

# **Percussion Petroleum II, LLC**

**Winkler Co., TX (NAD-27)**

**UL Yellowtail Pad**

**UL Yellowtail West H 21-29-17 WB 8H**

**OH**

**Design: OH**

## **TRRC Certified Surveys**

**27 October, 2022**

# TRRC Certified Surveys

<b>Company:</b>	Percussion Petroleum II, LLC	<b>Local Co-ordinate Reference:</b>	Well UL Yellowtail West H 21-29-17 WB 8H
<b>Project:</b>	Winkler Co., TX (NAD-27)	<b>TVD Reference:</b>	RKB @ 2784.00usft
<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

<b>Project</b>	Winkler Co., TX (NAD-27)		
<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		

Site		UL Yellowtail Pad			
Site Position:		Northing:	755,364.37 usft	Latitude:	31.711020
From:	Map	Easting:	1,094,929.80 usft	Longitude:	-103.244063
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.50 °

Well	UL Yellowtail West H 21-29-17 WB 8H					
Well Position	+N/-S	0.00 usft	Northing:	755,385.80 usft	Latitude:	31.711084
	+E/-W	0.00 usft	Easting:	1,095,001.63 usft	Longitude:	-103.243834
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,763.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2022_FILE	3/10/2022	6.68	59.48	47,132.60000000

<b>Design</b>	OH				
<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	351.14	

<b>Survey Program</b>	<b>Date</b>	10/27/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
140.00	20,893.00	MWD Surveys (OH)	MWD+IFR1	OWSG MWD + IFR1	

<b>Survey</b>								
<b>MD (usft)</b>	<b>Inc (°)</b>	<b>Azi (azimuth) (°)</b>	<b>TVD (usft)</b>	<b>N/S (usft)</b>	<b>E/W (usft)</b>	<b>Closure Distance (usft)</b>	<b>Closure Azimuth (°)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	0.19	41.63	140.00	0.17	0.15	0.23	41.63	
<b>First Survey @ 140</b>								
235.00	0.32	70.22	235.00	0.38	0.51	0.64	53.16	
326.00	0.36	56.90	326.00	0.62	0.99	1.17	57.74	
421.00	0.27	71.10	421.00	0.86	1.45	1.68	59.35	
512.00	0.45	85.37	511.99	0.96	2.01	2.22	64.52	
601.00	1.69	75.48	600.98	1.31	3.63	3.86	70.08	
692.00	3.23	72.52	691.89	2.42	7.37	7.76	71.82	
782.00	4.54	71.01	781.68	4.34	13.16	13.86	71.74	
876.00	5.66	71.84	875.31	7.00	21.08	22.21	71.64	
969.00	7.29	71.62	967.71	10.29	31.04	32.70	71.66	

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<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,062.00	9.17	68.53	1,059.75	14.86	43.54	46.00	71.15	
1,155.00	11.49	65.57	1,151.24	21.40	58.87	62.64	70.02	
1,249.00	13.91	65.82	1,242.93	29.91	77.70	83.26	68.95	
1,342.00	15.01	67.10	1,332.98	39.17	98.99	106.46	68.41	
1,435.00	15.10	67.39	1,422.79	48.51	121.27	130.61	68.20	
1,529.00	15.58	66.93	1,513.44	58.17	144.19	155.48	68.03	
1,623.00	15.85	68.08	1,603.93	67.91	167.71	180.94	67.96	
1,718.00	16.20	67.98	1,695.24	77.72	192.03	207.16	67.97	
1,810.00	16.67	68.13	1,783.48	87.45	216.17	233.19	67.98	
1,905.00	17.02	68.33	1,874.40	97.66	241.74	260.72	68.00	
1,998.00	16.27	71.10	1,963.51	106.90	266.71	287.34	68.16	
2,090.00	15.77	70.80	2,051.93	115.19	290.71	312.70	68.39	
2,183.00	14.04	68.38	2,141.80	123.50	313.14	336.61	68.48	
2,275.00	12.91	67.97	2,231.27	131.47	333.04	358.05	68.46	
2,368.00	13.42	67.25	2,321.82	139.54	352.62	379.23	68.41	
2,461.00	14.15	65.89	2,412.14	148.35	372.95	401.37	68.31	
2,554.00	13.90	69.09	2,502.37	156.99	393.76	423.90	68.26	
2,647.00	14.33	68.84	2,592.56	165.13	414.93	446.58	68.30	
2,740.00	13.32	71.40	2,682.87	172.70	435.82	468.79	68.38	
2,832.00	12.77	69.80	2,772.50	179.59	455.40	489.54	68.48	
2,924.00	13.61	70.39	2,862.07	186.73	475.14	510.52	68.54	
3,017.00	14.24	69.52	2,952.33	194.41	496.17	532.89	68.60	
3,110.00	13.39	69.49	3,042.64	202.18	516.97	555.10	68.64	
3,202.00	11.07	73.91	3,132.55	208.36	535.43	574.55	68.74	
3,296.00	10.12	72.26	3,224.95	213.38	551.97	591.78	68.86	
3,388.00	10.03	72.49	3,315.53	218.25	567.31	607.85	68.96	
3,481.00	10.26	72.06	3,407.07	223.24	582.91	624.20	69.04	
3,573.00	11.19	71.31	3,497.47	228.63	599.16	641.30	69.11	
3,666.00	12.79	69.30	3,588.43	235.16	617.34	660.62	69.15	
3,759.00	14.61	68.75	3,678.79	243.05	637.91	682.64	69.14	
3,851.00	14.85	70.43	3,767.76	251.20	659.83	706.03	69.16	
3,944.00	15.23	67.66	3,857.58	259.84	682.36	730.16	69.15	
4,036.00	14.95	70.05	3,946.41	268.48	704.69	754.10	69.14	
4,129.00	14.53	72.35	4,036.35	276.11	727.08	777.74	69.21	
4,221.00	14.49	73.30	4,125.41	282.92	749.10	800.75	69.31	
4,314.00	13.63	77.81	4,215.63	288.57	770.96	823.20	69.48	
4,407.00	13.60	78.75	4,306.01	293.02	792.39	844.84	69.71	
4,499.00	13.04	78.58	4,395.54	297.19	813.18	865.78	69.92	
4,592.00	12.61	72.24	4,486.22	302.36	833.13	886.30	70.05	
4,684.00	13.17	71.32	4,575.90	308.78	852.62	906.81	70.09	
4,777.00	13.34	71.84	4,666.43	315.52	872.85	928.13	70.13	
4,869.00	12.74	71.22	4,756.05	322.09	892.54	948.88	70.16	
4,962.00	12.40	69.57	4,846.82	328.88	911.61	969.12	70.16	
5,055.00	12.18	69.87	4,937.69	335.74	930.18	988.91	70.15	

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<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Survey								
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5,147.00	11.89	69.77	5,027.67	342.36	948.18	1,008.10	70.15	
5,206.00	11.64	68.66	5,085.43	346.63	959.43	1,020.12	70.14	
5,269.00	11.62	68.43	5,147.14	351.27	971.25	1,032.82	70.12	
5,364.00	11.66	67.66	5,240.18	358.44	989.03	1,051.97	70.08	
5,457.00	11.57	54.56	5,331.30	367.42	1,005.32	1,070.36	69.92	
5,551.00	10.14	38.29	5,423.63	379.38	1,018.13	1,086.52	69.56	
5,645.00	9.37	38.30	5,516.27	391.88	1,028.00	1,100.16	69.13	
5,739.00	10.12	48.23	5,608.92	403.39	1,038.90	1,114.47	68.78	
5,833.00	11.55	51.92	5,701.25	414.70	1,052.47	1,131.22	68.49	
5,927.00	11.12	44.32	5,793.42	426.99	1,066.21	1,148.53	68.18	
6,021.00	10.11	22.22	5,885.85	441.12	1,075.67	1,162.60	67.70	
6,115.00	10.05	9.56	5,978.41	456.84	1,080.15	1,172.79	67.07	
6,210.00	9.70	7.17	6,072.00	472.96	1,082.53	1,181.34	66.40	
6,304.00	9.47	8.54	6,164.69	488.46	1,084.67	1,189.58	65.76	
6,397.00	8.95	8.78	6,256.49	503.18	1,086.91	1,197.73	65.16	
6,491.00	8.87	9.92	6,349.35	517.54	1,089.27	1,205.97	64.59	
6,585.00	8.99	9.70	6,442.21	531.92	1,091.76	1,214.44	64.02	
6,679.00	9.70	19.95	6,534.97	546.60	1,095.70	1,224.47	63.49	
6,773.00	9.93	23.23	6,627.60	561.50	1,101.59	1,236.44	62.99	
6,866.00	9.57	21.75	6,719.25	576.05	1,107.62	1,248.46	62.52	
6,960.00	9.17	21.60	6,812.00	590.27	1,113.28	1,260.08	62.07	
7,055.00	9.03	20.93	6,905.80	604.27	1,118.73	1,271.49	61.62	
7,149.00	8.52	18.41	6,998.70	617.77	1,123.56	1,282.19	61.20	
7,244.00	8.30	23.61	7,092.68	630.73	1,128.53	1,292.82	60.80	
7,338.00	8.40	28.94	7,185.69	642.95	1,134.57	1,304.08	60.46	
7,431.00	9.19	28.83	7,277.59	655.40	1,141.44	1,316.22	60.14	
7,524.00	8.72	25.60	7,369.46	668.27	1,148.06	1,328.39	59.80	
7,617.00	7.64	24.54	7,461.51	680.25	1,153.68	1,339.29	59.47	
7,711.00	7.23	26.62	7,554.72	691.22	1,158.92	1,349.40	59.19	
7,805.00	8.04	31.29	7,647.89	702.13	1,164.99	1,360.21	58.92	
7,899.00	7.92	30.67	7,740.98	713.31	1,171.71	1,371.75	58.67	
7,994.00	6.57	28.21	7,835.22	723.73	1,177.61	1,382.23	58.43	
8,089.00	5.79	24.67	7,929.67	732.88	1,182.18	1,390.92	58.20	
8,183.00	6.04	28.72	8,023.17	741.52	1,186.54	1,399.19	58.00	
8,277.00	6.55	33.64	8,116.60	750.32	1,191.88	1,408.39	57.81	
8,371.00	5.67	30.81	8,210.07	758.78	1,197.23	1,417.43	57.63	
8,465.00	3.53	22.18	8,303.76	765.44	1,200.70	1,423.94	57.48	
8,560.00	1.36	352.54	8,398.67	769.27	1,201.66	1,426.80	57.37	
8,653.00	1.11	329.97	8,491.65	771.14	1,201.07	1,427.32	57.30	
8,748.00	0.77	331.20	8,586.64	772.50	1,200.30	1,427.40	57.24	
8,842.00	0.42	343.50	8,680.63	773.38	1,199.90	1,427.54	57.20	
8,937.00	0.28	336.06	8,775.63	773.93	1,199.70	1,427.68	57.17	
9,032.00	0.41	339.44	8,870.63	774.46	1,199.49	1,427.78	57.15	
9,126.00	0.50	20.42	8,964.62	775.16	1,199.52	1,428.19	57.13	
9,219.00	0.59	5.28	9,057.62	776.02	1,199.70	1,428.81	57.10	

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<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,312.00	0.37	17.25	9,150.62	776.78	1,199.83	1,429.33	57.08	
9,405.00	0.80	349.33	9,243.61	777.71	1,199.80	1,429.81	57.05	
9,500.00	0.50	311.16	9,338.61	778.63	1,199.37	1,429.95	57.01	
9,594.00	0.44	208.39	9,432.60	778.58	1,198.89	1,429.52	57.00	
9,688.00	0.86	206.60	9,526.60	777.63	1,198.40	1,428.59	57.02	
9,783.00	1.97	172.97	9,621.57	775.38	1,198.28	1,427.27	57.09	
9,876.00	2.13	161.06	9,714.51	772.16	1,199.04	1,426.15	57.22	
9,968.00	2.20	152.39	9,806.44	768.97	1,200.41	1,425.59	57.36	
10,061.00	1.99	142.85	9,899.38	766.10	1,202.21	1,425.56	57.49	
10,116.00	2.08	146.54	9,954.35	764.51	1,203.34	1,425.66	57.57	
10,154.00	2.08	135.61	9,992.32	763.44	1,204.20	1,425.82	57.63	
10,248.00	1.85	123.00	10,086.27	761.40	1,206.67	1,426.81	57.75	
10,342.00	2.26	129.63	10,180.21	759.39	1,209.37	1,428.02	57.87	
10,434.00	1.84	137.91	10,272.15	757.14	1,211.76	1,428.85	58.00	
10,529.00	1.40	140.59	10,367.11	755.11	1,213.52	1,429.27	58.11	
10,622.00	1.52	199.48	10,460.09	753.07	1,213.83	1,428.45	58.18	
10,717.00	2.08	285.28	10,555.05	752.33	1,211.74	1,426.30	58.17	
10,811.00	4.47	293.07	10,648.89	754.22	1,206.73	1,423.04	57.99	
10,905.00	5.66	292.48	10,742.52	757.43	1,199.07	1,418.26	57.72	
11,000.00	4.41	285.26	10,837.16	760.18	1,191.22	1,413.11	57.46	
11,093.00	3.98	282.36	10,929.91	761.81	1,184.62	1,408.43	57.26	
11,187.00	4.32	264.49	11,023.66	762.17	1,177.91	1,402.98	57.09	
11,280.00	4.89	262.84	11,116.36	761.34	1,170.49	1,396.31	56.96	
11,374.00	4.82	248.57	11,210.03	759.40	1,162.84	1,388.84	56.85	
11,468.00	4.33	244.82	11,303.73	756.44	1,155.95	1,381.46	56.80	
11,511.00	4.15	241.89	11,346.61	755.02	1,153.11	1,378.30	56.78	
11,587.00	3.57	226.83	11,422.44	752.10	1,148.95	1,373.23	56.79	
11,683.00	3.69	214.86	11,518.25	747.53	1,145.01	1,367.42	56.86	
11,779.00	8.39	250.75	11,613.72	742.68	1,136.62	1,357.75	56.84	
11,872.00	20.56	277.15	11,703.68	742.47	1,113.91	1,338.68	56.31	
11,967.00	25.52	298.27	11,791.22	754.27	1,079.25	1,316.70	55.05	
12,063.00	29.26	313.89	11,876.56	780.37	1,044.07	1,303.48	53.22	
12,158.00	36.23	323.73	11,956.47	819.18	1,010.67	1,300.96	50.97	
12,253.00	47.34	327.76	12,027.21	871.53	975.31	1,307.97	48.22	
12,348.00	58.44	335.49	12,084.49	938.17	939.74	1,327.89	45.05	
12,441.00	72.28	331.69	12,123.18	1,013.61	902.10	1,356.91	41.67	
12,536.00	79.58	330.88	12,146.26	1,094.37	857.85	1,390.52	38.09	
12,632.00	85.09	335.09	12,159.07	1,179.09	814.68	1,433.16	34.64	
12,769.00	86.14	337.07	12,169.54	1,303.95	759.30	1,508.91	30.21	
12,863.00	87.24	337.12	12,174.97	1,390.39	722.78	1,567.03	27.47	
12,958.00	87.15	342.17	12,179.62	1,479.32	689.78	1,632.23	25.00	
13,053.00	87.77	344.91	12,183.83	1,570.33	662.89	1,704.51	22.89	
13,148.00	89.31	347.75	12,186.25	1,662.60	640.45	1,781.69	21.07	
13,244.00	89.29	347.35	12,187.42	1,756.33	619.76	1,862.47	19.44	

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<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
13,339.00	89.31	347.85	12,188.59	1,849.11	599.36	1,943.82	17.96	
13,435.00	88.92	346.42	12,190.07	1,942.68	577.99	2,026.84	16.57	
13,531.00	89.76	348.35	12,191.17	2,036.36	557.02	2,111.17	15.30	
13,626.00	90.43	348.64	12,191.02	2,129.45	538.08	2,196.38	14.18	
13,721.00	89.57	347.94	12,191.02	2,222.47	518.80	2,282.22	13.14	
13,816.00	89.23	349.19	12,192.01	2,315.57	499.96	2,368.93	12.18	
13,912.00	89.31	349.16	12,193.23	2,409.86	481.94	2,457.58	11.31	
14,006.00	88.98	348.33	12,194.64	2,502.04	463.59	2,544.63	10.50	
14,101.00	88.33	347.23	12,196.87	2,594.86	443.49	2,632.49	9.70	
14,195.00	86.99	346.61	12,200.71	2,686.34	422.23	2,719.32	8.93	
14,290.00	86.34	347.07	12,206.23	2,778.69	400.64	2,807.42	8.20	
14,410.00	84.24	346.47	12,216.08	2,895.10	373.27	2,919.07	7.35	
14,442.00	84.99	345.71	12,219.09	2,926.03	365.62	2,948.78	7.12	
14,536.00	87.69	344.26	12,225.09	3,016.62	341.31	3,035.87	6.46	
14,600.00	88.16	343.14	12,227.41	3,078.01	323.36	3,094.95	6.00	
14,695.00	90.66	343.27	12,228.38	3,168.94	295.92	3,182.73	5.33	
14,788.00	91.61	343.34	12,226.54	3,258.01	269.20	3,269.11	4.72	
14,883.00	91.44	343.52	12,224.01	3,349.03	242.12	3,357.77	4.14	
14,978.00	90.97	342.29	12,222.02	3,439.81	214.20	3,446.47	3.56	
15,072.00	90.43	344.73	12,220.87	3,529.93	187.53	3,534.91	3.04	
15,166.00	91.22	344.70	12,219.51	3,620.59	162.75	3,624.25	2.57	
15,257.00	86.03	342.78	12,221.70	3,707.89	137.29	3,710.44	2.12	
15,316.00	87.66	342.39	12,224.94	3,764.10	119.66	3,766.00	1.82	
15,352.00	89.68	343.04	12,225.78	3,798.47	108.96	3,800.03	1.64	
15,445.00	89.48	342.45	12,226.46	3,887.28	81.38	3,888.13	1.20	
15,539.00	89.79	342.20	12,227.06	3,976.84	52.84	3,977.19	0.76	
15,634.00	91.64	342.55	12,225.87	4,067.37	24.08	4,067.44	0.34	
15,729.00	87.69	344.03	12,226.43	4,158.33	-3.23	4,158.33	359.96	
15,822.00	91.30	344.72	12,227.25	4,247.88	-28.27	4,247.97	359.62	
15,917.00	89.59	343.62	12,226.51	4,339.27	-54.19	4,339.61	359.28	
16,010.00	89.57	342.69	12,227.19	4,428.27	-81.14	4,429.02	358.95	
16,104.00	94.00	346.73	12,224.26	4,518.86	-105.91	4,520.10	358.66	
16,198.00	90.88	344.08	12,220.26	4,609.72	-129.57	4,611.54	358.39	
16,291.00	92.09	344.13	12,217.85	4,699.14	-155.03	4,701.69	358.11	
16,385.00	91.55	344.71	12,214.87	4,789.64	-180.26	4,793.03	357.84	
16,480.00	85.72	343.66	12,217.13	4,880.97	-206.13	4,885.32	357.58	
16,574.00	91.08	347.56	12,219.75	4,971.94	-229.47	4,977.23	357.36	
16,668.00	89.29	346.56	12,219.45	5,063.55	-250.52	5,069.74	357.17	
16,761.00	89.90	347.07	12,220.11	5,154.09	-271.73	5,161.25	356.98	
16,856.00	90.83	345.56	12,219.50	5,246.39	-294.20	5,254.63	356.79	
16,950.00	89.43	344.79	12,219.29	5,337.26	-318.25	5,346.74	356.59	
17,043.00	89.26	344.03	12,220.35	5,426.83	-343.25	5,437.67	356.38	
17,136.00	92.17	342.42	12,219.19	5,515.85	-370.08	5,528.25	356.16	
17,231.00	90.43	344.38	12,217.04	5,606.86	-397.21	5,620.91	355.95	

# TRRC Certified Surveys

<b>Company:</b>	Percussion Petroleum II, LLC	<b>Local Co-ordinate Reference:</b>	Well UL Yellowtail West H 21-29-17 WB 8H
<b>Project:</b>	Winkler Co., TX (NAD-27)	<b>TVD Reference:</b>	RKB @ 2784.00usft
<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
17,324.00	91.39	346.66	12,215.56	5,696.89	-420.46	5,712.38	355.78	
17,416.00	87.74	345.22	12,216.26	5,786.11	-442.81	5,803.03	355.62	
17,510.00	88.14	345.78	12,219.64	5,877.06	-466.33	5,895.53	355.46	
17,667.00	93.24	345.22	12,217.75	6,029.00	-505.62	6,050.16	355.21	
17,760.00	93.07	344.62	12,212.63	6,118.66	-529.78	6,141.55	355.05	
17,854.00	89.06	343.29	12,210.88	6,208.96	-555.75	6,233.78	354.89	
17,947.00	88.75	341.73	12,212.66	6,297.64	-583.69	6,324.63	354.70	
18,041.00	91.36	342.74	12,212.57	6,387.15	-612.37	6,416.44	354.52	
18,134.00	91.13	340.28	12,210.55	6,475.32	-641.86	6,507.06	354.34	
18,227.00	90.15	341.54	12,209.51	6,563.20	-672.27	6,597.54	354.15	
18,320.00	90.04	339.57	12,209.35	6,650.89	-703.23	6,687.96	353.96	
18,414.00	90.24	339.78	12,209.12	6,739.04	-735.88	6,779.10	353.77	
18,508.00	89.29	340.79	12,209.51	6,827.52	-767.59	6,870.54	353.59	
18,602.00	89.48	340.72	12,210.52	6,916.27	-798.57	6,962.22	353.41	
18,695.00	89.73	340.30	12,211.16	7,003.94	-829.60	7,052.90	353.24	
18,790.00	89.68	340.69	12,211.65	7,093.48	-861.31	7,145.58	353.08	
18,884.00	88.95	340.92	12,212.77	7,182.25	-892.22	7,237.46	352.92	
18,977.00	89.73	340.69	12,213.84	7,270.07	-922.79	7,328.40	352.77	
19,070.00	90.99	341.85	12,213.26	7,358.14	-952.65	7,419.56	352.62	
19,161.00	87.13	340.30	12,214.75	7,444.19	-982.16	7,508.70	352.48	
19,257.00	88.00	341.71	12,218.83	7,534.88	-1,013.37	7,602.72	352.34	
19,350.00	87.63	340.64	12,222.38	7,622.84	-1,043.36	7,693.91	352.21	
19,444.00	89.73	341.18	12,224.54	7,711.64	-1,074.09	7,786.08	352.07	
19,538.00	90.63	343.19	12,224.25	7,801.13	-1,102.85	7,878.70	351.95	
19,633.00	95.21	347.25	12,219.41	7,892.82	-1,127.05	7,972.88	351.87	
19,726.00	94.78	349.52	12,211.31	7,983.56	-1,145.70	8,065.35	351.83	
19,820.00	93.43	351.95	12,204.58	8,076.09	-1,160.79	8,159.09	351.82	
19,913.00	93.21	347.88	12,199.19	8,167.48	-1,177.05	8,251.86	351.80	
20,006.00	93.91	348.03	12,193.42	8,258.26	-1,196.42	8,344.47	351.76	
20,101.00	94.42	348.38	12,186.52	8,351.01	-1,215.78	8,439.04	351.72	
20,195.00	95.52	349.47	12,178.37	8,442.90	-1,233.77	8,532.58	351.69	
20,288.00	91.11	346.58	12,173.00	8,533.70	-1,253.04	8,625.20	351.65	
20,383.00	88.64	346.34	12,173.20	8,626.05	-1,275.28	8,719.81	351.59	
20,477.00	95.12	348.09	12,170.12	8,717.61	-1,296.06	8,813.43	351.54	
20,570.00	91.19	342.20	12,165.00	8,807.31	-1,319.86	8,905.66	351.48	
20,664.00	90.13	341.64	12,163.92	8,896.66	-1,349.03	8,998.36	351.38	
20,758.00	90.57	342.10	12,163.34	8,985.99	-1,378.28	9,091.08	351.28	
20,852.00	90.24	341.75	12,162.68	9,075.35	-1,407.44	9,183.84	351.18	
Last Survey @ 20852								
20,893.00	90.24	341.75	12,162.50	9,114.29	-1,420.28	9,224.29	351.14	
TD @ 20893								

# TRRC Certified Surveys

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<b>Project:</b>	Winkler Co., TX (NAD-27)	<b>TVD Reference:</b>	RKB @ 2784.00usft
<b>Site:</b>	UL Yellowtail Pad	<b>MD Reference:</b>	RKB @ 2784.00usft
<b>Well:</b>	UL Yellowtail West H 21-29-17 WB 8H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	FHartmann

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
140.00	140.00	0.17	0.15	First Survey @ 140
20,852.00	12,162.68	9,075.35	-1,407.44	Last Survey @ 20852
20,893.00	12,162.50	9,114.29	-1,420.28	TD @ 20893

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_





# ALTITUDE ENERGY PARTNERS LLC. SURVEY DATA CERTIFICATION

ALTITUDE JOB NUMBER	AEP-PB-220150	OPERATOR	Percussion Petroleum Oper II, LLC
WELL NAME	UL Yellowtail West H 21-29-17 WB 8H	COUNTY & STATE	Winkler, Texas
API WELL NUMBER	42-495-34698	PROPOSED DIRECTION	343.72
Latitude	31.711084	Longitude	-103.243834

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
0	0	0	0	0	0	TIED IN AT SURFACE
FIRST	FIRST				SURVEY INSTRUMENT	
SURVEY	SURVEY				TYPE	
DATE	DEPTH	INCLIN	AZIMUTH		MWD	
3-25-22	140	0.19	41.63	MAGNETIC DECLINATION OR TOTAL GRID		
LAST	LAST			TOTAL CORRECTION USED		8.18
SURVEY	SURVEY			DECLINATION OR GRID		Grid
DATE	DEPTH	INCLIN	AZIMUTH			
6-10-22	10852	90.24	341.75			
PROJECTED	PROJECTED					
TD SURVEY	TD SURVEY					
DATE	DEPTH	INCLIN	AZIMUTH			
6-18-22	20893	90.24	341.75			

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Altitude Energy Partners LLC. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore coordinates are calculated using Minimum curvature or other method.

Julie Schmautz

PRINT MWD NAME ABOVE

*Julie A Schmautz*

SIGN MWD NAME ABOVE

6-19-22

TODAY'S DATE

