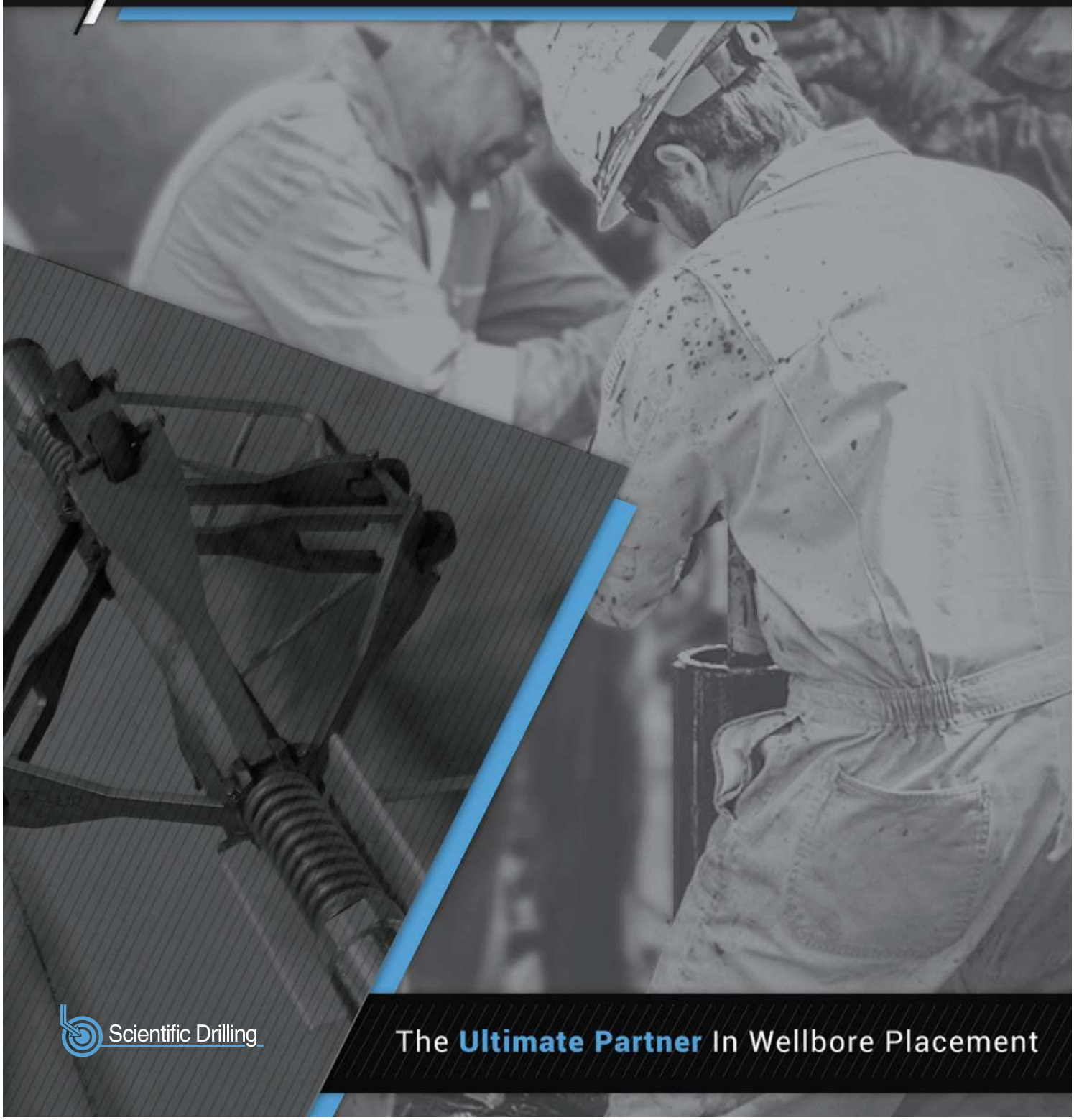
FORGE ENERGY

SURVEY REPORT

UL 20 FLATHEAD #2H BLUE QUAIL #11 2/17/2017



Scientific Drilling

The **Ultimate Partner** In Wellbore Placement

CUSTOMER	Forge Energy	SDI JOB NO.	419028
PROJECT	Winkler County, Texas	SDI DISTRICT	Midland
FIELD	N/A	SDI KIT/UNIT	

SITE INFORMATION

Site Name	Winkler County, Texas	Section	
Lat/Long	31.7152289° N, 103.2880281° W	Township	
Northing	757,255.13 ft	Range	
Easting	1,081,303 ft		

MAP INFORMATION

North Reference	Grid North
Grid Correction	1.52 deg
System	US State Plane 1927
Datum	North American Datum 1927 (Clarke 1866)
Map Zone	Texas Central: 4203

WELL INFORMATION

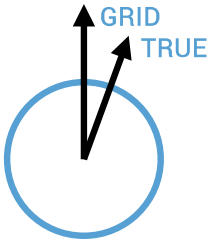
Lat/Long	31.7152289° N, 103.2880281° W
Northing	757,255.13 ft
Easting	1,081,303 ft
UWI	42-495-33782

DEPTH AND ELEVATION REFERENCE

Ground Level	2792 ft above Mean Sea Level
Reference Datum	RKB
Reference Height	25 ft above G.L.
Reference Elevation	2817 ft

VERTICAL SECTION REFERENCE

+N/-S	0 ft
+E/-W	0 ft
Proposal Direction	259.50°
Calculation Method	Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity	998.517 mG [computed]
True to Grid	add 1.52°

WELL NOTES

Drop Gyro Survey

OPERATORS

Jeffrey Loyd

SDI Operator Name (Printed) SIGNATURE DATE

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MD	INC	AZIM	TVD	VS	+N/-S	+E/-W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
84.00	0.07	75.49	84.00	-0.05	0.01	0.05	0.08	0.05	75.49
117.00	0.23	282.37	117.00	-0.01	0.03	0.00	0.91	0.03	7.59
210.00	0.23	222.14	210.00	0.32	-0.07	-0.31	0.25	0.32	257.69
360.00	0.62	265.35	360.00	1.37	-0.36	-1.33	0.32	1.38	254.82
390.00	0.64	256.20	389.99	1.70	-0.41	-1.65	0.34	1.70	255.96
420.00	0.52	265.90	419.99	2.00	-0.46	-1.95	0.50	2.01	256.66
450.00	0.54	273.76	449.99	2.28	-0.46	-2.23	0.24	2.28	258.25
472.00	0.44	276.20	471.99	2.46	-0.45	-2.42	0.43	2.46	259.50

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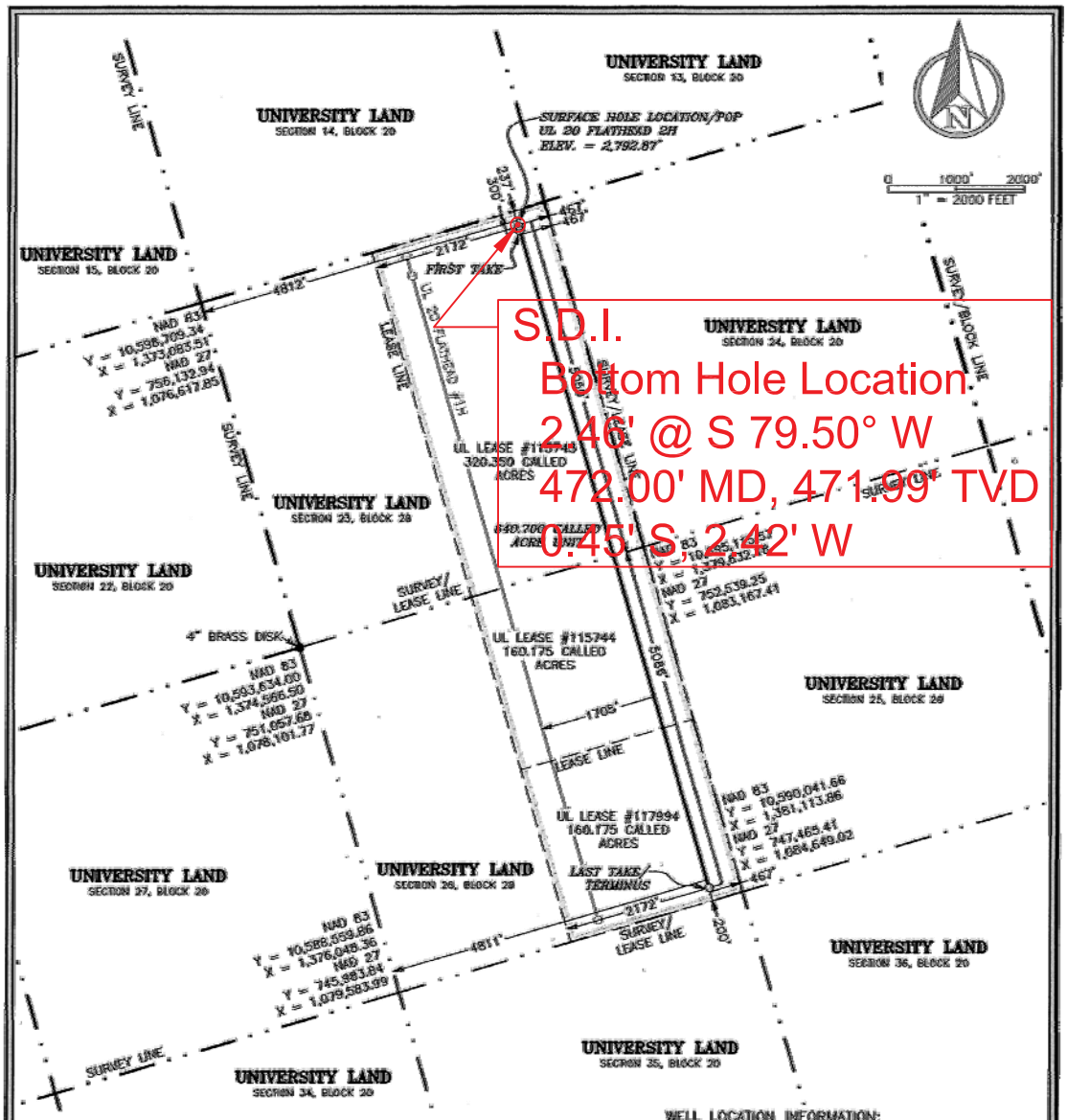


S.D.I.
Bottom Hole Location:
2.46' @ S 79.50° W
472.00' MD, 471.99' TVD
0.45' S, 2.42' W

WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION/POP:	LAST TAKE/TERMINUS LOCATION:
NAD 83, TEXAS CENTRAL ZONE COORD'S	NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,599,831.28, X = 1,377,367.28	Y = 10,590,102.34, X = 1,380,608.14
LAT: N 31.725359°, LONG: W 103.259137°	LAT: N 31.688829°, LONG: W 103.278513°
SHL: 467' FEL & 267' FNL	LP/TERMINUS: 467' FEL & 200' FSL
SHL: 467' FEL & 337' FNL	BP/TERMINUS: 467' FEL & 200' FSL
NAD 27, TEXAS CENTRAL ZONE COORD'S	NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 759,755.93, X = 1,081,308.00	Y = 742,566.29, X = 1,084,144.74
LAT: N 31.725329°, LONG: W 103.260086°	LAT: N 31.688200°, LONG: W 103.278155°
FIRST TAKE LOCATION:	
NAD 83, TEXAS CENTRAL ZONE COORD'S	
Y = 10,599,771.13, X = 1,377,344.76	
LAT: N 31.725213°, LONG: W 103.259195°	
FE: 467' FWL & 200' FNL	
NAD 27, TEXAS CENTRAL ZONE COORD'S	
Y = 759,192.98, X = 1,081,320.52	
LAT: N 31.725085°, LONG: W 103.259266°	

LEGEND

- SURVEY LINE
- CONCRETE MONUMENT WITH BRASS DISK
- LEASE LINE

DRIVING DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF STATE HIGHWAY 115 AND FM 1232 IN WINK, HEAD NORTHWEST ON FM 1232 FOR 1.5 MILES THEN TURN LEFT (WEST) ONTO CR 201. HEAD WEST ON CR 201 FOR 6.8 MILES AND TURN LEFT (SOUTH) ON A LEASE ROAD. HEAD SOUTH ON LEASE ROAD FOR 1.5 MILES AND THE LOCATION WILL BE APPROXIMATELY 0.12 MILES ON THE RIGHT (SOUTHWEST).

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

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

STATE OF TEXAS REGISTERED MARK DILLON HARP 6445 PROFESSIONAL LAND SURVEYOR

GENERAL NOTES

1. COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE 4203
2. VERTICAL DATUM IS NAVD 88
3. LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
4. AREA, DISTANCES, AND COORDINATES ARE "GRID".
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. 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".

PLAT OF:
A PROPOSED WELL LOCATION FOR:
FORGE ENERGY
UL 20 FLATHEAD 2H

SITUATED IN THE UNIVERSITY LAND, SECTION 23, BLOCK 20, THE UNIVERSITY LAND, SECTION 26, BLOCK 20, AND BEING APPROXIMATELY 8.9 MILES SOUTHWEST OF WINK IN WINKLER COUNTY, TEXAS.

FSC INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 12957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	01/31/2017
DRAWN BY:	AP/RP
CHECKED BY:	DH
FIELD CREW:	BC/DG
PROJECT NO:	201600522
SCALE:	1" = 2000'
SHEET:	1
REVISION:	2

Scientific Drilling

Scientific Drilling International, Inc.
325 S. Faudree Rd. • Odessa, Texas 79761
P. O. Box 9699 • Midland, Texas 79708
Tel: 432-689-5600 • Fax: 432-697-0324

State of Texas
County of Midland

I, Jeffrey Loyd, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 02/17/2017 through 02/17/2017 conduct or supervise the taking of a Keeper Gyro survey from a depth of 84 feet to a depth of 472 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of Forge Energy for the UL 20 Flathead #2H Well, API# 42-495-33782 in Winkler County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

Field Technician

Weatherford®
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

RAILROAD COMMISSION OF TEXAS
Oil & Gas Division
P.O. Drawer 12967
Capitol Station
Austin, TX 78711-2967

Date: April 25, 2017

Attention: Pam Johns

Re: Forge Energy
Well: UL 20 Flathead 2H
RRC Lease/Gas ID No. N/A-
UNIVERSITY LANDS., Survey A-
Winkler County Texas

API# 42-495-33782

Enclosed, please find the survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Obinna Nwachukwu MWD Supervisor	2H	612 MD 19453MD	3/18/2017 4/22/2017	Measurement While Drilling

A certified plat on which the bottom-hole location is oriented both to the surface location and to the lease lines (or unit line in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Jonathan Leger
MWD Ops. Coordinator

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER	DATE PERMIT ISSUED OR AMENDED	DISTRICT
822324	Feb 01, 2017	* 08
API NUMBER	FORM W-1 RECEIVED	COUNTY
42-495-33782	Jan 20, 2017	WINKLER
TYPE OF OPERATION	WELLBORE PROFILE(S)	ACRES
NEW DRILL	Horizontal	640.7

OPERATOR 276868

FORGE ENERGY, LLC

10999 IH 10 WEST SUITE 900
SAN ANTONIO, TX 78230-0000

NOTICE
This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored.
District Office Telephone No:
(432) 684-5581

LEASE NAME	WELL NUMBER
UL 20 FLATHEAD	2H
LOCATION	TOTAL DEPTH
8.9 miles SW direction from WINK	13000

Section, Block and/or Survey

SECTION 23 BLOCK 20 ABSTRACT

SURVEY UNIVERSITY LANDS

DISTANCE TO SURVEY LINES	DISTANCE TO NEAREST LEASE LINE
467 ft. EAST 237 ft. NORTH	200 ft.
DISTANCE TO LEASE LINES	DISTANCE TO NEAREST WELL ON LEASE
467 ft. EAST 237 ft. NORTH	See FIELD(s) Below

FIELD(s) and LIMITATIONS:

* SEE FIELD DISTRICT FOR REPORTING PURPOSES *

FIELD NAME / LEASE NAME	ACRES / NEAREST LEASE	DEPTH	WELL # / NEAREST WE	DIST
PHANTOM (WOLFCAMP)	640.70	13,000	2H	08
UL 20 FLATHEAD	200		1705	

WELLBORE PROFILE(s) FOR FIELD: Horizontal

RESTRICTIONS: This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.

```
Lateral: TH1
Penetration Point Location
  Lease Lines:        467.0 F EAST L
                      237.0 F NORTH L
Terminus Location
  BH County: WINKLER
  Section: 23            Block: 20              Abstract:
  Survey: UNIVERSITY LANDS
  Lease Lines:        467.0 F EAST L
                      200.0 F SOUTH L
  Survey Lines:       467.0 F EAST L
                      200.0 F SOUTH L
```

THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER	DATE PERMIT ISSUED OR AMENDED	DISTRICT
822324	Feb 01, 2017	* 08
API NUMBER	FORM W-1 RECEIVED	COUNTY
42-495-33782	Jan 20, 2017	WINKLER
TYPE OF OPERATION	WELLBORE PROFILE(S)	ACRES
NEW DRILL	Horizontal	640.7

OPERATOR 276868

FORGE ENERGY, LLC

10999 IH 10 WEST SUITE 900
SAN ANTONIO, TX 78230-0000

NOTICE
This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored.
District Office Telephone No:
(432) 684-5581

LEASE NAME	WELL NUMBER
UL 20 FLATHEAD	2H
LOCATION	TOTAL DEPTH
8.9 miles SW direction from WINK	13000

Section, Block and/or Survey

SECTION 23 BLOCK 20 ABSTRACT

SURVEY UNIVERSITY LANDS

DISTANCE TO SURVEY LINES	DISTANCE TO NEAREST LEASE LINE
467 ft. EAST 237 ft. NORTH	200 ft.
DISTANCE TO LEASE LINES	DISTANCE TO NEAREST WELL ON LEASE
467 ft. EAST 237 ft. NORTH	See FIELD(s) Below

FIELD(s) and LIMITATIONS:

* SEE FIELD DISTRICT FOR REPORTING PURPOSES *

FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH	WELL # NEAREST WE	DIST

This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.

This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.

The designated interval for one or more of the fields approved in this permit appears to overlap with the designated interval of another field or fields in this district. In the case of conflicting designated intervals you will be required to be consistent in field designation on this lease. Further, if the designated interval overlap of wells on this lease results in an actual or potential double assignment of reservoir and the applicant cannot conclusively demonstrate that there is no double assignment, the permitted well may not be assigned an allowable until the conflict is resolved. Because of the overlapping designated intervals in this area, issuance of this permit does not guarantee that the completion of the well will be approved or that the well will receive an allowable in any given field, even if that field is listed on the approved permit application.

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION

SWR #13 Formation Data

WINKLER (495) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	725	725	possible flow; possible usable quality water	1	12/17/2013
COLBY-QUEEN	2,900	3,200		2	12/17/2013
YATES	2,280	3,200		3	12/17/2013
QUEEN-SEVEN RIVERS	2,700	3,400		4	12/17/2013
SAN ANDRES	3,600	4,400	high flows, H2S, corrosive	5	12/17/2013
HOLT	4,500	4,800		6	12/17/2013
DELAWARE	4,300	5,000		7	12/17/2013
GLORIETA	4,900	5,600		8	12/17/2013
CLEARFORK	4,750	6,200		9	12/17/2013
WICHITA ALBANY	6,600	6,850		10	12/17/2013
BRUSHY CANYON	7,300	7,300		11	12/17/2013
CHERRY CANYON	6,000	7,800		12	12/17/2013
CANYON	8,400	8,400		13	12/17/2013
BONE SPRINGS	9,000	9,800		14	12/17/2013
MONTOYA	10,300	10,300		15	12/17/2013
WADDELL	11,000	11,000		16	12/17/2013
WOLFCAMP	7,600	12,400		17	12/17/2013
ATOKA	12,900	12,900		18	12/17/2013
STRAWN	8,100	14,800		19	12/17/2013
PENNSYLVANIAN	8,000	15,500		20	12/17/2013
MISSISSIPPIAN	10,200	17,300		21	12/17/2013
DEVONIAN	7,900	17,800		22	12/17/2013
SILURIAN	8,500	18,000		23	12/17/2013
FUSSELMAN	9,700	18,800		24	12/17/2013
ELLENBURGER	9,500	21,400		25	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information.
http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info

5D Survey Report

Forge Energy

Field Name: *Forge-Winkler Co, TX Nad 27 TCZ*
Site Name: *UL 20 Flathead 2H*
Well Name: *UL 20 Flathead 2H*
Survey: *Definitive survey*

25 April 2017

UL 20 Flathead 2H

Field Name: Forge-Winkler Co, TX Nad 27 TCZ

Map Units: US ft **Company Name:** Forge Energy

Vertical Reference Datum (VRD): Mean Sea Level

Projected Coordinate System: NAD27 / Texas Central

Comment:

Site: UL 20 Flathead 2H

Units: US ft **North Reference:** Grid **Convergence Angle:** -1.52

Position: **Northing:** 757255.13 US ft **Latitude:** 31° 42' 54.82"

Easting: 1081303.00 US ft **Longitude:** -103° 17' 16.90"

Elevation above MSL: 2793.00 US ft

Comment:

Slot: UL 20 Flathead 2H

Position (Relative to Site Centre)

+N/-S: 0.00 US ft **Northing:** 757255.13 US ft **Latitude:** 31°42'54.82"

+E/-W: 0.00 US ft **Easting:** 1081303.00 US ft **Longitude:** -103°17'16.90"

Elevation above MSL: 2793.00 US ft

Comment:

Well: UL 20 Flathead 2H

Type: Main well **UWI:**

File Number: **Comment:**

Closure Distance: 7492.08US ft **Closure Azimuth:** 163.72°

Vertical Section: Position of Origin (Relative to Slot centre)

+N/-S: -0.00 US ft **+E/-W:** 0.00 US ft **Az:** 163.72°

Drill floor: Survey Name: Definitive Survey

Rig Height (Well TVD Reference): 25.00US ft **Elevation above MSL:** 2818.00US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 06/Mar/2017 **Survey Tool:** *See Survey Tool Ranges below.* **Comment:** **Company:**

Magnetic Model:

Model Name: bggm2016 **Date:** 20/Mar/2017 **Field Strength:** 47767.3nT **Declination:** 6.92° **Dip:** 59.66°

Tie Point:

MD: 0.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00 US ft **North Offset:** -0.00 US ft **East Offset:** 0.00 US ft

Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
GYRO-NS_OW	0.00	472.00	Gyro
MWD	472.00	5067.00	Wft MWD Svy (1)
MWD	5067.00	8620.00	Wft MWD Svy (2)
MWD	8620.00	8999.00	Wft MWD Svy (3)
MWD	8999.00	9323.00	Wft MWD Svy (4)
MWD	9323.00	9586.00	Wft MWD Svy (5)

Survey Tool Ranges:

Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	9586.00	9757.00	Wft MWD Svy (6)
MWD	9757.00	11492.00	Wft MWD Svy (7)
MWD	11492.00	11967.00	1-C
MWD	11967.00	12062.00	3-C
MWD	12062.00	14667.00	4-C
MWD	14667.00	19476.00	WFT LWD Svy (12)

Casing Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
5135.00	0.33	201.06	5134.53	11.53	-1.97	757266.66	1081301.03	9 5/8 in
12035.00	37.21	154.41	11996.05	-165.32	48.05	757089.81	1081351.05	7 in

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
472.00	0.44	276.20	471.99	-0.25	-0.45	-2.42	757254.68	1081300.58	2.46	259.53	Tie On Gyro
612.00	0.58	307.17	611.98	-1.02	0.04	-3.52	757255.17	1081299.48	3.52	270.65	First Wft Svy
793.00	0.69	296.36	792.97	-2.50	1.08	-5.22	757256.21	1081297.78	5.33	281.65	
974.00	0.56	288.76	973.96	-3.74	1.85	-7.04	757256.98	1081295.96	7.27	284.70	
1156.00	0.64	302.67	1155.95	-5.02	2.68	-8.73	757257.81	1081294.27	9.14	287.06	
1345.00	0.70	326.17	1344.94	-6.92	4.21	-10.26	757259.34	1081292.74	11.09	292.30	
1535.00	0.70	325.34	1534.93	-9.13	6.13	-11.57	757261.26	1081291.43	13.09	297.90	
1724.00	0.79	334.17	1723.91	-11.51	8.25	-12.80	757263.38	1081290.20	15.22	302.81	
1913.00	0.78	329.34	1912.89	-14.04	10.53	-14.02	757265.66	1081288.98	17.53	306.91	
2103.00	0.84	350.55	2102.87	-16.67	13.02	-14.91	757268.15	1081288.09	19.79	311.13	
2292.00	0.98	9.86	2291.85	-19.50	15.97	-14.86	757271.10	1081288.14	21.82	317.07	
2482.00	1.26	18.74	2481.81	-22.67	19.55	-13.91	757274.68	1081289.09	24.00	324.58	
2671.00	1.54	23.09	2670.76	-26.33	23.86	-12.24	757278.99	1081290.76	26.82	332.83	
2861.00	0.60	236.34	2860.74	-28.01	25.66	-12.07	757280.79	1081290.93	28.35	334.80	
3050.00	0.30	236.53	3049.73	-27.57	24.83	-13.31	757279.96	1081289.69	28.17	331.81	
3239.00	0.25	108.81	3238.73	-27.19	24.43	-13.33	757279.56	1081289.67	27.83	331.38	
3429.00	0.16	233.63	3428.73	-26.86	24.14	-13.15	757279.27	1081289.85	27.49	331.42	
3618.00	0.78	249.46	3617.72	-26.67	23.53	-14.57	757278.66	1081288.43	27.67	328.24	
3808.00	0.56	192.94	3807.71	-25.76	22.17	-15.99	757277.30	1081287.01	27.33	324.20	
3997.00	0.70	132.83	3996.70	-23.97	20.49	-15.35	757275.62	1081287.65	25.60	323.16	
4186.00	0.76	119.43	4185.69	-22.08	19.08	-13.41	757274.21	1081289.59	23.32	324.91	
4376.00	0.63	135.14	4375.67	-20.26	17.73	-11.58	757272.86	1081291.42	21.17	326.85	
4565.00	1.34	112.62	4564.65	-17.96	16.14	-8.80	757271.27	1081294.20	18.38	331.39	
4755.00	1.85	105.72	4754.57	-14.94	14.45	-3.80	757269.58	1081299.20	14.94	345.27	
4945.00	0.56	211.54	4944.54	-12.69	12.83	-1.33	757267.96	1081301.67	12.90	354.07	
5067.00	0.40	203.04	5066.53	-11.96	11.93	-1.81	757267.06	1081301.19	12.07	351.37	
5135.00	0.33	201.06	5134.53	-11.62	11.53	-1.97	757266.66	1081301.03	11.70	350.29	9 5/8 in
5208.00	0.25	197.66	5207.53	-11.32	11.18	-2.10	757266.31	1081300.90	11.38	349.38	
5398.00	0.38	179.86	5397.53	-10.38	10.16	-2.22	757265.29	1081300.78	10.40	347.67	
5587.00	0.49	203.69	5586.52	-9.15	8.79	-2.54	757263.92	1081300.46	9.15	343.86	
5777.00	0.60	229.04	5776.51	-8.12	7.40	-3.62	757262.53	1081299.38	8.24	333.91	
5966.00	1.05	224.34	5965.49	-6.85	5.51	-5.58	757260.64	1081297.42	7.84	314.64	
6156.00	0.70	218.56	6155.47	-5.33	3.36	-7.52	757258.49	1081295.48	8.24	294.06	
6345.00	0.94	231.26	6344.45	-4.07	1.48	-9.45	757256.61	1081293.55	9.56	278.93	
6535.00	1.00	234.10	6534.43	-2.92	-0.46	-12.01	757254.67	1081290.99	12.02	267.79	
6725.00	0.99	243.40	6724.40	-2.07	-2.17	-14.82	757252.96	1081288.18	14.98	261.67	
6914.00	1.16	244.60	6913.36	-1.47	-3.72	-18.01	757251.41	1081284.99	18.39	258.32	
7104.00	1.26	224.60	7103.32	-0.15	-6.03	-21.21	757249.10	1081281.79	22.05	254.12	
7294.00	1.24	227.18	7293.28	1.78	-8.92	-24.19	757246.21	1081278.81	25.78	249.76	
7483.00	1.00	206.85	7482.24	3.90	-11.78	-26.43	757243.35	1081276.57	28.94	245.98	
7673.00	1.23	223.83	7672.21	6.13	-14.73	-28.59	757240.40	1081274.41	32.16	242.74	

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

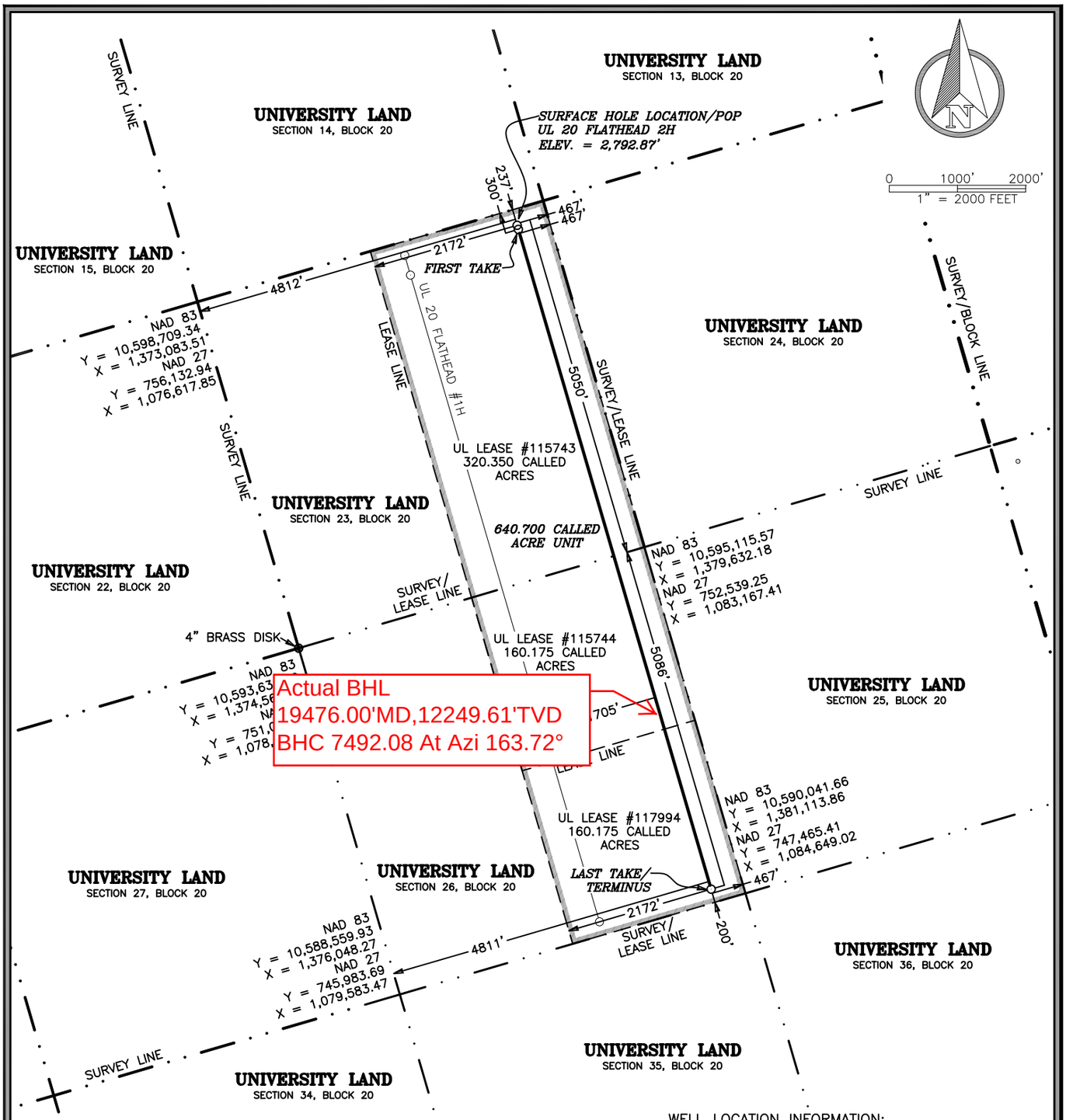
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
7862.00	1.35	219.06	7861.16	8.40	-17.92	-31.40	757237.21	1081271.60	36.15	240.28	
8052.00	1.51	218.83	8051.10	11.11	-21.61	-34.38	757233.52	1081268.62	40.61	237.85	
8241.00	0.56	219.15	8240.07	13.06	-24.27	-36.52	757230.86	1081266.48	43.85	236.40	
8431.00	1.24	225.74	8430.04	14.55	-26.42	-38.58	757228.71	1081264.42	46.76	235.60	
8620.00	1.79	241.17	8618.98	16.15	-29.27	-42.63	757225.86	1081260.37	51.72	235.52	
8810.00	1.12	255.21	8808.91	16.74	-31.18	-47.03	757223.95	1081255.97	56.42	236.46	
8999.00	2.87	235.47	8997.79	18.18	-34.33	-52.71	757220.80	1081250.29	62.91	236.92	
9094.00	1.89	255.04	9092.71	18.89	-36.08	-56.19	757219.05	1081246.81	66.77	237.29	
9189.00	0.91	302.39	9187.68	18.28	-36.09	-58.34	757219.04	1081244.66	68.59	238.26	
9323.00	1.06	342.89	9321.67	16.25	-34.33	-59.60	757220.80	1081243.40	68.78	240.06	
9473.00	1.25	0.27	9471.64	13.29	-31.37	-60.00	757223.76	1081243.00	67.70	242.40	
9586.00	1.27	63.78	9584.61	11.89	-29.58	-58.87	757225.55	1081244.13	65.88	243.32	
9757.00	1.45	70.57	9755.57	11.45	-28.03	-55.13	757227.10	1081247.87	61.84	243.05	
9851.00	1.84	78.80	9849.53	11.52	-27.34	-52.53	757227.79	1081250.47	59.22	242.51	
10041.00	2.66	48.96	10039.39	9.94	-23.85	-46.21	757231.28	1081256.79	52.00	242.70	
10231.00	2.95	13.01	10229.17	3.83	-16.19	-41.78	757238.94	1081261.22	44.81	248.82	
10420.00	1.78	26.73	10418.01	-2.56	-8.83	-39.37	757246.30	1081263.63	40.35	257.36	
10610.00	1.48	359.96	10607.93	-7.07	-3.74	-38.04	757251.39	1081264.96	38.23	264.38	
10800.00	0.94	159.15	10797.92	-7.88	-2.74	-37.49	757252.39	1081265.51	37.59	265.82	
10990.00	1.59	154.87	10987.87	-3.72	-6.59	-35.82	757248.54	1081267.18	36.42	259.58	
11179.00	2.68	179.30	11176.74	3.13	-13.38	-34.65	757241.75	1081268.35	37.14	248.89	
11369.00	1.82	175.17	11366.59	10.37	-20.83	-34.34	757234.30	1081268.66	40.16	238.76	
11492.00	1.75	171.67	11489.53	14.14	-24.63	-33.90	757230.50	1081269.10	41.91	234.00	
11538.00	1.84	169.32	11535.51	15.57	-26.05	-33.66	757229.08	1081269.34	42.57	232.26	
11570.00	2.94	163.23	11567.48	16.90	-27.34	-33.33	757227.79	1081269.67	43.11	230.64	
11601.00	5.34	164.99	11598.40	19.14	-29.50	-32.73	757225.63	1081270.27	44.06	227.97	
11633.00	7.76	159.63	11630.19	22.78	-32.96	-31.59	757222.17	1081271.41	45.66	223.78	
11665.00	9.43	156.40	11661.83	27.54	-37.39	-29.79	757217.74	1081273.21	47.81	218.55	
11696.00	11.78	151.30	11692.30	33.15	-42.49	-27.25	757212.64	1081275.75	50.48	212.67	
11728.00	14.76	148.30	11723.44	40.27	-48.83	-23.54	757206.30	1081279.46	54.21	205.74	
11759.00	17.71	147.18	11753.20	48.60	-56.15	-18.91	757198.98	1081284.09	59.25	198.61	
11791.00	20.20	149.19	11783.46	58.61	-64.99	-13.44	757190.14	1081289.56	66.36	191.69	
11823.00	22.65	149.70	11813.25	69.94	-75.06	-7.50	757180.07	1081295.50	75.43	185.71	
11854.00	24.70	149.18	11841.64	82.00	-85.77	-1.17	757169.36	1081301.83	85.78	180.78	
11886.00	26.53	148.44	11870.49	95.37	-97.60	6.00	757157.53	1081309.00	97.79	176.49	
11917.00	29.16	146.59	11897.90	109.27	-109.81	13.78	757145.32	1081316.78	110.67	172.85	
11949.00	31.81	145.24	11925.47	124.72	-123.25	22.88	757131.88	1081325.88	125.36	169.48	
11967.00	33.66	145.31	11940.62	133.96	-131.25	28.43	757123.88	1081331.43	134.29	167.78	
12035.00	37.21	154.41	11996.05	172.16	-165.32	48.05	757089.81	1081351.05	172.16	163.79	7 in
12037.00	37.32	154.65	11997.64	173.36	-166.41	48.57	757088.72	1081351.57	173.36	163.73	
12062.00	36.58	155.62	12017.62	188.22	-180.05	54.89	757075.08	1081357.89	188.23	163.04	
12106.00	36.10	157.36	12053.07	214.08	-203.95	65.30	757051.18	1081368.30	214.15	162.25	
12138.00	38.31	161.94	12078.56	233.37	-222.09	72.00	757033.04	1081375.00	233.47	162.04	
12170.00	41.18	164.78	12103.16	253.82	-241.69	77.84	757013.44	1081380.84	253.92	162.15	
12201.00	44.42	166.34	12125.90	274.87	-262.09	83.09	756993.04	1081386.09	274.94	162.41	
12233.00	47.79	167.32	12148.09	297.89	-284.54	88.33	756970.59	1081391.33	297.93	162.75	
12264.00	51.21	167.46	12168.22	321.41	-307.54	93.48	756947.59	1081396.48	321.43	163.09	
12296.00	54.60	165.27	12187.52	346.90	-332.33	99.50	756922.80	1081402.50	346.91	163.33	
12328.00	58.03	164.77	12205.26	373.52	-358.05	106.39	756897.08	1081409.39	373.52	163.45	
12359.00	60.78	165.54	12221.04	400.19	-383.84	113.22	756871.29	1081416.22	400.19	163.57	
12391.00	63.39	165.77	12236.02	428.45	-411.24	120.23	756843.89	1081423.23	428.45	163.70	
12422.00	65.67	166.50	12249.35	456.41	-438.41	126.93	756816.72	1081429.93	456.41	163.85	
12454.00	68.14	166.58	12261.90	485.81	-467.03	133.78	756788.10	1081436.78	485.81	164.02	
12486.00	70.11	166.86	12273.30	515.67	-496.13	140.65	756759.00	1081443.65	515.68	164.17	
12517.00	71.73	166.50	12283.44	544.92	-524.64	147.40	756730.49	1081450.40	544.95	164.31	
12549.00	73.43	165.79	12293.02	575.43	-554.28	154.71	756700.85	1081457.71	575.47	164.40	
12580.00	74.65	165.26	12301.54	605.22	-583.14	162.16	756671.99	1081465.16	605.27	164.46	
12612.00	75.52	164.78	12309.78	636.13	-613.01	170.15	756642.12	1081473.15	636.19	164.49	
12644.00	76.68	164.21	12317.46	667.19	-642.94	178.46	756612.19	1081481.46	667.25	164.49	

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
12675.00	78.00	163.61	12324.26	697.43	-672.00	186.84	756583.13	1081489.84	697.49	164.46	
12707.00	79.88	163.06	12330.40	728.84	-702.09	195.85	756553.04	1081498.85	728.89	164.41	
12738.00	81.95	162.10	12335.29	759.44	-731.29	205.01	756523.84	1081508.01	759.48	164.34	
12770.00	83.33	162.38	12339.39	791.17	-761.51	214.69	756493.62	1081517.69	791.20	164.26	
12802.00	85.12	162.63	12342.61	822.99	-791.88	224.26	756463.25	1081527.26	823.02	164.19	
12833.00	86.42	163.04	12344.90	853.91	-821.42	233.39	756433.71	1081536.39	853.93	164.14	
12865.00	88.09	163.07	12346.43	885.87	-851.99	242.70	756403.14	1081545.70	885.88	164.10	
12896.00	90.49	163.08	12346.81	916.86	-881.64	251.73	756373.49	1081554.73	916.88	164.06	
12927.00	90.80	163.02	12346.46	947.85	-911.29	260.76	756343.84	1081563.76	947.87	164.03	
12959.00	89.88	162.70	12346.27	979.85	-941.87	270.19	756313.26	1081573.19	979.86	163.99	
13053.00	90.25	162.93	12346.17	1073.84	-1031.68	297.97	756223.45	1081600.97	1073.84	163.89	
13148.00	89.63	162.29	12346.27	1168.82	-1122.33	326.36	756132.80	1081629.36	1168.82	163.79	
13243.00	89.88	162.90	12346.67	1263.80	-1212.98	354.77	756042.15	1081657.77	1263.80	163.70	
13338.00	90.25	162.13	12346.56	1358.78	-1303.59	383.32	755951.54	1081686.32	1358.78	163.61	
13433.00	89.38	161.59	12346.87	1453.73	-1393.87	412.89	755861.26	1081715.89	1453.74	163.50	
13529.00	89.20	160.50	12348.06	1549.61	-1484.65	444.07	755770.48	1081747.07	1549.65	163.35	
13624.00	89.07	162.30	12349.50	1644.52	-1574.68	474.37	755680.45	1081777.37	1644.58	163.24	
13718.00	89.20	162.33	12350.91	1738.48	-1664.23	502.92	755590.90	1081805.92	1738.56	163.19	
13813.00	89.51	163.10	12351.98	1833.46	-1754.93	531.15	755500.20	1081834.15	1833.55	163.16	
13909.00	92.16	165.26	12350.58	1929.43	-1847.27	557.31	755407.86	1081860.31	1929.51	163.21	
14003.00	91.42	165.10	12347.65	2023.35	-1938.10	581.35	755317.03	1081884.35	2023.41	163.30	
14098.00	91.36	164.92	12345.34	2118.30	-2029.84	605.91	755225.29	1081908.91	2118.34	163.38	
14193.00	90.99	163.99	12343.40	2213.27	-2121.34	631.36	755133.79	1081934.36	2213.30	163.43	
14287.00	93.39	163.59	12339.80	2307.20	-2211.53	657.58	755043.60	1081960.58	2307.23	163.44	
14383.00	91.85	162.94	12335.42	2403.09	-2303.37	685.20	754951.76	1081988.20	2403.12	163.43	
14478.00	90.19	163.91	12333.72	2498.07	-2394.40	712.29	754860.73	1082015.29	2498.10	163.43	
14572.00	90.31	163.18	12333.31	2592.07	-2484.55	738.92	754770.58	1082041.92	2592.10	163.44	
14667.00	90.25	162.43	12332.85	2687.05	-2575.30	767.00	754679.83	1082070.00	2687.09	163.41	
14762.00	87.53	162.57	12334.69	2782.01	-2665.88	795.56	754589.25	1082098.56	2782.05	163.38	
14857.00	89.20	163.70	12337.40	2876.96	-2756.75	823.11	754498.38	1082126.11	2877.01	163.38	
14951.00	90.80	165.16	12337.40	2970.94	-2847.30	848.34	754407.83	1082151.34	2970.99	163.41	
15046.00	92.96	166.94	12334.28	3065.81	-2939.44	871.23	754315.69	1082174.23	3065.83	163.49	
15140.00	91.11	166.91	12330.95	3159.60	-3030.94	892.48	754224.19	1082195.48	3159.60	163.59	
15235.00	91.36	166.03	12328.90	3254.46	-3123.28	914.70	754131.85	1082217.70	3254.46	163.68	
15330.00	91.91	166.68	12326.19	3349.32	-3215.56	937.10	754039.57	1082240.10	3349.32	163.75	
15424.00	89.38	165.52	12325.13	3443.23	-3306.79	959.68	753948.34	1082262.68	3443.23	163.82	
15519.00	90.97	165.17	12324.84	3538.18	-3398.70	983.71	753856.43	1082286.71	3538.20	163.86	
15614.00	91.30	164.56	12322.96	3633.15	-3490.38	1008.51	753764.75	1082311.51	3633.16	163.88	
15709.00	89.01	164.27	12322.70	3728.13	-3581.88	1034.03	753673.25	1082337.03	3728.15	163.90	
15804.00	90.43	163.43	12323.17	3823.13	-3673.13	1060.46	753582.00	1082363.46	3823.15	163.90	
15899.00	88.09	160.38	12324.39	3918.05	-3763.41	1089.95	753491.72	1082392.95	3918.06	163.85	
15994.00	89.94	160.98	12326.03	4012.90	-3853.04	1121.38	753402.09	1082424.38	4012.90	163.77	
16089.00	93.58	165.37	12323.11	4107.81	-3943.89	1148.85	753311.24	1082451.85	4107.82	163.76	
16183.00	90.68	164.46	12319.61	4201.72	-4034.58	1173.30	753220.55	1082476.30	4201.72	163.79	
16278.00	93.08	167.02	12316.50	4296.59	-4126.59	1196.68	753128.54	1082499.68	4296.60	163.83	
16373.00	91.60	165.22	12312.62	4391.42	-4218.73	1219.45	753036.40	1082522.45	4391.44	163.88	
16468.00	90.80	162.63	12310.63	4486.39	-4309.99	1245.75	752945.14	1082548.75	4486.41	163.88	
16563.00	90.26	162.00	12309.75	4581.36	-4400.49	1274.61	752854.64	1082577.61	4581.37	163.85	
16657.00	90.86	162.81	12308.83	4675.33	-4490.09	1303.02	752765.04	1082606.02	4675.34	163.82	
16752.00	90.80	163.24	12307.45	4770.31	-4580.94	1330.75	752674.19	1082633.75	4770.32	163.80	
16847.00	91.29	162.96	12305.72	4865.29	-4671.82	1358.37	752583.31	1082661.37	4865.29	163.79	
16942.00	90.97	161.64	12303.85	4960.24	-4762.31	1387.24	752492.82	1082690.24	4960.24	163.76	
17036.00	91.48	161.60	12301.84	5054.16	-4851.49	1416.88	752403.64	1082719.88	5054.16	163.72	
17131.00	91.66	162.20	12299.24	5149.07	-4941.75	1446.38	752313.38	1082749.38	5149.07	163.69	
17226.00	90.99	162.10	12297.04	5244.01	-5032.16	1475.49	752222.97	1082778.49	5244.01	163.66	
17321.00	92.16	162.92	12294.43	5338.95	-5122.73	1504.03	752132.40	1082807.03	5338.96	163.64	
17415.00	88.95	164.20	12293.52	5432.93	-5212.87	1530.63	752042.26	1082833.63	5432.94	163.64	
17510.00	88.68	164.11	12295.48	5527.91	-5304.24	1556.56	751950.89	1082859.56	5527.91	163.65	
17605.00	88.89	163.62	12297.50	5622.89	-5395.48	1582.96	751859.65	1082885.96	5622.89	163.65	

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Clos.Dist (US ft)	Clos.Az (°)	Comment
17699.00	90.99	164.93	12297.60	5716.87	-5485.95	1608.43	751769.18	1082911.43	5716.88	163.66	
17794.00	90.12	164.16	12296.67	5811.86	-5577.51	1633.74	751677.62	1082936.74	5811.86	163.67	
17889.00	89.38	163.23	12297.09	5906.86	-5668.69	1660.42	751586.44	1082963.42	5906.86	163.67	
17984.00	90.12	163.65	12297.50	6001.85	-5759.74	1687.49	751495.39	1082990.49	6001.86	163.67	
18079.00	89.32	162.70	12297.97	6096.85	-5850.67	1714.99	751404.46	1083017.99	6096.85	163.66	
18174.00	91.59	162.88	12297.21	6191.82	-5941.41	1743.09	751313.72	1083046.09	6191.83	163.65	
18269.00	91.48	163.90	12294.67	6286.79	-6032.41	1770.24	751222.72	1083073.24	6286.79	163.65	
18364.00	94.50	165.05	12289.71	6381.64	-6123.81	1795.63	751131.32	1083098.63	6381.64	163.66	
18459.00	89.14	163.58	12286.70	6476.55	-6215.19	1821.29	751039.94	1083124.29	6476.55	163.67	
18554.00	92.12	163.58	12285.65	6571.53	-6306.30	1848.14	750948.83	1083151.14	6571.53	163.67	
18648.00	91.60	162.30	12282.60	6665.47	-6396.11	1875.70	750859.02	1083178.70	6665.47	163.66	
18743.00	89.75	161.33	12281.48	6760.41	-6486.36	1905.35	750768.77	1083208.35	6760.41	163.63	
18838.00	91.91	161.98	12280.11	6855.33	-6576.51	1935.24	750678.62	1083238.24	6855.34	163.60	
18932.00	95.25	163.86	12274.24	6949.12	-6666.18	1962.80	750588.95	1083265.80	6949.13	163.59	
19027.00	93.33	163.34	12267.13	7043.85	-6757.05	1989.54	750498.08	1083292.54	7043.86	163.59	
19122.00	91.67	164.46	12262.99	7138.75	-6848.23	2015.86	750406.90	1083318.86	7138.77	163.60	
19217.00	92.28	167.26	12259.71	7233.62	-6940.29	2039.05	750314.84	1083342.05	7233.63	163.63	
19312.00	93.27	167.66	12255.11	7328.30	-7032.91	2059.65	750222.22	1083362.65	7328.31	163.68	
19407.00	91.91	164.94	12250.82	7423.10	-7125.11	2082.13	750130.02	1083385.13	7423.10	163.71	
19453.00	90.55	164.00	12249.83	7469.08	-7169.41	2094.44	750085.72	1083397.44	7469.08	163.72	Last Wft Svy
19476.00	90.55	164.00	12249.61	7492.08	-7191.52	2100.78	750063.61	1083403.78	7492.08	163.72	PTB



Actual BHL
19476.00'MD,12249.61'TVD
BHC 7492.08 At Azi 163.72°

WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION/PP:	LAST TAKE/TERMINUS LOCATION:
NAD 83, TEXAS CENTRAL ZONE COORD'S	NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,599,831.28, X = 1,377,767.28	Y = 10,590,102.31, X = 1,380,609.14
LAT: N 31.715357°, LONG: W 103.288477°	LAT: N 31.688829°, LONG: W 103.278513°
SHL: 467' FEL & 237' FNL	LT/TERMINUS: 467' FEL & 200' FSL
SHL: 467' FELL & 237' FNLL	LT/TERMINUS: 467' FELL & 200' FSLL
NAD 27, TEXAS CENTRAL ZONE COORD'S	NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 757,255.13, X = 1,081,303.00	Y = 747,526.29, X = 1,084,144.74
LAT: N 31.715229°, LONG: W 103.288028°	LAT: N 31.688700°, LONG: W 103.278065°
FIRST TAKE LOCATION:	
NAD 83, TEXAS CENTRAL ZONE COORD'S	
Y = 10,599,771.13, X = 1,377,784.79	
LAT: N 31.715193°, LONG: W 103.288416°	
FT: 467' FWLL & 300' FNLL	
NAD 27, TEXAS CENTRAL ZONE COORD'S	
Y = 757,194.98, X = 1,081,320.51	
LAT: N 31.715065°, LONG: W 103.287966°	

LEGEND

SURVEY LINE
CONCRETE MONUMENT WITH BRASS DISK
LEASE LINE

DRIVING DIRECTIONS TO LOCATION:
FROM THE INTERSECTION OF STATE HIGHWAY 115 AND FM 1232 IN WINK, HEAD NORTHWEST ON FM 1232 FOR 1.5 MILES THEN TURN LEFT (WEST) ONTO CR 201. HEAD WEST ON CR 201 FOR 6.8 MILES AND TURN LEFT (SOUTH) ON A LEASE ROAD. HEAD SOUTH ON LEASE ROAD FOR 1.5 MILES AND THE LOCATION WILL BE APPROXIMATELY 0.12 MILES ON THE RIGHT (SOUTHWEST).

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

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

STATE OF TEXAS
REGISTERED
MARK DILLON HARP
6445
PROFESSIONAL
LAND SURVEYOR

GENERAL NOTES

1. COORDINATES SHOWN ARE BASED ON TEXAS PLANE COORDINATE SYSTEM OF NAD 27, TEXAS CENTRAL ZONE 4203
2. VERTICAL DATUM IS NAVD 88
3. LATITUDE AND LONGITUDE ARE NAD 27 AS SHOWN
4. AREA, DISTANCES, AND COORDINATES ARE "GRID".
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. 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".

PLAT OF:
A PROPOSED WELL LOCATION FOR:
FORGE ENERGY
UL 20 FLATHEAD 2H

SITUATED IN THE UNIVERSITY LAND, SECTION 23, BLOCK 20, THE UNIVERSITY LAND, SECTION 26, BLOCK 20, AND BEING APPROXIMATELY 8.9 MILES SOUTHWEST OF WINK IN WINKLER 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:	10/26/2016
DRAWN BY:	AP/RP
CHECKED BY:	DH
FIELD CREW:	BK/DN
PROJECT NO:	2016100922
SCALE:	1" = 2000'
SHEET:	1
REVISION:	1

Weatherford
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

State Of Texas
County Of Winkler

I, Obinna Nwachukwu certify that I am employed by Precision Energy Services, Inc., a Weatherford Company, and on the days of 03/18/17 through 4/22/2017 I did conduct, or supervise the taking of a Measurement While Drilling survey from a depth of 612 MD ft. to a depth of 19453MD ft., that the data is true, correct, complete, and within the limitations of the tool as set forth by Weatherford; that I am authorized and qualified to make this report, that this survey was conducted at the request of: Forge Energy for the UL 20 Flathead 2H well, API Number: 42-495-33782 in Winkler County, Texas; and find that it conforms to the principles and procedures as set forth by Weatherford.

Sincerely,

Jonathan Leger
MWD Ops. Coordinator