



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 09/15/2015  
Tracking No.: 127618

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

OPERATOR INFORMATION

Operator Name: FORGE ENERGY, LLC Operator No.: 276868  
Operator Address: 10999 IH 10 WEST SUITE 900 SAN ANTONIO, TX 78230-0000

WELL INFORMATION

API No.: 42-003-46897 County: ANDREWS  
Well No.: 3421H RRC District No.: 08  
Lease Name: UL 14 CONWAY Field Name: SHAFTER LAKE, N. (SAN ANDRES)  
RRC Lease No.: 45866 Field No.: 82572666  
Location: Section: 21, Block: 14, Survey: UL, Abstract: U461  
  
Latitude: 32.41411 Longitude: -102.70881  
This well is located 11.6 miles in a NW  
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: 01/21/2015  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	10/24/2014	798775
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 11/15/2014	Date of first production after rig released: 01/21/2015
Date plug back, deepening, recompletion, or drilling operation commenced: 11/15/2014	Date plug back, deepening, recompletion, or drilling operation ended: 11/26/2014
Number of producing wells on this lease in this field (reservoir) including this well: 3	Distance to nearest well in lease & reservoir (ft.): 880.0
Total number of acres in lease: 642.30	Elevation (ft.): 3251 GR
Total depth TVD (ft.): 4735	Total depth MD (ft.): 9380
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): 264.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 205.0 Feet from the South Line and 2090.0 Feet from the East Line of the UL 14 CONWAY 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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PACKET: N/A

W2:	N/A			
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:				
GAU Groundwater Protection Determination		Depth (ft.):	1700.0	Date: 10/22/2014
SWR 13 Exception		Depth (ft.):		

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of test: 02/04/2015		Production method: Pumping	
Number of hours tested: 24		Choke size: 64/64	
Was swab used during this test? No		Oil produced prior to test: 1016.00	
PRODUCTION DURING TEST PERIOD:			
Oil (BBLS): 139.00		Gas (MCF): 44	
Gas - Oil Ratio: 316		Flowing Tubing Pressure:	
Water (BBLS): 4272			
CALCULATED 24-HOUR RATE			
Oil (BBLS): 139.0		Gas (MCF): 44	
Oil Gravity - API - 60.: 31.0		Casing Pressure:	
Water (BBLS): 4272			

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	9 6/10	12 1/4	1843			ECONOC M	880	1529.4	0	Circulated to Surface
2	Conventional Production	5 1/2	7 3/4	9226			CLASS C	2075	3644.9	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.)	Packer Depth (ft.)/Type
1	2 7/8	4069		/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8638	9227.0
2	No	L1 7903	8492.0
3	No	L1 7168	7757.0
4	No	L1 6433	7022.0
5	No	L1 5698	6287.0
6	No	L1 4963	5552.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.				
Was hydraulic fracturing treatment performed?		Yes		
Is well equipped with a downhole actuation sleeve?		Yes		
If yes, actuation pressure (PSIG):		5500.0		
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		4400		
Actual maximum pressure (PSIG) during hydraulic fracturing:		6003		
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	163296 GAL SLICKWATER, 72576 GAL 15# X-LINK, 12684 GAL TREATED WATER, 4000 GAL 15% HCl, 235206 # SAND	8638	9227
2	Fracture	160650 GAL SLICKWATER, 71862 GAL 15# X-LINK, 8862 GAL TREATED WATER, 4000 GAL 15% HCl, 234957 # SAND	7903	8492
3	Fracture	162162 GAL SLICKWATER, 77154 GAL 15# X-LINK, 7854 GAL TREATED WATER, 4000 GAL 15% HCl, 236000 # SAND	7168	7757
4	Fracture	87066 GAL SLICKWATER, 183078 GAL 15# X-LINK, 7686 GAL TREATED WATER, 4000 GAL 15% HCl, 234840 # SAND	6433	7022
5	Fracture	158592 GAL SLICKWATER, 70308 GAL 15# X-LINK, 6468 GAL TREATED WATER, 4000 GAL 15% HCl, 234985 # SAND	5698	6287
6	Fracture	151410 GAL SLICKWATER, 70308 GAL 15# X-LINK, 4000 GAL 15% HCl, 235063 # SAND	4963	5552

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
YATES	Yes	3025.0	3025.0	Yes	
SEVEN RIVERS	Yes	3210.0	3210.0	Yes	
QUEEN	Yes	3548.0	3548.0	Yes	
GRAYBURG	Yes	4320.0	4330.0	Yes	
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4602.0	4742.0	No	TARGET
HOLT	No			No	BELOW TVD
GLORIETA	No			No	BELOW TVD
TUBB	No			No	BELOW TVD
CLEARFORK	No			No	BELOW TVD
PERMIAN DETRITAL	No			No	BELOW TVD
LEON	No			No	BELOW TVD
WICHITA ALBANY	No			No	BELOW TVD
SPRABERRY	No			No	BELOW TVD
DEAN	No			No	BELOW TVD
WOLFCAMP	No			No	BELOW TVD
CANYON	No			No	BELOW TVD
PENNSYLVANIAN	No			No	BELOW TVD
MCKEE	No			No	BELOW TVD
STRAWN	No			No	BELOW TVD
FUSSELMAN	No			No	BELOW TVD
DEVONIAN	No			No	BELOW TVD
SILURIAN	No			No	BELOW TVD
ELLENBURGER	No			No	BELOW TVD

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

RRC REMARKS
<p><b>PUBLIC COMMENTS:</b></p> <p>[RRC Staff 2015-04-30 12:52:25.925] EDL=4264 feet, max acres=200, SHAFTER LAKE, N. (SAN ANDRES) oil well</p> <p><b>CASING RECORD :</b></p> <p><b>TUBING RECORD:</b></p> <p><b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b></p> <p>KOP IS 4024</p> <p><b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b></p> <p><b>POTENTIAL TEST DATA:</b></p>

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Katrina Boyd	<b>Title:</b>
<b>Telephone No.:</b> (432) 524-1301	<b>Date Certified:</b> 08/31/2015





# 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: Forge Energy, LLC

Operator P-5 No.: 276868

Cementer Name: William Rogers

Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08

County: Andrews

Well No.: 3421H

API No.: 42-003-46897

Drilling Permit No.: 798775

Lease Name: UL 14 Conway

Lease No.:

Field Name: Shafter Lake, N. (San Andres)

Field No.:

### I. CASING CEMENTING DATA

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

Drilled hole size (in.): 7 3/4

Depth of drilled hole (ft.): 9226

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 5 1/2

Casing weight (lbs/ft) and grade: 17

No. of centralizers used: 22

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.): 9408

Top of liner (ft.): N/A

Setting depth liner (ft.): N/A

Hrs. waiting on cement before drill-out: N/A

Calculated top of cement (ft.): 0

Cementing date: 11/27/2014

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	575	C	See Remarks	1618.05	6737.7
2	190	H	↓	318.63	1234.15
3	1310	C		1708.24	1437.6
Total	2075				

### 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.)

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? ☐ 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.)

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? ☐ 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							
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

Slurry#1 additives 3 lbm Kalseal, 0.25 lbm D-Air 5000, 0.50% HR-800  
 Slurry#2 additives 0.40% CFR-3, 5 lbm Kalseal, 3 lbm salt, 0.10% HR-601, 0.50% Halad (R)-344  
 Slurry#3 additives 0.10% SA-K015, 5% Potassium chloride, 0.20% Ecomulite, 0.50% Halad (R)-9

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.

William Rodgers supervisor Halliburton  
 Name and title of cementer's representative Cementing Company Signature  
5801 N. Lovington Hwy Hobbs NM 88240 804 6081 11/26/14  
 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.

Shannon Harman Regulatory Specialist Shannon Harman  
 Typed or printed name of operator's representative Title Signature  
10999 IH-10 West, Ste. 900 San Antonio, TX 78230 (210) 478-5981 02/09/2015  
 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.

- 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=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/readtacSext.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.
- 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.





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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: Forge Energy, LLC

Operator P-5 No.: 276868

Cementer Name: HALLIBURTON ENERGY SERVICES

Cementer P-5 No.: 347151

### WELL INFORMATION

District No.: 08

County: Andrews

Well No.: 3421H

API No.: 42-003-46897

Drilling Permit No.: 798775

Lease Name: UL 14 Conway

Lease No.:

Field Name: Shafter Lake, N. (San Andres)

Field No.:

### I. CASING CEMENTING DATA

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

Drilled hole size (in.): 12 1/4

Depth of drilled hole (ft.): 1843

Est. % wash-out or hole enlargement: 20%

Size of casing in O.D. (in.): 9 6/10

Casing weight (lbs/ft) and grade:

No. of centralizers used: 22

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.): N/A

Setting depth liner (ft.): N/A

Hrs. waiting on cement before drill-out: 21

Calculated top of cement (ft.): 0

Cementing date: 11/17/2014

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	750	ECONOCEM	REMARKS	1353.75	4319
2	130	PREMIUM PLUS	REMARKS	175.63	555.56
3					
Total	880			1529.38	4874.56

### 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.)

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? ☐ 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	0			0	0

### 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.)

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? ☐ 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	0			0	0



CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
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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 SLURRY: ECONOCEM WITH 3 LBM KOL-SEAL  
 2ND SLURRY: PREMIUM PLUS WITH 3 LBM KOL-SEAL, 1% CALCIUM CHLORIDE  
 ORCULATED 230 SACKS 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.

**ALEXANDER RAMOS SS I**

Halliburton

Name and title of cementer's representative

Cementing Company

Signature

1301 Webb St.

Brownfield, TX, 79316

806-637-4126

11/17/2014

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.

Shannon Harman

Regulatory Specialist

Signature

Typed or printed name of operator's representative

Title

10999 IH-10 West, Ste. 900, San Antonio, TX 78230

(210) 478-5981

02/09/2015

Address

City, State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

### Instructions for Form W-15, Cementing Report

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- 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.
- 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.

Tracking No.: 127618

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: <b>FORGE ENERGY, LLC</b>	District No. <b>08</b>	Completion Date: <b>01/21/2015</b>
Field Name <b>SHAFTER LAKE, N. (SAN ANDRES)</b>	Drilling Permit No. <b>798775</b>	
Lease Name <b>UL 14 CONWAY</b>	Lease/ID No.	Well No. <b>3421H</b>
County <b>ANDREWS</b>	API No. <b>42- 003-46897</b>	

## 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). \_\_\_\_\_

Shannon Harman

Signature

FORGE ENERGY, LLC

Name (print)

Title

(210) 478-5960

Phone

02/09/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-



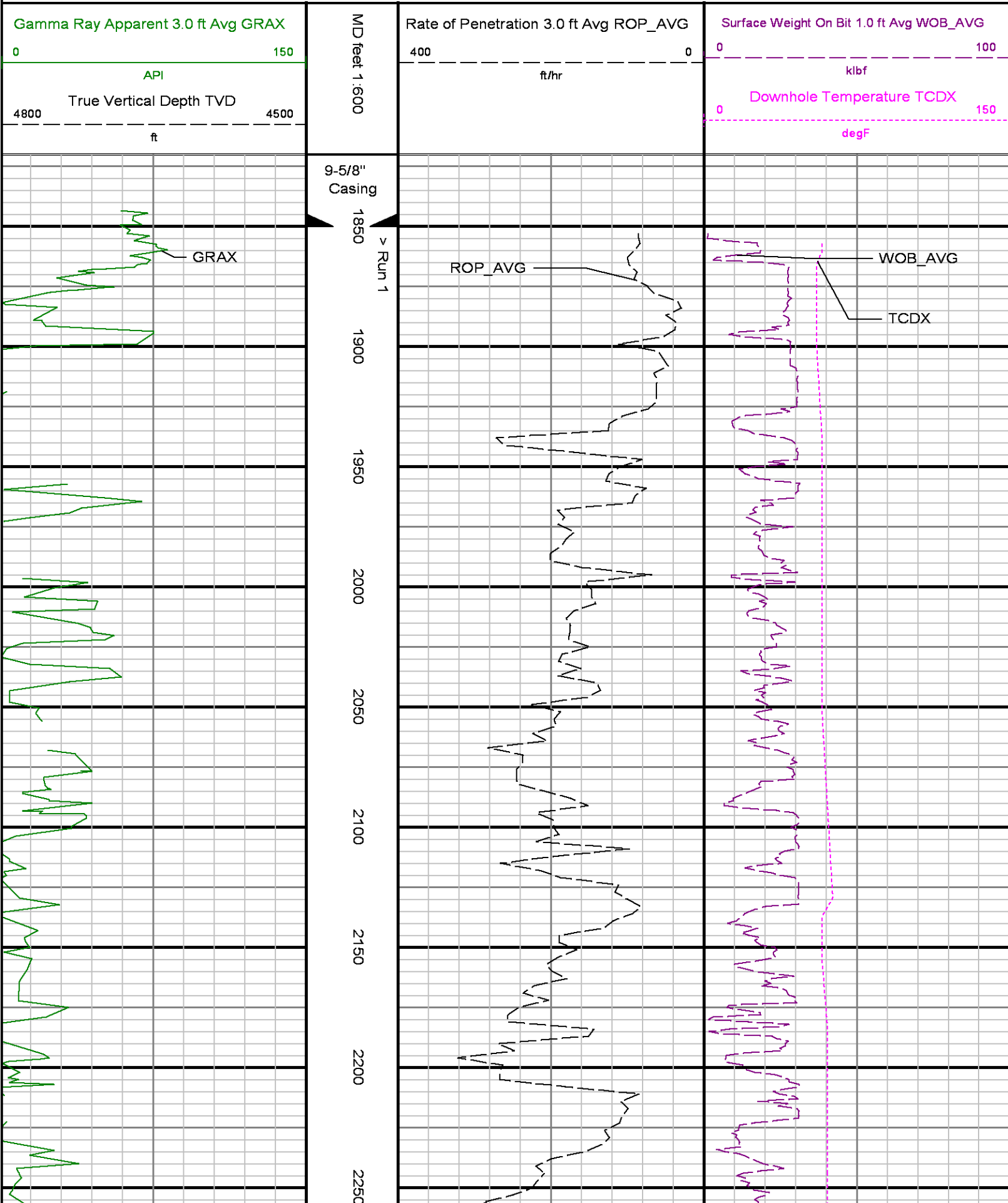


Company : Forge Energy, LLC

Well : UL 14 Conway 3421H

Interval : 1820.00 - 9480.00 feet

Created : 25/Nov/2014 9:07:30 AM

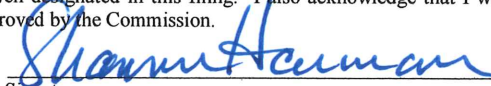


**CERTIFICATE OF COMPLIANCE  
AND TRANSPORTATION AUTHORITY**

**P-4**

5/02—WWW-1

*READ INSTRUCTIONS ON BACK*

1. Field name exactly as shown on proration schedule <b>Shafter Lake, N. (San Andres)</b>		2. Lease name as shown on proration schedule <b>UL 14 Conway</b>					
3. Current operator name exactly as shown on P-5 Organization Report <b>Forge Energy, LLC</b>		4. Operator P-5 no. <b>276868</b>	5. Oil Lse/Gas ID no.	6. County <b>Andrews</b>	7. RRC district <b>08</b>		
8. Operator address including city, state, and zip code <b>10999 IH-10 West, Ste. 900 San Antonio, TX 78230</b>		9. Well no(s) (see instruction E) <b>3421H</b>					
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)			11. Effective Date <b>12/10/14</b>		
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) <b>a. Change of:</b> <input type="checkbox"/> operator <input checked="" type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from: _____ <input type="checkbox"/> lease name from: _____ <b>OR</b> <b>b. New RRC Number for:</b> <input type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____ <b>Due to:</b> <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> 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 Midstream			0001	100	
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	<b>RRC USE ONLY</b>	
Phillips 66					50	Reviewer's initials: _____	
Sentinel Transportation					50	Approval date: _____	
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  Name (print)  Title				Signature  <input type="checkbox"/> <b>Authorized Employee of previous operator</b> <input type="checkbox"/> <b>Authorized agent of previous operator (see instruction G)</b>  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.							
Shannon Harman Name (print) Regulatory Specialist Title SHarman@forenergy.com E-mail Address (optional)				 Signature <input type="checkbox"/> <b>Authorized Employee of current operator</b> <input checked="" type="checkbox"/> <b>Authorized agent of current operator (see instruction G)</b> 12/11/14 Date (210) 478-5981 Phone with area code			

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 127618

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the FORGE ENERGY, LLC ,

UL 14 CONWAY , No. 3421H ; that such well is  
LEASE OPERATOR WELL

completed in the SHAFTER LAKE, N. (SAN ANDRES) Field, ANDREWS County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

172.3 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 06/16/2015 Signature Mindy Barker

Telephone (210) 478-5950 Title \_\_\_\_\_  
AREA CODE



Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date **October 22, 2014**

GAU File No.: **17034**

\*\*\*\*\* EXPEDITED APPLICATION

\*\*\*\*\*  
API Number **00300000**

Attention: **SHANNON HARMAN**

RRC Lease No. **000000**

**SC\_276868\_00300000\_000000\_17034.pdf**

**FORGE ENERGY LLC  
10999 IH10 W  
STE 900  
SAN ANTONIO TX 78230**

**P-5# 276868**

--Measured--

**2090 ft FEL**

**205 ft FSL**

**MRL:SECTION**

Digital Map Location:

X-coord/Long **102.70882**

Y-coord/Lat **32.41412**

Datum **27**

Zone

County **ANDREWS**

Lease & Well No. **UL 14 CONWAY #3421H&ALL**

Purpose **ND**

Location **SUR-UL,BLK-14,SEC-21,-- [TD=4900] , [RRC 8] ,**

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 1175 feet to 1700 feet must be protected.

This recommendation is applicable to all wells drilled in this SESECTION 21 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 intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741 [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

**George Dunfield, P.G.**

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

GEOLOGIST SEAL

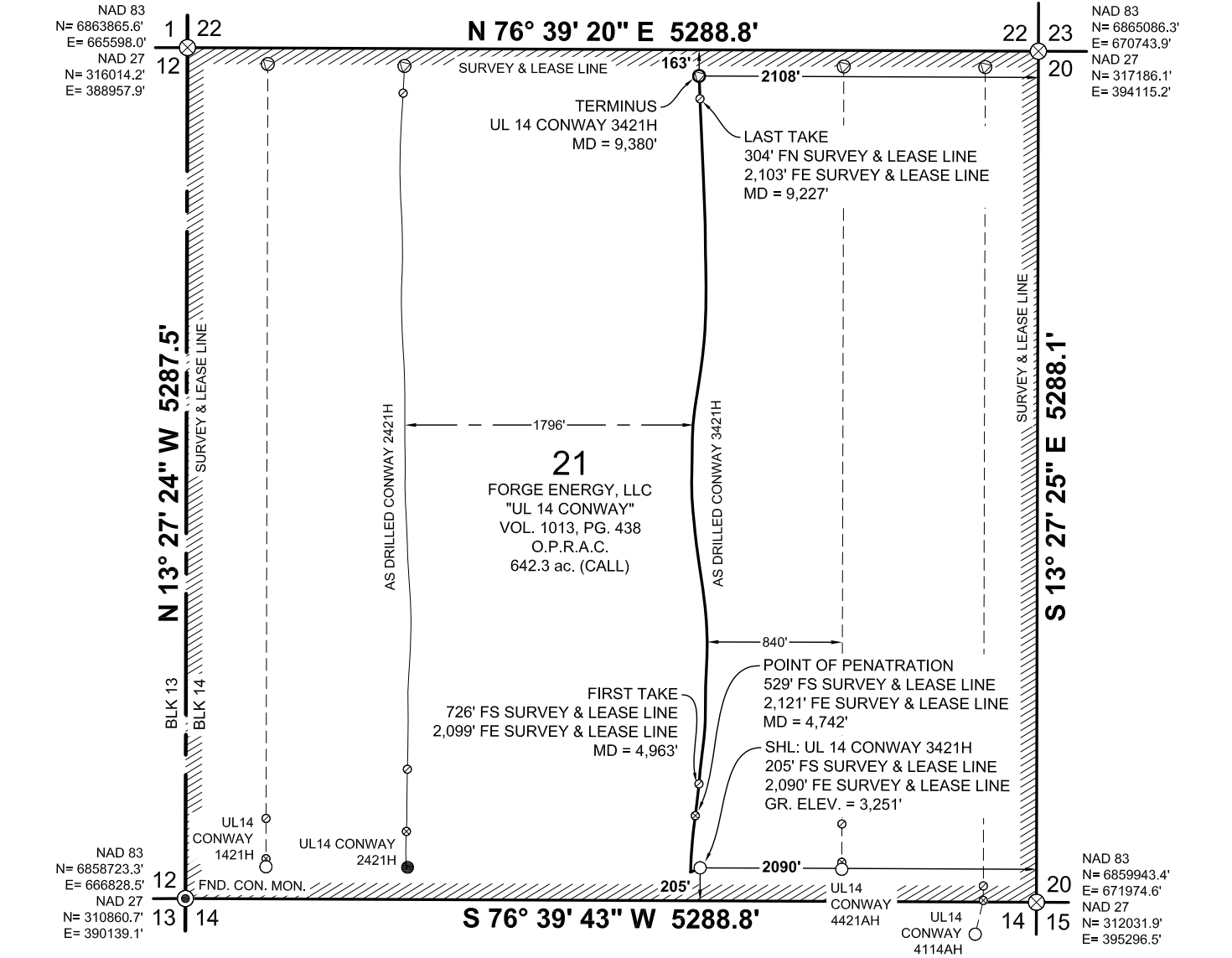


The seal appearing on this document was authorized by George Dunfield on 10/22/2014  
Note: Alteration of this electronic document will invalidate the digital signature.

Form GW-2  
Rev. 02/2014

P.O. Box 12967 Austin, Texas 78711-2967 512-463-2741 Internet address: [www.rrc.state.tx.us](http://www.rrc.state.tx.us)

AS-DRILLED  
SECTION 21, BLOCK 14, UNIVERSITY LANDS SURVEY,  
ANDREWS COUNTY, TEXAS



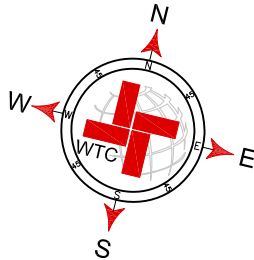
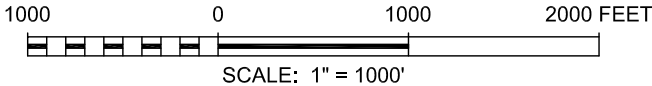
SHL	NAD 83, TX NC - N.(Y)=6859660.5', E.(X)=669893.1' - LAT=32°24'51.22"N, LON=102°42'33.36"W.
	NAD 27, TX NC - N.(Y)=311768.8', E.(X)=393212.5' - LAT=32.4141200°N, LON=102.7088157°W.
POP	NAD 83, TX NC - N.(Y)=6859968.2', E.(X)=669787.5' - LAT=32°24'54.22"N, LON=102°42'34.73"W.
	NAD 27, TX NC - N.(Y)=312077.5', E.(X)=393109.8' - LAT=32.4149533°N, LON=102.7091975°W.
FIRST TAKE	NAD 83, TX NC - N.(Y)=6860165.5', E.(X)=669763.2' - LAT=32°24'56.16"N, LON=102°42'35.11"W.
	NAD 27, TX NC - N.(Y)=312275.0', E.(X)=393087.4' - LAT=32.4154927°N, LON=102.7093017°W.
LAST TAKE	NAD 83, TX NC - N.(Y)=6864305.0', E.(X)=668769.0' - LAT=32°25'36.69"N, LON=102°42'48.63"W.
	NAD 27, TX NC - N.(Y)=316423.6', E.(X)=392132.9' - LAT=32.4267523°N, LON=102.7130579°W.
TERMINUS	NAD 83, TX NC - N.(Y)=6864441.4', E.(X)=668730.3' - LAT=32°25'38.03"N, LON=102°42'49.15"W.
	NAD 27, TX NC - N.(Y)=316560.3', E.(X)=392095.4' - LAT=32.4271226°N, LON=102.7132011°W.

ADJACENT WELLS/ FEATURES				
NAME:	4421AH	1421H	2421H	4114AH
SHL - SHL	880'	2,699'	5,484'	1,758'
POP - POP	955'	2,681'	1,798'	1,866'
FIRST TAKE- FIRST TAKE	923'	2,699'	1,815'	1,878'
LAST TAKE- LAST TAKE	N/A	N/A	1,845'	N/A
TERMINUS- TERMINUS BHL	901'	2,681'	1,832'	1,780'

**DRIVING DIRECTIONS:**  
FROM THE INTERSECTION OF U.S. HIGHWAY 385 AND F.M. 1967 ABOUT 8.0 MILES NORTH OF ANDREWS, TX., GO WEST ON F.M. 1967 FOR 8.0 MILES TO A LEASE ROAD RIGHT. GO NORTH ON THIS LEASE ROAD FOR ONE MILE TO LEASE ROAD RIGHT, GO APPROX. 0.6 MILE EAST. LOCATION FLAG IS ABOUT 185 FEET TO NORTH.

**SURVEYOR'S NOTES:**

- ALL DOWNHOLE, POINT OF PENETRATION AND BOTTOM HOLE INFORMATION AND THEIR LOCATIONS WERE PROVIDED BY FORGE ENERGY, AND ARE NOT GUARANTEED BY THIS SURVEYOR.
- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS, USING FOUND MONUMENTATION, GLO AND COURTHOUSE DOCUMENTATION..
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY FORGE ENERGY AND NONE WAS RESEARCHED OR PROVIDED BY WTC, INC.
- BASIS OF BEARINGS AND COORDINATES SHOWN HEREON ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 83.
- THIS LOCATION IS APPROXIMATELY 8.8 MILES N.46°W. FROM ANDREWS, TEXAS.



**LEGEND**

- DENOTES PROPOSED/ PERMITTED SHL WELL LOCATION
- DENOTES EXISTING WELL
- ⊗ DENOTES POINT OF PENETRATION
- ⊙ DENOTES BOTTOM HOLE LOCATION
- ⊖ DENOTES FIRST OR LAST TAKE
- ⊕ DENOTES FOUND SECTION CORNER
- ⊗ DENOTES CALCULATED CORNER
- ▨ DENOTES LEASE AREA



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY, AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T.B.P.L.S., "PROFESSIONAL LAND SURVEYING PRACTICES ACT." IF THERE ARE ANY ALTERATIONS MADE, (HAND DRAWN OR HANDWRITTEN ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

February 13, 2015  
Gregory W. Shoults, RPLS, No. 5356 DATE

SURVEY DATE: N/A  
W.O. NUMBER: 50509

DRAFT: A.R.  
SHEET: 1 OF 1

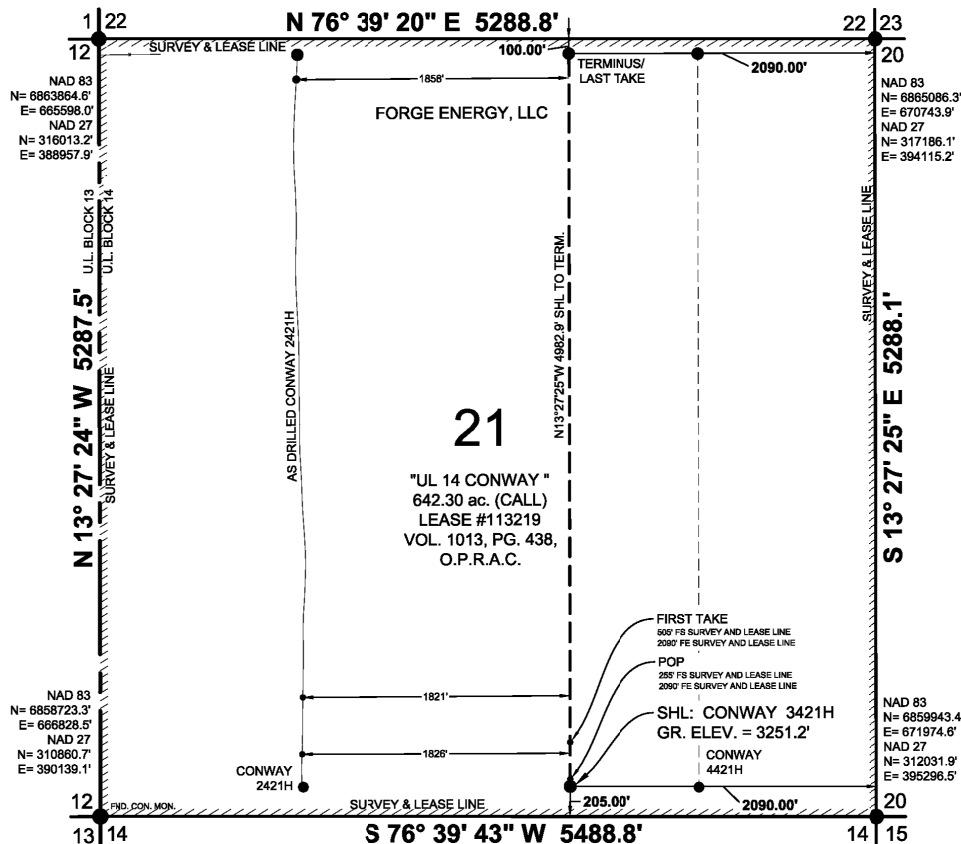


UL 14 CONWAY 3421H AS-DRILLED  
SHL: LOCATED 205' FSL, AND 2,090' FEL,  
SECTION 21, BLOCK 14, UNIVERSITY LANDS  
SURVEY, ANDREWS COUNTY, TEXAS.



**WTC, INC.**  
405 S.W. 1st. STREET  
ANDREWS, TEXAS 79714  
(432) 523-2181  
TEXAS REGISTERED ENGINEERING FIRM F-2746  
TEXAS REGISTERED SURVEYOR FIRM #100792-00

# SECTION 21, BLOCK 14, UNIVERSITY LANDS SURVEY ANDREWS COUNTY, TEXAS



SHL	NAD 83, TX NC - N.(Y)= 6859660.5', E.(X)=669893.1' - LAT.= 32°24'51.21"N, LON.= 102°42'33.35"W.
	NAD 27, TX NC - N.(Y)= 311768.8', E.(X)= 393212.5' - LAT.= 32.4141199, LON.= 102.7088155"W.
POINT OF PENETRATION	NAD 83, TX NC - N.(Y)= 6859709.1', E.(X)= 669881.6' - LAT.= 32°24'51.69"N, LON.= 102°42'33.51"W.
	NAD 27, TX NC - N.(Y)= 311817.5', E.(X)= 393201.5' - LAT.= 32.4142522"N, LON.= 102.7088590"W.
FIRST TAKE	NAD 83, TX NC - N.(Y)=6859952.3', E.(X)= 669823.5' - LAT.= 32°24'54.07"N, LON.= 102°42'34.30"W.
	NAD 27, TX NC - N.(Y)= 312061.2', E.(X)= 393145.6' - LAT.= 32.4149137"N, LON.= 102°7090789"W.
TERMINUS & LAST TAKE	NAD 83, TX NC - N.(Y)= 6864506.6', E.(X)= 668733.7' - LAT.= 32°25'38.67"N, LON.= 102°42'49.13"W.
	NAD 27, TX NC - N.(Y)= 316625.5', E.(X)= 392099.5' - LAT.= 32.4273021"N, LON.= 102.7131985"W.

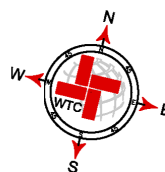
ADJACENT WELLS/ FEATURES		
NAME:	SHL TO SHL	BHL TO BHL
CONWAY 2421H	1819.00'	1850.00
CONWAY 4421H	880.00'	881.00'

## DRIVING DIRECTIONS:

FROM THE INTERSECTION OF U.S. HIGHWAY 385 AND F.M. 1967 ABOUT 8.0 MILES NORTH OF ANDREWS, TX., GO WEST ON F.M. 1967 FOR 8.0 MILES TO A LEASE ROAD RIGHT. GO NORTH ON THIS LEASE ROAD FOR ONE MILE TO LEASE ROAD RIGHT, GO APPROX. 0.6 MILE EAST. LOCATION FLAG IS ABOUT 185 FEET TO NORTH.

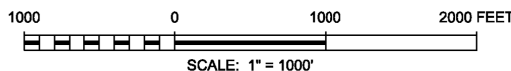
## SURVEYOR'S NOTES:

- SEE DOCUMENTS FILED IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THESE SECTIONS AND/OR BLOCKS, USING FOUND MONUMENTATION, GLO AND COURTHOUSE DOCUMENTATION..
- NO SURFACE OWNERSHIP WAS PROVIDED OR REQUESTED BY FORGE ENERGY, L.L.C. AND NONE WAS RESEARCHED OR PROVIDED BY WTC, INC.
- BASIS OF BEARINGS AND COORDINATES SHOWN HEREON ARE A LAMBERT CONICAL PROJECTION OF THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE, NAD 83, BASED ON NGS STATION GARDNER.
- THIS LOCATION IS APPROXIMATELY 11.6 MILES N.53°W. FROM ANDREWS, TEXAS.



## LEGEND

- DENOTES PROPOSED/ PERMITTED SHL WELL LOCATION
- DENOTES EXISTING WELL
- DENOTES POINT OF PENETRATION
- DENOTES BOTTOM HOLE LOCATION
- DENOTES FIRST/ LAST TAKE
- DENOTES FOUND SECTION CORNER
- DENOTES CALCULATED CORNER
- ▨ DENOTES LEASE AREA



I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PERMIT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ACTUAL ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR TEXAS RAILROAD COMMISSION PERMITTING ONLY, AND DOES NOT CONSTITUTE OR REPRESENT A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE T.B.P.L.S., "PROFESSIONAL LAND SURVEYING PRACTICES ACT." IF THERE ARE ANY ALTERATIONS MADE, (HAND DRAWN OR HANDWRITTEN ADDITIONS) THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

*Gregory W. Shoults*  
Gregory W. Shoults, RPLS, No. 5356  
October 6, 2014  
DATE

SURVEY DATE: 09/26/2014  
W.O. NUMBER: 50232

DRAFT: CMR  
SHEET: 1 OF 1



UL 14 CONWAY 3421H  
SHL LOCATED 205 FEET FROM THE SOUTH LINE AND 2090 FEET FROM THE EAST LINE OF SECTION 21, BLOCK 14, UNIVERSITY LANDS SURVEY, ANDREWS COUNTY, TEXAS.



WTC, INC.  
405 S.W. 1st STREET  
ANDREWS, TEXAS 79714  
(409) 323-2161  
TEXAS REGISTERED ENGINEERING FIRM F-2748  
TEXAS REGISTERED SURVEYOR FIRM #100792-00