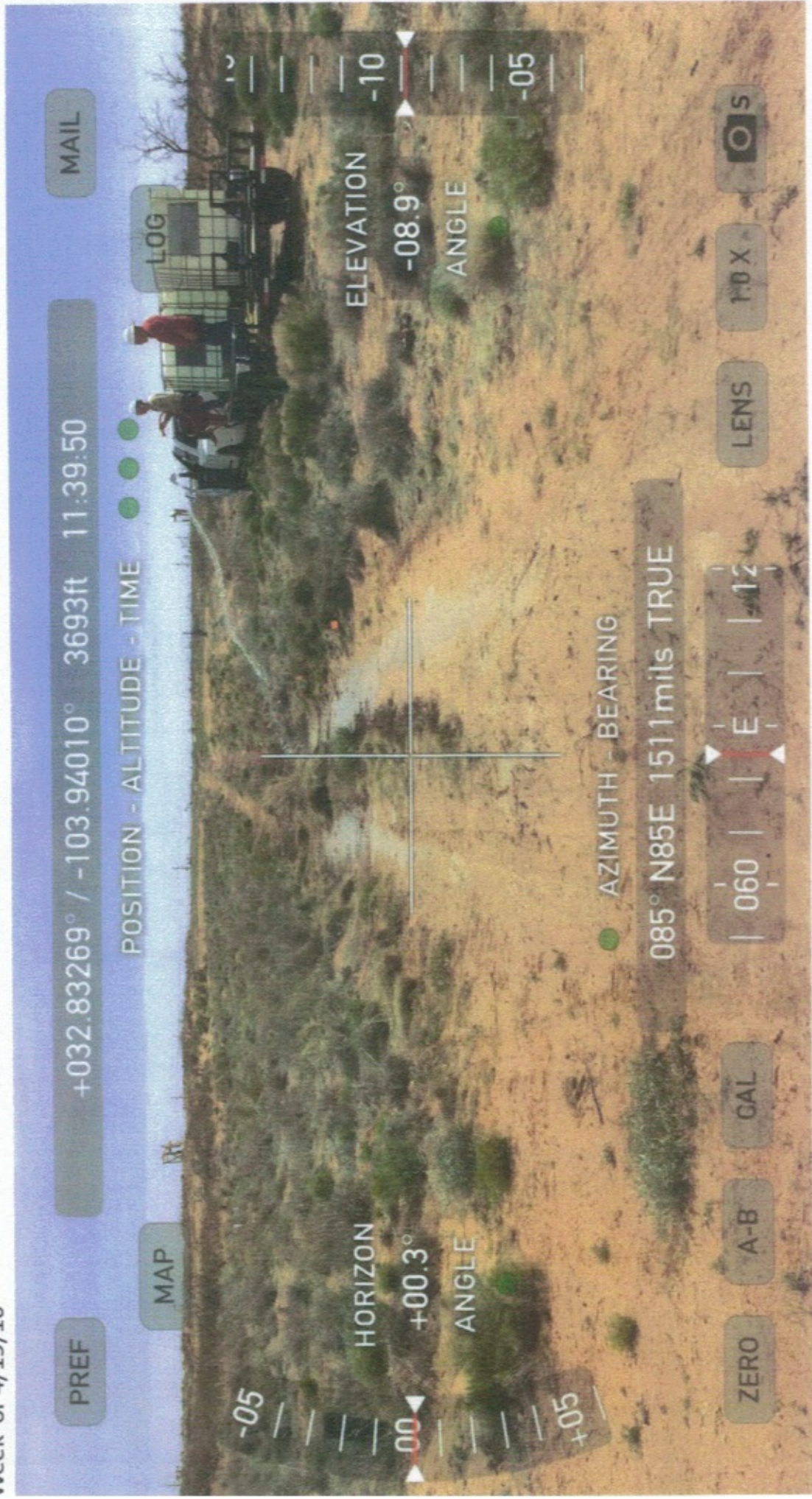
Week of 4/19/16



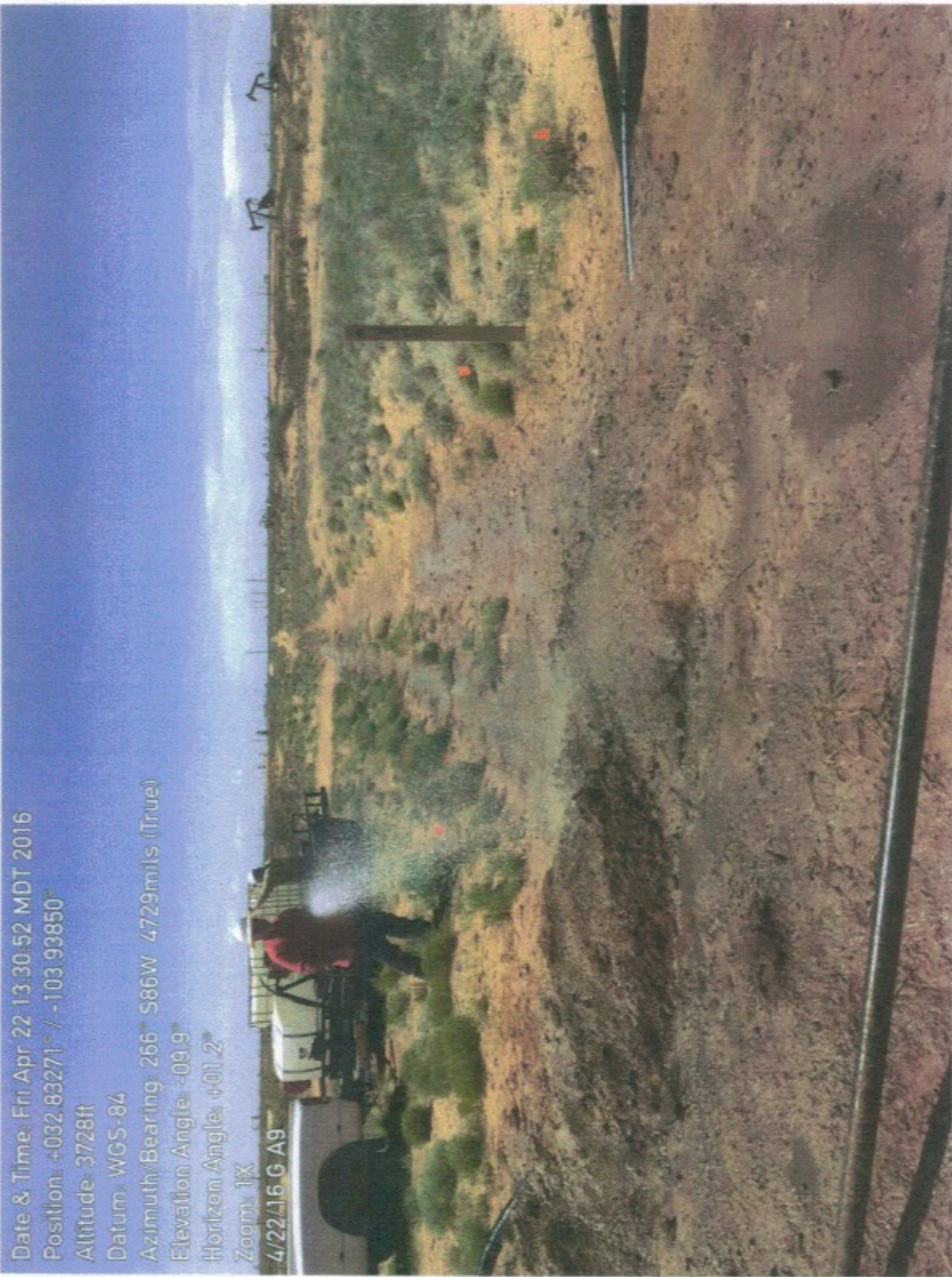
Week of 4/19/16



Week of 4/19/16



Week '4'



Date & Time: Fri Apr 22 13:30:52 MDT 2016

Position: +032.83271° / -103.93850°

Altitude: 3728ft

Datum: WGS-84

Azimuth/Bearing: 266° S86W 4729mils (True)

Elevation Angle: -09.9°

Horizon Angle: +01.2°

Zoom: 1X

4/22/16 G A9



Date & Time: Thu Apr 28 15:17:44 MDT 2016

Position: +032.83271° -103.93865°

Altitude: 3696ft

Datum: WGS-84

Azimuth/Bearing: 091° S89E 1618mils (True)

Elevation Angle: -19.4

Horizon Angle: -02.2

Zoom: 1X

gissler a9 sp1 4/28/16

Date & Time: Thu Apr 28 15:18:44 MDT 2016

Position: +032.83271° / -103.93888°

Altitude: 3695ft

Datum: WGS-84

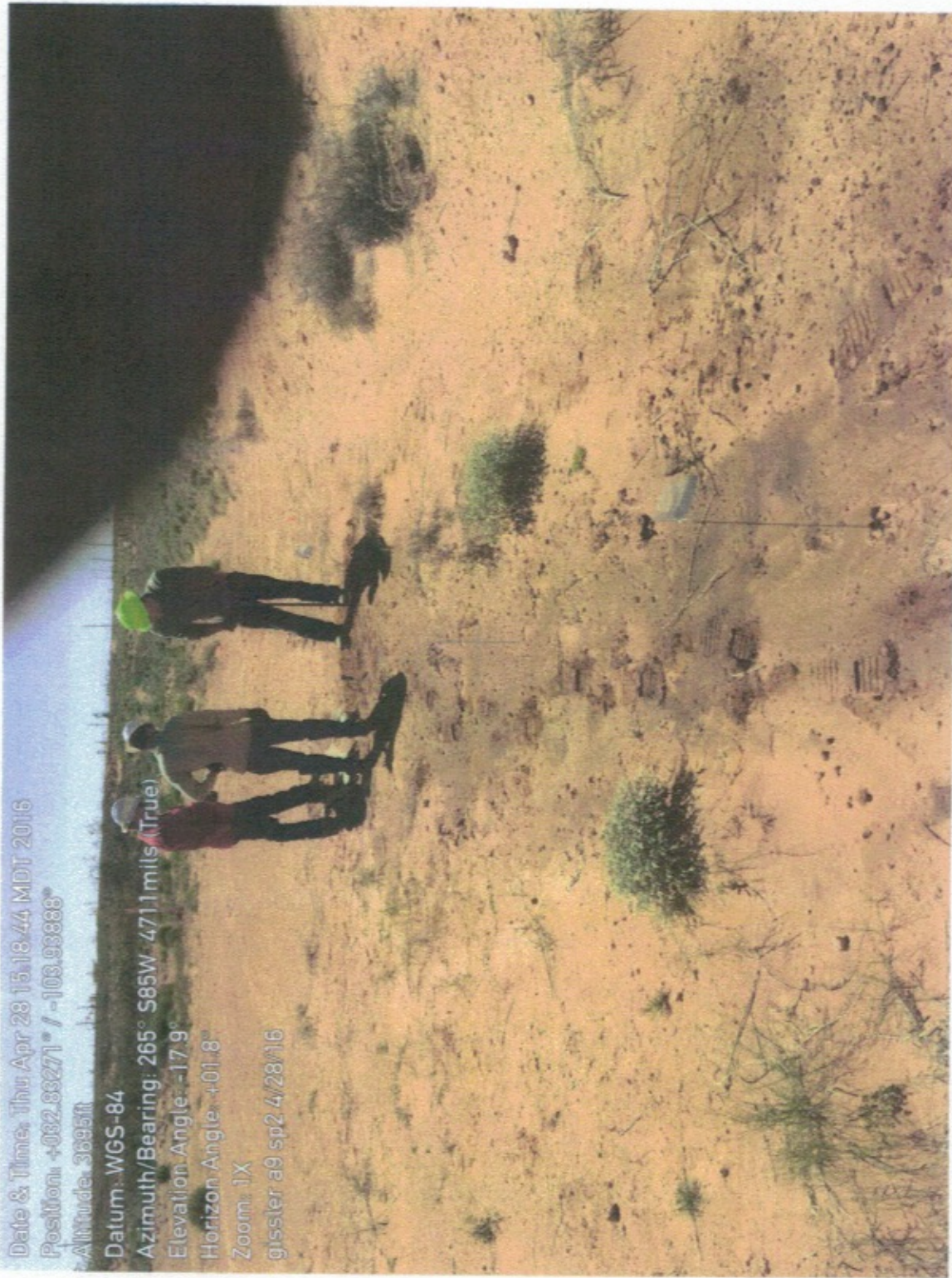
Azimuth/Bearing: 265° S85W 471.1mils (True)

Elevation Angle: -17.9°

Horizon Angle: +01.8°

Zoom: 1X

gissler a9 sp2 4/28/16



Date & Time: Thu Apr 28 15:19:41 MDT 2016

Position: +032.83269° / -103.93945°

Altitude: 3694ft

Datum: WGS-84

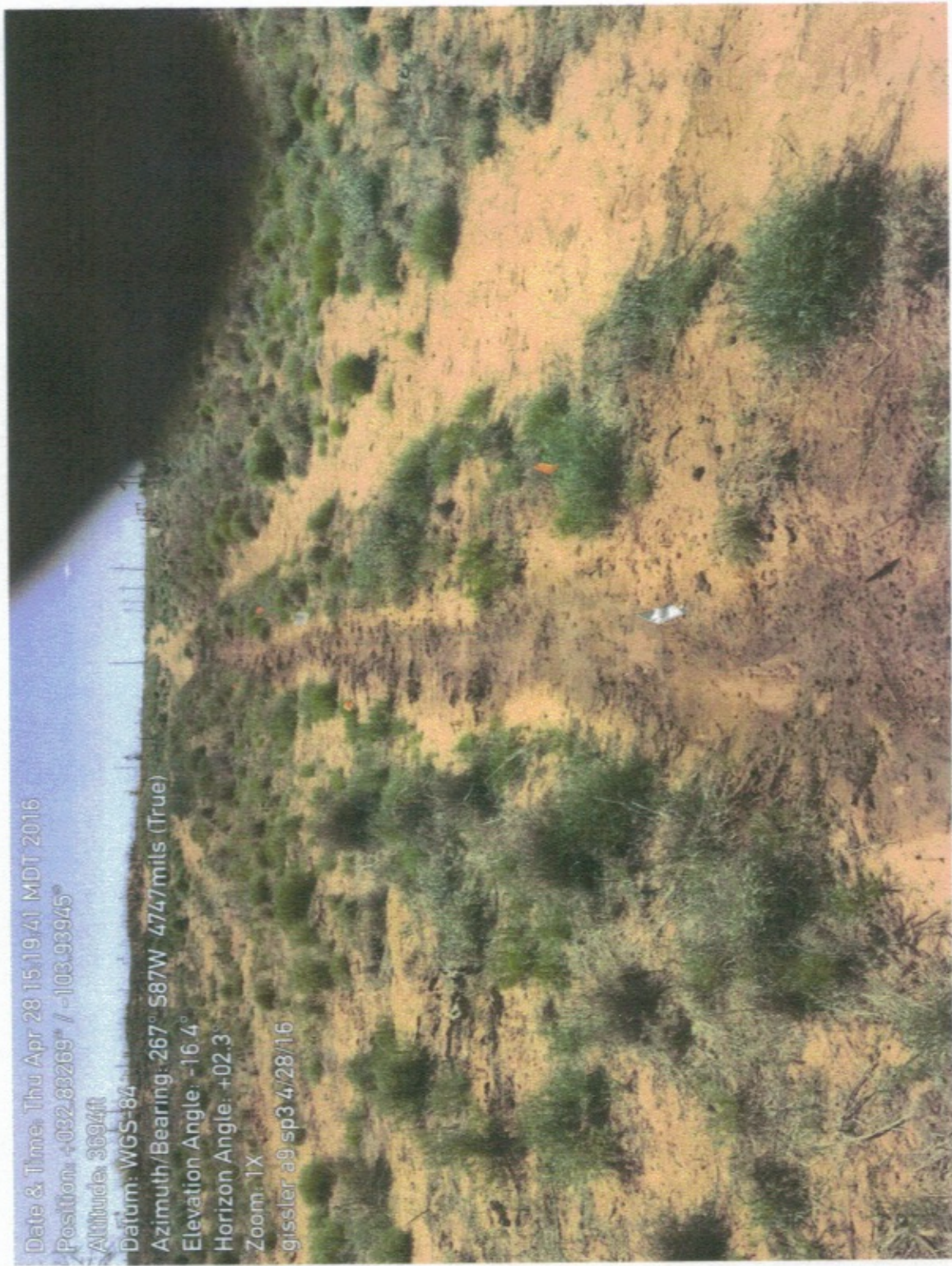
Azimuth/Bearing: 267° S87W 4747mils (True)

Elevation Angle: -16.4°

Horizon Angle: +02.3

Zoom: 1X

gissler a9 sp3 4/28/16



Date & Time: Thu Apr 28 15:20:51 MDT 2016
Position: +032.83268° / -103.93990°
Altitude: 3696ft
Datum: WGS-84
Azimuth/Bearing: 272° N88W 4836mils (True)
Elevation Angle: -24.1°
Horizon Angle: +03.6°
Zoom: 1X
gissler a9 sp4 4/28/16



ANALYSIS

Burnett Oil Company

6666

Loco Hills, NM

5/9/16 Results

Sample Locations	Gissler A-9			
	Pre-Treated TPH	Post-Treated TPH	Pre-Treated Chlorides	Post-Treated Chlorides
SP1-0'-1'	15510	12200	3200	?
SP1-1'-1.5'	65.5	436	3600	?
SP1-2'-2.5'	-	-	2800	?
SP1-3'-3.5'	-	-	752	?
SP1-4'-4.5'	-	-	-	?
SP2-0'-1'	3739	41600	128	?
SP2-1'-1.5'	-	19300	160	?
SP2-2'-2.5'	-	183	-	?
SP2-3'-3.5'	-	-	-	?
SP2-4'-4.5'	-	-	-	?
SP3-0'-1'	19490	11300	592	?
SP3-1'-1.5'	9260	88.5	80	?
SP3-2'-2.5'	13.5	-	ND	?
SP3-3'-3.5'	-	-	ND	?
SP3-4'-4.5'	-	-	-	?
SP4-0'-1'	5519	15600	1040	?
SP4-1'-1.5'	-	15700	32	?
SP4-2'-2.5'	-	355	ND	?
SP4-3'-3.5'	-	-	ND	?
SP4-4'-4.5'	-	-	ND	?

Legend

Acceptable

Near Acceptable

Unacceptable

Not Tested

Not Detected

ND

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Burnett Oil Co., Inc.	Contact	Leslie Garvis
Address	Burnett Plaza - Suite 1500, 801 Cherry Street-Unit 9, Ft. Worth, TX 76102	Telephone No.	817-583-8730
Facility Name	Gissler A 9	Facility Type	Oil well
Surface Owner	BLM	Mineral Owner	BLM
		API No.	30-015-04153

LOCATION OF RELEASE

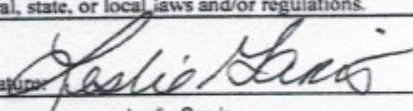
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	14	17S	30E	1980	North	660	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil/Water	Volume of Release	3 bbls/7 bbls	Volume Recovered	0/0
Source of Release	Poly Pipe	Date and Hour of Occurrence	12/16/15 1000	Date and Hour of Discovery	12/16/15 1000
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	BLM - S. Tucker, OCD - H. Patterson		
By Whom?	Leslie Garvis	Date and Hour	12/16/15 1435		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Steel flowline to tank battery corroded and released PW & Oil. Pipeline will be repaired and returned to service					
Describe Area Affected and Cleanup Action Taken.* Area affect is approx 400' x 1' and 10'x20' in the track of the pipeline right of way, with a pooling area at the end of the release. The release originated at the top of an elevated area and traveled downhill. The spill is approx. 150-200 yards north of the Gissler A 2 tank battery. Impacted area will be sampled and cleaned up according to regulatory requirements. Clean up plan will be submitted as soon as developed.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:		
Printed Name: Leslie Garvis			
Title: Regulatory Coordinator	Approval Date:	Expiration Date:	
E-mail Address: lgarvis@burnettoil.com	Conditions of Approval:		Attached ☐
Date: 12/16/15	Phone: 817-583-8730		

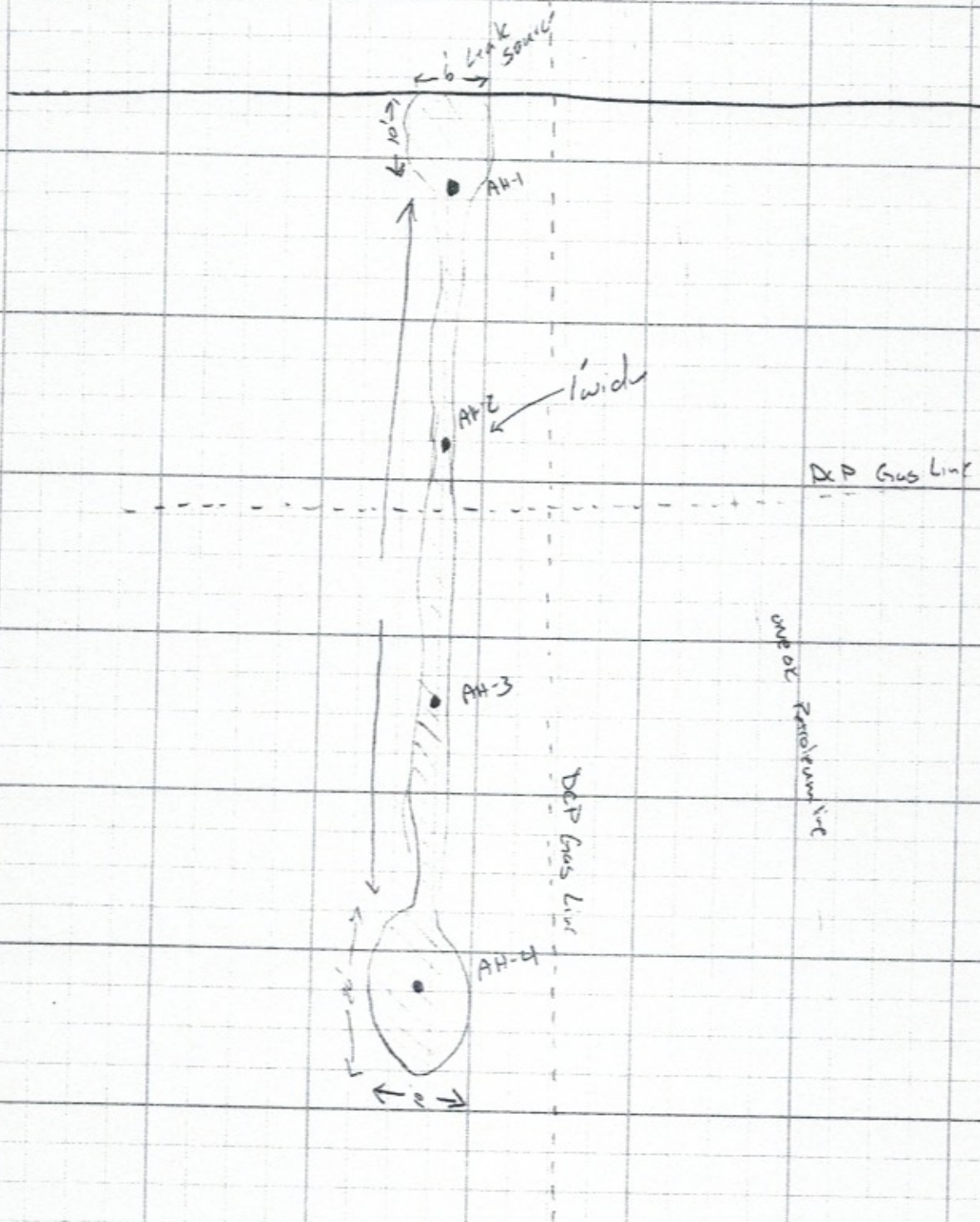
* Attach Additional Sheets If Necessary

Table 1 - Analytical Results

Date	Sample ID	Depth	Chloride	TPH - GRO	TPH - DRO	Benzene	Toluene	ethylbenzene	Xylene	BTEX
2/8/2016	AH-1	0-1'	3200	2710	12800					
2/8/2016	AH-1	1'-1.5'	3600	<10.0	65.5					
2/8/2016	AH-1	2'-2.5'	2800							
2/8/2016	AH-1	3'-3.5'	752							
2/8/2016	AH-2	0-1'	128	599	3140	<0.500	5.61	12.7	26.1	44.4
2/8/2016	AH-2	1'-1.5'	160							
2/8/2016	AH-3	0-1'	592	2090	17400					
2/8/2016	AH-3	1'-1.5'	80	1200	8060					
2/8/2016	AH-3	2'-2.5'	<16.0	<10.0	13.5					
2/8/2016	AH-3	3'-3.5'	<16.0							
2/8/2016	AH-4	0-1'	1040	569	4950	<0.500	1.18	6.38	16	23.6
2/8/2016	AH-4	1'-1.5'	32	<10.0	<10.0					

[illegible]

A-2





RWI
CONSTRUCTION INC.

3424 North WCR
Hobbs, New Mexico 88240

Office: (505) 393-5305
Facsimile: (505) 492-9845
~ 24 Hour Service ~

Sandblasting • Painting • Coating
Roustabout • Welding
Backhoe & Dump Truck Service
DOT Aluminum Tank Repair

ASME CODE STAMP
R • CODE
STAMP



MISSLENA9 HYDROCARBON SPILL 4/28/16

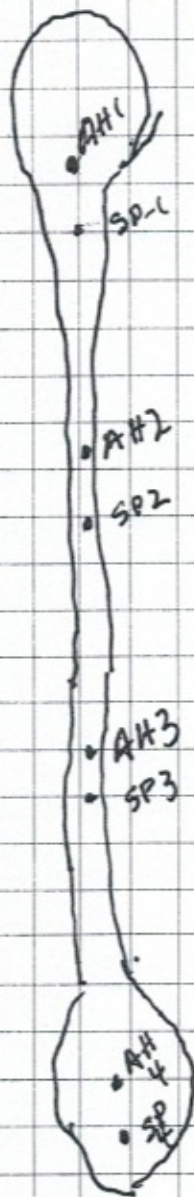
24

SP1 - 0-1'
SP1 1-1.5'
SP1 2-2.5'
SP1 3-3.5'
SP1 4-4.5'

SP2 0-1'
SP2 1-1.5'
SP2 2-2.5'
SP2 3-3.5'
SP2 4-4.5' refusal

SP3 0-1'
SP3 1-1.5'
SP3 2-2.5'
SP3 3-3.5'
SP3 4-4.5' refusal

SP4 0-1'
SP4 1-1.5'
SP4 2-2.5'
SP4 3-3.5'
SP4 4-4.5' refusal



**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**

PBELAB

Analytical Report

Prepared for:

Johnny Titsworth
Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland, TX 79705

Project: Gissler A 9

Project Number: 5

Location: Loco Hills, NM

Lab Order Number: 6E02009



NELAP/TCEQ # T104704156-13-3

Report Date: 05/09/16

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1 0-1'	6E02009-01	Soil	04/28/16 00:00	05-02-2016 14:07
SP1 1-1.5'	6E02009-02	Soil	04/28/16 00:00	05-02-2016 14:07
SP2 0-1'	6E02009-06	Soil	04/28/16 00:00	05-02-2016 14:07
SP2 1-1.5'	6E02009-07	Soil	04/28/16 00:00	05-02-2016 14:07
SP2 2-2.5'	6E02009-08	Soil	04/28/16 00:00	05-02-2016 14:07
SP3 0-1'	6E02009-10	Soil	04/28/16 00:00	05-02-2016 14:07
SP3 1-1.5'	6E02009-11	Soil	04/28/16 00:00	05-02-2016 14:07
SP4 0-1'	6E02009-14	Soil	04/28/16 00:00	05-02-2016 14:07
SP4 1-1.5'	6E02009-15	Soil	04/28/16 00:00	05-02-2016 14:07
SP4 2-2.5'	6E02009-16	Soil	04/28/16 00:00	05-02-2016 14:07

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP1 0-1'
6E02009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2550	140	mg/kg dry	5	P6E0607	05/05/16	05/06/16	TPH 8015M
>C12-C28	8850	140	mg/kg dry	5	P6E0607	05/05/16	05/06/16	TPH 8015M
>C28-C35	842	140	mg/kg dry	5	P6E0607	05/05/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		124 %	70-130		P6E0607	05/05/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		91.2 %	70-130		P6E0607	05/05/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	12200	140	mg/kg dry	5	[CALC]	05/05/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP1 1-1.5'
6E02009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	14.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	53.2	29.1	mg/kg dry	1	P6E0607	05/05/16	05/06/16	TPH 8015M	
>C12-C28	339	29.1	mg/kg dry	1	P6E0607	05/05/16	05/06/16	TPH 8015M	
>C28-C35	43.4	29.1	mg/kg dry	1	P6E0607	05/05/16	05/06/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.2 %	70-130		P6E0607	05/05/16	05/06/16	TPH 8015M	
Surrogate: o-Terphenyl		77.5 %	70-130		P6E0607	05/05/16	05/06/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	436	29.1	mg/kg dry	1	[CALC]	05/05/16	05/06/16	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP2 0-1'
6E02009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	
------------	------	-----	---	---	---------	----------	----------	---------------	--

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	6040	281	mg/kg dry	10	P6E0912	05/06/16	05/09/16	TPH 8015M	
>C12-C28	30500	281	mg/kg dry	10	P6E0912	05/06/16	05/09/16	TPH 8015M	
>C28-C35	5010	281	mg/kg dry	10	P6E0912	05/06/16	05/09/16	TPH 8015M	
Surrogate: 1-Chlorooctane		187 %	70-130		P6E0912	05/06/16	05/09/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		106 %	70-130		P6E0912	05/06/16	05/09/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	41600	281	mg/kg dry	10	[CALC]	05/06/16	05/09/16	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP2 1-1.5'
6E02009-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	9.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
------------	-----	-----	---	---	---------	----------	----------	---------------

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	3270	137	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C12-C28	13900	137	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C28-C35	2090	137	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		104 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		98.1 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	19300	137	mg/kg dry	5	[CALC]	05/06/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 6 of 18

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP2 2-2.5'
6E02009-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	9.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P6E0912	05/06/16	05/09/16	TPH 8015M
>C12-C28	146	27.5	mg/kg dry	1	P6E0912	05/06/16	05/09/16	TPH 8015M
>C28-C35	36.9	27.5	mg/kg dry	1	P6E0912	05/06/16	05/09/16	TPH 8015M
Surrogate: 1-Chlorooctane		82.5 %	70-130		P6E0912	05/06/16	05/09/16	TPH 8015M
Surrogate: o-Terphenyl		93.9 %	70-130		P6E0912	05/06/16	05/09/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	183	27.5	mg/kg dry	1	[CALC]	05/06/16	05/09/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP3 0-1'
6E02009-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	6.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1660	133	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C12-C28	8390	133	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C28-C35	1240	133	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		118 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		94.4 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	11300	133	mg/kg dry	5	[CALC]	05/06/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP3 1-1.5'
6E02009-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	6.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M	
>C12-C28	88.8	26.6	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M	
Surrogate: 1-Chlorooctane		78.3 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M	
Surrogate: o-Terphenyl		86.0 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	88.8	26.6	mg/kg dry	1	[CALC]	05/06/16	05/06/16	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP4 0-1'
6E02009-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	8.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1790	136	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C12-C28	12000	136	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C28-C35	1780	136	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		112 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		95.1 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	15600	136	mg/kg dry	5	[CALC]	05/06/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

SP4 1-1.5'
6E02009-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	7.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1870	134	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C12-C28	12000	134	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
>C28-C35	1810	134	mg/kg dry	5	P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		124 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		118 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	15700	134	mg/kg dry	5	[CALC]	05/06/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Tittsworth

Fax:

SP4 2-2.5'
6E02009-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

% Moisture	11.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation
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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M
>C12-C28	282	28.1	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M
>C28-C35	73.6	28.1	mg/kg dry	1	P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		92.8 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Surrogate: o-Terphenyl		96.3 %	70-130		P6E0912	05/06/16	05/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	355	28.1	mg/kg dry	1	[CALC]	05/06/16	05/06/16	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0508 - *** DEFAULT PREP ***										
Blank (P6E0508-BLK1)				Prepared & Analyzed: 05/05/16						
% Moisture	ND	0.1	%							
Duplicate (P6E0508-DUP1)				Source: 6E02006-16 Prepared & Analyzed: 05/05/16						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P6E0508-DUP2)				Source: 6E02009-01 Prepared & Analyzed: 05/05/16						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P6E0508-DUP3)				Source: 6E04001-05 Prepared & Analyzed: 05/05/16						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P6E0508-DUP4)				Source: 6E04002-01 Prepared & Analyzed: 05/05/16						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Tittsworth

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0607 - TX 1005										
Blank (P6E0607-BLK1)				Prepared & Analyzed: 05/05/16						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.8		"	100		80.8	70-130			
Surrogate: o-Terphenyl	36.8		"	50.0		73.6	70-130			
LCS (P6E0607-BS1)				Prepared & Analyzed: 05/05/16						
C6-C12	845	25.0	mg/kg wet	1000		84.5	75-125			
>C12-C28	987	25.0	"	1000		98.7	75-125			
Surrogate: 1-Chlorooctane	99.0		"	100		99.0	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	70-130			
LCS Dup (P6E0607-BSD1)				Prepared & Analyzed: 05/05/16						
C6-C12	939	25.0	mg/kg wet	1000		93.9	75-125	10.6	20	
>C12-C28	1110	25.0	"	1000		111	75-125	11.4	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			
Matrix Spike (P6E0607-MS1)				Source: 6E05001-01	Prepared: 05/05/16 Analyzed: 05/06/16					
C6-C12	797	26.3	mg/kg dry	1050	21.4	73.7	75-125			QM-07
>C12-C28	896	26.3	"	1050	ND	85.1	75-125			
Surrogate: 1-Chlorooctane	102		"	105		96.9	70-130			
Surrogate: o-Terphenyl	39.1		"	52.6		74.3	70-130			
Matrix Spike Dup (P6E0607-MSD1)				Source: 6E05001-01	Prepared: 05/05/16 Analyzed: 05/06/16					
C6-C12	837	26.3	mg/kg dry	1050	21.4	77.5	75-125	4.96	20	
>C12-C28	949	26.3	"	1050	ND	90.1	75-125	5.73	20	
Surrogate: 1-Chlorooctane	108		"	105		103	70-130			
Surrogate: o-Terphenyl	42.4		"	52.6		80.6	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0912 - TX 1005										
Blank (P6E0912-BLK1)										
					Prepared & Analyzed: 05/06/16					
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	77.7		"	100		77.7	70-130			
Surrogate: o-Terphenyl	40.2		"	50.0		80.4	70-130			
LCS (P6E0912-BS1)										
					Prepared & Analyzed: 05/06/16					
C6-C12	937	25.0	mg/kg wet	1000		93.7	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			
LCS Dup (P6E0912-BSD1)										
					Prepared & Analyzed: 05/06/16					
C6-C12	998	25.0	mg/kg wet	1000		99.8	75-125	6.28	20	
>C12-C28	1190	25.0	"	1000		119	75-125	6.53	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130			
Matrix Spike (P6E0912-MS1)										
			Source: 6E04001-02		Prepared & Analyzed: 05/06/16					
C6-C12	895	26.9	mg/kg dry	1080	ND	83.3	75-125			
>C12-C28	1100	26.9	"	1080	26.2	99.9	75-125			
Surrogate: 1-Chlorooctane	108		"	108		101	70-130			
Surrogate: o-Terphenyl	39.5		"	53.8		73.4	70-130			
Matrix Spike Dup (P6E0912-MSD1)										
			Source: 6E04001-02		Prepared & Analyzed: 05/06/16					
C6-C12	918	26.9	mg/kg dry	1080	ND	85.4	75-125	2.54	20	
>C12-C28	1070	26.9	"	1080	26.2	97.4	75-125	2.54	20	
Surrogate: 1-Chlorooctane	113		"	108		105	70-130			
Surrogate: o-Terphenyl	46.4		"	53.8		86.3	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 9
Project Number: 5
Project Manager: Johnny Titsworth

Fax:

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/9/2016

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 16 of 18

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Tinsworth

Company Name: Burnett Oil Company, Inc.

Company Address: 24 Smith Road, Suite 100

City/State/Zip: Midland, TX 70705

Telephone No: 432-425-2891

Fax No: 817-332-2438

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail:

jtinsworth@burnettol.com
kjfreeman@aspengrow.us
dholli@aspengrow.us

Project Name: Giesler A 9

Project #: 5

Project Loc: Loco Hills, NM

PO #:

FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ SO ₄	None 1L Poly	NaOH/ZnAc	Matrix	TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Analyze For:
SP1-0'-1'	S	1'	04/28/16													X			
SP1-1'-1.5'	S	1.5'	04/28/16													X			
SP1-2'-2.5'	S	2.5'	04/28/16													X			
SP1-3'-3.5'	S	3.5'	04/28/16													X			
SP1-4'-4.5'	S	4.5'	04/28/16													X			
SP2-0'-1'	S	1'	04/28/16													X			
SP2-1'-1.5'	S	1.5'	04/28/16													X			
SP2-2'-2.5'	S	2.5'	04/28/16													X			
SP2-3'-3.5'	S	3.5'	04/28/16													X			
SP2-4'-4.5'	S	4.5'	04/28/16													REFUSAL			

Rush 24 48 72 (Please call)
Standard

Special Instructions: If total TPH exceeds 5,000 mg/kg, run deeper samples. If total BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples.

Requested by: [Signature] Date: 4-29-16 Time: 15:30

Requested by: [Signature] Date: 4-29-16 Time: 15:30

Requested by: [Signature] Date: 4-29-16 Time: 15:30

Parrish Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Tlsworth

Company Name: Burnett Oil Company, Inc.

Company Address: 24 Smith Road, Suite 100

City/State/Zip: Midland, TX 79705

Telephone No: 432-425-2891

Sample Signature: [Signature]

Fax No: 817-332-2438

e-mail:

tlsworth@burnettol.com
k.freeman@burnettol.com
d.holt@burnettol.com

Project Name: Gisler A 9

Project #: 5

Project Loc: Loco Hills, NM

PO #: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Preservation & # of Containers

Field Filtered

Total # of Containers

Ice

HNO₃ 200 mL Poly

HCl

H₂SO₄

NaOH

Na₂SO₄

None 1L Poly

NaOH/2%Ac

DW - Drinking Water SL - Sludge

GW - Groundwater S - Solid/Solid

NP - Non-Potable Specify Other

Matrix

Analyze For:

Rush 24 48 72 (Please call)
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Special Instructions: If total TPH exceeds 5,000 mg/kg, run deeper samples. If total BTEX exceeds 50 mg/kg or Benzene exceeds 10 mg/kg run deeper samples.

Relinquished by:	Date	Time	Relinquished by:	Date	Time
Relinquished by:	Date	Time	Relinquished by:	Date	Time
Relinquished by:	Date	Time	Relinquished by:	Date	Time