RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 10/12/2017
Tracking No.: 173704

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: GREYSTONE PETROLEUM, LLC **Operator No.:** 333762
Operator Address: 5555 E 71ST ST STE 8350 TULSA, OK 74136-0000

WELL INFORMATION

API No.: 42-003-01639 **County:** ANDREWS
Well No.: 1 **RRC District No.:** 08
Lease Name: TEXAS MMM **Field Name:** EMMA (DEVONIAN)
RRC Lease No.: 48899 **Field No.:** 28899166
Location: Section: 20, Block: 9, Survey: UL, Abstract: U256

Latitude: **Longitude:**
This well is located 10.9 **miles in a** SW **direction from** ANDREWS, **which is the nearest town in the county.**

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: Other/Recompletion
Well Type: Producing **Completion or Recompletion Date:** 05/01/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	04/03/2017	824831
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 02/12/1952 **Date of first production after rig released:** 05/01/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 02/17/2017 **Date plug back, deepening, recompletion, or drilling operation ended:** 05/01/2017
Number of producing wells on this lease in this field (reservoir) including this well: 1 **Distance to nearest well in lease & reservoir (ft.):** 1319.0
Total number of acres in lease: 162.18 **Elevation (ft.):** 3176 GL
Total depth TVD (ft.): 12600 **Total depth MD (ft.):**
Plug back depth TVD (ft.): 11200 **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? Yes **Rotation time within surface casing (hours):**
Is Cementing Affidavit (Form W-15) attached? No
Recompletion or reclass? Yes **Multiple completion?** No
Type(s) of electric or other log(s) run: Neutron logs
Electric Log Other Description:

Location of well, relative to nearest lease boundaries of lease on which this well is located: 700.0 **Feet from the** North **Line and** 659.0 **Feet from the** East **Line of the** TEXAS MMM **Lease.**

Off Lease : No

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

	Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
W2:	N/A			

PACKET	TRIPLE-N (PENN., UPPER)	16850	1 U	Producing

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination **Depth (ft.):** **Date:**

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 05/14/2017 **Production method:** Pumping

Number of hours tested: 24 **Choke size:**

Was swab used during this test? No **Oil produced prior to test:** 1122.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 72.00 **Gas (MCF):** 140

Gas - Oil Ratio: 1944 **Flowing Tubing Pressure:** 600.00

Water (BBLS): 211

CALCULATED 24-HOUR RATE

Oil (BBLS): 72.0 **Gas (MCF):** 140

Oil Gravity - API - 60.: 45.0 **Casing Pressure:** 50.00

Water (BBLS): 211

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17	370			??	350	462.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	4199			??	2769	3655.0	420	Temperature Survey
3	Conventional Production	7	8 3/4	12599			??	2120	2798.0	4215	Temperature Survey

LINER RECORD

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By

N/A

TUBING RECORD

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	10136	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 10514	10890.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 7000

Actual maximum pressure (PSIG) during hydraulic fracturing: 6923

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

1	Fracture	165,710# 30/50 PROP + 107,680# 20/40 PROP IN 15# XL GEL	10514	10890
2	Cement Squeeze	50 SACKS CLASS H CEMENT	9239	9271
3	Cement Squeeze	100 SACKS THIXOTROPIC CEMENT + 200 SACKS CLASS C CEMENT	8863	9028
4	Cast Iron Bridge Plug	CIBP + 2 SACKS CEMENT	11222	11228
5	Cement Squeeze	55 SACKS CLASS H CEMENT	9239	9271

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
YATES	Yes	3000.0		Yes	
SEVEN RIVERS	Yes	3210.0		Yes	
QUEEN	Yes	3823.0		Yes	
GRAYBURG	Yes	4134.0		Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4440.0		Yes	
HOLT	No			No	NOT PRESENT
GLORIETA	Yes	5415.0		Yes	
TUBB	Yes	6697.0		Yes	
CLEARFORK	Yes	5638.0		Yes	
PERMIAN DETRITAL	Yes	8662.0		Yes	
LEON	No			No	NOT PRESENT
WICHITA ALBANY	No			No	NOT PRESENT
SPRABERRY	No			No	NOT PRESENT
DEAN	No			No	NOT PRESENT
WOLFCAMP	Yes	8290.0		Yes	
CANYON	Yes	9037.0		Yes	
PENNSYLVANIAN	Yes	8903.0		Yes	
MCKEE	Yes	12190.0		Yes	
STRAWN	Yes	9219.0		Yes	
FUSSELMAN	Yes	11603.0		Yes	
DEVONIAN	Yes	10493.0		Yes	
SILURIAN	Yes	10910.0		Yes	
ELLENBURGER	Yes	12480.0		Yes	

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? Yes

Is the completion being downhole commingled (SWR 10)? No

REMARKS

TUBING TESTED TO 7,000 PSI, FRAC DOWN TUBING AND BELOW A PACKER.

RRC REMARKS

PUBLIC COMMENTS:

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

POTENTIAL TEST DATA:

NO INJECTION GAS

OPERATOR'S CERTIFICATION

Printed Name: Fred Laeger **Title:** Completions Manager

Telephone No.: (918) 520-8148 **Date Certified:** 08/29/2017

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form W-15
Rev. 08/2014

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name:	GREYSTONE PETROLEUM LLC.	Operator P-5 No.:	333762
Cementer Name:	TRANS TEX CEMENTING SERVICES, LLC	Cementer P-5 No.:	864412

WELL INFORMATION

District No.:	8	County:	ANDREWS		
Well No.:	#1	API No.:	42-003-01639	Drilling Permit No.:	
Lease Name:	MMM	Lease No.:	1		
Field Name:	Emma (Devonian)	Field No.:	28899166		

I. CASING CEMENTING DATA

Type of Casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.):	
		Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement sh ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV t ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING DATA FOR EACH PLUG AND ADDITIONAL INFORMATION							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	2/25/2017	2/26/2017	2/26/2017				
Size of hole or pipe (in.)	7'	7'	7'				
Depth to bottom of tubing or drill pipe (ft.)	9135'	8745	8745				
Cement retainer setting depth (ft.)	9135'	8745	8745				
CIBP setting depth (ft.)	9385	9385	9385				
Amount of cement on top of CIBP (ft.)	10	10	10				
Sacks of cement used	50	100	200				
Slurry volume pumped (cu. ft.)	59	155	266				
Calculated top of plug (ft.)	9135	9135	9135				
Measured top of plug, if tagged (ft.)	NA	8732	8732				
Slurry weight (lbs/gal)	15.6	14.4	14.8				
Class/type of cement	"H"	THIXO	"C"				
Perforate and squeeze (YES/NO)	NO	NO	YES				

REMARKS
"H" NEAT
THIXOTROPIC 10%GYP+1%CACL
"C" NEAT

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

J.GALVAN CEMENTER	TRANS TEX CEMENTING	J. Galvan
Name and title of cementer's representative	Cementing Company	Signature

5019 BASIN ST	MIDLAND, TX 79703	432-694-4900	2/26/2017
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Fred Laeger	Completions Manager	Fred Laeger
Typed or printed name of operator's representative	Title	Signature

5555 East 71st Street, Bldg 8, Suite 8350	Tulsa, OK 74136	918-901-9306	2017-08-10
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System

(https://webapps.rrc.state.tx.us/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 787112967).

C. Surface casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

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Form W-15
Rev. 08/2014

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name:	GREYSTONE PETROLEUM LLC.	Operator P-5 No.:	333762
Cementer Name:	TRANS TEX CEMENTING SERVICES, LLC	Cementer P-5 No.:	864412

WELL INFORMATION

District No.:	8	County:	ANDREWS
Well No.:	#1	API No.: 42-003-01639	Drilling Permit No.:
Lease Name:	MMM	Lease No.:	1
Field Name:	Emma (Devonian)	Field No.:	28899166

I. CASING CEMENTING DATA

Type of Casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 0	Depth of drilled hole (ft.): 0	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 0	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.):	Top of liner (ft.): / Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement sh ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

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Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	3/7/2017						
Size of hole or pipe (in.)	6.094						
Depth to bottom of tubing or drill pipe (ft.)	9272						
Cement retainer setting depth (ft.)	NA						
CIBP setting depth (ft.)	NA						
Amount of cement on top of CIBP (ft.)	NA						
Sacks of cement used	55						
Slurry volume pumped (cu. ft.)	65						
Calculated top of plug (ft.)	9037						
Measured top of plug, if tagged (ft.)	8984						
Slurry weight (lbs/gal)	15.6						
Class/type of cement	"H"						
Perforate and squeeze (YES/NO)	NO						

REMARKS
CLASS "H" .5%CFR-1, + .2%CR-1
0

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Jose L Reynoso — Name and title of cementer's representative

TRANS TEX CEMENTING — Cementing Company

Signature

5019 BASIN ST — Address

MIDLAND, TX 79703 — City, State, Zip Code

432-694-4900 — Tel: Area Code Number

3/7/2017 — Date: mo. day yr.

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Fred Laeger — Typed or printed name of operator's representative

Completions Manager — Title

Fred Laeger — Signature

5555 East 71st Street, Bldg 8, Suite 8350 — Address

Tulsa, OK 74136 — City, State, Zip Code

918-901-9306 — Tel: Area Code Number

2017-08-10 — Date: mo. day yr.

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E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

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CEMENTING REPORT

Form W-15
Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: Greystone Petroleum, LLC	**Operator P-5 No.:** 333762
Cementer Name:	**Cementer P-5 No.:**

WELL INFORMATION

District No.: 8	**County:** Andrews	
Well No.: 1	**API No.:** 42-003-01639	**Drilling Permit No.:** 824831
Lease Name: Texas MMM	**Lease No.:**	
Field Name: Emma (Devonian)	**Field No.:** 28899166	

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.):	**Depth of drilled hole (ft.):**	**Est. % wash-out or hole enlargement:**
Size of casing in O.D. (in.):	**Casing weight (lbs/ft) and grade:**	**No. of centralizers used:**
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.	**Setting depth shoe (ft.):**	**Top of liner (ft.):** / **Setting depth liner (ft.):**
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):**	**Cementing date:**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA

Type of casing: ☒ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.):	**Depth of drilled hole (ft.):**	**Est. % wash-out or hole enlargement:**
Size of casing in O.D. (in.):	**Casing weight (lbs/ft) and grade:**	**No. of centralizers used:**
Tapered string drilled hole size (in.) Upper: Lower:	**Tapered string depth of drilled hole (ft.)** Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	**Tapered string casing weight(lbs/ft) and grade** Upper: Lower:	**Tapered string no. of centralizers used** Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		**Setting depth shoe (ft.):**
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):**	**Cementing date:**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.):	**Depth of drilled hole (ft.):**	**Est. % wash-out or hole enlargement:**
Size of casing in O.D. (in.):	**Casing weight (lbs/ft) and grade:**	**No. of centralizers used:**
Tapered string drilled hole size (in.) Upper: Lower:	**Tapered string depth of drilled hole (ft.)** Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	**Tapered string casing weight(lbs/ft) and grade** Upper: Lower:	**Tapered string no. of centralizers used** Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		**Setting depth tool (ft.):**
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):**	**Cementing date:**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	3/17/17						
Size of hole or pipe (in.)	6.094						
Depth to bottom of tubing or drill pipe (ft.)	NA						
Cement retainer setting depth (ft.)	NA						
CIBP setting depth (ft.)	11228						
Amount of cement on top of CIBP (ft.)	6						
Sacks of cement used	2						
Slurry volume pumped (cu. ft.)	3						
Calculated top of plug (ft.)	11222						
Measured top of plug, if tagged (ft.)	NA						
Slurry weight (lbs/gal)	11222						
Class/type of cement	C						
Perforate and squeeze (YES/NO)	NO						

REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Gray Parker	GR Energy Services	Gary Parker
Name and title of cementer's representative	Cementing Company	Signature

8702 Weir 130	Midland	TX	79706	432-242-4088	3/17/17
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Fred Laeger	Completions Manager	Fred Laeger
Typed or printed name of operator's representative	Title	Signature

5555 East 71st St., Bldg 8, St 8350	Tulsa, OK 74136	918-901-9306	06-26-2017
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (https://webapps.rrc.texas.gov/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing **and** Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 173704

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:
- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:
- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:
- with the appropriate Commission district office

Filling out Form L-1:
- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:
- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

Operator Name: GREYSTONE PETROLEUM, LLC	District No. 08	Completion Date: 05/01/2017
Field Name EMMA (DEVONIAN)	Drilling Permit No. 824831	
Lease Name TEXAS MMM	Lease/ID No. 48899	Well No. 1
County ANDREWS	API No. **42-** 003-01639	

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN. (Select one)

☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.

☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).

☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).

☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

Check here if attached log is being submitted after being held confidential. ☐

☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.

☐ (c) Form W-4, Application for Multiple Completion:

Lease or ID No(s). _____

Well No(s). _____

Fred Laeger Signature	Completions Manager Title
GREYSTONE PETROLEUM, LLC Name (print)	(918) 520-8148 Phone 08/29/2017 Date

-FOR RAILROAD COMMISSION USE ONLY-

GR Energy Services

Compensted Neutron Gamma Ray CCL Log

Company Greystone
Well Texas M M M-1
Field
County Andrews State Texas

Location: API # :

SEC TWP RGE

Other Services
plg/cem

Elevation
K.B.
D.F.
G.L.

Permanent Datum
Log Measured From
Drilling Measured From

Elevation
Above Perm. Datum

Date	Mar-17-2017		
Run Number	One		
Depth Driller			
Depth Logger	11225'		
Bottom Logged Interval	11223'		
Top Log Interval	Surface		
Open Hole Size			
Type Fluid	Water		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready	On Arrival		
Time Logger on Bottom	See Log		
Equipment Number	WL #19		
Location			
Recorded By	Gray Parker		
Witnessed By	Troy		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"			
Liner				

<<< Fold Here >>>

Comments

********** Thank You For Using GR Energy Services **********
Log Correlated To Ground Level

Main Pass 5" = 100'
0 PSI

GR Energy Services

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM H-9
12/12/77

CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36

FILE WITH DISTRICT OFFICE IN TRIPLICATE

1. Operator	2. Operator Number (See Instruction 13)	3. RRC Dist.
Greystone Petroleum LLC	333762	8

4. Street or P. O. Box No.	5. City	6. State	7. Zip Code
5555 East 71st Street, Suite 835	Tulsa	OK	74136

8. Name of Lease, Facility or Operation	9. Field or Area Name	10. County
Texas MMM	Emma (Devonian)	Andrews

11. General Operation Type – Circle One:

A - Oil Field Production B - Gas Field Production
C - Pipeline or Gathering Sys. D - Gasoline Plant
E - Drilling or Workover F - Sweetening Unit
G - Combination (explain) H - Other (explain)

Other Explanation

12. RRC ID# of Operation(s) to be Covered by This Certificate	Type ID Code (See Instruction 12)	Indicate if Filing for Storage Facility Only YES	NO
824831	5	✓	

13. Hydrogen Sulfide Concentration 0 PPM

14. Maximum Escape Volume 130 MCF/Day

15. 100 PPM Radius of Exposure (ROE) 0 Ft.

16. 500 PPM Radius of Exposure (ROE) 0 Ft.

17. Operation is Existing ☐ New ☑

18. Modification Resulting in Certificate Change Yes ☐ No ☑

19. Workover or Drilling Well with 100 PPM ROE Greater than 3000 feet on Rule 36 Certified Well/Lease Yes ☐ No ☑

20. Previous Certificate Number if Available (For Amended Certificates) _____

21. The 100 PPM ROE includes any part of a public area except a public road Yes ☐ No ☑

22. The 500 PPM ROE includes any part of a public road Yes ☐ No ☑

23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14) Yes ☐ No ☑

24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 __ __/ __ __/ 19 __ __ (Mo / Day / Year)

Depth of Compliance for Drilling Operation _____ Ft. from Surface

25. Contingency Plan Location of Plan (See Instruction 15) Has been prepared Yes ☐ No ☑

26. Location of data used to prepare this certificate (See Instruction 15)

5555 East 71st, Suite 8350
Tulsa, OK 74136

CERTIFICATE

I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Representative of Company	Title	Phone No.	Date
Fred Leyden	Completion Manager	(918) 901-9306	05/25/17

RAILROAD COMMISSION USE ONLY

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: _____ DATE: _____

REMARKS:

CERTIFICATION NUMBER: _____

Clear Form

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.texas.gov

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 173704

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
EMMA (DEVONIAN)	TEXAS MMM			
3. Current operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no.	5. Oil Lse/Gas ID no	6. County	7. RRC district
GREYSTONE PETROLEUM, LLC	333762	48899	ANDREWS	08
8. Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
5555 E 71ST ST STE 8350 TULSA, OK 74136	1			
	10. Classification ☒ Oil ☐ Gas ☐ Other *(see instruction A)*		11. Effective Date	05/01/2017

12. Purpose of Filing. (Complete section a or b below.) *(See instructions B and G)*

a. Change of: ☐ operator ☐ oil or condensate gatherer ☐ gas gatherer ☐ gas purchaser ☐ gas purchaser system code
☐ field name from _____
☐ lease name from _____

OR

b. New RRC Number for: ☒ oil lease ☐ gas well ☐ other well (specify) _____ **Due to:** ☒ new completion or recompletion ☐ reclass oil to gas ☐ reclass gas to oil ☐ consolidation, unitization, or subdivision (oil lease only)

13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). *(See instruction G).*

Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left *(Attach an additional sheet in same format if more space is needed)*	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	DCP OPERATING COMPANY, LP(195959)	0001	100.0	

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G).*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take
BRIDGER TRANSPORTATION, LLC(091157)	100.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 10/12/2017

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.

Name of Previous Operator

Signature

Name (print)

☐ **Authorized Employee of previous operator**

☐ **Authorized agent of previous operator** *(see instruction G)*

Title

Date

Phone with area code

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

GREYSTONE PETROLEUM, LLC
Name (print)

Fred Laeger
Signature

Completions Manager
Title

☒ **Authorized Employee of current operator**

☐ **Authorized agent of current operator** *(see instruction G)*

fred.laeger@greystone.bz
E-mail Address (optional)

08/29/2017
Date

(918) 520-8148
Phone with area code

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form P-16
Page 1
Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name: Greystone Petroleum, LLC	**Operator P-5 No.:** 333762
Operator Address: 5555 East 71st Street, Building 8, Suite 8350, Tulsa, OK 74136	

SECTION II. WELL INFORMATION

District No.: 8	**County:** Andrews	**Purpose of Filing:**
Well No.: 1	**API No.:** 003-01639	☐ Drilling Permit Application (Form W-1)
Total Lease Acres: 162.18	**Drilling Permit No.:** 824831	■ Completion Report (Form G-1/W-2)
Lease Name: Texas MMM	**Lease No.:**	
Field Name: Emma (Devonian)	**Field No.:** 28899166	

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
824831	1	V	Texas MMM	003-01639	40	N	

Total Well Count >	1	**< A. Total Assigned Horiz. Acreage**	40 **< C. Total Assigned Acreage**
		< Total Remaining Horiz. Acreage	122.18 **< Total Remaining Acreage**
		< B. Total Assigned Vert./Dir. Acreage	
		< Total Remaining Vert./Dir. Acreage	

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

Attach Additional Pages As Needed. ■ **No additional pages** ☐ **Additional Pages:** _____ **(No. of additional pages)**

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature	Name and title (type or print)	Email (include email address *only* if you affirmatively consent to its public release)
Fred Laeger	Fred Laeger - Completions Manager	

Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
5555 E. 71st St., Bldg 8, Ste. 8350	Tulsa	OK	74136	918	901-9306	08-02-2017

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form P-16
Page 2
Rev. 01/2016

Acreage Designation

Filer is the owner or lessee of all or an undivided portion of the minerals under each tract listed below and has the legal right to drill on each tract traversed by the well that will have perforations or other take points open in the interval of the applied-for field(s). All tracts listed will actually be traversed by the wellbore or the filer has pooling authority or other contractual authority, such as a production sharing agreement, authorizing inclusion of the non-drillsite tract in the acreage assigned to the well.

SECTION V. LISTING OF ALL TRACTS CONTRIBUTING ACREAGE TO AN RRC DESIGNATED DRILLSITE DEVELOPMENTAL UNIT THAT IS NOT A SINGLE LEASE, POOLED UNIT, OR GROUP OF TRACTS UNITIZED BY CONTRACT FOR PURPOSES OF SECONDARY RECOVERY

RRC ID No. or Lease No.	Lease Name	Beginning Lease Acreage	Allocated Lease Acreage	Ending Lease Acreage	Operator Name and Operator No. (if different from filing operator)
		Total Allocated Acreage >			< Total Lease Acreage

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION VI. LISTING OF ALL WELLS IN THE APPLIED FOR FIELD ON THE SAME ACREAGE AS THE LEASE OR POOLED UNIT DESIGNATED FOR THE TRACTS LISTED IN SECTION V BY FILER

RRC ID No. or Lease No.	Well No.	Acres Assigned	SWR 38 Except. (Y/N)	H-Horizontal D-Directional V-Vertical	RRC ID No. or Lease No.	Well No.	Acres Assigned	SWR 38 Except. (Y/N)	H-Horizontal D-Directional V-Vertical
A. Total Wells & Acreage >					**A.** Total Wells & Acreage >				
B. Total Assigned Horiz. Acreage >					**B.** Total Assigned Horiz. Acreage >				
C. Total Assigned Vert./Dir. Acreage >					**C.** Total Assigned Vert./Dir. Acreage >				

SECTION VII. REMARKS

GREYSTONE PETROLEUM, LLC

LEASE NAME & WELL NO.:

TEXAS MMM #1

TOPOGRAPHY & VEGETATION:

NATURAL MESQUITE PASTURE

NEAREST TOWN IN COUNTY:

±10.63 MILES SOUTHWEST OF ANDREWS, TEXAS

DESCRIPTION:

SECTION 20, BLOCK 9, UNIVERSITY LANDS SURVEY

ANDREWS COUNTY, TEXAS

SPECIAL NOTES:

Original Document Size: 8.5"x14"
All Coordinates are in NAD 27 TX-NC Zone unless otherwise noted.

CERTIFICATION:

This well location shown on this permit plat was surveyed on the ground under my direct supervision. This plat is for Texas Railroad Commission permit purpose only and should not be considered a boundary survey.

STATE OF TEXAS REGISTERED WILLIAM J. KEATING 5041 PROFESSIONAL LAND SURVEYOR

Texas Reg. No. 5041

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1663 OR (800) 767-1663 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM
Texas FIRM Registration NO. 10042500

LO_TEXAS_MMM_1

Surface Hole Location:

1979' FSL & 659' FEL
SHL Ground Elevation: 3180'
NAD 27 TX-NC ZONE
X = 422137
Y = 222114
LAT.: N 32.1718722
LONG.: W 102.6010987
NAD 83 TX-NC ZONE
X = 699673
Y = 6770283
LAT.: N 32.1719822
LONG.: W 102.6015331

LEGEND

- Section Line
- Block Line
- Abstract Line
- Tract Line
- Lease Road
- County Road
- Unit/Lease Boundary
- Found Monument
- Set 1/2" Rebar w/cap
- Calculated Corner

Scale: 1"=1000' | Surveyed: 03/28/17

COGO: 726-44138

Revision: ( ) / /

Drawn By: MR; 03/29/2017