



April 29, 2022

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

Attention: Regulatory Department

Re: Conoco Phillips
University 20 PW Unit 1804H
Loving County, TX
API #42-301-35596
Job No. 69536

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	
Zak Dawson	1804H	11,351	20,552	4/11/22	4/19/22	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



Company: ConocoPhillips
 Well: University 20 PW Unit 1804H
 Location: Loving Co, Tx
 Rig: Nabors X04
 API No: 42-301-35596
 Start Date: 04-06-22 Start Depth: 0

Job Number: 69536 Calculation Method: Minimum Curvature
 Magnetic Declination: 6.62 Proposed Azimuth: 190.76
 Grid Correction: -1.56 Depth Ref: RKB 2806 ft Plan # 3
 Total Correction: 8.18 Field: Permian
 North reference: Grid Location Lat/Long: 31.7072119, -103.3597364
 End Date: 04-19-22 End Depth: 20615

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
									+N/-S (ft)	+E/-W (ft)	Distance (ft)	Angle (deg)				
TIP	11300.00	11300.42	2.99	240.94	S60.9W	0	11235.40	-825.95	833.20	39.61	834.14	2.72	0.25	0	0	
1st SVY	11420	11351	2.86	241.11	S 61.1 W	51	11285.92	-824.30	831.95	37.35	832.79	2.57	0.26	-0.26	0.34	2
Velocity	11519	11459	2.53	238.87	S 58.9 W	108	11393.80	-820.99	829.42	32.95	830.07	2.27	0.32	-0.31	-2.07	3
Velocity	11610	11550	2.30	228.63	S 48.6 W	91	11484.72	-818.21	827.17	29.86	827.71	2.07	0.54	-0.25	-11.25	3
Velocity	11701	11641	15.00	194.90	S 14.9 W	91	11574.52	-804.96	814.53	25.44	814.93	1.79	14.45	13.96	-37.07	3
Velocity	11747	11687	24.01	193.26	S 13.3 W	46	11617.84	-789.64	799.64	21.76	799.94	1.56	19.62	19.59	-3.57	3
Velocity	11792	11732	25.89	193.09	S 13.1 W	45	11658.64	-770.68	781.16	17.43	781.35	1.28	4.18	4.18	-0.38	3
Velocity	11837	11777	34.64	190.61	S 10.6 W	45	11697.47	-748.03	758.97	12.84	759.08	0.97	19.64	19.44	-5.51	3
Velocity	11883	11823	34.78	190.00	S 10.0 W	46	11735.28	-721.83	733.20	8.16	733.25	0.64	0.81	0.30	-1.33	3
Velocity	11925	11865	35.76	192.63	S 12.6 W	42	11769.57	-697.59	709.43	3.39	709.44	0.27	4.30	2.33	6.26	3
Velocity	11974	11914	41.33	193.11	S 13.1 W	49	11807.88	-667.09	679.68	-3.41	679.68	359.71	11.38	11.37	0.98	3
Velocity	12019	11959	51.25	191.80	S 11.8 W	45	11838.94	-634.62	647.95	-10.39	648.03	359.08	22.14	22.04	-2.91	3
Velocity	12065	12005	54.76	192.20	S 12.2 W	46	11866.62	-597.89	612.02	-18.03	612.28	358.31	7.66	7.63	0.87	3
Velocity	12110	12050	65.05	192.14	S 12.1 W	45	11889.15	-559.02	574.01	-26.23	574.61	357.38	22.87	22.87	-0.13	3
Velocity	12156	12096	65.39	191.73	S 11.7 W	46	11908.43	-517.26	533.15	-34.86	534.29	356.26	1.10	0.74	-0.89	3
Velocity	12246	12186	78.06	187.80	S 7.8 W	90	11936.60	-432.01	449.10	-49.22	451.79	353.75	14.67	14.08	-4.37	3
Velocity	12337	12277	90.72	188.70	S 8.7 W	91	11945.48	-341.72	359.66	-62.20	364.99	350.19	13.95	13.91	0.99	3
Velocity	12427	12367	89.35	187.27	S 7.3 W	90	11945.43	-251.83	270.53	-74.70	280.66	344.56	2.20	-1.52	-1.59	3
Velocity	12518	12458	92.07	188.61	S 8.6 W	91	11944.30	-160.96	180.42	-87.26	200.42	334.19	3.33	2.99	1.47	3
Velocity	12609	12549	89.27	187.74	S 7.7 W	91	11943.24	-70.07	90.36	-100.20	134.93	312.04	3.22	-3.08	-0.96	3
Velocity	12700	12640	89.65	187.80	S 7.8 W	91	11944.09	20.80	0.20	-112.50	112.50	270.10	0.42	0.42	0.07	3
Velocity	12791	12731	91.29	188.73	S 8.7 W	91	11943.35	111.71	-89.85	-125.58	154.41	234.42	2.07	1.80	1.02	3
Velocity	12881	12821	89.39	187.29	S 7.3 W	90	11942.81	201.60	-178.96	-138.12	226.06	217.66	2.65	-2.11	-1.60	3
Velocity	12972	12912	91.38	187.80	S 7.8 W	91	11942.20	292.45	-269.16	-150.07	308.17	209.14	2.26	2.19	0.56	3
Velocity	13063	13003	89.78	187.19	S 7.2 W	91	11941.28	383.29	-359.38	-161.94	394.18	204.26	1.88	-1.76	-0.67	3
Velocity	13154	13094	91.72	190.03	S 10.0 W	91	11940.09	474.21	-449.33	-175.56	482.41	201.34	3.78	2.13	3.12	3
Velocity	13245	13185	92.06	188.37	S 8.4 W	91	11937.09	565.12	-539.11	-190.10	571.64	199.42	1.86	0.37	-1.82	3
Velocity	13333	13270	92.29	190.47	S 10.5 W	85	11933.86	650.03	-622.90	-204.00	655.45	198.13	2.48	0.27	2.47	4
Velocity	13423	13360	91.73	190.80	S 10.8 W	90	11930.71	739.98	-711.30	-220.60	744.72	197.23	0.72	-0.62	0.37	4
Velocity	13514	13451	88.74	192.00	S 12.0 W	91	11930.33	830.96	-800.49	-238.59	835.29	196.60	3.54	-3.29	1.32	4
Velocity	13605	13542	88.91	191.14	S 11.1 W	91	11932.20	921.93	-889.62	-256.83	925.95	196.10	0.96	0.19	-0.95	4
Velocity	13695	13632	90.35	191.16	S 11.2 W	90	11932.78	1011.92	-977.92	-274.24	1015.64	195.67	1.60	1.60	0.02	4
Velocity	13785	13722	92.37	192.72	S 12.7 W	90	11930.64	1101.87	-1065.94	-292.85	1105.43	195.36	2.84	2.24	1.73	4
Velocity	13876	13813	90.52	193.26	S 13.3 W	91	11928.35	1192.77	-1154.58	-313.30	1196.33	195.18	2.12	-2.03	0.59	4
Velocity	13967	13904	90.24	193.88	S 13.9 W	91	11927.74	1283.66	-1243.03	-334.65	1287.29	195.07	0.75	-0.31	0.68	4
Velocity	14058	13995	88.70	191.24	S 11.2 W	91	11928.59	1374.60	-1331.84	-354.43	1378.20	194.90	3.36	-1.69	-2.90	4
Velocity	14148	14085	89.04	190.74	S 10.7 W	90	11930.36	1464.58	-1420.17	-371.59	1467.98	194.66	0.67	0.38	-0.56	4
Velocity	14238	14175	90.13	191.27	S 11.3 W	90	11931.01	1554.57	-1508.52	-388.77	1557.81	194.45	1.35	1.21	0.59	4
Velocity	14330	14267	90.24	190.65	S 10.7 W	92	11930.72	1646.57	-1598.84	-406.26	1649.64	194.26	0.68	0.12	-0.67	4
Velocity	14421	14358	91.63	190.87	S 10.9 W	91	11929.23	1737.56	-1688.22	-423.25	1740.47	194.07	1.55	1.53	0.24	4



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Velocity	14512	14449	89.42	190.03	S 10.0 W	91	11928.40	1828.55	-1777.70	-439.75	1831.29	193.89	2.60	-2.43	-0.92	4
Velocity	14602	14539	89.35	188.88	S 8.9 W	90	11929.36	1918.52	-1866.47	-454.53	1921.02	193.69	1.28	-0.08	-1.28	4
Velocity	14693	14630	90.89	190.17	S 10.2 W	91	11929.17	2009.49	-1956.21	-469.59	2011.79	193.50	2.21	1.69	1.42	4
Velocity	14784	14721	91.46	189.02	S 9.0 W	91	11927.31	2100.45	-2045.92	-484.76	2102.56	193.33	1.41	0.63	-1.26	4
Velocity	14875	14812	92.81	189.22	S 9.2 W	91	11923.92	2191.35	-2135.71	-499.17	2193.26	193.16	1.50	1.48	0.22	4
Velocity	14965	14902	92.70	190.39	S 10.4 W	90	11919.59	2281.23	-2224.29	-514.48	2283.01	193.02	1.30	-0.12	1.30	4
Velocity	15056	14993	90.69	191.07	S 11.1 W	91	11916.90	2372.18	-2313.65	-531.41	2373.90	192.94	2.33	-2.21	0.75	4
Velocity	15147	15084	90.29	190.71	S 10.7 W	91	11916.12	2463.18	-2403.01	-548.60	2464.84	192.86	0.59	-0.44	-0.40	4
Velocity	15238	15175	89.84	193.55	S 13.6 W	91	11916.02	2554.14	-2491.97	-567.72	2555.82	192.83	3.16	-0.49	3.12	4
Velocity	15329	15266	91.13	194.35	S 14.4 W	91	11915.25	2645.00	-2580.28	-589.66	2646.80	192.87	1.67	1.42	0.88	4
Velocity	15420	15357	89.19	193.65	S 13.7 W	91	11914.99	2735.85	-2668.57	-611.67	2737.77	192.91	2.27	-2.13	-0.77	4
Velocity	15510	15447	87.06	190.26	S 10.3 W	90	11917.94	2825.76	-2756.55	-630.30	2827.70	192.88	4.45	-2.37	-3.77	4
Velocity	15601	15538	87.67	189.29	S 9.3 W	91	11922.12	2916.65	-2846.14	-645.74	2918.47	192.78	1.26	0.67	-1.07	4
Velocity	15692	15629	88.90	189.63	S 9.6 W	91	11924.85	3007.58	-2935.86	-660.69	3009.28	192.68	1.40	1.35	0.37	4
Velocity	15783	15720	89.88	190.69	S 10.7 W	91	11925.81	3098.57	-3025.42	-676.74	3100.18	192.61	1.59	1.08	1.16	4
Velocity	15874	15811	89.39	189.64	S 9.6 W	91	11926.39	3189.56	-3114.99	-692.80	3191.10	192.54	1.27	-0.54	-1.15	4
Velocity	15965	15902	90.35	189.97	S 10.0 W	91	11926.60	3280.55	-3204.66	-708.29	3282.00	192.46	1.12	1.05	0.36	4
Velocity	16056	15993	90.59	189.11	S 9.1 W	91	11925.85	3371.52	-3294.40	-723.38	3372.88	192.38	0.98	0.26	-0.95	4
Velocity	16147	16084	90.75	188.60	S 8.6 W	91	11924.79	3462.47	-3384.31	-737.38	3463.71	192.29	0.59	0.18	-0.56	4
Velocity	16238	16175	89.85	184.60	S 4.6 W	91	11924.31	3553.21	-3474.68	-747.84	3554.25	192.15	4.51	-0.99	-4.40	4
Velocity	16328	16265	92.44	186.81	S 6.8 W	90	11922.52	3642.83	-3564.20	-756.78	3643.66	191.99	3.78	2.88	2.46	4
Velocity	16419	16356	94.14	188.12	S 8.1 W	91	11917.29	3733.52	-3654.28	-768.58	3734.23	191.88	2.36	1.87	1.44	4
Velocity	16510	16447	92.53	189.66	S 9.7 W	91	11912.00	3824.31	-3744.03	-782.62	3824.95	191.81	2.45	-1.77	1.69	4
Velocity	16601	16538	92.37	189.35	S 9.3 W	91	11908.11	3915.21	-3833.70	-797.64	3915.80	191.75	0.38	-0.18	-0.34	4
Velocity	16692	16629	89.10	189.60	S 9.6 W	91	11906.94	4006.16	-3923.44	-812.61	4006.71	191.70	3.60	-3.59	0.27	4
Velocity	16782	16719	88.10	189.73	S 9.7 W	90	11909.14	4096.12	-4012.13	-827.72	4096.62	191.66	1.12	-1.11	0.14	4
Velocity	16873	16810	88.88	189.70	S 9.7 W	91	11911.54	4187.07	-4101.79	-843.07	4187.54	191.61	0.86	0.86	-0.03	4
Velocity	16964	16901	91.61	192.93	S 12.9 W	91	11911.15	4278.05	-4191.00	-860.92	4278.52	191.61	4.65	3.00	3.55	4
Velocity	17055	16992	89.90	191.89	S 11.9 W	91	11909.95	4369.00	-4279.87	-880.47	4369.49	191.62	2.20	-1.88	-1.14	4
Velocity	17146	17083	89.38	190.15	S 10.2 W	91	11910.52	4459.99	-4369.18	-897.87	4460.48	191.61	2.00	-0.57	-1.91	4
Velocity	17237	17174	92.41	195.16	S 15.2 W	91	11909.10	4550.89	-4457.92	-917.79	4551.42	191.63	6.43	3.33	5.51	4
Velocity	17328	17265	91.16	192.87	S 12.9 W	91	11906.26	4641.69	-4546.16	-939.81	4642.29	191.68	2.87	-1.37	-2.52	4
Velocity	17419	17356	90.52	190.82	S 10.8 W	91	11904.93	4732.66	-4635.21	-958.49	4733.27	191.68	2.36	-0.70	-2.25	4
Velocity	17509	17446	92.20	191.21	S 11.2 W	90	11902.79	4822.63	-4723.52	-975.68	4823.24	191.67	1.92	1.87	0.43	4
Velocity	17600	17537	91.56	190.20	S 10.2 W	91	11899.81	4913.58	-4812.89	-992.57	4914.18	191.65	1.31	-0.70	-1.11	4
Velocity	17690	17627	90.65	190.86	S 10.9 W	90	11898.07	5003.56	-4901.36	-1009.02	5004.14	191.63	1.25	-1.01	0.73	4
Velocity	17780	17717	89.82	190.80	S 10.8 W	90	11897.70	5093.56	-4989.75	-1025.93	5094.13	191.62	0.92	-0.92	-0.07	4
Velocity	17871	17808	88.28	189.18	S 9.2 W	91	11899.21	5184.53	-5079.36	-1041.71	5185.08	191.59	2.46	-1.69	-1.78	4
Velocity	17962	17899	88.30	186.56	S 6.6 W	91	11901.93	5275.37	-5169.45	-1054.17	5275.84	191.53	2.88	0.02	-2.88	4
Velocity	18053	17990	89.95	188.12	S 8.1 W	91	11903.32	5366.19	-5259.69	-1065.79	5366.58	191.45	2.50	1.81	1.71	4
Velocity	18144	18081	91.81	188.38	S 8.4 W	91	11901.92	5457.09	-5349.73	-1078.85	5457.43	191.40	2.06	2.04	0.29	4



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Velocity	18235	18172	90.73	188.49	S 8.5 W	91	11899.90	5547.99	-5439.72	-1092.19	5548.29	191.35	1.19	-1.19	0.12	4
Velocity	18325	18262	89.44	188.49	S 8.5 W	90	11899.77	5637.92	-5528.74	-1105.48	5638.17	191.31	1.43	-1.43	0.00	4
Velocity	18416	18353	90.24	188.91	S 8.9 W	91	11900.03	5728.86	-5618.69	-1119.24	5729.08	191.27	0.99	0.88	0.46	4
Velocity	18507	18444	91.86	189.29	S 9.3 W	91	11898.36	5819.80	-5708.52	-1133.63	5820.00	191.23	1.83	1.78	0.42	4
Velocity	18597	18534	90.72	189.57	S 9.6 W	90	11896.33	5909.75	-5797.28	-1148.37	5909.93	191.20	1.30	-1.27	0.31	4
Velocity	18688	18625	89.79	189.24	S 9.2 W	91	11895.93	6000.72	-5887.06	-1163.24	6000.88	191.18	1.08	-1.02	-0.36	4
Velocity	18779	18716	91.73	189.72	S 9.7 W	91	11894.72	6091.69	-5976.80	-1178.23	6091.83	191.15	2.20	2.13	0.53	4
Velocity	18870	18807	92.35	189.57	S 9.6 W	91	11891.48	6182.61	-6066.46	-1193.47	6182.74	191.13	0.70	0.68	-0.16	4
Velocity	18960	18897	93.77	190.03	S 10.0 W	90	11886.68	6272.47	-6155.02	-1208.76	6272.59	191.11	1.66	1.58	0.51	4
Velocity	19051	18988	91.56	189.46	S 9.5 W	91	11882.44	6363.35	-6244.60	-1224.15	6363.46	191.09	2.51	-2.43	-0.63	4
Velocity	19142	19079	90.49	188.71	S 8.7 W	91	11880.82	6454.29	-6334.44	-1238.51	6454.39	191.06	1.44	-1.18	-0.82	4
Velocity	19233	19170	89.76	191.32	S 11.3 W	91	11880.62	6545.28	-6424.05	-1254.34	6545.36	191.05	2.98	-0.80	2.87	4
Velocity	19323	19260	89.87	191.17	S 11.2 W	90	11880.91	6635.27	-6512.32	-1271.89	6635.36	191.05	0.21	0.12	-0.17	4
Velocity	19414	19351	91.56	192.17	S 12.2 W	91	11879.77	6726.25	-6601.43	-1290.29	6726.34	191.06	2.16	1.86	1.10	4
Velocity	19504	19441	91.76	190.20	S 10.2 W	90	11877.17	6816.21	-6689.68	-1307.74	6816.30	191.06	2.20	0.22	-2.19	4
Velocity	19595	19532	90.65	189.54	S 9.5 W	91	11875.25	6907.17	-6779.31	-1323.34	6907.26	191.05	1.42	-1.22	-0.73	4
Velocity	19686	19623	90.85	191.32	S 11.3 W	91	11874.06	6998.16	-6868.79	-1339.81	6998.24	191.04	1.97	0.22	1.96	4
Velocity	19776	19713	90.49	190.25	S 10.3 W	90	11873.01	7088.15	-6957.20	-1356.65	7088.23	191.03	1.25	-0.40	-1.19	4
Velocity	19867	19804	90.36	189.52	S 9.5 W	91	11872.33	7179.14	-7046.84	-1372.27	7179.21	191.02	0.81	-0.14	-0.80	4
Velocity	19958	19895	90.95	190.75	S 10.8 W	91	11871.29	7270.13	-7136.41	-1388.28	7270.19	191.01	1.50	0.65	1.35	4
Velocity	20049	19986	92.13	193.25	S 13.3 W	91	11868.85	7361.06	-7225.38	-1407.19	7361.14	191.02	3.04	1.30	2.75	4
Velocity	20139	20076	93.04	192.95	S 13.0 W	90	11864.79	7450.90	-7312.95	-1427.57	7450.99	191.05	1.06	1.01	-0.33	4
Velocity	20230	20167	90.99	190.01	S 10.0 W	91	11861.59	7541.82	-7402.06	-1445.67	7541.91	191.05	3.94	-2.25	-3.23	4
Velocity	20321	20258	88.07	188.90	S 8.9 W	91	11862.33	7632.78	-7491.81	-1460.61	7632.87	191.03	3.43	-3.21	-1.22	4
Velocity	20412	20349	88.56	189.09	S 9.1 W	91	11865.01	7723.70	-7581.65	-1474.83	7723.77	191.01	0.58	0.54	0.21	4
Velocity	20503	20440	88.84	189.23	S 9.2 W	91	11867.07	7814.64	-7671.47	-1489.32	7814.70	190.99	0.34	0.31	0.15	4
Velocity	20594	20531	89.53	189.87	S 9.9 W	91	11868.37	7905.61	-7761.20	-1504.41	7905.66	190.97	1.03	0.76	0.70	4
Last Svy	20615	20552	89.78	190.12	S 10.1 W	21	11868.50	7926.60	-7781.88	-1508.06	7926.66	190.97	1.68	1.19	1.19	4
TD Proj	20615	20615	89.78	190.12	S 10.1 W	63	11868.74	7989.60	-7843.90	-1519.13	7989.65	190.96	0.00	0.00	0.00	4

PDEH LLC

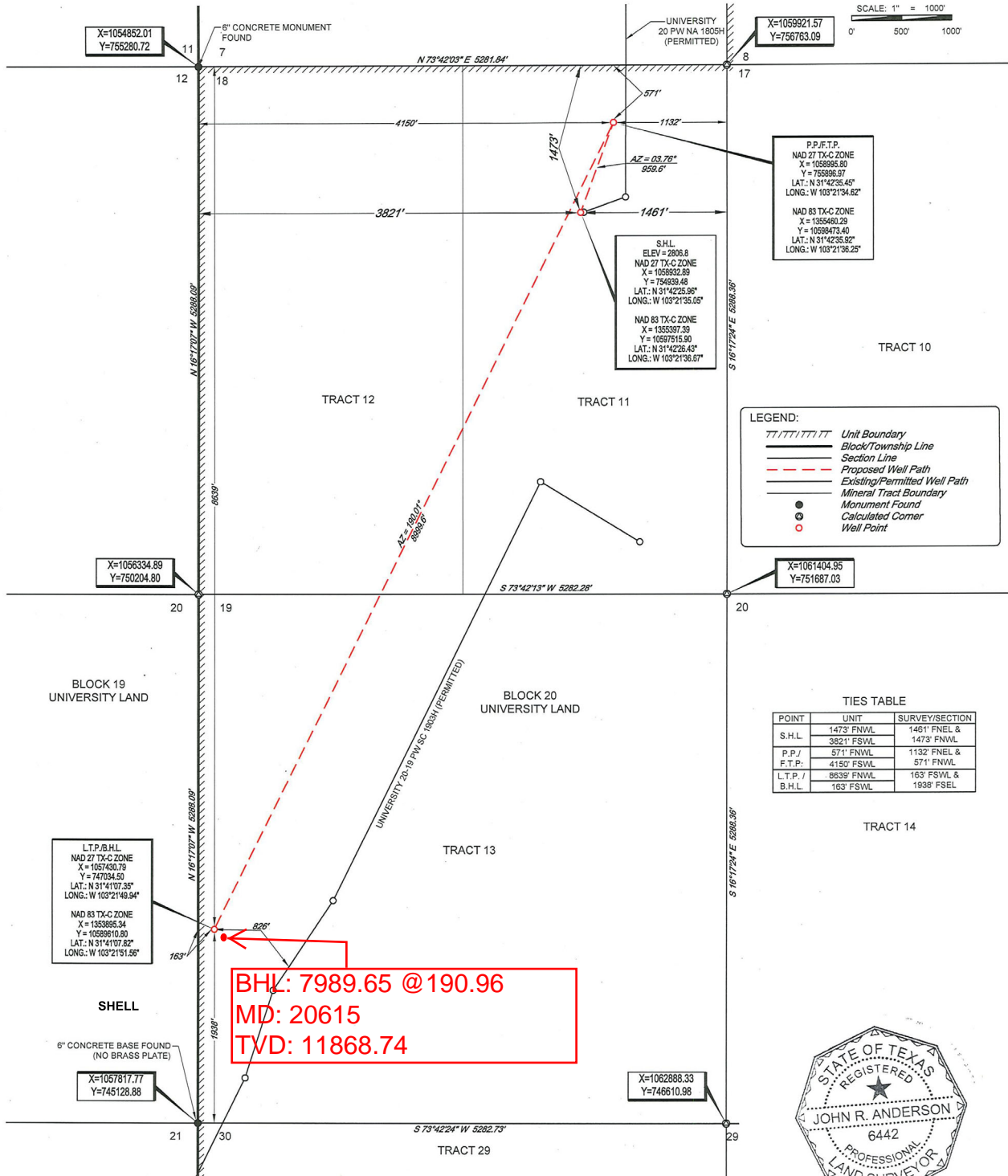
WELL LOCATION
LEASE NAME & WELL NO.:
UNIVERSITY 20 PW UNIT 1804H

UNIT/LEASE ACREAGE:
16028.04 ACRES (MEASURED)

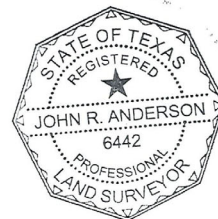
NEAREST TOWN IN COUNTY:
±14.1 MILES SOUTHEAST OF MENTONE, TEXAS

DESCRIPTION:
SECTIONS 18 & 19, BLOCK 20, UNIVERSITY LAND SURVEY
LOVING COUNTY, TEXAS

SCALE: 1" = 1000'
0' 500' 1000'



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042904
WWW.TOPOGRAPHIC.COM



John R. Anderson 7/21/21
John R. Anderson, R.P.L.S. No. 6442

REVISION:	DATE		NOTES:
	INT	DATE	
1			1. ORIGINAL DOCUMENT SIZE: 11" X 17"
2			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 1927, UNLESS OTHERWISE NOTED.
3			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 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.B.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 AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
4			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			5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHELL WESTERN E&P OR ITS SUBSIDIARIES & AFFILIATES.
			NOTES CONT'D:
			6. THE PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF MAY 26, 2021.
			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. B.H.L. = BOTTOM HOLE LOCATION

UL-20-18-P1A
UNIVERSITY 20
PW UNIT 1804H

DATE: 07/12/2021
FILE: I:\UL-20-18-P1A\UNIVERSITY_20_PW_UNIT_1804H
DRAWN BY: J.R.A.
SHEET: 1 OF 1

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 69536
 Client: Conoco Phillips
 County & State: Loving County, Tx
 Well: University 20 PW Unit 1804H
 API No: 42-301-35596
 Proposed Direction: 190.76°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
11300.42 ft	11235.40 ft	2.99 ft	240.94 ft	833.20 ft	39.61 ft	Gyro
Data Source Company:						SDI

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
11-Apr-22	11,351 ft	2.86°	241.11°

Last Survey Date	Last Survey Depth	INC	AZM
19-Apr-22	20,552 ft	89.78°	190.12°

Survey Instrument Type

Velocity

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
19-Apr-22	20,615 ft	89.78°	190.12°

CORRECTION INFORMATION

Magnetic Declination Used	6.62 degrees
Grid Convergence Used	-1.56 degrees
Total Correction	8.18 degrees

Corrected to True/Grid North

Grid

Zak Dawson

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

Signature

April 19, 2022

Date