



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 12/15/2021
Tracking No.: 258203

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION

Table with Operator, DIAMONDBACK E&P LLC, Operator 217012, and address 500 W TEXAS AVE STE 1200 MIDLAND, TX 79701-4203.

WELL INFORMATION

Table with well details: API 42-003-48278, Well No.: 05SC, Lease UL 1933 E10, RRC Lease 55774, Location Section: 19, Block: 7, Survey: UL, Abstract: U200, County: ANDREWS, RRC District 08, Field SPRABERRY (TREND AREA), Field No.: 85280300, and distance from nearest town.

FILING INFORMATION

Table with filing details: Purpose of Initial Potential, Type of Other/Recompletion, Well Type: Producing, Completion or Recompletion 07/29/2021, Type of Permit, Date 09/03/2020, Permit No. 864445, and other categories like Rule 37 Exception, Fluid Injection, O&G Waste Disposal, and Other.

COMPLETION INFORMATION

Table with completion details: Spud 11/17/2020, Date of first production after rig 07/29/2021, Date plug back, deepening, drilling operation 05/18/2021, Date plug back, deepening, recompletion, drilling operation 06/22/2021, Number of producing wells on this lease this field (reservoir) including this 10, Distance to nearest well in lease & reservoir 269.0, Total number of acres in 641.39, Elevation 2961 GL, Total depth TVD 9549, Total depth MD 21200, Plug back depth TVD, Plug back depth MD, Was directional survey made other inclination (Form W- Yes, Rotation time within surface casing Is Cementing Affidavit (Form W-15) 16.0 Yes, Recompletion or Yes, Multiple No, Type(s) of electric or other log(s) Other RCBL/GAMMA RAY, Location of well, relative to nearest lease of lease on which this well is 260.0 Feet from the North Line and 886.0 Feet from the West Line of the UL 1933 E10 Lease.

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

Table with headers: Field & Reservoir, Gas ID or Oil Lease, Well No., Prior Service Type. Row 1: PACKET: N/A

W2: N/A

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

<b>GAU Groundwater Protection Determination</b>	<b>Depth</b>	1800.0	<b>Date</b>	07/27/2020
<b>SWR 13 Exception</b>	<b>Depth</b>			

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

<b>Date of</b>	10/27/2021	<b>Production</b>	Pumping
<b>Number of hours</b>	24	<b>Choke</b>	0
<b>Was swab used during this</b>	No	<b>Oil produced prior to</b>	24602.00
<b>PRODUCTION DURING TEST PERIOD:</b>			
<b>Oil</b>	800.00	<b>Gas</b>	1200
<b>Gas - Oil</b>	1500	<b>Flowing Tubing</b>	301.00
<b>Water</b>	1025		
<b>CALCULATED 24-HOUR RATE</b>			
<b>Oil</b>	800.0	<b>Gas</b>	1200
<b>Oil Gravity - API - 60.:</b>	38.3	<b>Casing</b>	64.00
<b>Water</b>	1025		

**CASING RECORD**

<u>Ro</u>	<u>Type of Casing</u>	<u>Casing Size (in.)</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Multi - Stage</u>	<u>Multi - Tool Stage Shoe</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
1	Surface	11 3/4	14 3/4	1874			PREM PLUS	985	1730.0	SURF ACE	Circulated to Surface
2	Intermediate	8 5/8	11	5846			PREM PLUS	1280	2351.0	SURF ACE	Circulated to Surface
3	Conventional Production	5 1/2	7 7/8	21195			C	2120	3530.0	3250 Cement	Evaluation Log

**LINER RECORD**

<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

**TUBING RECORD**

<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	9005		/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 9616	21105.0

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

<b>Was hydraulic fracturing treatment</b>	Yes
<b>Is well equipped with a downhole sleeve?</b>	Yes
<b>Production casing test pressure (PSIG) during hydraulic fracturing</b>	7859
<b>Actual maximum pressure (PSIG) during fracturin</b>	10051
<b>Has the hydraulic fracturing fluid disclosure been</b>	Yes
<b>If yes, actuation pressure</b>	9824.0

<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>

## FORMATION RECORD

<u>Formations</u>	<u>Encountere</u>	<u>Depth TVD</u>	<u>Depth MD</u>	<u>Is formation</u>	<u>Remarks</u>
YATES	Yes	3127.0	3131.0	Yes	
SEVEN RIVERS	Yes	3427.0	3432.0	Yes	
QUEEN	Yes	4099.0	4104.0	Yes	
GRAYBURG	Yes	4677.0	4684.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4834.0	4840.0	Yes	
HOLT	No			No	NOT PRESENT
GLORIETA	Yes	5692.0	5700.0	Yes	
CLEARFORK	Yes	6696.0	6704.0	Yes	
TUBB	Yes	7109.0	7118.0	Yes	
PERMIAN DETRITAL	No			No	NOT PRESENT
LEON	Yes	8200.0	8209.0	Yes	
WICHITA ALBANY	No			No	NOT PRESENT
SPRABERRY	Yes	8400.0	8409.0	Yes	
DEAN	No			No	BELOW TD
WOLFCAMP	No			No	BELOW TD
CANYON	No			No	BELOW TD
PENNSYLVANIAN	No			No	BELOW TD
STRAWN	No			No	BELOW TD
DEVONIAN	No			No	BELOW TD
SILURIAN	No			No	BELOW TD
FUSSELMAN	No			No	BELOW TD
MCKEE	No			No	BELOW TD
ELLENBURGER	No			No	BELOW TD
PRECAMBRIAN (UNDIFFERENTIATED)	No			No	BELOW TD
<b>Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm</b>					No
<b>Is the completion being downhole commingled</b>					No

## REMARKS

SPUD WELL 11/17/2020. DRILLING RIG RIGGED UP 12/9/2020, RIGGED DOWN 12/20/2020 KOP @ 9327'

**RRC REMARKS**

**PUBLIC COMMENTS:**

[RRC Staff 2021-11-22 16:07:28.945] EDL=11450 feet, max acres=720, SPRABERRY (TREND AREA) oil well;

take points: 9616-21105 feet

**CASING RECORD :**

**TUBING RECORD:**

**PRODUCING/INJECTION/DISPOSAL INTERVAL :**

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

**POTENTIAL TEST DATA:**

**OPERATOR'S CERTIFICATION**

<b>Printed</b>	Suzanne Dorchester	<b>Title:</b>	Regulatory Analyst
<b>Telephone</b>	(432) 221-7433	<b>Date</b>	12/02/2021



# RAILROAD COMMISSION OF TEXAS

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

## Form W-15

Rev. 08/2014

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

### CEMENTING REPORT

OPERATOR INFORMATION	
Operator Name: QEP RESOURCES	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION	
District No.: 09	County: ANDREWS
Well No.: #05SC	API No.: 42-003-48278
Lease Name: UL 1933 E10	Drilling Permit No.: 864445
Field Name: Spraberry (Trend Area)	Lease No.: 55774
	Field No.: 95280300

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.): 14 3/4	Depth of drilled hole (ft.): 1884	Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 11 3/4	Casing weight (lbs/ft) and grade: 42.55	No. of centralizers used: 14	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.): 1874	Top of liner (ft.):	
		Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out: 24+	Calculated top of cement (ft.): Surface	Cementing date: 11/17/2020	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	680	PREM PLUS	REMARKS	1324	3056
2	305	PREM PLUS	REMARKS	405	868
3					
<b>Total</b>	<b>985</b>			<b>1730</b>	<b>3924</b>

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:	Lower:	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:	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					
<b>Total</b>					

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:	Lower:	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:	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					
<b>Total</b>					

**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							
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#906817408) LEAD SLURRY: .25 LBM D-AIR, .30% HR-800, 3 LBM KOL-SEAL, .1250 LBM POLY-E-FLAKE / TAIL SLURRY: .25 POLY-E-FLAKE  
 CIRCUITTED 346 SACKS 120 BBS BACK TO SURFACE

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.

**MANUEL DOMINGUEZ SS II**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

1301 W. Webb St.

Brownfield, Tx, 79316

575-392-0700

11/17/2020

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.

*Mackenzie LeBell*

*Reg Analyst*

*Manuel Dominguez*

Typed or printed name of operator's representative

Title

Signature

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\\_rloc=&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_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

1701 N. Congress  
P.O. Box 12967  
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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: QEP RESOURCES	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION		
District No.: 02	County: ANDREWS	
Well No.: #05SC	API No.: 47-003-48278	Drilling Permit No.: 864445
Lease Name: UL 1933 E10	Lease No.:	55774
Field Name: Strawberry (East Area)	Field No.: 85280300	

I. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input checked="" type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input type="checkbox"/> Production
Drilled hole size (in.): 11	Depth of drilled hole (ft.): 5866	Est. % wash-out or hole enlargement: 20			
Size of casing in O.D. (in.): 8 5/8	Casing weight (lbs/ft) and grade: 32.5-55	No. of centralizers used: 7			
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.): 5846	Top of liner (ft.):			
		Setting depth liner (ft.):			
Hrs. waiting on cement before drill-out: 10.5	Calculated top of cement (ft.): surface	Cementing date: 12/11/2020			

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	895	PREM PLUS	REMARKS	1836	7222
2	385	PREM PLUS	REMARKS	515	1910
3					
<b>Total</b>	<b>1280</b>			<b>2351</b>	<b>9132</b>

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:	Lower:	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:	Lower:	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					
<b>Total</b>					

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:	Lower:	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:	Lower:	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					
<b>Total</b>					

**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							
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#906860867) LEAD SLURRY: NEOCEM / TAIL SLURRY: .40% HALAD, .45% HR-800  
CIRCULATED 301 SACKS 110 BBS BACK TO SURFACE

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.

**MANUEL DOMINGUEZ SS II**

**Halliburton**



Name and title of cementer's representative	Cementing Company	Signature	
1301 W. Webb St.	Brownfield, Tx, 79316	575-392-0700	12/11/2020
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.

<i>Maackarric Wall</i>	<i>Reg. Analyst</i>	<i>Maackarric Wall</i>	
Typed or printed name of operator's representative	Title	Signature	
1050 17 <sup>th</sup> St., Ste 800	Denver, CO 80265	303-388-3069	9/6/20
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\\_rloc=&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_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

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

Form W-15

Rev. 08/2014

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

## CEMENTING REPORT

### OPERATOR INFORMATION

Operator Name: QEP RESOURCES	Operator P-5 No.: 684474
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08	County: ANDREWS	
Well No.: 055C	API No.: 42-003-48078	Drilling Permit No.: 864445
Lease Name: UL 1993 E10	Lease No.:	55774
Field Name: Spangherly (Trend Area)	Field No.: 8528030	

### 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.): 21,200	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 5 1/2	Casing weight (lbs/ft) and grade: 20 CP115	No. of centralizers used: 2/2
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 21,195	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: n/a	Calculated top of cement (ft.): 3250	Cementing date: 12/20/20

#### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	285	C		777	4367
2	1735	C		2491	14369
3	100	C		262	1489
<b>Total</b>	<b>2120</b>			<b>3530</b>	<b>20225</b>

### 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:	Lower:	Upper:
Lower:		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:	Lower:	Upper:
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					
<b>Total</b>	<b>0</b>			<b>0</b>	<b>0</b>

### 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:	Lower:	Upper:
Lower:		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:	Lower:	Upper:
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					
<b>Total</b>	<b>0</b>			<b>0</b>	<b>0</b>

**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							
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**

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.

**JERALD WATSON - Service Supervisor**

**Halliburton**

Name and title of cementer's representative

Cementing Company

Signature

6155 W. Murphy St.

Odessa, TX, 79763

432-571-8600

12/20/20

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.

Maackenzie Wall

Doc. Analyst

Signature

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\\_rloc=&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_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.

Tracking No.: 258203

**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: DIAMONDBACK E&P LLC	District No. 08	Completion Date: 07/29/2021
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 864445	
Lease Name UL 1933 E10	Lease/ID No. 55774	Well No. 05SC
County ANDREWS	API No. 42- 003-48278	

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

A. BASIC ELECTRIC LOG NOT RUN

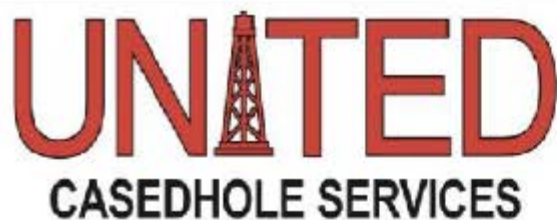
B. BASIC ELECTRIC LOG RUN. (Select one)

- 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). \_\_\_\_\_

Suzanne Dorchester  
Signature  
DIAMONDBACK E&P LLC  
Name (print)

Regulatory Analyst  
Title  
(432) 221-7433  
Phone  
11/09/2021  
Date

-FOR RAILROAD COMMISSION USE ONLY-



# Radial Cement Bond Gamma Ray CCL Log

Company QEP Resources  
Well UL 1933 E10 #05SC  
Field Spraberry (Trend Area)  
County Andrews  
State Texas

Company QEP Resources  
Well UL 1933 E10 #05SC  
Field Spraberry (Trend Area)  
County Andrews State Texas

Location: API # : 42-003-48278  
S19-7, UL Svy.  
Other Services N/A  
Elevation  
Permanent Datum Ground Level Elevation 2962'  
Log Measured From Kelly Bushing 21' APD  
Drilling Measured From Kelly Bushing  
K.B. 2983'  
D.F. 2982'  
G.L. 2962'

Date	23-FEB-2021
Run Number	One
Depth Driller	21149'
Depth Logger	9698'
Bottom Logged Interval	9696'
Top Log Interval	Surface
Open Hole Size	8 1/2"
Type Fluid	Water
Density / Viscosity	N/A
Max. Recorded Temp.	168.3°F
Estimated Cement Top	3250'
Time Well Ready	ROA
Time Logger on Bottom	8:15 A.M.
Equipment Number	WL-3
Location	Odessa, TX
Recorded By	Rex Flores
Witnessed By	Randy Murray

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String							
Prot. String		9 5/8"	40#	Surface		5846'	
Production String		5 1/2"	20#	Surface		21149'	
Liner							
Short Joint		8975'-8996'					





## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 27 July 2020      **GAU Number:** 278636

<b>Attention:</b>	QEP ENERGY COMPANY ATTN SOUTHERN DIV DENVER, CO 80265	<b>API Number:</b>	00000000
<b>Operator No.:</b>	684474	<b>County:</b>	ANDREWS
		<b>Lease Name:</b>	UL 1933 E1
		<b>Lease Number:</b>	
		<b>Well Number:</b>	01DN
		<b>Total Vertical</b>	9950
		<b>Latitude:</b>	32.392548
		<b>Longitude:</b>	-102.226582
		<b>Datum:</b>	NAD27

**Purpose:** New Production Well  
**Location:** Survey-From Plat; Block-7

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 1400 to 1800 feet must be protected.

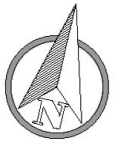
This recommendation is applicable for all wells drilled in this section 19 (A-U200).

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 07/24/2020. 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

Form GW-2      P.O. Box 12967 Austin, Texas 78771-2967      512-463-2741      Internet address: www.rrc.texas.  
Rev. 02/2014



0 500 1000  
1" = 1000 FEET

U.L.  
A-U200  
SEC 19  
BLK. 7

U.L.  
A-U199  
SEC 18  
BLK. 7

OFFSET OPERATOR:  
XTO ENERGY  
UL 1933 E10 05SC  
SURFACE HOLE LOCATION  
ELEV. 2,961.2'  
2641.07' N 76°58'07" E  
Y = 295,376.69  
X = 539,557.25  
LAT. = 32.3813827° N  
LONG. = 102.2328831° W

U.L.  
A-U205  
SEC 24  
BLK. 7

OFFSET OPERATOR:  
XTO ENERGY

OFFSET OPERATOR:  
QEP ENERGY

U.L.  
A-U208  
SEC 33  
BLK. 7

OFFSET OPERATOR:  
PIONEER NATURAL  
RESOURCES

U.L.  
A-U213  
SEC 38  
BLK. 7

OFFSET OPERATOR:  
DIAMONDBACK E&P

UL 1933 E10 05SC  
POINT OF PENETRATION  
ELEV. 6,704.0'

OFFSET OPERATOR:  
QEP ENERGY

UL 1933 E10 05SC  
FIRST TAKE POINT  
M.D. = 9,616.0'

OFFSET OPERATOR:  
QEP ENERGY

OFFSET OPERATOR:  
QEP ENERGY

OFFSET OPERATOR:  
QEP ENERGY

U.L.  
A-U207  
SEC 32  
BLK. 7

UL 1933 E10 05SC  
LAST TAKE POINT  
M.D. = 21,104.8'

UL 1933 E10 05SC  
BOTTOM HOLE LOCATION  
M.D. = 21,200.0'

LEASE/CALLED ACREAGE TABLE	LATERAL LENGTH
LEASE 1 #107149	80.00 ACRES 989.03'
LEASE 2 #107151	160.00 ACRES 2641.09'
LEASE 3 #114999	60.00 ACRES 990.76'
LEASE 4 #100453	100.00 ACRES 1651.17'
LEASE 5 #107941	80.463 ACRES 2656.36'
LEASE 6 #107162	160.925 ACRES 2554.15'
TOTAL	641.388 ACRES N/A

GENERAL NOTES

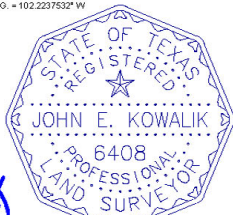
- COORDINATES SHOWN ARE BASED ON TEXAS COORDINATE SYSTEM OF NAD 27 "TEXAS NORTH CENTRAL ZONE 4202"
- VERTICAL DATUM IS NAVD 88
- LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
- AREA, DISTANCES, AND COORDINATES ARE "GRID"
- UNITS ARE UNITED STATES SURVEY FOOT.
- ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACRES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

WELL NUMBER	LEASE CALLS	SURVEY CALLS	NAD. 27 TEXAS STATE PLANE COORDINATES	NAD. 27 GEOGRAPHIC COORDINATES (DMS)	NAD. 27 GEOGRAPHIC COORDINATES (DD)	NAD. 83 GEOGRAPHIC COORDINATES (DD)
05SC	886' FWL	1,755' FEL	Y = 296,602.68 X = 540,193.02	LAT. = 32°23'29.70" N LONG. = 102°13'50.90" W	LAT. = 32.3915835° N LONG. = 102.2308044° W	LAT. = 32.3916003° N LONG. = 102.2312360° W
SHL	260' FNL	1,060' FSL	Y = 296,869.14 X = 540,358.38	LAT. = 32°23'32.41" N LONG. = 102°13'49.11" W	LAT. = 32.3923357° N LONG. = 102.2303081° W	- - -
05SC POP (TVD = 6,695')	1,105' FWL 36' FNL	1,538' FEL 1,284' FSL	Y = 296,586.58 X = 540,451.48	LAT. = 32°23'29.86" N LONG. = 102°13'47.88" W	LAT. = 32.3915712° N LONG. = 102.2299656° W	- - -
05SC	1,135' FWL	1,508' FEL	Y = 285,372.27 X = 542,896.27	LAT. = 32°21'39.88" N LONG. = 102°13'13.52" W	LAT. = 32.3610783° N LONG. = 102.2204216° W	- - -
FTP	103' FSL	103' FSL	Y = 285,278.67 X = 542,912.43	LAT. = 32°21'38.96" N LONG. = 102°13'13.28" W	LAT. = 32.3608232° N LONG. = 102.2203557° W	- - -
05SC	1,088' FWL	1,553' FEL				
BHL	8' FSL	8' FSL				

AN AS-DRILLED WELL LOCATION FOR:  
**DIAMONDBACK E&P LLC**  
UL 1933 E10 05SC

SITUATED IN THE UNIVERSITY LANDS, A-U200 SEC. 19, A-U205, SEC. 24, AND A-U208 SEC. 33, BLK 7 AND BEING APPROXIMATELY 17.9 MILES EAST OF ANDREWS IN ANDREWS COUNTY, TEXAS.

DATE: 11-19-2021  
DRAWN BY: HR  
CHECKED BY: MC/SZC  
FIELD CREW: N/A  
PROJECT NO: 2020060985  
SCALE: 1" = 1000'  
SHEET: 1 OF 1  
REVISION: 0



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

*John E. Kowalik*  
JOHN E. KOWALIK  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF TEXAS NO. 6408

**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 10193687  
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