



Directional Drilling

Horizontal Drilling

MWD/LWD

Mud Motors

March 15, 2023

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

Attention: Pamela Johns

Re: Vencer Energy, LLC
University 1-2B #2L
Upton County, Texas
API No. 42-461-42359

Enclosed, please find the original and one copy of the survey performed on the referenced well by Aim Directional Services, LLC (P-5 No. 009134). Other information required by your office is as follows:

Name & Title

<u>of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Date Performed</u>	<u>Type of Survey</u>
Breana Wooley Performance and Regulatory Manager	Original hole	134' - 18479'	02/10/23 – 02/21/23	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and the lease line (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.

Breana Wooley
Performance and Regulatory Manager

Enclosures

cc:



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State of Texas
County of Upton

I, Breana Wooley, certify that; I am employed by Aim Directional Services, LLC; that I did on the day(s) of February 10, 2023 through February 21, 2023 conduct or supervise the taking of a directional MWD survey from a depth of 134 feet to a depth of 18479 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Aim Directional Services, LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Vencer Energy, LLC for University 1-2B #2L API No. 42-461-42359 in Upton County, Texas; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Aim Directional Services, LLC.

Breana Wooley
Performance and Regulatory Manager



Aim Directional Services Survey Report

Company: Vencer Energy LLC	Local Co-ordinate Reference: Well #2L
Project: Upton Co., TX (NAD27 TXC)	TVD Reference: Well @ 2705.20usft (25'KB)
Site: University 1-2B #2L	MD Reference: Well @ 2705.20usft (25'KB)
Well: #2L	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Surveys	Database: EDM 5000.17-Aim-DB

Project Upton Co., TX (NAD27 TXC)	
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 1-2B #2L		
Site Position:	Northing: 561,445.06 usft	Latitude: 31.20107
From: Map	Easting: 1,513,376.78 usft	Longitude: -101.88986
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	

Well #2L			
Well Position +N/-S	0.00 usft	Northing: 561,445.06 usft	Latitude: 31.20107
+E/-W	0.00 usft	Easting: 1,513,376.78 usft	Longitude: -101.88986
Position Uncertainty	0.00 usft	Wellhead Elevation: usft	Ground Level: 2,680.20 usft
Grid Convergence:	-0.80 °		

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2/15/2023	5.88	59.35	46,958.38297818

Design Surveys					
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	1.33	

Survey Program		Date 2/21/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
134.00	18,479.00	MWD Surveys (OH)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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	0.000	0.000	0.000	
134.00	0.92	164.11	133.99	-1.03	0.29	-1.03	0.687	0.687	0.000	
First Aim Svy										
224.00	0.66	171.05	223.99	-2.24	0.57	-2.23	0.307	-0.289	7.711	
316.00	0.80	223.18	315.98	-3.23	0.22	-3.23	0.711	0.152	56.663	
406.00	0.85	199.79	405.97	-4.32	-0.44	-4.33	0.376	0.056	-25.989	
495.00	1.36	213.34	494.95	-5.82	-1.24	-5.85	0.640	0.573	15.225	
587.00	0.95	219.93	586.93	-7.32	-2.33	-7.37	0.468	-0.446	7.163	
682.00	1.06	231.87	681.92	-8.47	-3.53	-8.55	0.248	0.116	12.568	
775.00	1.16	211.67	774.90	-9.80	-4.70	-9.91	0.432	0.108	-21.720	



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Wellbore: OH	Survey Calculation Method: Minimum Curvature
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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)	
870.00	0.82	209.12	869.89	-11.21	-5.54	-11.34	0.361	-0.358	-2.684	
964.00	0.57	202.94	963.88	-12.23	-6.05	-12.37	0.277	-0.266	-6.574	
1,058.00	0.78	167.88	1,057.88	-13.29	-6.09	-13.42	0.482	0.223	-37.298	
1,155.00	0.82	196.97	1,154.87	-14.60	-6.16	-14.73	0.416	0.041	29.990	
1,239.00	0.91	168.13	1,238.86	-15.82	-6.20	-15.96	0.523	0.107	-34.333	
1,334.00	2.24	219.34	1,333.82	-18.00	-7.22	-18.16	1.910	1.400	53.905	
1,428.00	3.98	221.46	1,427.68	-21.86	-10.54	-22.10	1.855	1.851	2.255	
1,522.00	5.00	243.04	1,521.40	-26.17	-16.35	-26.54	2.081	1.085	22.957	
1,615.00	6.96	248.08	1,613.89	-30.11	-25.20	-30.68	2.180	2.108	5.419	
1,709.00	6.79	250.28	1,707.21	-34.11	-35.71	-34.93	0.333	-0.181	2.340	
1,803.00	7.91	255.59	1,800.44	-37.59	-47.21	-38.68	1.392	1.191	5.649	
1,897.00	8.83	259.52	1,893.44	-40.51	-60.56	-41.91	1.152	0.979	4.181	
1,992.00	8.71	259.39	1,987.33	-43.16	-74.80	-44.89	0.128	-0.126	-0.137	
2,085.00	8.45	258.63	2,079.29	-45.81	-88.43	-47.85	0.305	-0.280	-0.817	
2,180.00	9.49	267.38	2,173.13	-47.54	-103.09	-49.92	1.803	1.095	9.211	
2,274.00	10.60	271.15	2,265.69	-47.72	-119.48	-50.48	1.372	1.181	4.011	
2,367.00	10.12	270.67	2,357.17	-47.46	-136.20	-50.60	0.524	-0.516	-0.516	
2,461.00	9.56	270.82	2,449.79	-47.25	-152.26	-50.77	0.596	-0.596	0.160	
2,554.00	10.18	270.20	2,541.41	-47.11	-168.20	-51.00	0.676	0.667	-0.667	
2,649.00	11.60	269.68	2,634.70	-47.13	-186.15	-51.44	1.498	1.495	-0.547	
2,742.00	12.06	268.20	2,725.72	-47.49	-205.21	-52.24	0.592	0.495	-1.591	
2,837.00	12.19	267.89	2,818.60	-48.17	-225.15	-53.38	0.153	0.137	-0.326	
2,931.00	11.59	268.92	2,910.58	-48.71	-244.51	-54.38	0.677	-0.638	1.096	
3,025.00	11.69	267.06	3,002.65	-49.38	-263.46	-55.48	0.413	0.106	-1.979	
3,119.00	12.58	265.16	3,094.55	-50.73	-283.18	-57.29	1.038	0.947	-2.021	
3,214.00	12.90	263.75	3,187.21	-52.76	-304.03	-59.80	0.470	0.337	-1.484	
3,309.00	13.82	262.04	3,279.64	-55.49	-325.80	-63.03	1.054	0.968	-1.800	
3,402.00	13.20	263.35	3,370.07	-58.25	-347.35	-66.30	0.743	-0.667	1.409	
3,496.00	12.99	263.44	3,461.62	-60.70	-368.51	-69.24	0.224	-0.223	0.096	
3,589.00	13.34	263.65	3,552.18	-63.08	-389.56	-72.11	0.380	0.376	0.226	
3,683.00	12.24	264.85	3,643.84	-65.18	-410.26	-74.68	1.204	-1.170	1.277	
3,777.00	11.52	262.23	3,735.83	-67.34	-429.48	-77.29	0.957	-0.766	-2.787	
3,870.00	11.86	260.99	3,826.90	-70.09	-448.12	-80.48	0.455	0.366	-1.333	
3,964.00	11.81	259.21	3,918.90	-73.41	-467.11	-84.23	0.392	-0.053	-1.894	
4,059.00	14.21	260.78	4,011.46	-77.10	-488.17	-88.41	2.553	2.526	1.653	
4,153.00	14.37	260.03	4,102.55	-80.96	-511.05	-92.80	0.260	0.170	-0.798	
4,247.00	14.37	259.95	4,193.61	-85.02	-534.03	-97.39	0.021	0.000	-0.085	
4,341.00	14.45	259.61	4,284.65	-89.17	-557.05	-102.08	0.124	0.085	-0.362	
4,435.00	13.94	263.35	4,375.78	-92.60	-579.83	-106.03	1.116	-0.543	3.979	
4,529.00	14.16	270.87	4,466.98	-93.73	-602.57	-107.69	1.955	0.234	8.000	
4,623.00	14.15	270.54	4,558.13	-93.45	-625.56	-107.95	0.087	-0.011	-0.351	
4,717.00	13.06	269.92	4,649.49	-93.36	-647.67	-108.37	1.170	-1.160	-0.660	
4,810.00	12.58	270.75	4,740.17	-93.24	-668.31	-108.73	0.553	-0.516	0.892	



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Survey										
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4,904.00	11.85	271.40	4,832.04	-92.87	-688.19	-108.82	0.790	-0.777	0.691	
5,051.00	10.51	270.46	4,976.25	-92.39	-716.69	-109.00	0.920	-0.912	-0.639	
5,143.00	9.55	270.31	5,066.84	-92.28	-732.71	-109.27	1.044	-1.043	-0.163	
5,237.00	8.61	268.66	5,159.66	-92.41	-747.54	-109.73	1.038	-1.000	-1.755	
5,331.00	7.49	266.14	5,252.73	-92.98	-760.69	-110.62	1.249	-1.191	-2.681	
5,426.00	6.51	263.12	5,347.02	-94.05	-772.21	-111.94	1.102	-1.032	-3.179	
5,520.00	7.30	284.68	5,440.36	-93.17	-783.28	-111.33	2.863	0.840	22.936	
5,613.00	6.89	283.72	5,532.65	-90.35	-794.42	-108.77	0.459	-0.441	-1.032	
5,707.00	6.31	283.77	5,626.02	-87.78	-804.91	-106.44	0.617	-0.617	0.053	
5,800.00	5.75	282.55	5,718.51	-85.55	-814.42	-104.44	0.618	-0.602	-1.312	
5,894.00	5.52	282.32	5,812.05	-83.57	-823.44	-102.66	0.246	-0.245	-0.245	
5,988.00	4.52	276.24	5,905.69	-82.20	-831.54	-101.48	1.204	-1.064	-6.468	
6,081.00	3.41	268.12	5,998.47	-81.89	-837.94	-101.32	1.335	-1.194	-8.731	
6,176.00	2.52	263.24	6,093.34	-82.23	-842.84	-101.77	0.973	-0.937	-5.137	
6,270.00	1.41	250.22	6,187.28	-82.87	-845.98	-102.48	1.265	-1.181	-13.851	
6,365.00	3.93	276.23	6,282.18	-82.91	-850.32	-102.62	2.877	2.653	27.379	
6,459.00	3.85	276.55	6,375.96	-82.20	-856.66	-102.06	0.088	-0.085	0.340	
6,553.00	1.90	273.33	6,469.84	-81.75	-861.35	-101.72	2.081	-2.074	-3.426	
6,646.00	1.74	245.80	6,562.79	-82.24	-864.17	-102.27	0.946	-0.172	-29.602	
6,740.00	1.71	223.42	6,656.75	-83.84	-866.44	-103.93	0.713	-0.032	-23.809	
6,834.00	1.84	321.77	6,750.72	-83.67	-868.34	-103.81	2.859	0.138	104.628	
6,929.00	2.14	333.44	6,845.67	-80.89	-870.08	-101.06	0.529	0.316	12.284	
7,022.00	1.83	328.24	6,938.61	-78.07	-871.63	-98.28	0.385	-0.333	-5.591	
7,116.00	1.44	324.14	7,032.57	-75.84	-873.12	-96.09	0.433	-0.415	-4.362	
7,211.00	13.67	359.89	7,126.59	-63.60	-873.84	-83.86	13.188	12.874	37.632	
7,304.00	22.47	352.40	7,214.92	-34.93	-876.22	-55.26	9.768	9.462	-8.054	
7,398.00	30.36	357.65	7,299.05	6.68	-879.57	-13.74	8.746	8.394	5.585	
7,491.00	37.05	2.52	7,376.39	58.22	-879.30	37.80	7.753	7.194	5.237	
7,585.00	37.95	5.95	7,450.97	115.27	-875.06	94.92	2.419	0.957	3.649	
7,679.00	50.96	2.54	7,517.94	180.78	-870.43	160.52	14.068	13.840	-3.628	
7,773.00	60.03	359.98	7,571.14	258.13	-868.82	237.89	9.905	9.649	-2.723	
7,867.00	68.79	358.43	7,611.70	342.81	-870.04	322.53	9.437	9.319	-1.649	
7,961.00	73.74	358.65	7,641.88	431.78	-872.30	411.41	5.271	5.266	0.234	
8,055.00	73.80	358.78	7,668.16	522.01	-874.33	501.57	0.147	0.064	0.138	
8,149.00	88.49	359.14	7,682.59	614.62	-876.00	594.12	15.632	15.628	0.383	
8,242.00	89.50	1.78	7,684.22	707.59	-875.25	687.09	3.039	1.086	2.839	
8,335.00	90.21	4.63	7,684.45	800.44	-870.06	780.03	3.158	0.763	3.065	
8,430.00	90.48	4.08	7,683.88	895.16	-862.84	874.89	0.645	0.284	-0.579	
8,523.00	89.34	3.45	7,684.03	987.96	-856.73	967.81	1.401	-1.226	-0.677	
8,617.00	88.80	3.11	7,685.55	1,081.79	-851.36	1,061.74	0.679	-0.574	-0.362	
8,711.00	93.11	4.00	7,683.99	1,175.57	-845.53	1,155.63	4.682	4.585	0.947	
8,804.00	94.03	4.21	7,678.19	1,268.15	-838.89	1,248.34	1.015	0.989	0.226	
8,898.00	89.60	3.70	7,675.22	1,361.86	-832.41	1,342.17	4.744	-4.713	-0.543	



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8,992.00	90.04	3.50	7,675.51	1,455.67	-826.51	1,436.10	0.514	0.468	-0.213	
9,087.00	91.23	3.33	7,674.46	1,550.50	-820.85	1,531.03	1.265	1.253	-0.179	
9,181.00	88.90	359.26	7,674.35	1,644.45	-818.72	1,625.00	4.989	-2.479	-4.330	
9,275.00	88.68	358.62	7,676.34	1,738.41	-820.46	1,718.90	0.720	-0.234	-0.681	
9,370.00	88.81	358.69	7,678.42	1,833.36	-822.69	1,813.77	0.155	0.137	0.074	
9,464.00	89.87	358.72	7,679.50	1,927.33	-824.82	1,907.66	1.128	1.128	0.032	
9,558.00	90.66	358.89	7,679.07	2,021.31	-826.78	2,001.57	0.860	0.840	0.181	
9,651.00	91.05	358.86	7,677.68	2,114.28	-828.60	2,094.48	0.421	0.419	-0.032	
9,746.00	89.35	0.72	7,677.35	2,209.27	-828.95	2,189.43	2.652	-1.789	1.958	
9,839.00	88.90	1.27	7,678.77	2,302.24	-827.34	2,282.42	0.764	-0.484	0.591	
9,933.00	89.61	1.44	7,679.99	2,396.21	-825.11	2,376.41	0.777	0.755	0.181	
10,028.00	89.56	1.22	7,680.68	2,491.18	-822.91	2,471.41	0.237	-0.053	-0.232	
10,121.00	89.38	2.29	7,681.54	2,584.13	-820.06	2,564.40	1.167	-0.194	1.151	
10,216.00	89.60	2.81	7,682.38	2,679.03	-815.83	2,659.37	0.594	0.232	0.547	
10,310.00	89.38	2.73	7,683.22	2,772.92	-811.29	2,753.34	0.249	-0.234	-0.085	
10,404.00	89.22	3.10	7,684.37	2,866.79	-806.51	2,847.30	0.429	-0.170	0.394	
10,498.00	88.82	3.16	7,685.98	2,960.64	-801.38	2,941.24	0.430	-0.426	0.064	
10,591.00	88.65	3.01	7,688.03	3,053.48	-796.38	3,034.17	0.244	-0.183	-0.161	
10,685.00	88.04	2.95	7,690.75	3,147.31	-791.49	3,128.09	0.652	-0.649	-0.064	
10,780.00	89.74	3.06	7,692.59	3,242.16	-786.51	3,223.03	1.793	1.789	0.116	
10,874.00	89.35	2.79	7,693.33	3,336.03	-781.72	3,316.99	0.505	-0.415	-0.287	
10,968.00	89.83	2.97	7,694.00	3,429.91	-776.99	3,410.95	0.545	0.511	0.191	
11,062.00	89.92	2.91	7,694.21	3,523.79	-772.17	3,504.92	0.115	0.096	-0.064	
11,156.00	89.70	2.88	7,694.52	3,617.67	-767.42	3,598.88	0.236	-0.234	-0.032	
11,250.00	89.52	2.49	7,695.16	3,711.56	-763.02	3,692.85	0.457	-0.191	-0.415	
11,343.00	89.57	2.34	7,695.90	3,804.48	-759.10	3,785.83	0.170	0.054	-0.161	
11,437.00	89.96	2.02	7,696.29	3,898.41	-755.53	3,879.82	0.537	0.415	-0.340	
11,531.00	89.74	1.78	7,696.53	3,992.36	-752.41	3,973.82	0.346	-0.234	-0.255	
11,624.00	89.52	1.33	7,697.13	4,085.32	-749.89	4,066.81	0.539	-0.237	-0.484	
11,718.00	89.83	1.34	7,697.67	4,179.29	-747.70	4,160.81	0.330	0.330	0.011	
11,812.00	89.96	1.09	7,697.84	4,273.27	-745.70	4,254.81	0.300	0.138	-0.266	
11,906.00	90.32	0.73	7,697.61	4,367.26	-744.21	4,348.81	0.542	0.383	-0.383	
12,000.00	90.62	0.42	7,696.84	4,461.25	-743.27	4,442.80	0.459	0.319	-0.330	
12,095.00	91.15	359.93	7,695.37	4,556.24	-742.98	4,537.77	0.760	0.558	-0.516	
12,189.00	91.72	359.94	7,693.02	4,650.21	-743.08	4,631.71	0.606	0.606	0.011	
12,284.00	88.38	0.37	7,692.93	4,745.19	-742.83	4,726.67	3.545	-3.516	0.453	
12,378.00	87.72	1.15	7,696.13	4,839.13	-741.58	4,820.61	1.087	-0.702	0.830	
12,472.00	87.95	1.30	7,699.68	4,933.04	-739.57	4,914.55	0.292	0.245	0.160	
12,566.00	89.83	2.25	7,701.50	5,026.97	-736.66	5,008.52	2.241	2.000	1.011	
12,660.00	89.83	1.98	7,701.78	5,120.91	-733.19	5,102.51	0.287	0.000	-0.287	
12,754.00	90.14	1.78	7,701.81	5,214.86	-730.11	5,196.51	0.392	0.330	-0.213	
12,848.00	90.01	2.00	7,701.68	5,308.81	-727.01	5,290.50	0.272	-0.138	0.234	
12,943.00	89.96	1.96	7,701.71	5,403.75	-723.73	5,385.50	0.067	-0.053	-0.042	
13,038.00	89.85	1.90	7,701.87	5,498.70	-720.53	5,480.49	0.132	-0.116	-0.063	



Aim Directional Services Survey Report

Company: Vencer Energy LLC	Local Co-ordinate Reference: Well #2L
Project: Upton Co., TX (NAD27 TXC)	TVD Reference: Well @ 2705.20usft (25'KB)
Site: University 1-2B #2L	MD Reference: Well @ 2705.20usft (25'KB)
Well: #2L	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Surveys	Database: EDM 5000.17-Aim-DB

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)	
13,132.00	89.96	1.79	7,702.02	5,592.65	-717.50	5,574.49	0.165	0.117	-0.117	
13,226.00	88.79	1.26	7,703.05	5,686.61	-715.00	5,668.48	1.366	-1.245	-0.564	
13,320.00	88.04	0.86	7,705.65	5,780.55	-713.26	5,762.44	0.904	-0.798	-0.426	
13,414.00	88.74	0.22	7,708.29	5,874.51	-712.37	5,856.39	1.009	0.745	-0.681	
13,509.00	88.60	0.18	7,710.49	5,969.48	-712.04	5,951.35	0.153	-0.147	-0.042	
13,603.00	90.27	359.91	7,711.42	6,063.48	-711.97	6,045.32	1.800	1.777	-0.287	
13,697.00	90.40	359.73	7,710.87	6,157.47	-712.26	6,139.28	0.236	0.138	-0.191	
13,791.00	91.11	359.78	7,709.63	6,251.47	-712.67	6,233.24	0.757	0.755	0.053	
13,885.00	91.68	359.58	7,707.34	6,345.44	-713.19	6,327.17	0.643	0.606	-0.213	
13,980.00	90.49	1.48	7,705.54	6,440.41	-712.31	6,422.14	2.360	-1.253	2.000	
14,074.00	89.79	3.07	7,705.32	6,534.33	-708.58	6,516.12	1.848	-0.745	1.691	
14,169.00	89.96	2.56	7,705.52	6,629.22	-703.92	6,611.09	0.566	0.179	-0.537	
14,263.00	89.48	2.33	7,705.98	6,723.13	-699.91	6,705.07	0.566	-0.511	-0.245	
14,357.00	90.67	3.54	7,705.86	6,817.00	-695.09	6,799.03	1.805	1.266	1.287	
14,452.00	90.05	2.92	7,705.26	6,911.85	-689.74	6,893.98	0.923	-0.653	-0.653	
14,546.00	88.07	2.55	7,706.80	7,005.72	-685.26	6,987.93	2.143	-2.106	-0.394	
14,640.00	87.38	2.64	7,710.54	7,099.55	-681.00	7,081.83	0.740	-0.734	0.096	
14,734.00	87.41	2.74	7,714.81	7,193.35	-676.60	7,175.71	0.111	0.032	0.106	
14,828.00	88.03	358.11	7,718.55	7,287.25	-675.90	7,269.60	4.966	0.660	-4.926	
14,922.00	87.81	357.73	7,721.96	7,381.12	-679.31	7,363.37	0.467	-0.234	-0.404	
15,016.00	89.92	358.51	7,723.82	7,475.05	-682.39	7,457.20	2.393	2.245	0.830	
15,110.00	89.70	359.18	7,724.13	7,569.03	-684.29	7,551.11	0.750	-0.234	0.713	
15,204.00	90.84	0.74	7,723.69	7,663.02	-684.35	7,645.07	2.055	1.213	1.660	
15,297.00	91.59	0.82	7,721.72	7,755.99	-683.09	7,738.05	0.811	0.806	0.086	
15,390.00	92.07	0.82	7,718.75	7,848.94	-681.76	7,831.00	0.516	0.516	0.000	
15,484.00	90.49	0.95	7,716.65	7,942.90	-680.31	7,924.97	1.687	-1.681	0.138	
15,577.00	90.18	0.01	7,716.11	8,035.89	-679.53	8,017.96	1.064	-0.333	-1.011	
15,672.00	90.67	0.13	7,715.40	8,130.89	-679.41	8,112.93	0.531	0.516	0.126	
15,766.00	90.05	1.41	7,714.81	8,224.88	-678.15	8,206.92	1.513	-0.660	1.362	
15,860.00	89.66	1.54	7,715.05	8,318.84	-675.73	8,300.92	0.437	-0.415	0.138	
15,954.00	90.01	1.71	7,715.32	8,412.81	-673.06	8,394.92	0.414	0.372	0.181	
16,048.00	90.45	1.70	7,714.94	8,506.76	-670.26	8,488.91	0.468	0.468	-0.011	
16,142.00	90.27	1.63	7,714.35	8,600.72	-667.53	8,582.91	0.205	-0.191	-0.074	
16,236.00	90.05	1.33	7,714.09	8,694.69	-665.11	8,676.91	0.396	-0.234	-0.319	
16,330.00	90.10	0.97	7,713.97	8,788.67	-663.22	8,770.91	0.387	0.053	-0.383	
16,424.00	88.60	359.11	7,715.03	8,882.66	-663.15	8,864.87	2.542	-1.596	-1.979	
16,518.00	88.73	358.36	7,717.22	8,976.61	-665.23	8,958.75	0.810	0.138	-0.798	
16,612.00	89.26	358.47	7,718.87	9,070.56	-667.83	9,052.61	0.576	0.564	0.117	
16,706.00	89.30	358.26	7,720.05	9,164.51	-670.51	9,146.48	0.227	0.043	-0.223	
16,799.00	90.40	1.96	7,720.30	9,257.49	-670.33	9,239.44	4.151	1.183	3.978	
16,894.00	91.63	1.60	7,718.61	9,352.43	-667.38	9,334.42	1.349	1.295	-0.379	
16,988.00	92.50	0.95	7,715.23	9,446.35	-665.29	9,428.36	1.155	0.926	-0.691	
17,081.00	89.48	1.36	7,713.62	9,539.30	-663.42	9,521.33	3.277	-3.247	0.441	



Aim Directional Services Survey Report

Company: Vencer Energy LLC	Local Co-ordinate Reference: Well #2L
Project: Upton Co., TX (NAD27 TXC)	TVD Reference: Well @ 2705.20usft (25'KB)
Site: University 1-2B #2L	MD Reference: Well @ 2705.20usft (25'KB)
Well: #2L	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: Surveys	Database: EDM 5000.17-Aim-DB

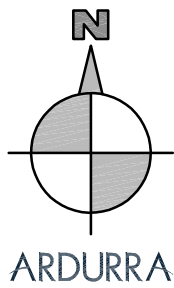
Survey

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)
17,177.00	88.29	3.27	7,715.49	9,635.20	-659.54	9,617.30	2.344	-1.240	1.990
17,270.00	88.51	2.86	7,718.08	9,728.03	-654.57	9,710.22	0.500	0.237	-0.441
17,365.00	88.69	3.05	7,720.41	9,822.88	-649.67	9,805.15	0.275	0.189	0.200
17,458.00	88.38	2.77	7,722.78	9,915.73	-644.95	9,898.08	0.449	-0.333	-0.301
17,552.00	88.21	2.37	7,725.58	10,009.59	-640.74	9,992.02	0.462	-0.181	-0.426
17,647.00	88.29	2.19	7,728.48	10,104.47	-636.96	10,086.96	0.207	0.084	-0.189
17,741.00	88.21	1.78	7,731.35	10,198.37	-633.71	10,180.91	0.444	-0.085	-0.436
17,836.00	88.43	1.18	7,734.14	10,293.30	-631.26	10,275.87	0.672	0.232	-0.632
17,929.00	89.17	1.67	7,736.08	10,386.25	-628.94	10,368.85	0.954	0.796	0.527
18,023.00	90.40	2.20	7,736.44	10,480.19	-625.77	10,462.84	1.425	1.309	0.564
18,117.00	91.24	2.11	7,735.09	10,574.11	-622.23	10,556.82	0.899	0.894	-0.096
18,211.00	91.19	2.35	7,733.10	10,668.02	-618.58	10,650.79	0.261	-0.053	0.255
18,305.00	90.67	0.82	7,731.57	10,761.97	-615.98	10,744.77	1.719	-0.553	-1.628
18,399.00	90.45	358.80	7,730.65	10,855.96	-616.29	10,838.73	2.162	-0.234	-2.149
18,420.00	90.58	358.58	7,730.47	10,876.95	-616.77	10,859.71	1.217	0.619	-1.048
Last Aim Svy									
18,479.00	90.58	358.58	7,729.87	10,935.93	-618.23	10,918.64	0.000	0.000	0.000
Projection to BHL									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
134.00	133.99	-1.03	0.29	First Aim Svy
18,420.00	7,730.47	10,876.95	-616.77	Last Aim Svy
18,479.00	7,729.87	10,935.93	-618.23	Projection to BHL

Checked By: _____	Approved By: _____	Date: _____
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HE&WT RR CO.

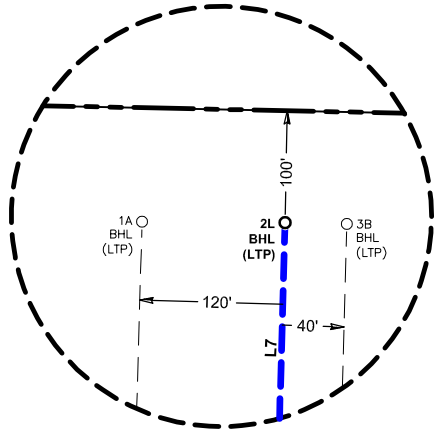
SEC 27
A-254

SEC 28
A-705

Y = 572,522.14
X = 1,512,324.64
LAT. = 31.2314848° N
LONG. = 101.8937151° W

HE&WT RR CO.

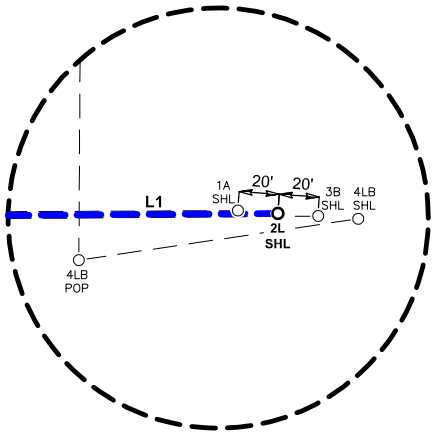
DETAIL 'B'
NOT TO SCALE



Y = 567,219.76
X = 1,512,174.85
LAT. = 31.2169016° N
LONG. = 101.8939563° W

EL&RR RR CO.

DETAIL 'A'
NOT TO SCALE



500 0 500 1000

SCALE: 1" = 1000 FEET

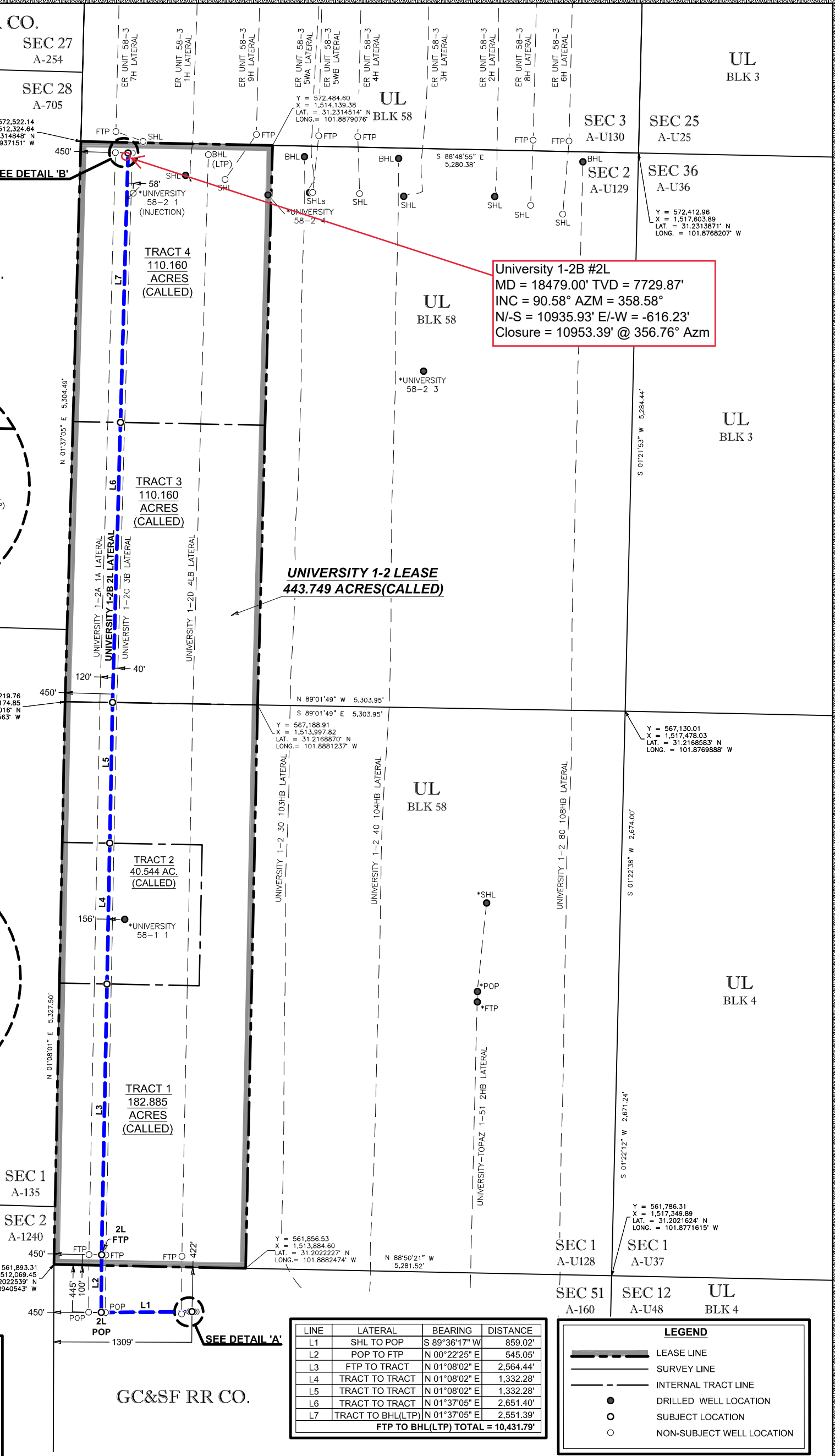
- NOTE:**
- COORDINATES SHOWN ARE BASED ON NAD27 TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS CENTRAL ZONE.
 - ALL LEASE, LATERAL, AND TRACT INFORMATION WAS PROVIDED BY VENCER ENERGY LLC.
 - * INDICATED WELL BORE STATUS AND POSITION OBTAINED FROM RRC GIS DATABASE AND DOES NOT REPRESENT AN ACTUAL SURVEY.

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT WELL LOCATION AS STAKED ON THE GROUND. THIS SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.



SERGIO Z. CANALES
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6040

SIGNED: 12/05/22



LINE	LATERAL	BEARING	DISTANCE
L1	SHL TO POP	S 89°36'17" W	859.02'
L2	POP TO FTP	N 00°22'25" E	545.05'
L3	FTP TO TRACT	N 01°08'02" E	2,564.44'
L4	TRACT TO TRACT	N 01°08'02" E	1,332.28'
L5	TRACT TO TRACT	N 01°08'02" E	1,332.28'
L6	TRACT TO TRACT	N 01°37'05" E	2,651.40'
L7	TRACT TO BHL(LTP)	N 01°37'05" E	2,551.39'
FTP TO BHL(LTP) TOTAL =			10,431.79'

LEGEND	
	LEASE LINE
	SURVEY LINE
	INTERNAL TRACT LINE
	DRILLED WELL LOCATION
	SUBJECT LOCATION
	NON-SUBJECT WELL LOCATION

WELL NUMBER	LEASE CALLS	SURVEY CALLS	GROUND ELEV.	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES(DMS)	NAD27 GEOGRAPHIC COORDINATES(DD)	NAD83 GEOGRAPHIC COORDINATES(DD)
2L SHL	OFF LEASE 422' FNL	1,309 FWL 422' FNL	2,680.2'	Y = 561,445.06 X = 1,513,376.78	LAT. = 31°12'03.86" N LONG. = 101°53'23.47" W	LAT. = 31.2010720° N LONG. = 101.8898531° W	LAT. = 31.2012213° N LONG. = 101.8902597° W
2L POP	OFF LEASE 445' FNL	450' FWL 445' FNL	-- --	Y = 561,439.14 X = 1,512,517.79	LAT. = 31°12'03.68" N LONG. = 101°53'33.36" W	LAT. = 31.2010226° N LONG. = 101.8926001° W	LAT. = 31.2011719° N LONG. = 101.8930068° W
2L FTP	450' FWL 100' FSL	450' FWL 100' FSL	-- --	Y = 561,984.18 X = 1,512,521.34	LAT. = 31°12'09.08" N LONG. = 101°53'33.41" W	LAT. = 31.2025212° N LONG. = 101.8926132° W	LAT. = 31.2026705° N LONG. = 101.8930199° W
2L BHL (LTP)	450' FWL 100' FNL	450' FWL 100' FNL	-- --	Y = 572,412.87 X = 1,512,771.73	LAT. = 31°13'52.33" N LONG. = 101°53'32.21" W	LAT. = 31.2312016° N LONG. = 101.8922798° W	LAT. = 31.2313499° N LONG. = 101.8926866° W



AN RRC WELL LOCATION PLAT FOR:
VENCER ENERGY LLC
UNIVERSITY 1-2B 2L
SITUATED IN THE GC&SF RR CO. SURVEY, SECTION 51, A-160, AND THE UL SURVEYS, SECTION 1, A-U128, & SECTION 2, A-U129, BLOCK 58, APPROXIMATELY 3.3 MILES SOUTHEAST OF RANKIN IN UPTON COUNTY, TEXAS.

Survey Date: 9/28/22
Surveyed By: RM/WR
Drawn by: CL/AA/MC/VS
Checked by: MC/HR
Job #: 210189.159