



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 07/31/2017
Tracking No.: 174528

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

OPERATOR INFORMATION

Operator Name: XTO ENERGY INC. Operator No.: 945936
Operator Address: ATTN DEEANN KEMP 500 WEST ILLINOIS STE 100 MIDLAND, TX 79701-0000

WELL INFORMATION

API No.: 42-003-47445 County: ANDREWS
Well No.: 7324 RRC District No.: 08
Lease Name: FULLERTON CLEARFORK UNIT Field Name: FULLERTON
RRC Lease No.: 01770 Field No.: 33230001
Location: Section: 5, Block: 13, Survey: UL, Abstract:

Latitude: 32.40908 Longitude: -102.80506
This well is located 16.4 miles in a NORTHWEST
direction from ANDREWS,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 05/15/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	12/28/2016	821058
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 04/04/2017	Date of first production after rig released: 05/15/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 04/04/2017	Date plug back, deepening, recompletion, or drilling operation ended: 04/10/2017
Number of producing wells on this lease in this field (reservoir) including this well: 735	Distance to nearest well in lease & reservoir (ft.): 541.0
Total number of acres in lease: 29541.59	Elevation (ft.): 3302 GR
Total depth TVD (ft.): 7332	Total depth MD (ft.):
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 86.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Other	Multiple completion? No
Electric Log Other Description: RCBL/GR/CCL	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 11916.0 Feet from the South Line and 15122.0 Feet from the West Line of the FULLERTON CLEARFORK UNIT Lease.	

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

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

PACKET:	N/A
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:	
GAU Groundwater Protection Determination	Depth (ft.): 1575.0 Date: 12/09/2016
SWR 13 Exception	Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test: 06/03/2017	Production method: Pumping
Number of hours tested: 24	Choke size:
Was swab used during this test? No	Oil produced prior to test: 0.00
PRODUCTION DURING TEST PERIOD:	
Oil (BBLS): 26.00	Gas (MCF): 39
Gas - Oil Ratio: 1500	Flowing Tubing Pressure:
Water (BBLS): 412	
CALCULATED 24-HOUR RATE	
Oil (BBLS): 26.0	Gas (MCF): 39
Oil Gravity - API - 60.: 41.5	Casing Pressure:
Water (BBLS): 412	

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage 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	8 5/8	11	1721			PREM PLUS C	640	1175.0	0	Circulated to Surface
2	Conventional Production	5 1/2	7 7/8	7332				1450	3006.0	0	Circulated to Surface

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.)
1	2 7/8	6963	
			Packer Depth (ft.)/Type
			/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L 6612	6742.0
2	No	L 6783	6952.0
3	No	L 7044	7176.0

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:		4800	
Actual maximum pressure (PSIG) during hydraulic fracturing:		4517	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes	
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	FRACFOCUS ON FILE	6612 7176

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SANTA ROSA BASE	Yes	1460.0		Yes	
YATES	Yes	2838.0		Yes	
SEVEN RIVERS	Yes	3088.0		Yes	
QUEEN	Yes	3679.0		Yes	
GRAYBURG	Yes	4035.0		Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4355.0		Yes	
HOLT	No			No	NOT ENCOUNTERED
GLORIETA	Yes	5475.0		Yes	
TUBB	Yes	6455.0		Yes	
CLEARFORK	Yes	6560.0		Yes	
PERMIAN DETRITAL	No			No	NOT ENCOUNTERED
LEON	No			No	NOT ENCOUNTERED
WICHITA ALBANY	Yes	6987.0		Yes	
SPRABERRY	No			No	DEEPER THAN TD
DEAN	No			No	DEEPER THAN TD
WOLFCAMP	No			No	DEEPER THAN TD
CANYON	No			No	DEEPER THAN TD
PENNSYLVANIAN	No			No	DEEPER THAN TD
MCKEE	No			No	DEEPER THAN TD
STRAWN	No			No	DEEPER THAN TD
FUSSELMAN	No			No	DEEPER THAN TD
DEVONIAN	No			No	DEEPER THAN TD
SILURIAN	No			No	DEEPER THAN TD
ELLENBURGER	No			No	DEEPER THAN TD
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
INITIAL POTENTIAL/NEW VERTICAL WELL COMPLETION

RRC REMARKS
<p>PUBLIC COMMENTS:</p>
<p>CASING RECORD :</p>
<p>TUBING RECORD:</p>
<p>PRODUCING/INJECTION/DISPOSAL INTERVAL :</p>
<p>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</p>
<p>POTENTIAL TEST DATA:</p>

OPERATOR'S CERTIFICATION	
<p>Printed Name: Tessa Fitzhugh</p>	<p>Title: Regulatory Analyst</p>
<p>Telephone No.: (432) 620-4336</p>	<p>Date Certified: 07/31/2017</p>

**RAILROAD COMMISSION OF TEXAS**

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: KTO ENERGY INC		Operator P-5 No.: 946936			
Cement Name: HALLIBURTON ENERGY SERVICES		Cement P-5 No.: 347151			

WELL INFORMATION					
District No.: 058		County: ANDREWS			
Well No.: 7324		API No.: 42-003-47445		Drilling Permit No.:	
Lease Name: FULLERTON CLEARFORK UNIT		Lease No.: 01770			
Field Name: Fullerton		Field No.: 33230001			

I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 11		Depth of drilled hole (ft.): 1721		Est. % wash-out or hole enlargement: 320	
Size of casing in O.D. (in.): 8.518		Casing weight (lbs/ft) and grade: 24		No. of centralizers used: 13	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.): 1721		Top of liner (ft.):
Hrs. waiting on cement before drill-out: 13.50		Calculated top of cement (ft.):		Cementing date: 4/5/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	410	PREMIUM PLUS/POZMIX	REMARKS	865	3401
2	230	PREMIUM PLUS	15N CALCIUM OLEFIDE 225 LBW POLY E FLAKE	910	1158
3					
Total	640			1175	4559

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)			
Upper:		Upper:		Lower:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Upper:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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	0			0	0

III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)			
Upper:		Upper:		Lower:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Upper:		Upper:	
Lower:		Lower:		Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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	0			0	0

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

REMARKS

1ST: 6% BENTONITE, 1% ECONOLITE, 5 LBM SALT, 3 LBM KOL-SEAL, .125 LBM POLY E FLAKE. CIRCULATED 107 BBLs (285 SACKS) OF CEMENT, TO SURFACE. SO 903952130.

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.

FELICIANO VALVERDE RIVERA SS II

Halliburton

Name and title of cementer's representative
1301 W. Webb St.

Cementing Company
Brownfield, Tx, 79316

Fernando R. Valverde
Signature

575-392-0700

4/5/2017

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.

Tessa Fitzhugh
Typed or printed name of operator's representative

Reg. Analyst
Title

Tessa Fitzhugh
Signature

500 W. Illinois St. 100
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 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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&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 calliper 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.

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

CEMENTING REPORT

Cement: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: KTO ENERGY INC			Operator P-5 No.: 946930		
Cementer Name: HALLIBURTON ENERGY SERVICES			Cementer P-5 No.: 347151		
WELL INFORMATION					
District No.: 08			County: ANDREWS		
Well No.: 7324			API No.: 42003-47445 Drilling Permit No.:		
Lease Name: FULLERTON CLEARFORK UNIT			Lease No.: 01770		
Field Name: Fullerton			Field No.: 33230001		
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input checked="" type="checkbox"/> Production					
Drilled hole size (in.): 7 7/8		Depth of drilled hole (ft.): 7332		Est. % wash-out or hole enlargement: 350	
Size of casing I.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 17		No. of centralizers used: 53	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 7332	
Top of liner (ft.):		Setting depth liner (ft.):			
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date: 04-10-2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	650	C	33 DAPI, 30000 LBS 11.5 SACKS, 11.5 PCKT	1913	11051
2	800	C	30000 LBS 11.5 SACKS, 11.5 PCKT	1093	6319
3					
Total	1450			3006	17370
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing I.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing I.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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	0			0	0
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing I.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing I.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> 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	0			0	0

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

REMARKS
SO# 0903951950 CIRCULATED 169 BBLs 322 SACKS

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.

STEVEN TOMS-SERVICE SUPERVISOR II

Halliburton

Name and title of cementer's representative
1301 W. Webb St.

Cementing Company
Brownfield, Tx, 79316

575-392-0700

04-10-2017

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.

Typed or printed name of operator's representative

Title

Signature

300 W. Illinois, Ste 100 Midland TX 79701

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.

- 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.
- 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 78711-2967).
- 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/readtacSext.TacPage?sl=RR&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.
- 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.
- 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.
- 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.
- 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**

Form W-12
(1-1-71)

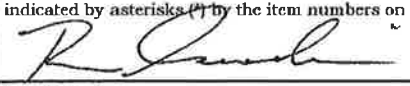
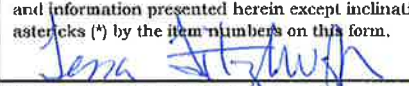
INCLINATION REPORT (One Copy Must Be Filed With Each Completion Report)		6. RRC District <u>08</u>
1. FIELD NAME (as per RRC Records or Wildcat) <u>Fullerton</u>	2. LEASE NAME <u>Fullerton Clearfork Unit</u>	7. RRC Lease Number (Oil completions only) <u>01770</u>
3. OPERATOR XTO Energy, Inc		8. Well Number 7324
4. ADDRESS <u>500 W. Illinois St 100 Midland TX 79701</u>		9. RRC Identification Number (Gas completions only)
5. LOCATION (Section, Block and Survey) <u>Sec 5, B1K 13, U1</u>		
		10. County Andrews

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per (Hundred Feet (Sine of Angle X 100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
222	2.22	0.30	0.52	1.16	1.16
399	1.77	0.50	0.87	1.54	2.71
1171	7.72	0.50	0.87	6.74	9.44
1644	4.73	0.60	1.05	4.95	14.40
1707	0.63	0.70	1.22	0.77	15.17
1794	0.87	0.40	0.70	0.61	15.77
1921	1.27	0.10	0.17	0.22	16.00
2079	1.58	0.40	0.70	1.10	17.10
2236	1.57	1.10	1.92	3.01	20.11
2329	0.93	1.40	2.44	2.27	22.38
2424	0.95	1.30	2.27	2.16	24.54
2550	1.26	1.30	2.27	2.86	27.40
2654	1.04	1.80	3.14	3.27	30.67
2771	1.17	1.60	2.79	3.27	33.93
2897	1.26	1.20	2.09	2.64	36.57
3149	2.52	1.00	1.75	4.40	40.97

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☒ yes ☐ no
18. Accumulative total displacement of well bore at total depth of 7,289.00 feet = 76.05 feet.
- *19. Inclination measurements were made in ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line 11916 feet.
21. Minimum distance to lease line as prescribed by field rules 330 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? no
- (If the answer to above question is "yes," attach written explanation of the circumstances.)

<p>INCLINATION DATA CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both side of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p></p> <p>Signature of Authorized Representative RON SCANDOLARI, VP CONTRACT DRILLING Name of Person and Title (type or print) BASIC ENERGY SERVICES Name of Company Telephone: <u>432</u> - <u>563-2106</u> Area Code</p>	<p>OPERATOR CERTIFICATION</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data is presented on both sides of this forms are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p></p> <p>Signature of Authorized Representative <u>Jesse Fitzhugh, Key Analyst</u> Name of Person and Title (type or print) <u>XTO Energy, Inc.</u> Operator Telephone: <u>432</u> - <u>620-43310</u> Area Code</p>
---	---

Railroad Commission Use Only:

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

[illegible]

If additional space is needed, attach separate sheet and check here. ☐

REMARKS:

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re - entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled; by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

Tracking No.: 174528

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: XTO ENERGY INC.	District No. 08	Completion Date: 05/15/2017
Field Name FULLERTON	Drilling Permit No. 821058	
Lease Name FULLERTON CLEARFORK UNIT	Lease/ID No. 01770	Well No. 7324
County ANDREWS	API No. 42- 003-47445	

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). _____

Tessa Fitzhugh

Signature

XTO ENERGY INC.

Name (print)

Regulatory Analyst

Title

(432) 620-4336

Phone

06/05/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



RADIAL CEMENT BOND GAMMA RAY/CCL LOG

Company XTO Energy Inc. Well Fullerton Clearfork Unit No. 7324 Field Fullerton County Andrews State Texas	Company XTO Energy Inc.		
	Well Fullerton Clearfork Unit No. 7324		
	Field Fullerton		
	County Andrews State Texas		
Location:		API #: 42-003-47445	Other Services Crane Gyro
1314' FSL & 548' FWL Section 5, Block 13 University Land Survey			
SEC TWP RGE			Elevation
Permanent Datum		Ground Level	Elevation 3302'
Log Measured From		13 FT KB	KB 3315'
Drilling Measured From		Kelly Bushing	DF 3314'
			GL 3302'

Date	April 12, 2017
Run Number	One
Depth Driller	7324'
Depth Logger	7241'
Bottom Logged Interval	7240'
Top Log Interval	Surface
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	N/A
Max. Recorded Temp.	127 degF
Estimated Cement Top	Circ
Time Well Ready	ROA
Time Logger on Bottom	9:45 AM
Equipment Number	40
Location	Snyder, Texas
Recorded By	Chris Nicholson
Witnessed By	Damaris Taylor

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	22.00#/J-55	Surface	1721'
Prot. String				
Production String	5.50"	17.00#/J-55	Surface	7324'
Liner				
Short Joint			5488	5512

<<< Fold Here >>>

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36

FORM H-9

12/12/77

FILE WITH
DISTRICT OFFICE
IN TRIPLICATE

1. Operator Exxon Mobil Corporation		2. Operator Number (See Instruction 13) 257128		3. RRC Dist. 08	
4. Street or P.O. Box No. P.O. Box 4358		5. City Houston		6. State TX	
7. Zip Code 77210		8. Name of Lease, Facility or Operation Robertson Clearfork Unit		9. Field or Area Name Fullerton	
10. County Andrews		11. General Operation Type - Circle One: <input checked="" type="radio"/> A - Oil Field Production <input type="radio"/> B - Gas Field Production <input type="radio"/> C - Pipeline or Gathering Sys. <input type="radio"/> D - Gasoline Plant <input type="radio"/> E - Drilling or Workover <input type="radio"/> F - Sweetening Unit <input type="radio"/> G - Combination (explain) <input type="radio"/> H - Other (explain)			
12. RRC ID# of Operation(s) to be Covered by This Certificate 01770		Type ID Code (See Instruction 12) 1		Indicate if Filing for Storage Facility Only YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
13. Hydrogen Sulfide Concentration 11,267 PPM		14. Maximum Escape Volume 300 MCF/Day			
15. 100 PPM Radius of Exposure (ROE) 216 Ft.		16. 500 PPM Radius of Exposure (ROE) 99 Ft.			
17. Operation is Existing <input checked="" type="checkbox"/> New <input type="checkbox"/>		18. Modification Resulting in Certificate Change Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
19. Workover or Drilling Well with 100 PPM ROE Greater than 3000' feet on Rule 36 Certified Well/Lease		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
20. Previous Certificate Number if Available (For Amended Certificates) 003476					
21. The 100 PPM ROE includes any part of a public area except a public road		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
22. The 500 PPM ROE includes any part of a public road		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14)		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 03/02/2009 Mo Day Year					
25. Contingency Plan Location of Plan (See Instruction 15) No Contingency Plan required.		RECEIVED RRC OF TEXAS		Has been prepared Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
26. Location of data used to prepare this certificate (See Instruction 15) 6810 NW 8000 Andrews, Texas 79714		MAR 05 2009 O&G MIDLAND			
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 Dw Parks		Title Operations Compliance Specialist		Phone No. (432) 634-8109	
				Date 03/02/09	

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: Mark A. Spence

DATE: MAR 12 2009

REMARKS:

CERTIFICATION NUMBER: 060888

Permitting

MAR 19 2009

Clear Form



January 20, 2012

REC'D/MIDLAND

FEB 03 2012

RECEIVED
RRC OF TEXAS

JAN 27 2012

OIL & GASFIELD OPERATIONS
AUTHORITY

JAN 20 2012

9:16
AM

Approved
Mark Spannaus
1-25-2012

Completed 1/30/2011

Kim Dally

Mark Spannaus
Railroad Commission of Texas
Conoco Towers
10 Desta Drive, Suite 500E
Midland, TX 79705

Re: Change of Operator on H-9 Certificates

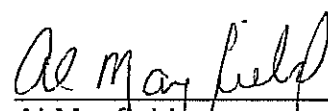
Dear Mark,

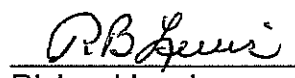
We are requesting the change of operator from Exxon Mobil Corporation, Operator No. 257128, to XTO Energy Inc., Operator No. 945936, on the attached list of H-9 certificates.

This letter will also serve to certify the H-9 certificates have analyses that are less than 5 years old. In that time, we show no significant changes in the volume or concentration in the ROE which would include any public areas or roads.

If you have any questions, please contact the undersigned.

Sincerely,


Al Mayfield
Superintendent
432-266-0469


Richard Lewis
Superintendent
432-488-6862

Attachment

945936

District	Field Name	H-9 Certificate No.	Lease Numbers	Facilities	Approval Date
08	Block 16 (Montoya)	063269 ✓	250696 245711	Pyote Gas Unit No. 2 Pyote Gas Unit No. 13	10/15/2009
J8	Deep Rock (Devonian)	060886 ✓	25377	King, Georgia B.	3/12/2009
08	Deep Rock (Glorieta 5950)	060885 ✓	33898 14608	Deep Rock Glorieta Unit Ogden, Belle, -A-	3/12/2009
08	Evetts (Pennsylvanian)	065105 ✓	256356 074251 083298 134824 142304 179198	Haley Unit 8 Haley Unit Haley Unit Haley Unit Athey, Charles B. Haley Unit	JAN 20 2010 2010
08	Evetts (Silurian)	063775 ✓	31603 25439	Haley Unit -34- Haley, John, Jr. -C-	1/5/2010
08	Evetts (Silurian)	065106 ✓	181387 050227	Haley 18 Haley Unit	10/1/2010
08	Fuhrman (Glorieta)	060896 ✓	34056	Walker, B S	3/12/2009
08	Fuhrman-Mascho	060895 ✓	21064	Walker, B S	3/12/2009
08	Fuhrman-Mascho (Devonian)	060894 ✓	10080	Walker, B S	3/12/2009
08	Fullerton	060888 ✓	01770 40432	Fullerton Clearfork Unit Logsdon C W	3/12/2009
08	Fullerton (Devonian)	060887 ✓	32000 31066 31514 31909	State University -GB- Wilson -B- Wilson, H.M. -A- State University -GA-	3/12/2009
08	Fullerton (Ellenburger)	060890 ✓	29851	H. M. Wilson -A-	3/12/2009
08	Fullerton (San Andres)	060892 ✓	30331	Wilson -A-, H.M.	3/12/2009
08	Fullerton (Wolfcamp)	060891 ✓	35925	Logsdon C W	3/12/2009
08	Fullerton, West (Grayburg)	060893 ✓	102992	Wilson, H.M. -A-	3/12/2009
08	Martin (Consolidated)	060784 ✓	36494 36480	Parker, J. E. Parker, J. E. A/C 3A	2/27/2009
08	Martin (Ellenburger)	060781 ✓	04073	Parker, J. E.	2/27/2009
08	Martin (McKee)	060783 ✓	32099 04080 32094	Parker, J. E. A/C 3 "A" Parker, J. E. Parker, J. E. A/C 1 "A"	2/27/2009
08	Martin (Second Simpson SD.)	060779 ✓	29399	Parker, J. E.	2/27/2009
18	Means	065958 ✓	17503	Means/San Andres/Unit	3/22/2011
08	Robertson, N. (Clear Fork 7100)	060889 ✓	60580	Robertson/Clearfork/Unit	3/12/2009
08	Robertson, N. (Devonian)	060521 ✓	68630	Exxon Fee "B"	1/30/2009



Groundwater Advisory Unit

Date Issued: 09 December 2016**GAU Number:** 164224**Attention:** XTO ENERGY INC.
ATTN ALAN CODY
FORT WORTH, TX 76102**Operator No.:** 945936**API Number:**
County: ANDREWS
Lease Name: FULLERTON CLEARFORK UNIT
Lease Number: 01770
Well Number: 7324
Total Vertical Depth: 7550
Latitude: 32.409080
Longitude: -102.805063
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-13; Section-5

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 300 feet, and the zone from 1150 to 1575 feet must be protected.

This recommendation is applicable for all wells drilled in this Section 5 on this Lease.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 12/08/2016. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

W.A. MARSHALL
ABSTRACT 625
SECTION 16, BLOCK A32
PUBLIC SCHOOL LAND

B.M. IRWIN
ABSTRACT 616
SECTION 17, BLOCK A32
PUBLIC SCHOOL LAND

SURVEY/BLOCK LINE



0 500 1000
1" = 1000 FEET

(SHOWN PARTIAL)
FULLERTON CLEARFORK UNIT
CALLED 29,541.59 ACRES

UNIVERSITY LAND
SECTION 6, BLOCK 13

UNIVERSITY LAND
SECTION 5, BLOCK 13

SHL/PP
FULLERTON CLEARFORK
UNIT #7324
ELEV. 3302'

TO UNIT LINE
(SCALED)
15122'

FCU
#2323

548'

541'

552'

FCU
#2325

1314'

TO UNIT LINE
(SCALED)
11916'

SURVEY LINE

UNIVERSITY LAND
SECTION 7, BLOCK 13

UNIVERSITY LAND
SECTION 8, BLOCK 13

GENERAL NOTES

- COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE, 4203.
- VERTICAL DATUM IS NAVD 88.
- LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN.
- AREA, DISTANCES, AND COORDINATES ARE "GRID".
- UNITS ARE UNITED STATES SURVEY FOOT.
- ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

DRIVING DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF MAIN ST. AND BROADWAY ST. IN ANDREWS HEAD WEST ON BROADWAY ST. APPROX. 1.1 MILES. TAKE SLIGHT RIGHT ON RANCH ROAD 87 AND GO APPROX. 15.0 MILES. TURN RIGHT ON NW 7001 AND GO APPROX. 3.0 MILES. TURN RIGHT ON LEASE ROAD AND GO APPROX. 1.2 MILES. TURN RIGHT ON LEASE ROAD AND GO APPROX. 0.3 MILES. TURN RIGHT ON LEASE ROAD AND GO APPROX. 0.1 MILES. TURN LEFT ON LEASE ROAD AND GO APPROX. 0.1 MILES AND ARRIVE AT THE LOCATION APPROX. 20' ON THE LEFT.

WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION/PP:
NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,848,540.28, X = 1,533,512.41
LAT: N 32.40919°, LONG: W 102.80552°
SHL: 1,314' FSL & 548' FWL
SHL: 11,916' FSL & 15,122' FWL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 1,005,963.56, X = 1,237,052.78
LAT: N 32.40908°, LONG: W 102.80506°

FOR RRC PURPOSES ONLY:

NAD 27, TEXAS NORTH CENTRAL ZONE COORD'S
Y = 311,423.66, X = 363,456.25
LAT: N 32.40908°, LONG: W 102.80506°

I HEREBY STATE THAT THIS PLAT
SHOWS THE SUBJECT SURFACE
LOCATION AS STAKED ON THE GROUND.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF TEXAS NO. 6445



PLAT OF:
A PROPOSED WELL LOCATION FOR:
XTO ENERGY INC.
FULLERTON CLEARFORK UNIT #7324

SITUATED IN UNIVERSITY LAND SURVEY, SECTION 5,
BLOCK 13, LOCATED 16.4 MILES NORTHWEST OF
ANDREWS, IN ANDREWS COUNTY, TEXAS

FSC INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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DATE: 8-26-2016
DRAWN BY: AJ
CHECKED BY: DH
FIELD CREW: MC&MR
PROJECT NO: 2016080639
SCALE: 1" = 1000'
SHEET: 1 OF 1
REVISION: