



January 30, 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 2501H  
Winkler County, TX  
API #42-495-34181  
Job No. 63987

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	
Shane Metcalf	2501H	182	16,731	12/21/18	1/22/19	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  
2501H**

**OH / 63987**

**Survey: Phoenix MWD Surveys**

## **Standard Survey Report**

**23 January, 2019**

## Survey Report

<b>Company:</b>	SWEPI	<b>Local Co-ordinate Reference:</b>	Well 2501H
<b>Project:</b>	Winkler County, Texas (NAD27)	<b>TVD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Site:</b>	University 20 PW Unit	<b>MD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Well:</b>	2501H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 63987	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Precision 565)	<b>Database:</b>	USA Compass

<b>Project</b>	Winkler County, Texas (NAD27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Texas Central 4203		

<b>Site</b>	University 20 PW Unit		
<b>Site Position:</b>		<b>Northing:</b>	762,967.47 usft
<b>From:</b>	Map	<b>Easting:</b>	1,073,353.65 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	31° 43' 49.23758 N
		<b>Longitude:</b>	103° 18' 50.66766 W
		<b>Grid Convergence:</b>	-1.54 °

<b>Well</b>	2501H		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 748,146.30 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 1,088,575.84 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	31° 41' 26.61079 N
		<b>Longitude:</b>	103° 15' 49.95487 W
		<b>Ground Level:</b>	2,772.10 usft

<b>Wellbore</b>	OH / 63987				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	MVHD	2/10/2019	7.05	59.56	47,444.20449534

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

<b>Survey Program</b>	<b>Date</b>	1/23/2019			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
182.00	16,822.00	Phoenix MWD Surveys (OH / 63987)	MWD+HDGM+AX	OWSG Rev.2 MWD + HDGM + Axial Correction	

<b>Survey</b>									
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182.00	2.72	167.89	181.93	-4.22	0.91	-4.31	1.49	1.49	0.00
<b>First Phoenix MWD Survey</b>									
273.00	2.45	146.13	272.84	-7.95	2.44	-8.32	1.11	-0.30	-23.91
365.00	4.68	61.17	364.71	-7.77	6.83	-9.38	5.53	2.42	-92.35
444.00	8.27	48.00	443.19	-2.41	13.88	-6.21	4.89	4.54	-16.67
538.00	8.13	48.22	536.23	6.54	23.86	-0.42	0.15	-0.15	0.23
721.00	8.32	46.64	717.35	24.25	43.13	11.18	0.16	0.10	-0.86
907.00	8.60	43.20	901.33	43.63	62.44	24.36	0.31	0.15	-1.85
1,094.00	9.30	42.22	1,086.05	65.01	82.16	39.35	0.38	0.37	-0.52
1,282.00	9.81	43.38	1,271.44	87.90	103.37	55.38	0.29	0.27	0.62

## Survey Report

<b>Company:</b>	SWEPI	<b>Local Co-ordinate Reference:</b>	Well 2501H
<b>Project:</b>	Winkler County, Texas (NAD27)	<b>TVD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Site:</b>	University 20 PW Unit	<b>MD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Well:</b>	2501H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 63987	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Precision 565)	<b>Database:</b>	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)
1,471.00	10.18	37.55	1,457.58	112.85	124.61	73.36	0.57	0.20	-3.08
1,659.00	10.79	31.18	1,642.44	141.07	143.85	95.06	0.70	0.32	-3.39
1,847.00	11.10	32.74	1,827.02	171.35	162.75	118.82	0.23	0.16	0.83
2,035.00	11.75	35.24	2,011.30	202.21	183.58	142.60	0.43	0.35	1.33
2,223.00	12.37	35.94	2,195.15	234.15	206.44	166.84	0.34	0.33	0.37
2,411.00	12.68	37.11	2,378.67	266.91	230.71	191.48	0.21	0.16	0.62
2,601.00	12.60	38.81	2,564.07	299.68	256.28	215.77	0.20	-0.04	0.89
2,695.00	11.43	48.03	2,656.02	313.90	269.63	225.67	2.39	-1.24	9.81
2,883.00	11.23	44.87	2,840.36	339.33	296.40	242.57	0.35	-0.11	-1.68
2,978.00	11.15	45.37	2,933.55	352.34	309.46	251.39	0.13	-0.08	0.53
3,166.00	11.25	47.14	3,117.97	377.59	335.84	268.23	0.19	0.05	0.94
3,353.00	12.53	49.02	3,300.95	403.30	364.53	284.86	0.72	0.68	1.01
3,540.00	15.31	46.42	3,482.45	433.63	397.73	304.66	1.52	1.49	-1.39
3,727.00	13.80	38.62	3,663.46	468.08	429.54	328.80	1.32	-0.81	-4.17
3,914.00	9.96	43.12	3,846.42	497.32	454.53	349.86	2.11	-2.05	2.41
4,102.00	10.26	43.08	4,031.50	521.41	477.07	366.66	0.16	0.16	-0.02
4,287.00	9.50	45.56	4,213.76	544.14	499.23	382.26	0.47	-0.41	1.34
4,473.00	8.48	47.35	4,397.47	564.18	520.28	395.59	0.57	-0.55	0.96
4,661.00	7.94	45.23	4,583.54	582.71	539.69	407.94	0.33	-0.29	-1.13
4,847.00	7.20	51.52	4,767.93	599.01	557.93	418.47	0.60	-0.40	3.38
4,942.00	6.67	50.38	4,862.23	606.24	566.84	422.90	0.58	-0.56	-1.20
5,099.00	7.02	46.74	5,018.11	618.63	580.86	430.86	0.35	0.22	-2.32
5,287.00	9.06	54.98	5,204.26	635.00	601.35	440.83	1.24	1.09	4.38
5,476.00	10.96	56.15	5,390.37	653.55	628.46	451.03	1.01	1.01	0.62
5,665.00	11.27	55.97	5,575.83	673.89	658.68	462.07	0.17	0.16	-0.10
5,853.00	12.38	56.60	5,759.84	695.26	690.73	473.60	0.59	0.59	0.34
6,042.00	12.72	54.51	5,944.32	718.50	724.59	486.41	0.30	0.18	-1.11
6,231.00	13.44	54.56	6,128.42	743.31	759.43	500.45	0.38	0.38	0.03
6,419.00	13.98	53.82	6,311.06	769.39	795.56	515.35	0.30	0.29	-0.39
6,607.00	10.87	46.46	6,494.65	795.01	826.75	531.19	1.85	-1.65	-3.91
6,794.00	6.33	17.05	6,679.58	817.04	842.57	547.90	3.31	-2.43	-15.73
6,982.00	4.77	354.99	6,866.71	834.73	844.92	564.22	1.39	-0.83	-11.73
7,169.00	1.83	285.31	7,053.43	843.27	841.36	573.42	2.39	-1.57	-37.26
7,356.00	2.26	291.51	7,240.32	845.41	835.05	577.24	0.26	0.23	3.32
7,545.00	2.21	285.97	7,429.17	847.78	828.08	581.47	0.12	-0.03	-2.93
7,734.00	1.87	262.89	7,618.05	848.40	821.52	583.91	0.47	-0.18	-12.21
7,923.00	2.10	256.39	7,806.94	847.21	815.09	584.56	0.17	0.12	-3.44
8,111.00	1.66	254.79	7,994.84	845.68	809.12	584.77	0.24	-0.23	-0.85
8,299.00	1.72	261.33	8,182.76	844.54	803.70	585.20	0.11	0.03	3.48
8,485.00	1.79	258.61	8,368.67	843.55	798.09	585.82	0.06	0.04	-1.46
8,675.00	2.09	251.16	8,558.56	841.84	791.91	585.92	0.21	0.16	-3.92
8,862.00	1.95	226.66	8,745.45	838.56	786.36	584.32	0.46	-0.07	-13.10
9,050.00	1.64	227.28	8,933.36	834.54	782.06	581.67	0.17	-0.16	0.33

## Survey Report

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<b>Project:</b>	Winkler County, Texas (NAD27)	<b>TVD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Site:</b>	University 20 PW Unit	<b>MD Reference:</b>	RKB @ 2797.10usft (Precision 565)
<b>Well:</b>	2501H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 63987	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Precision 565)	<b>Database:</b>	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)
9,237.00	1.61	253.23	9,120.28	831.96	777.58	580.45	0.39	-0.02	13.88
9,425.00	1.83	277.03	9,308.20	831.57	772.07	581.62	0.39	0.12	12.66
9,612.00	2.23	288.60	9,495.09	833.09	765.66	584.88	0.31	0.21	6.19
9,800.00	2.52	306.38	9,682.93	836.71	758.87	590.26	0.42	0.15	9.46
9,988.00	2.35	292.84	9,870.76	840.66	751.99	595.98	0.32	-0.09	-7.20
10,174.00	1.56	287.84	10,056.65	842.92	746.06	599.81	0.43	-0.42	-2.69
10,362.00	1.61	280.04	10,244.58	844.16	741.03	602.41	0.12	0.03	-4.15
10,550.00	1.90	278.64	10,432.49	845.09	735.34	604.90	0.16	0.15	-0.74
10,737.00	2.02	275.85	10,619.38	845.89	729.00	607.45	0.08	0.06	-1.49
10,925.00	1.85	268.55	10,807.27	846.15	722.67	609.47	0.16	-0.09	-3.88
11,111.00	2.51	296.19	10,993.14	847.87	716.01	612.99	0.66	0.35	14.86
11,299.00	3.83	308.81	11,180.85	853.63	707.43	620.92	0.79	0.70	6.71
11,418.00	4.28	288.20	11,299.56	857.50	700.11	626.70	1.27	0.38	-17.32
11,513.00	13.50	354.19	11,393.48	869.69	695.60	639.66	13.03	9.71	69.46
11,608.00	25.30	357.40	11,482.93	901.11	693.55	670.40	12.47	12.42	3.38
11,703.00	37.54	8.24	11,563.91	950.26	696.80	716.66	14.15	12.88	11.41
11,798.00	45.42	5.85	11,635.03	1,012.66	704.40	774.42	8.46	8.29	-2.52
11,893.00	53.16	358.45	11,697.00	1,084.49	706.83	842.68	10.05	8.15	-7.79
11,987.00	58.55	351.43	11,749.78	1,161.86	699.83	918.91	8.43	5.73	-7.47
12,082.00	70.32	346.15	11,790.73	1,245.70	683.01	1,004.10	13.36	12.39	-5.56
12,177.00	83.42	345.33	11,812.26	1,335.16	660.26	1,096.36	13.81	13.79	-0.86
12,276.00	85.74	346.13	11,821.61	1,430.67	635.97	1,194.85	2.48	2.34	0.81
12,371.00	87.92	343.62	11,826.87	1,522.23	611.22	1,289.67	3.50	2.29	-2.64
12,560.00	91.45	343.26	11,827.91	1,703.36	557.36	1,478.63	1.88	1.87	-0.19
12,655.00	88.92	341.63	11,827.60	1,793.92	528.71	1,573.60	3.17	-2.66	-1.72
12,749.00	88.70	339.91	11,829.55	1,882.65	497.76	1,667.45	1.84	-0.23	-1.83
12,844.00	88.19	333.75	11,832.13	1,969.92	460.41	1,761.69	6.50	-0.54	-6.48
12,939.00	87.99	337.09	11,835.30	2,056.25	420.92	1,855.63	3.52	-0.21	3.52
13,034.00	90.90	341.17	11,836.22	2,144.98	387.09	1,950.29	5.27	3.06	4.29
13,129.00	87.51	337.97	11,837.54	2,233.97	353.94	2,045.01	4.91	-3.57	-3.37
13,223.00	88.56	334.27	11,840.76	2,319.86	315.92	2,138.11	4.09	1.12	-3.94
13,318.00	89.27	337.61	11,842.56	2,406.58	277.20	2,232.21	3.59	0.75	3.52
13,413.00	88.53	337.64	11,844.39	2,494.41	241.04	2,326.66	0.78	-0.78	0.03
13,508.00	86.99	334.37	11,848.10	2,581.12	202.45	2,420.71	3.80	-1.62	-3.44
13,602.00	90.11	339.46	11,850.48	2,667.53	165.62	2,513.98	6.35	3.32	5.41
13,697.00	91.18	340.52	11,849.41	2,756.78	133.12	2,608.77	1.59	1.13	1.12
13,792.00	91.64	344.72	11,847.07	2,847.40	104.75	2,703.70	4.45	0.48	4.42
13,887.00	90.09	345.11	11,845.64	2,939.11	80.03	2,798.67	1.68	-1.63	0.41
13,983.00	88.10	341.58	11,847.15	3,031.05	52.53	2,894.63	4.22	-2.07	-3.68
14,078.00	88.68	344.64	11,849.82	3,121.91	24.94	2,989.58	3.28	0.61	3.22
14,173.00	88.90	348.79	11,851.83	3,214.32	3.12	3,084.41	4.37	0.23	4.37
14,268.00	90.58	348.38	11,852.26	3,307.44	-15.68	3,179.06	1.82	1.77	-0.43
14,362.00	88.47	347.19	11,853.04	3,399.30	-35.56	3,272.81	2.58	-2.24	-1.27

## Survey Report

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<b>Well:</b>	2501H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH / 63987	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys (Precision 565)	<b>Database:</b>	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)
14,551.00	90.61	348.04	11,854.56	3,583.89	-76.10	3,461.35	1.22	1.13	0.45
14,646.00	84.63	344.66	11,858.50	3,676.07	-98.48	3,556.11	7.23	-6.29	-3.56
14,741.00	84.32	344.33	11,867.65	3,767.19	-123.75	3,650.66	0.48	-0.33	-0.35
14,836.00	90.79	346.87	11,871.70	3,859.06	-147.34	3,745.47	7.32	6.81	2.67
14,931.00	93.70	346.45	11,867.98	3,951.42	-169.24	3,840.26	3.09	3.06	-0.44
15,025.00	90.65	345.88	11,864.41	4,042.62	-191.70	3,934.09	3.30	-3.24	-0.61
15,120.00	89.55	350.20	11,864.25	4,135.53	-211.38	4,028.80	4.69	-1.16	4.55
15,214.00	90.41	351.60	11,864.28	4,228.34	-226.25	4,122.05	1.75	0.91	1.49
15,309.00	88.07	347.53	11,865.54	4,321.74	-243.45	4,216.52	4.94	-2.46	-4.28
15,404.00	90.73	353.17	11,866.54	4,415.34	-259.36	4,310.84	6.56	2.80	5.94
15,498.00	89.01	347.63	11,866.75	4,507.99	-275.03	4,404.16	6.17	-1.83	-5.89
15,593.00	87.50	341.49	11,869.65	4,599.47	-300.29	4,499.05	6.65	-1.59	-6.46
15,688.00	89.64	337.26	11,872.02	4,688.33	-333.74	4,593.72	4.99	2.25	-4.45
15,783.00	89.38	337.33	11,872.83	4,775.96	-370.41	4,688.13	0.28	-0.27	0.07
15,877.00	89.93	341.50	11,873.40	4,863.94	-403.45	4,781.84	4.47	0.59	4.44
15,972.00	87.69	333.86	11,875.37	4,951.73	-439.49	4,876.22	8.38	-2.36	-8.04
16,067.00	86.81	334.12	11,879.93	5,037.01	-481.10	4,969.74	0.97	-0.93	0.27
16,162.00	88.70	334.61	11,883.65	5,122.59	-522.17	5,063.41	2.06	1.99	0.52
16,257.00	90.64	336.00	11,884.20	5,208.89	-561.85	5,157.38	2.51	2.04	1.46
16,352.00	90.82	337.02	11,882.99	5,296.01	-599.72	5,251.62	1.09	0.19	1.07
16,446.00	86.84	335.40	11,884.91	5,381.99	-637.62	5,344.78	4.57	-4.23	-1.72
16,541.00	86.14	337.87	11,890.72	5,469.03	-675.22	5,438.87	2.70	-0.74	2.60
16,636.00	86.24	341.27	11,897.04	5,557.84	-708.30	5,533.40	3.57	0.11	3.58
16,731.00	88.76	341.70	11,901.18	5,647.83	-738.44	5,628.23	2.69	2.65	0.45
<b>Final Phoenix MWD Survey</b>									
16,822.00	88.76	341.70	11,903.15	5,734.21	-767.00	5,719.15	0.00	0.00	0.00
<b>Projection to TD</b>									

### Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
182.00	181.93	-4.22	0.91	First Phoenix MWD Survey
16,731.00	11,901.18	5,647.83	-738.44	Final Phoenix MWD Survey
16,822.00	11,903.15	5,734.21	-767.00	Projection to TD

# SURVEY DATA CERTIFICATION



**PHOENIX**  
TECHNOLOGY SERVICES

Job #: 63987  
 Client: SWEPI  
 County & State: Winkler, TX  
 Well: University 20 PW Unit 2501H  
 API No: 42-495-34181  
 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 Technology Services

## SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
21-Dec-18	182 ft	2.72°	167.89°

Last Survey Date	Last Survey Depth	INC	AZM
22-Jan-19	16,731 ft	88.76°	341.70°

Survey Instrument Type
Phoenix Velocity

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
22-Jan-19	16,822 ft	88.76°	341.70°

## 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

Shane Metcalf

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

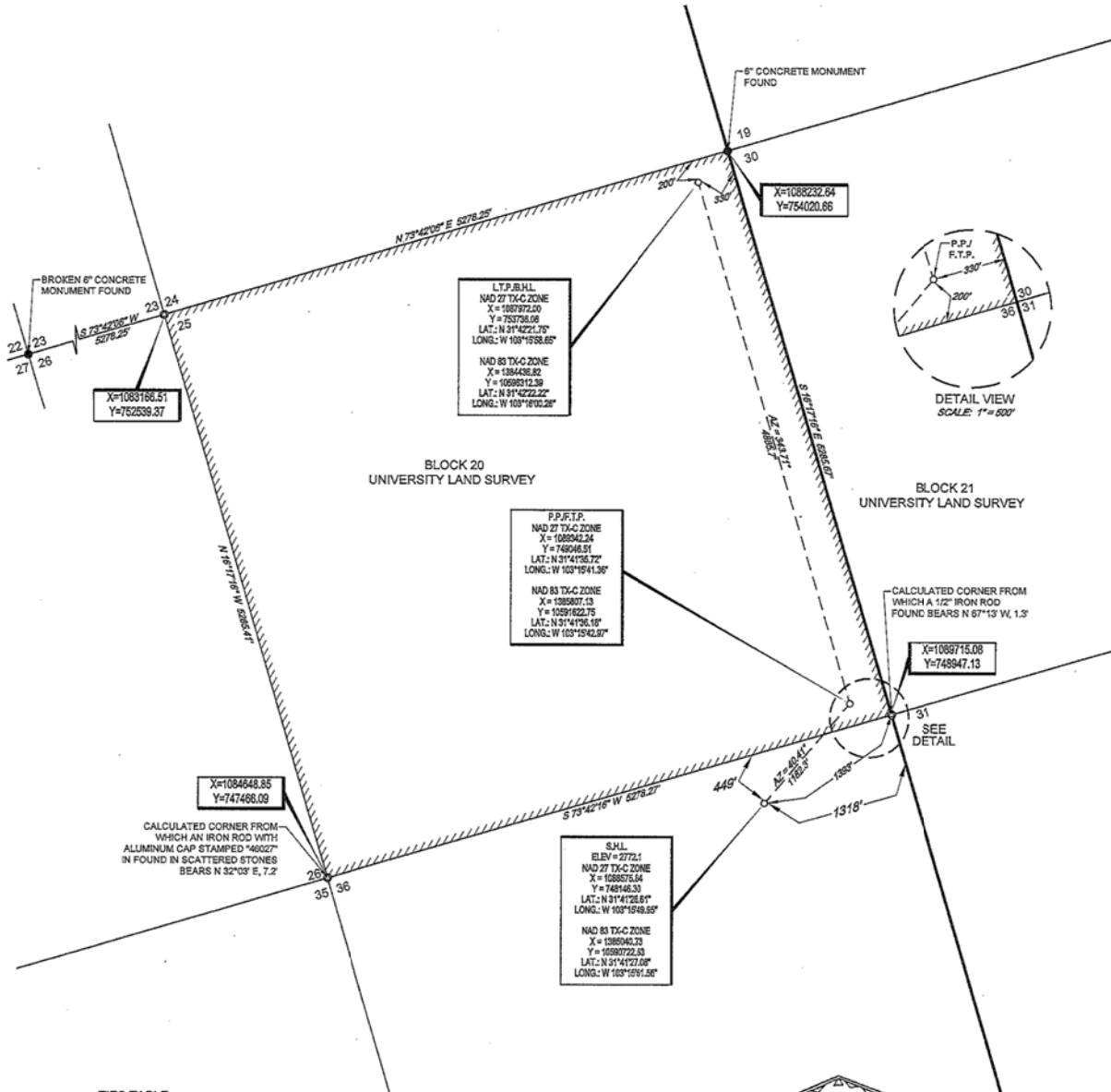
Signature

1/22/2019

Date



WELL LOCATION  
 LEASE NAME & WELL NO.:  
 UNIVERSITY 20 PW 2501H  
 UNRELEASE ACREAGE:  
 640.46 ACRES (MEASURED)  
 NEAREST TOWN IN COUNTY:  
 ±7.5 MILES SOUTHWEST OF WINK, TEXAS  
 DESCRIPTION:  
 SECTION 25, BLOCK 20, UNIVERSITY LAND SURVEY  
 WINKLER COUNTY, TEXAS



TIES TABLE

POINT	UNIT	SURVEY/SECTION
S.H.L.	449' FSEL	1318' FNEL & 449' FNWL
P.P./	330' FNEL	330' FNEL & 200' FSEL
F.T.P./	200' FSEL	200' FSEL
L.T.P./	330' FNEL	330' FNEL & 200' FNWL
B.H.L.	200' FNWL	200' FNWL

**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY  
 1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554  
 TEXAS PROFESSIONAL REGISTRATION NO. 10342504  
 WWW.TOPOGRAPHIC.COM

LEGEND:  
 - - - - - Unit Boundary  
 - - - - - Block/Township Line  
 - - - - - Section line  
 - - - - - Proposed Well Path  
 • Monument Found  
 • Calculated Corner  
 • Well Point



*John R. Anderson* 5/4/10  
 John R. Anderson, R.P.L.S. No. 6442

DATE:	05/04/2018	REVISION:		NOTES:	NOTES CONT'D:
		INT	DATE		
FILE:	U:\20-36-P1\UNIVERSITY 20 PW 2501H.DWG			1. ORIGINAL DOCUMENT SIZE: 11" X 17"	6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF MARCH 7, 2018.
DRAWN BY:	O.M./A.C.L.			2. ALL BEARINGS, 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.	7. S.H.L. = SURFACE HOLE LOCATION
SHEET:	1 OF 1			3. THIS LOCATION AND/OR UNRELEASE BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY SHELL WESTERN E&P. 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.S.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS 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.	8. P.P. = POINT OF PENETRATION
				4. ALL ELEVATION VALUES CONTAINED HEREON ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET.	9. F.T.P. = FIRST TAKE POINT
				5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHELL WESTERN E&P OR ITS SUBSIDIARIES & AFFILIATES.	10. L.T.P. = LAST TAKE POINT
					11. B.H.L. = BOTTOM HOLE LOCATION