



February 6, 2019

Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, Texas 78711

Attention: Regulatory Department

Re: Shell Western Exploration and Production Co.
University 20 PW Unit 2502H
Winkler County, TX
API #42-495-34182
Job No. 63988

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Efrain Silva	2502H	181	16,516	12/18/18	1/29/19	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.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SWEPI

**Winkler County, Texas (NAD27)
University 20 PW Unit
2502H**

OH / 63988

Survey: Phoenix MWD Surveys

Standard Survey Report

31 January, 2019

Survey Report

Company:	SWEPI	Local Co-ordinate Reference:	Well 2502H
Project:	Winkler County, Texas (NAD27)	TVD Reference:	RKB @ 2797.10usft (Precision 565)
Site:	University 20 PW Unit	MD Reference:	RKB @ 2797.10usft (Precision 565)
Well:	2502H	North Reference:	Grid
Wellbore:	OH / 63988	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Precision 565)	Database:	USA Compass

Project	Winkler County, Texas (NAD27)		
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 20 PW Unit		
Site Position:		Northing:	762,967.47 usft
From:	Map	Easting:	1,073,353.65 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 43' 49.23758 N
		Longitude:	103° 18' 50.66766 W
		Grid Convergence:	-1.54 °

Well	2502H		
Well Position	+N/-S	0.00 usft	Northing: 748,127.10 usft
	+E/-W	0.00 usft	Easting: 1,088,581.45 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	31° 41' 26.42230 N
		Longitude:	103° 15' 49.88411 W
		Ground Level:	2,772.10 usft

Wellbore	OH / 63988				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/15/2019	7.05	59.57	47,452.40748875

Design	Surveys (Precision 565)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	343.71	

Survey Program	Date	1/31/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.00	16,575.00	Phoenix MWD Surveys (OH / 63988)	MWD+HDGM+AX	OWSG Rev.2 MWD + HDGM + Axial Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
181.00	1.34	156.20	180.98	-1.94	0.85	-2.10	0.74	0.74	0.00	
First Phoenix MWD Survey										
272.00	1.30	155.13	271.96	-3.85	1.72	-4.17	0.05	-0.04	-1.18	
364.00	1.19	102.19	363.94	-5.00	3.09	-5.66	1.21	-0.12	-57.54	
443.00	1.21	138.25	442.92	-5.79	4.45	-6.81	0.94	0.03	45.65	
538.00	1.04	157.55	537.91	-7.34	5.44	-8.57	0.43	-0.18	20.32	
629.00	0.91	161.72	628.89	-8.79	5.99	-10.11	0.16	-0.14	4.58	
721.00	1.07	157.06	720.88	-10.27	6.55	-11.70	0.19	0.17	-5.07	
812.00	0.86	21.43	811.87	-10.42	7.13	-12.00	1.97	-0.23	-149.04	
907.00	3.24	4.61	906.81	-7.08	7.61	-8.93	2.56	2.51	-17.71	

Survey Report

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Site:	University 20 PW Unit	MD Reference:	RKB @ 2797.10usft (Precision 565)
Well:	2502H	North Reference:	Grid
Wellbore:	OH / 63988	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Precision 565)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,095.00	6.61	7.38	1,094.09	8.95	9.43	5.95	1.80	1.79	1.47
1,284.00	7.14	353.98	1,281.74	31.42	9.59	27.47	0.89	0.28	-7.09
1,473.00	10.59	0.18	1,468.46	60.48	8.41	55.69	1.89	1.83	3.28
1,661.00	10.99	1.13	1,653.13	95.67	8.82	89.36	0.23	0.21	0.51
1,850.00	11.43	2.31	1,838.53	132.40	9.93	124.30	0.26	0.23	0.62
2,039.00	11.36	18.21	2,023.85	168.80	16.50	157.39	1.66	-0.04	8.41
2,228.00	12.61	18.40	2,208.72	206.06	28.83	189.70	0.66	0.66	0.10
2,415.00	10.14	22.27	2,392.04	240.67	41.52	219.36	1.38	-1.32	2.07
2,604.00	10.82	24.96	2,577.89	272.15	55.31	245.71	0.44	0.36	1.42
2,791.00	8.38	17.29	2,762.26	301.08	66.77	270.26	1.47	-1.30	-4.10
2,978.00	8.65	21.97	2,947.20	327.13	76.08	292.66	0.40	0.14	2.50
3,165.00	9.44	18.40	3,131.88	354.72	86.18	316.31	0.52	0.42	-1.91
3,353.00	9.95	13.35	3,317.19	385.15	94.80	343.10	0.53	0.27	-2.69
3,542.00	9.98	11.04	3,503.34	417.12	101.70	371.84	0.21	0.02	-1.22
3,731.00	11.16	16.08	3,689.14	450.77	109.91	401.84	0.79	0.62	2.67
3,919.00	8.48	18.51	3,874.37	481.40	119.35	428.60	1.44	-1.43	1.29
4,108.00	6.99	20.41	4,061.64	505.39	127.78	449.26	0.80	-0.79	1.01
4,296.00	3.55	45.31	4,248.84	520.21	135.91	461.21	2.16	-1.83	13.24
4,482.00	3.92	45.63	4,434.45	528.71	144.55	466.94	0.20	0.20	0.17
4,671.00	4.04	52.66	4,622.99	537.27	154.46	472.37	0.27	0.06	3.72
4,859.00	3.62	57.42	4,810.57	544.48	164.73	476.41	0.28	-0.22	2.53
4,929.00	3.46	56.55	4,880.44	546.83	168.35	477.66	0.24	-0.23	-1.24
5,099.00	2.93	48.21	5,050.17	552.56	175.87	481.04	0.41	-0.31	-4.91
5,288.00	6.35	11.13	5,238.56	566.04	181.50	492.40	2.32	1.81	-19.62
5,476.00	7.17	12.63	5,425.25	587.69	186.07	511.90	0.45	0.44	0.80
5,665.00	7.03	15.70	5,612.81	610.33	191.78	532.04	0.21	-0.07	1.62
5,853.00	7.34	354.91	5,799.36	633.37	193.83	553.58	1.39	0.16	-11.06
6,042.00	7.69	349.97	5,986.74	657.85	190.55	577.99	0.39	0.19	-2.61
6,231.00	8.46	350.48	6,173.86	684.01	186.05	604.37	0.41	0.41	0.27
6,419.00	4.56	342.37	6,360.62	704.78	181.50	625.58	2.13	-2.07	-4.31
6,607.00	3.00	334.46	6,548.21	716.35	177.11	637.91	0.87	-0.83	-4.21
6,794.00	2.42	317.02	6,735.00	723.65	172.31	646.26	0.54	-0.31	-9.33
6,982.00	2.19	324.72	6,922.85	729.49	167.53	653.21	0.20	-0.12	4.10
7,169.00	1.79	311.75	7,109.73	734.35	163.29	659.06	0.32	-0.21	-6.94
7,356.00	1.58	307.95	7,296.65	737.88	159.08	663.63	0.13	-0.11	-2.03
7,545.00	1.95	286.31	7,485.57	740.38	153.94	667.48	0.40	0.20	-11.45
7,734.00	1.89	274.71	7,674.46	741.54	147.74	670.33	0.21	-0.03	-6.14
7,923.00	1.76	264.20	7,863.37	741.50	141.75	671.98	0.19	-0.07	-5.56
8,111.00	1.26	258.40	8,051.30	740.80	136.85	672.67	0.28	-0.27	-3.09
8,299.00	1.39	263.53	8,239.25	740.12	132.56	673.23	0.09	0.07	2.73
8,485.00	0.91	274.76	8,425.21	739.99	128.85	674.14	0.28	-0.26	6.04
8,675.00	0.92	286.68	8,615.19	740.56	125.88	675.52	0.10	0.01	6.27
8,862.00	1.54	262.71	8,802.14	740.67	121.95	676.73	0.42	0.33	-12.82

Survey Report

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Site:	University 20 PW Unit	MD Reference:	RKB @ 2797.10usft (Precision 565)
Well:	2502H	North Reference:	Grid
Wellbore:	OH / 63988	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Precision 565)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,050.00	1.25	260.57	8,990.09	740.01	117.42	677.37	0.16	-0.15	-1.14
9,237.00	1.71	251.43	9,177.03	738.79	112.77	677.50	0.28	0.25	-4.89
9,424.00	2.44	278.22	9,363.91	738.47	106.18	679.04	0.64	0.39	14.33
9,612.00	2.69	251.93	9,551.72	737.67	98.03	680.56	0.63	0.13	-13.98
9,800.00	2.67	254.87	9,739.52	735.16	89.61	680.51	0.07	-0.01	1.56
9,988.00	3.33	230.75	9,927.27	730.56	81.15	678.47	0.75	0.35	-12.83
10,174.00	2.83	228.02	10,113.00	724.07	73.55	674.37	0.28	-0.27	-1.47
10,362.00	2.24	258.94	10,300.82	720.26	66.50	672.70	0.78	-0.31	16.45
10,550.00	1.87	284.56	10,488.70	720.33	59.92	674.60	0.52	-0.20	13.63
10,737.00	2.90	290.38	10,675.54	722.75	52.54	678.99	0.57	0.55	3.11
10,924.00	2.68	293.72	10,862.32	726.15	44.10	684.63	0.15	-0.12	1.79
11,105.00	2.97	306.77	11,043.10	730.66	36.47	691.10	0.39	0.16	7.21
11,229.00	3.66	319.93	11,166.89	735.61	31.35	697.29	0.82	0.56	10.61
11,324.00	10.41	337.35	11,261.13	745.87	26.08	708.61	7.37	7.11	18.34
11,419.00	18.61	347.44	11,353.04	768.63	19.47	732.31	9.00	8.63	10.62
11,514.00	29.15	345.77	11,439.78	805.95	10.46	770.66	11.12	11.09	-1.76
11,608.00	39.43	349.82	11,517.35	857.67	-0.47	823.37	11.20	10.94	4.31
11,703.00	54.48	351.10	11,582.01	925.96	-11.85	892.11	15.87	15.84	1.35
11,798.00	64.72	351.02	11,630.02	1,006.79	-24.57	973.27	10.78	10.78	-0.08
11,893.00	78.60	350.05	11,659.84	1,095.51	-39.40	1,062.58	14.64	14.61	-1.02
11,991.00	86.75	348.74	11,672.33	1,190.97	-57.28	1,159.22	8.42	8.32	-1.34
12,086.00	90.98	348.85	11,674.21	1,284.12	-75.73	1,253.81	4.45	4.45	0.12
12,181.00	90.62	348.66	11,672.88	1,377.29	-94.25	1,348.43	0.43	-0.38	-0.20
12,276.00	87.49	341.09	11,674.45	1,468.91	-119.02	1,443.32	8.62	-3.29	-7.97
12,371.00	90.07	341.52	11,676.47	1,558.87	-149.46	1,538.21	2.75	2.72	0.45
12,466.00	92.74	342.40	11,674.14	1,649.16	-178.86	1,633.12	2.96	2.81	0.93
12,560.00	90.22	341.81	11,671.72	1,738.57	-207.74	1,727.05	2.75	-2.68	-0.63
12,655.00	90.81	342.64	11,670.86	1,829.03	-236.74	1,822.01	1.07	0.62	0.87
12,750.00	92.99	342.92	11,667.71	1,919.72	-264.84	1,916.94	2.31	2.29	0.29
12,844.00	90.58	343.61	11,664.78	2,009.69	-291.89	2,010.88	2.67	-2.56	0.73
12,939.00	88.47	344.23	11,665.57	2,100.96	-318.21	2,105.87	2.31	-2.22	0.65
13,034.00	91.21	344.61	11,665.84	2,192.46	-343.72	2,200.86	2.91	2.88	0.40
13,129.00	89.24	345.27	11,665.46	2,284.19	-368.40	2,295.83	2.19	-2.07	0.69
13,224.00	86.86	345.61	11,668.70	2,376.08	-392.27	2,390.72	2.53	-2.51	0.36
13,318.00	87.02	345.67	11,673.71	2,467.02	-415.55	2,484.54	0.18	0.17	0.06
13,413.00	89.18	347.49	11,676.86	2,559.36	-437.58	2,579.36	2.97	2.27	1.92
13,508.00	86.37	345.17	11,680.55	2,651.59	-460.01	2,674.17	3.83	-2.96	-2.44
13,603.00	87.74	345.58	11,685.43	2,743.38	-483.96	2,769.00	1.51	1.44	0.43
13,697.00	89.35	344.77	11,687.82	2,834.22	-508.01	2,862.94	1.92	1.71	-0.86
13,792.00	90.72	343.72	11,687.76	2,925.65	-533.80	2,957.93	1.82	1.44	-1.11
13,887.00	93.33	343.65	11,684.41	3,016.76	-560.47	3,052.86	2.75	2.75	-0.07
13,982.00	90.96	340.40	11,680.85	3,107.04	-589.76	3,147.73	4.23	-2.49	-3.42
14,077.00	92.84	338.23	11,677.70	3,195.86	-623.29	3,242.39	3.02	1.98	-2.28

Survey Report

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Site:	University 20 PW Unit	MD Reference:	RKB @ 2797.10usft (Precision 565)
Well:	2502H	North Reference:	Grid
Wellbore:	OH / 63988	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Precision 565)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,171.00	90.67	339.96	11,674.82	3,283.62	-656.82	3,336.03	2.95	-2.31	1.84
14,266.00	88.22	340.45	11,675.74	3,373.00	-688.98	3,430.84	2.63	-2.58	0.52
14,361.00	87.95	341.30	11,678.91	3,462.70	-720.09	3,525.67	0.94	-0.28	0.89
14,455.00	87.64	342.04	11,682.53	3,551.87	-749.63	3,619.54	0.85	-0.33	0.79
14,550.00	89.10	340.97	11,685.23	3,641.92	-779.75	3,714.43	1.91	1.54	-1.13
14,645.00	87.76	342.76	11,687.84	3,732.16	-809.31	3,809.34	2.35	-1.41	1.88
14,740.00	88.13	343.21	11,691.24	3,822.94	-837.09	3,904.27	0.61	0.39	0.47
14,834.00	88.59	342.65	11,693.93	3,912.76	-864.67	3,998.22	0.77	0.49	-0.60
14,929.00	89.07	342.28	11,695.87	4,003.33	-893.29	4,093.18	0.64	0.51	-0.39
15,024.00	87.96	341.91	11,698.34	4,093.70	-922.49	4,188.11	1.23	-1.17	-0.39
15,119.00	88.96	341.08	11,700.89	4,183.75	-952.63	4,283.00	1.37	1.05	-0.87
15,214.00	89.13	346.43	11,702.47	4,274.91	-979.19	4,377.96	5.63	0.18	5.63
15,308.00	88.43	347.77	11,704.47	4,366.52	-1,000.17	4,471.77	1.61	-0.74	1.43
15,403.00	88.42	347.58	11,707.09	4,459.29	-1,020.44	4,566.50	0.20	-0.01	-0.20
15,498.00	88.18	347.11	11,709.90	4,551.94	-1,041.24	4,661.27	0.56	-0.25	-0.49
15,593.00	90.58	349.00	11,710.93	4,644.87	-1,060.90	4,755.98	3.22	2.53	1.99
15,687.00	87.64	346.54	11,712.39	4,736.71	-1,080.81	4,849.72	4.08	-3.13	-2.62
15,782.00	89.12	346.39	11,715.08	4,829.03	-1,103.03	4,944.57	1.57	1.56	-0.16
15,877.00	89.66	345.41	11,716.09	4,921.16	-1,126.17	5,039.49	1.18	0.57	-1.03
15,972.00	90.31	343.85	11,716.11	5,012.76	-1,151.35	5,134.47	1.78	0.68	-1.64
16,067.00	90.30	343.79	11,715.61	5,104.00	-1,177.82	5,229.47	0.06	-0.01	-0.06
16,161.00	91.70	343.18	11,713.97	5,194.10	-1,204.54	5,323.45	1.62	1.49	-0.65
16,256.00	90.16	343.39	11,712.43	5,285.07	-1,231.86	5,418.44	1.64	-1.62	0.22
16,351.00	91.48	343.13	11,711.07	5,376.04	-1,259.22	5,513.42	1.42	1.39	-0.27
16,446.00	93.42	342.30	11,707.01	5,466.66	-1,287.42	5,608.31	2.22	2.04	-0.87
16,516.00	93.41	342.38	11,702.84	5,533.24	-1,308.62	5,678.17	0.11	-0.01	0.11
Final Phoenix MWD Survey									
16,575.00	93.41	342.38	11,699.33	5,589.37	-1,326.44	5,737.05	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
181.00	180.98	-1.94	0.85	First Phoenix MWD Survey
16,516.00	11,702.84	5,533.24	-1,308.62	Final Phoenix MWD Survey
16,575.00	11,699.33	5,589.37	-1,326.44	Projection to TD

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 63988
 Client: SWEPI
 County & State: Winkler, Texas
 Well: University 20 PW Unit 2502H
 API No: 42-495-34182
 Proposed Direction: 343.71°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
0.00 ft	0.00 ft	0.00°	0.00°	. N	. E	Surface
Data Source Company:						Phoenix

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
18-Dec-18	181 ft	1.34°	156.20°

Last Survey Date	Last Survey Depth	INC	AZM
29-Jan-19	16,516 ft	93.41°	342.38°

Survey Instrument Type
Velocity

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
29-Jan-19	16,575 ft	93.41°	342.38°

CORRECTION INFORMATION

Magnetic Declination Used	7.05 degrees
Grid Convergence Used	1.51 degrees
Total Correction	8.56 degrees

Corrected to True/Grid North
Grid North

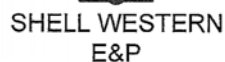
TO THE BEST OF MY KNOWLEDGE, I
 CERTIFY THIS SURVEY DATA TO BE
 TRUE AND CORRECT.

Efrain Silva

Signature

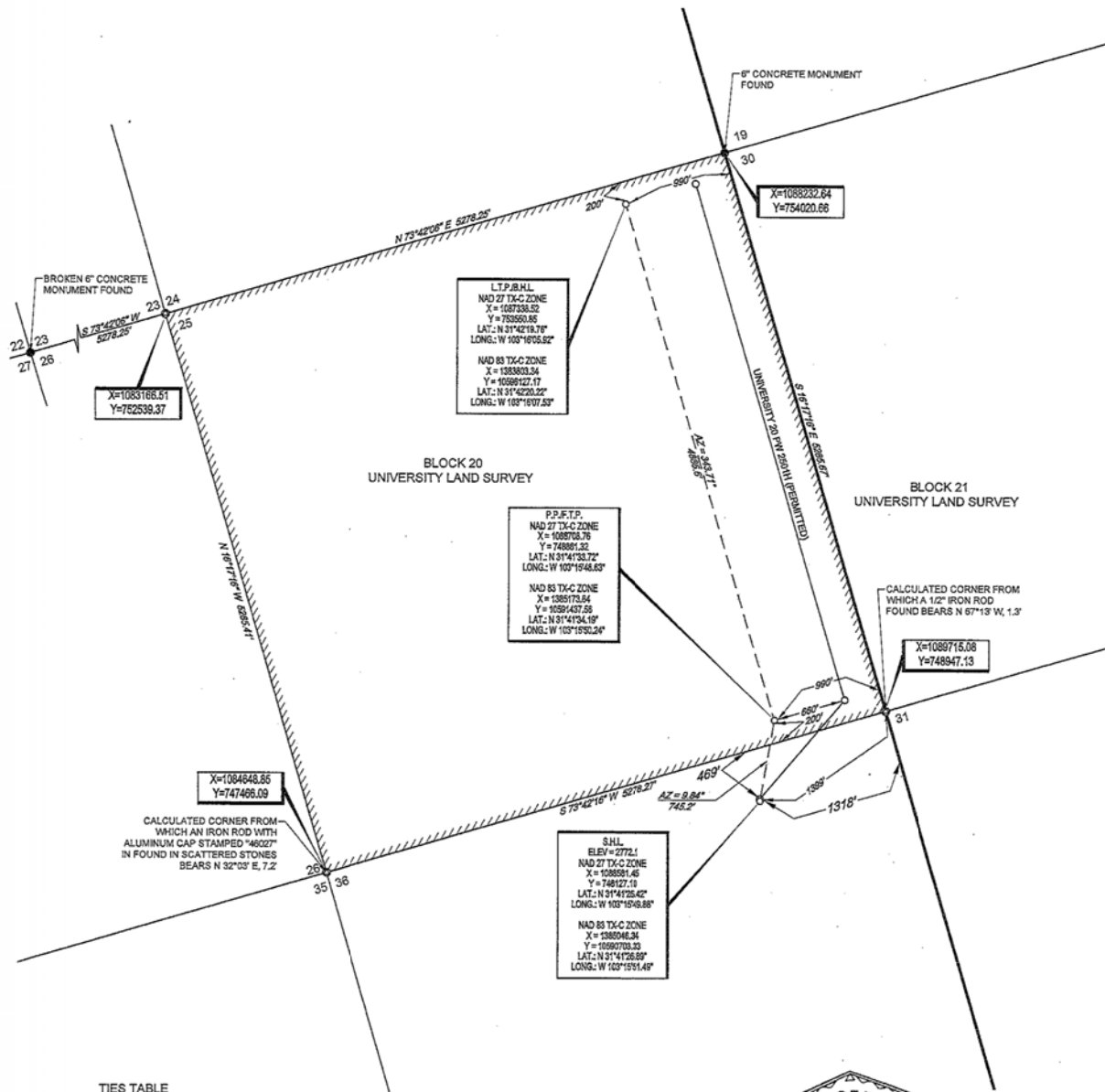
1/29/2019

Date



UNTIL LEASE ACREAGE:
640.46 ACRES (MEASURED)

DESCRIPTION:
SECTION 25, BLOCK 20, UNIVERSITY LAND SURVEY
WINKLER COUNTY, TEXAS



POINT	UNIT	SURVEY/SECTION
S.H.L.	469' FSEL	1318' FNEL & 468' FNWL
	1399' FSEC	
P.P. /	990' FNEL	990' FNEL & 200' FSEL
F.T.P.	200' FSEL	
L.T.P. /	990' FNEL	990' FNEL & 200' FNWL
B.H.L.	200' FNWL	



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 145 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

LEGEND:

Unit Boundary
Block/Township Line
Section line
Proposed Well Path
Existing/Permitted Well Path
Monument Found
Calculated Corner
Well Point



John R. Anderson, R.P.L.S. No. 6442

UL-20-36-P1 UNIVERSITY 20 PW 2502H		REVISION: INT DATE	NOTES: 1. ORIGINAL DOCUMENT SIZE: 11"X 17" 2. ALL BEARING, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983, UNLESS OTHERWISE NOTED. 3. THIS LOCATION AND/OR UNIT/LEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY SHEL WESTERN EAP. THIS PLAN WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A BOUNDARY SURVEY IN COMPLIANCE WITH T.B.P.L.'S MINIMUM STANDARDS OR PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IF MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAN IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY. 4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET. 5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHEL WESTERN EAP OR ITS SUBSIDIARIES & AFFILIATES.
DATE: 05/04/2018			NOTES CONT'D: 6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF MARCH 7, 2018. 7. S.H.L. = SURFACE HOLE LOCATION 8. P.P. = POINT OF PENETRATION 9. F.T.P. = FIRST TAKE POINT 10. L.T.P. = LAST TAKE POINT 11. S.H.L. = BOTTOM HOLE LOCATION
FILE: \\UL-20-36-P1\UNIVERSITY 20 PW 2502H.DWG			
DRAWN BY: O.E. / A.C.L.			
SHEET: 1 OF 1			

S:\SURVEY\SHELL\PERMIAN BASIN\UNIVERSITY 20 36 WNKUL-20-36-P1\FINAL PRODUCTS\LO UL 20 36 P1 UNIVERSITY 20 PW 20024 OPT2.DWG 04/2018 1:17:51 PM csm.csm