

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



Analytical Report

Prepared for:

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

Project: Gissler A 30

Project Number: 2

Location: Loco Hills, NM

Lab Order Number: 6E02006



NELAP/TCEQ # T104704156-13-3

Report Date: 05/11/16

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1 - 0-1'	6E02006-01	Soil	04/28/16 00:00	05-02-2016 13:40
SP1 - 1-1.5'	6E02006-02	Soil	04/28/16 00:00	05-02-2016 13:40
SP1 - 2-2.5'	6E02006-03	Soil	04/28/16 00:00	05-02-2016 13:40
SP1 - 3-3.5'	6E02006-04	Soil	04/28/16 00:00	05-02-2016 13:40
SP1 - 4-4.5'	6E02006-05	Soil	04/28/16 00:00	05-02-2016 13:40
SP2 - 0-1'	6E02006-06	Soil	04/28/16 00:00	05-02-2016 13:40
SP2 - 1-1.5'	6E02006-07	Soil	04/28/16 00:00	05-02-2016 13:40
SP2 - 2-2.5'	6E02006-08	Soil	04/28/16 00:00	05-02-2016 13:40
SP2 - 3-3.5'	6E02006-09	Soil	04/28/16 00:00	05-02-2016 13:40
SP2 - 4-4.5'	6E02006-10	Soil	04/28/16 00:00	05-02-2016 13:40
SP3 - 0-1'	6E02006-11	Soil	04/28/16 00:00	05-02-2016 13:40
SP3 - 1-1.5'	6E02006-12	Soil	04/28/16 00:00	05-02-2016 13:40
SP3 - 2-2.5'	6E02006-13	Soil	04/28/16 00:00	05-02-2016 13:40
SP3 - 3-3.5'	6E02006-14	Soil	04/28/16 00:00	05-02-2016 13:40
SP3 - 4-4.5'	6E02006-15	Soil	04/28/16 00:00	05-02-2016 13:40
SP4 - 0-1'	6E02006-16	Soil	04/28/16 00:00	05-02-2016 13:40
SP4 - 1-1.5'	6E02006-17	Soil	04/28/16 00:00	05-02-2016 13:40
SP4 - 2-2.5'	6E02006-18	Soil	04/28/16 00:00	05-02-2016 13:40
SP4 - 3-3.5'	6E02006-19	Soil	04/28/16 00:00	05-02-2016 13:40
SP4 - 4-4.5'	6E02006-20	Soil	04/28/16 00:00	05-02-2016 13:40

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP1 - 0-1'
6E02006-01 (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

Chloride	3140	27.2	mg/kg dry	25	P6E0605	05/05/16	05/06/16	EPA 300.0
% Moisture	8.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M
>C12-C28	74.3	27.2	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M
>C28-C35	ND	27.2	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M
Surrogate: 1-Chlorooctane		110 %	70-130		P6E0506	05/03/16	05/03/16	TPH 8015M
Surrogate: o-Terphenyl		129 %	70-130		P6E0506	05/03/16	05/03/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	74.3	27.2	mg/kg dry	1	[CALC]	05/03/16	05/03/16	calc

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP1 - 1-1.5'
6E02006-02 (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

Chloride	1000	5.15	mg/kg dry	5	P6E0605	05/05/16	05/06/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/03/16	05/03/16	calc	
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP1 - 2-2.5'
6E02006-03 (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

Chloride	295	1.02	mg/kg dry	1	P6E0605	05/05/16	05/06/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP1 - 3-3.5'
6E02006-04 (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

Chloride	205	1.02	mg/kg dry	1	P6E0605	05/05/16	05/06/16	EPA 300.0	
% Moisture	2.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP1 - 4-4.5'
6E02006-05 (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

Chloride	407	1.04	mg/kg dry	1	P6E0605	05/05/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP2 - 0-1'
6E02006-06 (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

Chloride	304	1.04	mg/kg dry	1	P6E0605	05/05/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	28.1	26.0	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M	
>C12-C28	241	26.0	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M	
>C28-C35	30.2	26.0	mg/kg dry	1	P6E0506	05/03/16	05/03/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		113 %	70-130		P6E0506	05/03/16	05/03/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		132 %	70-130		P6E0506	05/03/16	05/03/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	299	26.0	mg/kg dry	1	[CALC]	05/03/16	05/03/16	calc	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP2 - 1-1.5'
6E02006-07 (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

Chloride	597	1.03	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/03/16	05/03/16	calc	
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP2 - 2-2.5'
6E02006-08 (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

Chloride	169	1.04	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP2 - 3-3.5'
6E02006-09 (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

Chloride	528	1.04	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP2 - 4-4.5'
6E02006-10 (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

Chloride	448	1.04	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP3 - 0-1'
6E02006-11 (Soil)

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

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Toluene	ND	0.00238	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		119 %	75-125		P6E1001	05/09/16	05/09/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P6E1001	05/09/16	05/09/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.1	1.19	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	16.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P6E0506	05/03/16	05/04/16	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P6E0506	05/03/16	05/04/16	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P6E0506	05/03/16	05/04/16	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P6E0506	05/03/16	05/04/16	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P6E0506	05/03/16	05/04/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc	

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

Project: Gissler A 30
Project Number: 2
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Fax:

SP3 - 1-1.5'
6E02006-12 (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

Chloride	30.1	1.03	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc	
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP3 - 2-2.5'
6E02006-13 (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

Chloride	42.0	1.22	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	18.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	

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

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Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP3 - 3-3.5'
6E02006-14 (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

Chloride	81.0	1.22	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0
% Moisture	18.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP3 - 4-4.5'
6E02006-15 (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

Chloride	152	1.04	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0
% Moisture	4.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP4 - 0-1'
6E02006-16 (Soil)

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

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P6E1001	05/09/16	05/09/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P6E1001	05/09/16	05/09/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-125		P6E1001	05/09/16	05/09/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	133	1.04	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P6E0501	05/03/16	05/04/16	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P6E0501	05/03/16	05/04/16	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P6E0501	05/03/16	05/04/16	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P6E0501	05/03/16	05/04/16	TPH 8015M	
Surrogate: o-Terphenyl		143 %	70-130		P6E0501	05/03/16	05/04/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc	

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP4 - 1-1.5'
6E02006-17 (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

Chloride	2.76	1.01	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0
% Moisture	1.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP4 - 2-2.5'
6E02006-18 (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

Chloride	3.09	1.02	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0
% Moisture	2.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP4 - 3-3.5'
6E02006-19 (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

Chloride	4.96	1.03	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	3.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc	
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

SP4 - 4-4.5'
6E02006-20 (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

Chloride	5.99	1.09	mg/kg dry	1	P6E0606	05/06/16	05/06/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6E0508	05/05/16	05/05/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/03/16	05/04/16	calc	
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Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland TX, 79705

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6E1001 - General Preparation (GC)

Blank (P6E1001-BLK1)

Prepared & Analyzed: 05/09/16

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0569		"	0.0500		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.0597		"	0.0500		119	75-125			

LCS (P6E1001-BS1)

Prepared & Analyzed: 05/09/16

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.203	0.00200	"	0.200		101	70-130			
Xylene (o)	0.0976	0.00100	"	0.100		97.6	70-130			
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0500		123	75-125			
Surrogate: 4-Bromofluorobenzene	0.0596		"	0.0500		119	75-125			

LCS Dup (P6E1001-BSD1)

Prepared & Analyzed: 05/09/16

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	70-130	3.95	20	
Toluene	0.101	0.00200	"	0.100		101	70-130	0.446	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	2.14	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	70-130	2.53	20	
Xylene (o)	0.104	0.00100	"	0.100		104	70-130	5.99	20	
Surrogate: 4-Bromofluorobenzene	0.0614		"	0.0500		123	75-125			
Surrogate: 1,4-Difluorobenzene	0.0613		"	0.0500		123	75-125			

Matrix Spike (P6E1001-MS1)

Source: 6E02005-11

Prepared & Analyzed: 05/09/16

Benzene	0.101	0.00108	mg/kg dry	0.108	ND	93.6	80-120			
Toluene	0.0999	0.00215	"	0.108	ND	92.9	80-120			
Ethylbenzene	0.111	0.00108	"	0.108	ND	103	80-120			
Xylene (p/m)	0.200	0.00215	"	0.215	ND	93.0	80-120			
Xylene (o)	0.0984	0.00108	"	0.108	ND	91.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.0659		"	0.0538		123	75-125			
Surrogate: 4-Bromofluorobenzene	0.0632		"	0.0538		118	75-125			

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

Project: Gissler A 30
Project Number: 2
Project Manager: Johnny Titsworth

Fax:

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6E1001 - General Preparation (GC)

Matrix Spike Dup (P6E1001-MSD1)

Source: 6E02005-11

Prepared & Analyzed: 05/09/16

Benzene	0.0974	0.00108	mg/kg dry	0.108	ND	90.5	80-120	3.27	20	
Toluene	0.0980	0.00215	"	0.108	ND	91.1	80-120	1.98	20	
Ethylbenzene	0.110	0.00108	"	0.108	ND	102	80-120	0.935	20	
Xylene (p/m)	0.198	0.00215	"	0.215	ND	92.1	80-120	0.978	20	
Xylene (o)	0.0975	0.00108	"	0.108	ND	90.7	80-120	0.911	20	
Surrogate: 1,4-Difluorobenzene	0.0647		"	0.0538		120	75-125			
Surrogate: 4-Bromofluorobenzene	0.0656		"	0.0538		122	75-125			

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

Project: Gissler A 30
Project Number: 2
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
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Batch P6E0406 - * DEFAULT PREP *****

Blank (P6E0406-BLK1)		Prepared & Analyzed: 05/04/16								
% Moisture	ND	0.1	%							
Duplicate (P6E0406-DUP1)		Source: 6D28009-05		Prepared & Analyzed: 05/04/16						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P6E0406-DUP2)		Source: 6D28010-01		Prepared & Analyzed: 05/04/16						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P6E0406-DUP3)		Source: 6D28012-04		Prepared & Analyzed: 05/04/16						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P6E0406-DUP4)		Source: 6E02003-04		Prepared & Analyzed: 05/04/16						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P6E0406-DUP5)		Source: 6E02003-09		Prepared & Analyzed: 05/04/16						
% Moisture	ND	0.1	%		ND				20	
Duplicate (P6E0406-DUP6)		Source: 6E02003-13		Prepared & Analyzed: 05/04/16						
% Moisture	ND	0.1	%		ND				20	

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	

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

Project: Gissler A 30
Project Number: 2
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
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Batch P6E0508 - * DEFAULT PREP *****

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	

Batch P6E0605 - * DEFAULT PREP *****

Blank (P6E0605-BLK1)		Prepared: 05/05/16 Analyzed: 05/06/16								
Chloride	ND	1.00	mg/kg wet							
LCS (P6E0605-BS1)		Prepared: 05/05/16 Analyzed: 05/06/16								
Chloride	178	1.00	mg/kg wet	200		89.0	80-120			
LCS Dup (P6E0605-BSD1)		Prepared: 05/05/16 Analyzed: 05/06/16								
Chloride	169	1.00	mg/kg wet	200		84.5	80-120	5.19	20	
Duplicate (P6E0605-DUP1)		Source: 6E05001-01			Prepared: 05/05/16 Analyzed: 05/06/16					
Chloride	137	26.3	mg/kg dry		136			0.966	20	
Duplicate (P6E0605-DUP2)		Source: 6E05002-01			Prepared: 05/05/16 Analyzed: 05/06/16					
Chloride	65800	185	mg/kg dry		65800			0.0281	20	
Matrix Spike (P6E0605-MS1)		Source: 6E05001-01			Prepared: 05/05/16 Analyzed: 05/06/16					
Chloride	4320	26.3	mg/kg dry	4210	136	99.4	80-120			

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

Project: Gissler A 30
Project Number: 2
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
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Batch P6E0606 - * DEFAULT PREP *****

Blank (P6E0606-BLK1)

Prepared & Analyzed: 05/06/16

Chloride ND 1.00 mg/kg wet

LCS (P6E0606-BS1)

Prepared & Analyzed: 05/06/16

Chloride 160 1.00 mg/kg wet 200 80.0 80-120

LCS Dup (P6E0606-BSD1)

Prepared & Analyzed: 05/06/16

Chloride 170 1.00 mg/kg wet 200 85.1 80-120 6.21 20

Duplicate (P6E0606-DUP1)

Source: 6E02006-08

Prepared & Analyzed: 05/06/16

Chloride 158 1.04 mg/kg dry 169 6.83 20

Duplicate (P6E0606-DUP2)

Source: 6E02006-17

Prepared & Analyzed: 05/06/16

Chloride 2.75 1.01 mg/kg dry 2.76 0.367 20

Matrix Spike (P6E0606-MS1)

Source: 6E02006-07

Prepared & Analyzed: 05/06/16

Chloride 632 1.03 mg/kg dry 41.2 597 84.7 80-120

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

Project: Gissler A 30
Project Number: 2
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
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Batch P6E0501 - TX 1005

Blank (P6E0501-BLK1)

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	58.0		"	50.0		116	70-130			

LCS (P6E0501-BS1)

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	775	25.0	mg/kg wet	1000		77.5	75-125			
>C12-C28	904	25.0	"	1000		90.4	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	51.4		"	50.0		103	70-130			

LCS Dup (P6E0501-BSD1)

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	787	25.0	mg/kg wet	1000		78.7	75-125	1.62	20	
>C12-C28	932	25.0	"	1000		93.2	75-125	2.95	20	
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	52.7		"	50.0		105	70-130			

Matrix Spike (P6E0501-MS1)

Source: 6E02006-18

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	875	25.5	mg/kg dry	1020	22.0	83.6	75-125			
>C12-C28	1010	25.5	"	1020	ND	98.5	75-125			
Surrogate: 1-Chlorooctane	134		"	102		131	70-130			S-GC
Surrogate: o-Terphenyl	66.4		"	51.0		130	70-130			

Matrix Spike Dup (P6E0501-MSD1)

Source: 6E02006-18

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	907	25.5	mg/kg dry	1020	22.0	86.8	75-125	3.75	20	
>C12-C28	1060	25.5	"	1020	ND	104	75-125	5.42	20	
Surrogate: 1-Chlorooctane	143		"	122		117	70-130			
Surrogate: o-Terphenyl	69.5		"	61.2		113	70-130			

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

Project: Gissler A 30
Project Number: 2
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
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Batch P6E0506 - TX 1005

Blank (P6E0506-BLK1)

Prepared & Analyzed: 05/03/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			

LCS (P6E0506-BS1)

Prepared & Analyzed: 05/03/16

C6-C12	764	25.0	mg/kg wet	1000		76.4	75-125			
>C12-C28	891	25.0	"	1000		89.1	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	57.0		"	50.0		114	70-130			

LCS Dup (P6E0506-BSD1)

Prepared & Analyzed: 05/03/16

C6-C12	784	25.0	mg/kg wet	1000		78.4	75-125	2.64	20	
>C12-C28	931	25.0	"	1000		93.1	75-125	4.35	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			

Matrix Spike (P6E0506-MS1)

Source: 6E02006-12

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	855	25.8	mg/kg dry	1030	17.5	81.3	75-125			
>C12-C28	996	25.8	"	1030	ND	96.6	75-125			
Surrogate: 1-Chlorooctane	144		"	103		140	70-130			S-GC
Surrogate: o-Terphenyl	66.6		"	51.5		129	70-130			

Matrix Spike Dup (P6E0506-MSD1)

Source: 6E02006-12

Prepared: 05/03/16 Analyzed: 05/04/16

C6-C12	825	25.8	mg/kg dry	1030	17.5	78.4	75-125	3.65	20	
>C12-C28	965	25.8	"	1030	ND	93.6	75-125	3.18	20	
Surrogate: 1-Chlorooctane	141		"	103		137	70-130			S-GC
Surrogate: o-Terphenyl	64.2		"	51.5		125	70-130			

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

Project: Gissler A 30
Project Number: 2
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.

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:

5/11/2016

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.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Tlitsworth

Project Name: Gissler A 30

Company Name: Burnett Oil Company, Inc.

Project #: 2

Company Address: 24 Smith Road, Suite 100

Project Loc: Loco Hills, NM

City/State/Zip: Midland, TX 70705

PO #:

Telephone No: 432-425-2891

Fax No: 817-332-2438

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: *Kevin Freeman*

e-mail: tlitsworth@burnettoil.com
k.freeman@aspengrow.us
d.holt@aspengrow.us

(lab use only)

ORDER #: 10000000

LAB # (lab use only)

LAB # (lab use only)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250,ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

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

Date

Time

Relinquished by:

Date

Time

Date

Time

Relinquished by:

Date

Time

Date

Time

Laboratory Comments:
Sample Containers intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Sample Hand Delivered by Sampler/Client Rep? ☒
Temperature Upon Receipt ☒
by Courier? ☒
DHL ☒
FedEx ☒
cone Star ☒
NCE



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Tittsworth

Project Name: Gissler A 30

Company Name Burnett Oil Company, Inc.

Project #: 2

Company Address: 24 Smith Road, Suite 100

Project Loc: Loco Hills, NM


City/State/Zip: Midland, TX 70705

PO #:

Telephone No: 432-425-2891

Fax No: 817-332-2438

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: 

e-mail:

itisworth@burnetol.com
k.freeman@aspengrow.us
nesq@cox.net
d.holt@aspengrow.us

Preservation & # of Containers

Matrix

Analyze For:

Rush 24 48 72 (Please call)

Standard

[illegible]

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	Received by:	Date	Time	VOCs Free of headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier?	UPS DHL FedEx Lone Star	Temperature Upon Receipt °C Adjusted °C Factor
Relinquished by:								
Relinquished by:								
Relinquished by:								

pg 2