



XTO ENERGY, INC.

**Winkler County, TX (NAD 27 True North)
University Land, Sec 13, Block 20
University BLK 20 #1307H
Wellbore #1**

Design: Wellbore #1

QES Survey Certification Report

07 July, 2017



QES Directional Drilling, LLC

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



6/5/2017

Railroad Commission of Texas
Oil and Gas Division
1701 North Congress Avenue
Austin, Texas 78711

Attention: Pam Johns

Re: XTO Energy, INC
University BLK 20 #1307H
RRC Lease/ID No.
UL
Abstract No. U14
Winkler, Texas
API No. 42-495-33710

Enclosed, please find the original and one (1) copy of the survey performed on the referenced well by QES Directional Drilling, LLC (P5#684437). Other information required by your office is as follows:

Name of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Jeremy Oyler	Original Hole	11140' - 20273'	06/9/2017-07/5/2017	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines 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,

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES, ou=compliance,
email=chrish@qeslp.com, c=US
Date: 2017.07.17 14:53:32 -05'00'

Christopher Hughes
MWD Compliance Manager
QES Directional Drilling, LLC

Enclosures
Cc: XTO Energy, INC

Company:	XTO ENERGY, INC.	Local Co-ordinate Reference:	Well University BLK 20 #1307H
Project:	Winkler County, TX (NAD 27 True North)	TVD Reference:	RKB @ 2840.0usft (Scan Producer)
Site:	University Land, Sec 13, Block 20	MD Reference:	RKB @ 2840.0usft (Scan Producer)
Well:	University BLK 20 #1307H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Project	Winkler County, TX (NAD 27 True North)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	University Land, Sec 13, Block 20		
Site Position:		Northing:	761,235.91 usft
From:	Map	Easting:	1,082,226.69 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	31° 43' 34.448 N
		Longitude:	103° 17' 7.433 W
		Grid Convergence:	-1.52 °

Well	University BLK 20 #1307H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	31° 43' 34.448 N
		Longitude:	103° 17' 7.433 W
		Ground Level:	2,813.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/2/2017	6.79	59.65	47,680

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
				0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	162.26

Survey Program	Date 7/7/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	11,140.0	GYRO Survey (Wellbore #1)	GYRO-NS	Gyrocompass Gyro
11,185.0	20,273.0	MWD Survey (Wellbore #1)	MWD	OWSG MWD - Standard

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,140.0	2.51	269.07	11,137.1	51.1	-9.7	52.0	349.25
Gyro Tie-in @ 11140.0' MD / 11137.1' TVD							
11,185.0	2.10	233.60	11,182.1	50.5	-11.3	51.8	347.36
11,279.0	3.30	231.80	11,276.0	47.9	-14.9	50.1	342.76
11,373.0	3.10	213.70	11,369.8	44.1	-18.4	47.7	337.35
11,405.0	3.30	210.70	11,401.8	42.6	-19.3	46.7	335.56
11,437.0	4.20	200.50	11,433.7	40.7	-20.2	45.4	333.56
11,468.0	5.50	190.80	11,464.6	38.1	-20.9	43.5	331.28
11,500.0	6.50	181.50	11,496.4	34.8	-21.2	40.8	328.63
11,532.0	8.00	179.90	11,528.2	30.8	-21.3	37.4	325.36
11,563.0	9.40	174.70	11,558.8	26.1	-21.0	33.5	321.14



QES Survey Certification Report



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Well:	University BLK 20 #1307H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
11,595.0	10.90	169.60	11,590.3	20.5	-20.2	28.8	315.40	
11,627.0	12.40	165.70	11,621.7	14.2	-18.9	23.6	307.03	
11,658.0	14.00	167.30	11,651.8	7.3	-17.2	18.7	293.10	
11,690.0	16.40	168.20	11,682.7	-0.9	-15.4	15.5	266.82	
11,721.0	19.30	164.60	11,712.2	-10.1	-13.2	16.6	232.58	
11,753.0	22.90	159.90	11,742.1	-21.0	-9.6	23.1	204.60	
11,784.0	26.80	157.10	11,770.2	-33.1	-4.8	33.5	188.30	
11,816.0	31.00	155.70	11,798.2	-47.3	1.4	47.3	178.35	
11,848.0	35.20	155.70	11,825.0	-63.2	8.6	63.8	172.30	
11,879.0	39.00	155.50	11,849.7	-80.3	16.3	81.9	168.53	
11,911.0	42.70	156.90	11,873.9	-99.4	24.7	102.4	166.04	
11,942.0	46.60	158.30	11,896.0	-119.5	33.0	124.0	164.57	
11,974.0	51.10	159.40	11,917.0	-142.0	41.7	148.0	163.64	
12,005.0	55.00	159.00	11,935.7	-165.2	50.5	172.7	163.00	
12,037.0	59.50	158.50	11,953.0	-190.2	60.2	199.6	162.43	
12,068.0	64.00	158.70	11,967.6	-215.7	70.2	226.8	161.97	
12,100.0	68.80	159.00	11,980.4	-243.0	80.8	256.1	161.61	
12,131.0	73.30	160.30	11,990.5	-270.5	91.0	285.4	161.41	
12,157.0	76.90	161.30	11,997.2	-294.2	99.2	310.5	161.36	
12,212.0	80.90	164.10	12,007.8	-345.7	115.3	364.4	161.56	
12,243.0	84.40	165.20	12,011.8	-375.4	123.4	395.1	161.80	
12,275.0	85.60	165.50	12,014.5	-406.2	131.5	427.0	162.07	
12,306.0	87.10	166.20	12,016.5	-436.2	139.0	457.8	162.32	
12,338.0	88.10	167.10	12,017.9	-467.3	146.4	489.7	162.60	
12,369.0	89.00	166.90	12,018.6	-497.5	153.4	520.6	162.87	
12,401.0	90.00	167.60	12,018.9	-528.7	160.4	552.5	163.12	
12,432.0	90.60	166.80	12,018.8	-558.9	167.3	583.5	163.34	
12,464.0	90.20	165.50	12,018.5	-590.0	175.0	615.4	163.48	
12,496.0	89.90	163.60	12,018.5	-620.9	183.5	647.4	163.54	
12,527.0	89.70	163.60	12,018.6	-650.6	192.2	678.4	163.54	
12,559.0	90.00	163.60	12,018.7	-681.3	201.3	710.4	163.54	
12,590.0	90.20	163.90	12,018.6	-711.1	210.0	741.4	163.55	
12,622.0	90.50	165.00	12,018.4	-741.9	218.5	773.4	163.59	
12,653.0	90.10	164.30	12,018.3	-771.8	226.7	804.4	163.63	
12,684.0	90.10	162.50	12,018.2	-801.5	235.6	835.4	163.62	
12,715.0	90.90	161.30	12,018.0	-830.9	245.2	866.4	163.56	
12,747.0	91.00	160.90	12,017.4	-861.2	255.6	898.3	163.47	
12,841.0	91.70	160.90	12,015.2	-950.0	286.3	992.2	163.23	
12,936.0	90.20	160.30	12,013.6	-1,039.6	317.9	1,087.1	163.00	
13,030.0	89.40	159.70	12,014.0	-1,127.9	350.0	1,181.0	162.76	
13,122.0	89.50	158.70	12,014.9	-1,213.9	382.7	1,272.8	162.50	
13,217.0	90.80	160.60	12,014.6	-1,303.0	415.7	1,367.7	162.30	
13,311.0	91.60	163.80	12,012.6	-1,392.5	444.5	1,461.7	162.30	
13,405.0	90.80	166.60	12,010.7	-1,483.3	468.5	1,555.5	162.47	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
13,499.0	88.50	166.90	12,011.2	-1,574.8	490.0	1,649.3	162.72	
13,593.0	90.50	170.40	12,012.1	-1,667.0	508.5	1,742.8	163.04	
13,687.0	88.20	168.50	12,013.1	-1,759.3	525.7	1,836.2	163.36	
13,781.0	88.30	168.30	12,016.0	-1,851.4	544.6	1,929.8	163.61	
13,875.0	90.50	170.60	12,017.0	-1,943.8	561.8	2,023.3	163.88	
13,969.0	88.40	166.60	12,017.9	-2,035.9	580.4	2,117.0	164.09	
14,064.0	89.30	167.30	12,019.8	-2,128.4	601.8	2,211.9	164.21	
14,158.0	91.10	167.10	12,019.5	-2,220.1	622.7	2,305.7	164.33	
14,252.0	92.00	168.30	12,016.9	-2,311.9	642.7	2,399.6	164.46	
14,347.0	88.10	164.30	12,016.8	-2,404.1	665.2	2,494.5	164.53	
14,441.0	87.30	163.80	12,020.6	-2,494.5	691.0	2,588.4	164.52	
14,535.0	89.30	164.50	12,023.4	-2,584.8	716.6	2,682.3	164.50	
14,629.0	89.00	162.40	12,024.8	-2,674.9	743.4	2,776.3	164.47	
14,724.0	89.40	162.90	12,026.1	-2,765.6	771.7	2,871.3	164.41	
14,818.0	92.30	166.10	12,024.7	-2,856.1	796.8	2,965.2	164.41	
14,912.0	91.80	163.90	12,021.4	-2,946.9	821.2	3,059.1	164.43	
15,006.0	91.90	162.20	12,018.3	-3,036.7	848.5	3,153.1	164.39	
15,101.0	91.40	161.60	12,015.6	-3,127.0	878.0	3,247.9	164.32	
15,195.0	90.80	156.90	12,013.8	-3,214.9	911.3	3,341.5	164.17	
15,288.0	91.80	157.30	12,011.7	-3,300.5	947.5	3,433.8	163.98	
15,383.0	91.30	156.70	12,009.1	-3,387.9	984.6	3,528.1	163.79	
15,477.0	92.80	159.50	12,005.7	-3,475.1	1,019.7	3,621.6	163.65	
15,571.0	91.70	161.30	12,002.1	-3,563.6	1,051.2	3,715.4	163.57	
15,665.0	91.60	161.60	11,999.3	-3,652.6	1,081.1	3,809.3	163.51	
15,760.0	91.40	160.10	11,996.9	-3,742.3	1,112.2	3,904.1	163.45	
15,853.0	91.30	159.50	11,994.7	-3,829.6	1,144.3	3,996.9	163.36	
15,947.0	91.80	159.70	11,992.1	-3,917.7	1,177.1	4,090.7	163.28	
16,041.0	91.30	159.20	11,989.6	-4,005.7	1,210.0	4,184.4	163.19	
16,135.0	90.80	158.50	11,987.9	-4,093.3	1,244.0	4,278.2	163.10	
16,229.0	91.30	159.70	11,986.1	-4,181.1	1,277.5	4,371.9	163.01	
16,323.0	91.10	156.40	11,984.2	-4,268.3	1,312.6	4,465.5	162.91	
16,417.0	92.30	158.30	11,981.4	-4,355.0	1,348.8	4,559.1	162.79	
16,511.0	90.20	158.30	11,979.3	-4,442.3	1,383.5	4,652.7	162.70	
16,606.0	93.50	162.90	11,976.3	-4,531.8	1,415.1	4,747.6	162.66	
16,725.0	92.20	160.80	11,970.3	-4,644.7	1,452.1	4,866.4	162.64	
16,819.0	91.60	162.20	11,967.2	-4,733.8	1,481.9	4,960.4	162.62	
16,914.0	93.40	162.50	11,963.1	-4,824.3	1,510.7	5,055.3	162.61	
17,008.0	93.00	163.80	11,957.8	-4,914.1	1,537.9	5,149.1	162.62	
17,102.0	92.60	163.40	11,953.2	-5,004.2	1,564.4	5,243.0	162.64	
17,197.0	92.30	162.70	11,949.2	-5,094.9	1,592.1	5,337.9	162.65	
17,291.0	92.00	161.50	11,945.7	-5,184.3	1,620.9	5,431.8	162.64	
17,385.0	91.20	162.70	11,943.0	-5,273.7	1,649.8	5,525.8	162.63	
17,480.0	90.90	162.00	11,941.3	-5,364.3	1,678.6	5,620.8	162.62	
17,574.0	91.10	162.50	11,939.6	-5,453.8	1,707.3	5,714.7	162.62	

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Well:	University BLK 20 #1307H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
17,669.0	92.00	164.10	11,937.1	-5,544.7	1,734.5	5,809.7	162.63	
17,764.0	90.20	159.50	11,935.3	-5,634.9	1,764.2	5,904.6	162.62	
17,859.0	90.80	158.00	11,934.4	-5,723.5	1,798.6	5,999.4	162.55	
17,953.0	91.80	160.10	11,932.3	-5,811.2	1,832.2	6,093.2	162.50	
18,047.0	92.90	160.80	11,928.4	-5,899.7	1,863.7	6,187.1	162.47	
18,141.0	91.00	163.10	11,925.2	-5,989.0	1,892.8	6,281.0	162.46	
18,235.0	90.10	160.80	11,924.3	-6,078.4	1,921.9	6,375.0	162.45	
18,330.0	90.60	160.40	11,923.8	-6,168.0	1,953.4	6,469.9	162.43	
18,424.0	92.50	160.80	11,921.2	-6,256.6	1,984.7	6,563.9	162.40	
18,518.0	92.10	161.60	11,917.4	-6,345.5	2,014.9	6,657.8	162.38	
18,613.0	91.40	158.50	11,914.5	-6,434.8	2,047.3	6,752.6	162.35	
18,706.0	90.80	156.90	11,912.8	-6,520.8	2,082.6	6,845.3	162.29	
18,801.0	89.80	158.10	11,912.3	-6,608.6	2,119.0	6,940.0	162.22	
18,895.0	90.90	160.40	11,911.7	-6,696.5	2,152.3	7,033.8	162.18	
18,988.0	92.00	162.70	11,909.3	-6,784.7	2,181.7	7,126.8	162.17	
19,082.0	91.90	160.90	11,906.1	-6,873.9	2,211.0	7,220.7	162.17	
19,176.0	92.30	163.20	11,902.7	-6,963.3	2,240.0	7,314.7	162.17	
19,271.0	91.70	163.80	11,899.4	-7,054.3	2,266.9	7,409.6	162.18	
19,364.0	92.90	164.30	11,895.6	-7,143.6	2,292.5	7,502.5	162.21	
19,458.0	93.00	164.50	11,890.8	-7,234.0	2,317.7	7,596.3	162.24	
19,553.0	91.50	164.30	11,887.1	-7,325.5	2,343.2	7,691.1	162.26	
19,647.0	90.20	163.60	11,885.7	-7,415.8	2,369.2	7,785.1	162.28	
19,741.0	91.20	160.90	11,884.5	-7,505.3	2,397.9	7,879.0	162.28	
19,835.0	90.20	159.90	11,883.4	-7,593.8	2,429.4	7,973.0	162.26	
19,929.0	90.30	161.30	11,883.0	-7,682.5	2,460.6	8,066.9	162.24	
20,023.0	91.80	163.60	11,881.2	-7,772.1	2,489.0	8,160.9	162.24	
20,117.0	91.60	164.30	11,878.5	-7,862.4	2,514.9	8,254.8	162.26	
20,211.0	89.40	160.40	11,877.6	-7,952.0	2,543.4	8,348.8	162.26	
20,223.0	89.40	160.40	11,877.8	-7,963.3	2,547.5	8,360.8	162.26	
20,273.0	89.40	160.40	11,878.3	-8,010.4	2,564.2	8,410.8	162.25	
TD @ 20273.0' MD / 11878.3' TVD								

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,140.0	11,137.1	51.1	-9.7	Gyro Tie-in @ 11140.0' MD / 11137.1' TVD
20,273.0	11,878.3	-8,010.4	2,564.2	TD @ 20273.0' MD / 11878.3' TVD



0 1000' 2000'
1" = 2000 FEET

SURFACE HOLE LOCATION
UNIVERSITY BLK 20 #1307H
ELEV. 2813'

UNIVERSITY LAND
SECTION 14, BLOCK 20

UNIVERSITY LAND
SECTION 23, BLOCK 20

UNIVERSITY LAND
SECTION 26, BLOCK 20

UNIVERSITY LAND
SECTION 12, BLOCK 20

UNIVERSITY LAND
SECTION 7, BLOCK 21

UNIVERSITY LAND
SECTION 18, BLOCK 21

UNIVERSITY LAND
SECTION 19, BLOCK 21

UNIVERSITY LAND
SECTION 24, BLOCK 20

UNIVERSITY LAND
SECTION 13, BLOCK 20

XTO ENERGY INC.
A PORTION OF THE
BLOCK 20 LEASE
(1381.508 CALLED ACRES)

LESSOR TABLE:		
TRACT NO.	LESSOR	CALLED ACREAGE
1	State of Texas	140.152
2	State of Texas	600.656
3	State of Texas	640.700
	TOTAL	1381.508

GENERAL NOTES

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

DRIVING DIRECTIONS TO LOCATION:

FROM WINK, HEAD WEST ON FARM TO MARKET 1232 FOR 1.5 MILES. THEN TURN LEFT (WEST) ONTO COUNTY ROAD 201 FOR 6.8 MILES AND TURN LEFT (SOUTH) ON LEASE ROAD. HEAD SOUTH ON LEASE ROAD FOR 0.4 MILES AND TURN LEFT (EAST) ON LEASE ROAD. HEAD EAST ON LEASE ROAD FOR 0.3 MILES AND THE LOCATION WILL BE APPROXIMATELY 600 FEET ON THE LEFT (NORTH).

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

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



WELL LOCATION INFORMATION:

SURFACE HOLE LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,603,812.11, X = 1,378,690.93
LAT: N 31.72636°, LONG: W 103.28585°
SHL: 1536' FWL & 1963' FNL
SHL: 1536' FWLL & 5268' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 761,235.91, X = 1,082,226.69
LAT: N 31.72624°, LONG: W 103.28540°

TP1/PP LOCATION:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,603,056.65, X = 1,378,901.10
LAT: N 31.72430°, LONG: W 103.28511°
TP1/PP: 1526' FWLL & 6052' FNLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 760,480.46, X = 1,082,436.85
LAT: N 31.72418°, LONG: W 103.28466°

BOTTOM HOLE LOCATION/TP2:

NAD 83, TEXAS CENTRAL ZONE COORD'S
Y = 10,595,735.68, X = 1,381,040.31
LAT: N 31.70434°, LONG: W 103.27761°
BHL/TP2: 200' FSL & 1526' FWLL
BHL/TP2: 200' FSLL & 1526' FWLL

NAD 27, TEXAS CENTRAL ZONE COORD'S
Y = 753,159.59, X = 1,084,575.96
LAT: N 31.70421°, LONG: W 103.27716°

QES Bottom Hole Location:
8410.8' @ 162.25° From SHL
MD: 20273' TVD: 11878.3'
South: 8010.4' East: 2564.2'

PLAT OF:
A PROPOSED WELL LOCATION FOR:
XTO ENERGY INC.
UNIVERSITY BLK 20 #1307H

SITUATED IN THE UNIVERSITY LAND, SECTION 13, BLOCK 20, AND UNIVERSITY LAND, SECTION 24, BLOCK 20 BEING APPROXIMATELY 7.6 MILES WEST 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: 11-2-2016
DRAWN BY: BLC/AL
CHECKED BY: AP/CH/JK
FIELD CREW: DC/BK
PROJECT NO: 2015121235
SCALE: 1" = 2000'
SHEET: 1
REVISION: 2

QES Directional Drilling, LLC

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



June 5, 2017

Railroad Commission of Texas
Oil and Gas Division
1701 North Congress Avenue
Austin, Texas 78711

I Christopher Hughes, certify that I am employed by QES Directional Drilling, LLC. That I did on the day(s) of 6/9/2017 through 7/5/2017, conduct or supervise the taking of an MWD Survey from a depth of 11140' to a depth of 20273'; that the data is true, correct, complete, and within the limitations of the tool as set forth by Quintana Energy Services (QES).

I certify that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy, INC , for the University BLK 20 #1307H, API No. 42-495-3710 in Winkler County, Texas. I certify that I have reviewed this report and find that it conforms to the principles and procedures as set forth by QES Directional Drilling, LLC.

Sincerely,

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES,
ou=compliance, email=chrish@qeslp.com, c=US
Date: 2017.07.17 14:50:45 -05'00'

Christopher Hughes
MWD Compliance Manager
QES Directional Drilling, LLC