

Percussion Petroleum II, LLC

Winkler Co., TX (NAD-27)

UL Pahaska Pad

UL Pahaska 21-6 S004H

OH

Design: OH

TRRC Certified Surveys

25 March, 2022



Project: Winkler Co., TX (NAD-27)
 Site: UL Pahaska Pad
 Well: UL Pahaska 21-6 S004H
 Wellbore: OH
 Design: OH
 Lat: 31.751754
 Long: -103.276412
 GL: 2828.00
 KB: RKB @ 2849.00usft (Unit 407)

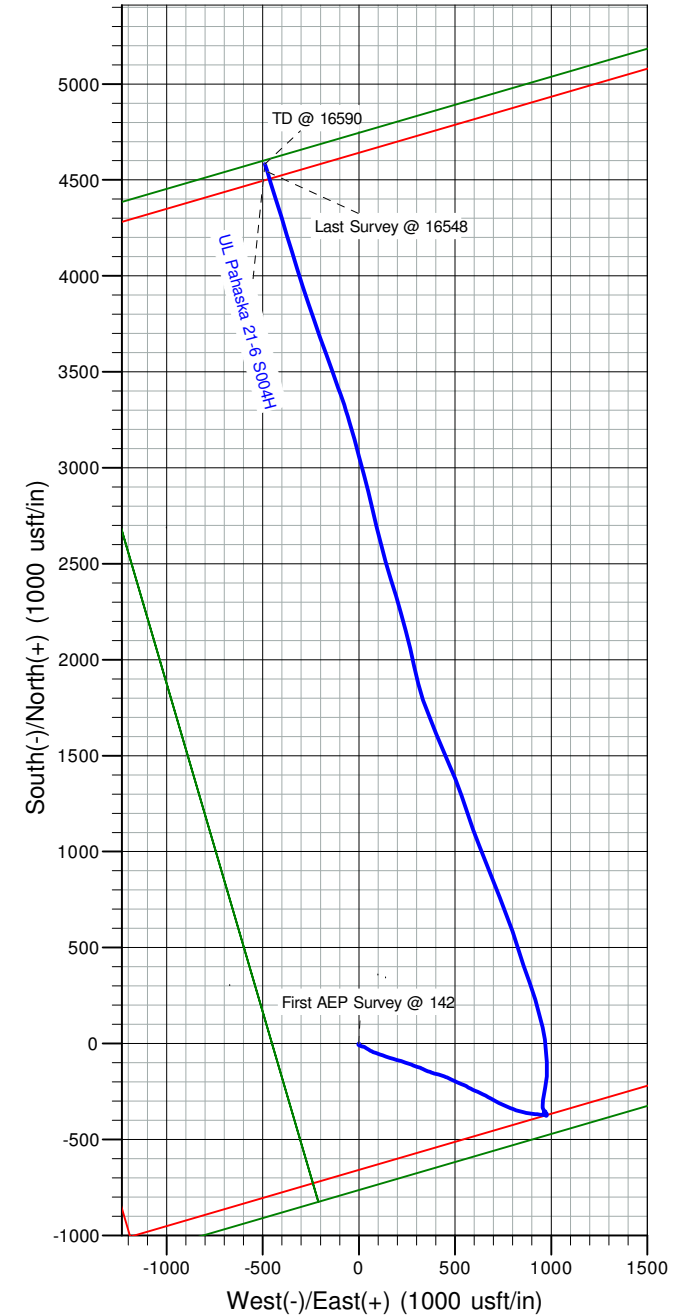
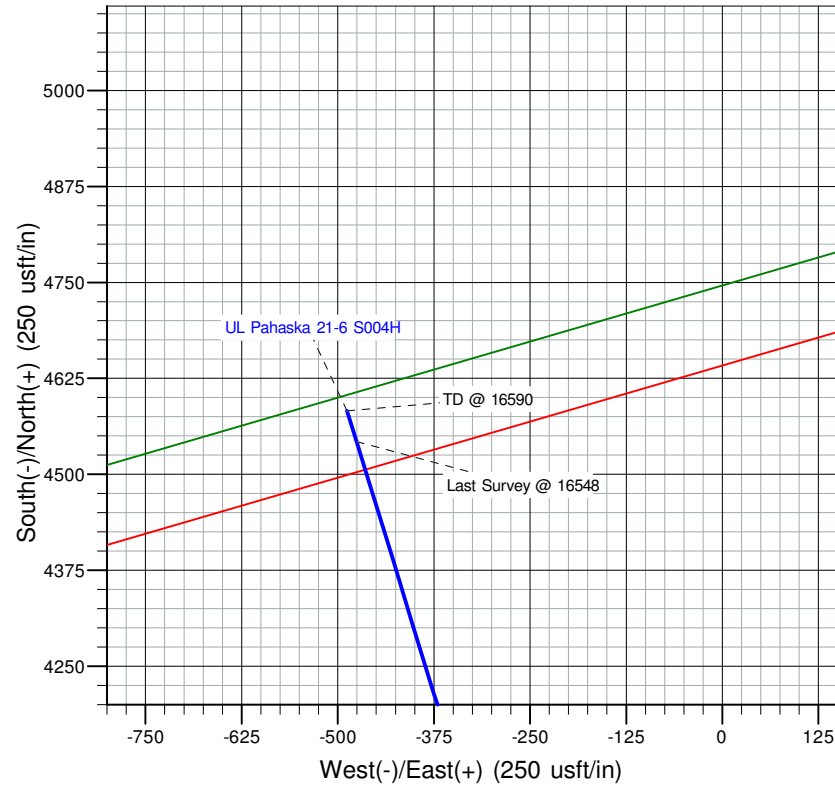
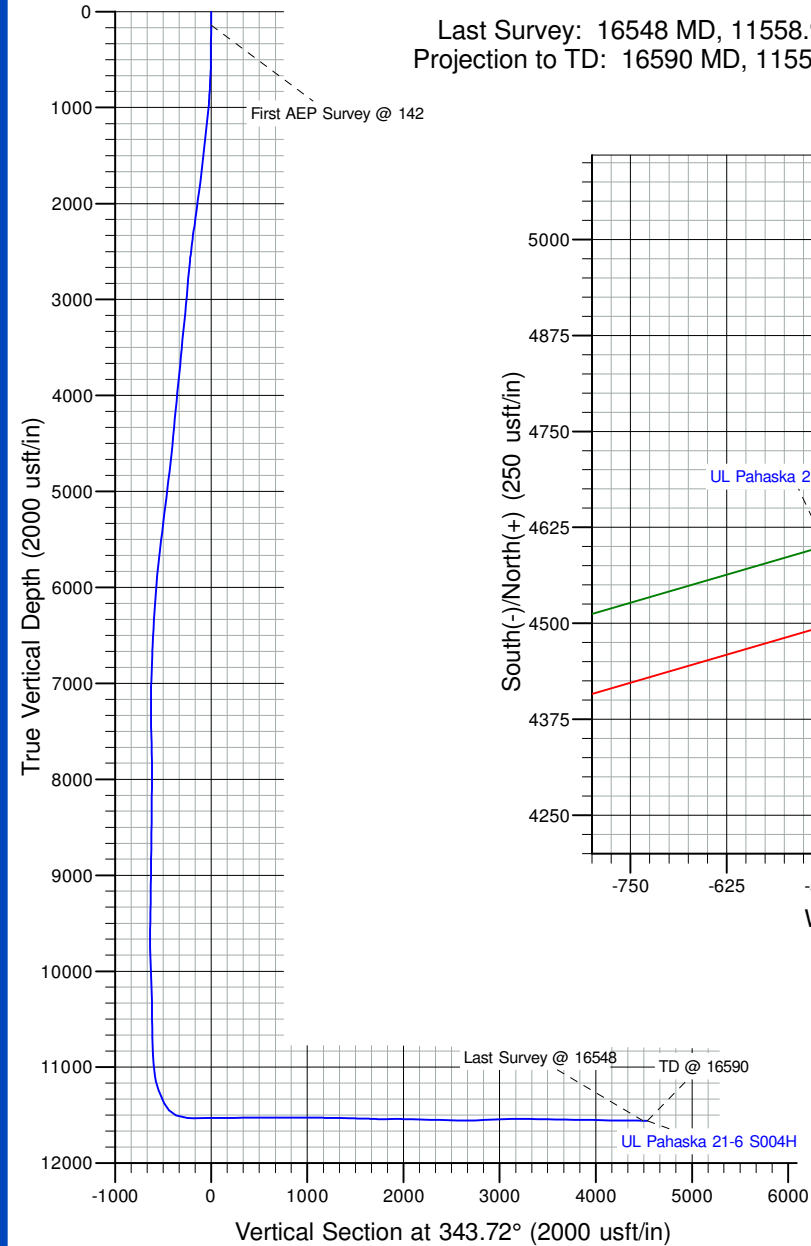


Azimuths to Grid North
 True North: 1.52°
 Magnetic North: 8.13°
 Magnetic Field
 Strength: 47161.0nT
 Dip Angle: 59.48°
 Date: 12/9/2021
 Model: HDGM2021_FILE

WELL DETAILS: UL Pahaska 21-6 S004H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	770441.37	1085265.21	31.751754	-103.276412

Last Survey: 16548 MD, 11558.93 TVD, 4542.61 N/S, -475.43 E/W
 Projection to TD: 16590 MD, 11559.95 TVD, 4582.71 N/S, -487.87 E/W



TRRC Certified Surveys

Company:	Percussion Petroleum II, LLC	Local Co-ordinate Reference:	Well UL Pahaska 21-6 S004H
Project:	Winkler Co., TX (NAD-27)	TVD Reference:	RKB @ 2849.00usft (Unit 407)
Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Project	Winkler Co., TX (NAD-27)		
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	UL Pahaska Pad				
Site Position:		Northing:	770,432.91 usft	Latitude:	31.751729
From:	Map	Easting:	1,085,241.74 usft	Longitude:	-103.276487
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.52 °

Well	UL Pahaska 21-6 S004H					
Well Position	+N/-S	0.00 usft	Northing:	770,441.37 usft	Latitude:	31.751754
	+E/-W	0.00 usft	Easting:	1,085,265.21 usft	Longitude:	-103.276412
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,828.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	12/9/2021	6.62	59.48	47,161.00000000

Design	OH				
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	343.72

Survey Program	Date	3/25/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
142.00	16,590.00	MWD Surveys (OH)	MWD+HRGM	OWSG MWD + HRGM	

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
142.00	0.63	190.57	142.00	-0.77	-0.14	0.78	190.57		
First AEP Survey @ 142									
237.00	0.69	214.50	236.99	-1.75	-0.56	1.84	197.81		
323.00	0.81	215.30	322.98	-2.68	-1.21	2.94	204.29		
416.00	0.74	204.67	415.98	-3.76	-1.84	4.18	206.07		
509.00	0.98	221.72	508.96	-4.90	-2.62	5.55	208.13		
600.00	1.89	132.39	599.94	-6.49	-2.03	6.80	197.35		
691.00	4.31	114.84	690.81	-8.94	2.18	9.20	166.27		
781.00	4.94	111.72	780.51	-11.79	8.85	14.75	143.10		
874.00	6.61	100.18	873.04	-14.22	17.84	22.82	128.56		
966.00	7.71	116.80	964.33	-17.94	28.56	33.73	122.13		

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Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
1,058.00	7.74	124.28	1,055.50	-24.21	39.19	46.07	121.71		
1,151.00	8.24	121.53	1,147.60	-31.22	50.05	58.99	121.96		
1,244.00	8.04	118.66	1,239.66	-37.83	61.43	72.15	121.62		
1,337.00	10.37	111.67	1,331.46	-44.04	74.92	86.91	120.45		
1,430.00	10.69	108.96	1,422.89	-49.93	90.86	103.68	118.79		
1,523.00	10.93	110.32	1,514.24	-55.80	107.28	120.93	117.48		
1,615.00	11.41	109.67	1,604.50	-61.89	124.03	138.62	116.52		
1,708.00	11.83	108.14	1,695.59	-67.95	141.75	157.20	115.61		
1,800.00	12.25	107.43	1,785.57	-73.81	160.03	176.23	114.76		
1,894.00	12.99	107.04	1,877.30	-79.90	179.64	196.61	113.98		
1,986.00	13.49	106.30	1,966.85	-85.94	199.83	217.53	113.27		
2,079.00	14.01	105.47	2,057.19	-91.99	221.09	239.46	112.59		
2,171.00	14.14	108.61	2,146.43	-98.54	242.47	261.73	112.12		
2,264.00	14.24	108.88	2,236.59	-105.87	264.06	284.49	111.85		
2,357.00	13.05	111.26	2,326.96	-113.38	284.67	306.42	111.72		
2,449.00	11.58	111.34	2,416.84	-120.50	302.95	326.04	111.69		
2,542.00	11.13	109.46	2,508.02	-126.89	320.11	344.34	111.62		
2,635.00	8.38	115.20	2,599.67	-132.77	334.71	360.08	111.64		
2,727.00	8.28	111.75	2,690.70	-138.08	346.93	373.40	111.70		
2,820.00	8.02	113.03	2,782.76	-143.10	359.12	386.58	111.73		
2,912.00	8.37	110.24	2,873.82	-147.92	371.31	399.69	111.72		
3,005.00	9.52	108.48	2,965.69	-152.70	384.95	414.13	111.64		
3,098.00	10.23	103.93	3,057.31	-157.13	400.26	430.00	111.43		
3,190.00	9.70	107.84	3,147.93	-161.47	415.57	445.84	111.23		
3,283.00	9.61	108.71	3,239.61	-166.36	430.38	461.41	111.13		
3,375.00	9.98	107.43	3,330.27	-171.21	445.26	477.04	111.03		
3,468.00	9.12	113.61	3,421.98	-176.58	459.70	492.45	111.01		
3,560.00	8.66	114.12	3,512.87	-182.33	472.71	506.65	111.09		
3,652.00	8.41	115.68	3,603.86	-188.08	485.09	520.27	111.19		
3,745.00	8.66	116.50	3,695.83	-194.15	497.49	534.03	111.32		
3,838.00	8.29	114.24	3,787.81	-200.02	509.86	547.70	111.42		
3,930.00	8.16	114.58	3,878.86	-205.46	521.85	560.84	111.49		
4,023.00	8.16	114.10	3,970.92	-210.90	533.88	574.02	111.56		
4,116.00	8.30	113.18	4,062.97	-216.24	546.07	587.33	111.60		
4,208.00	8.33	116.28	4,154.00	-221.80	558.15	600.61	111.67		
4,301.00	8.28	119.56	4,246.02	-228.09	570.02	613.96	111.81		
4,393.00	8.12	117.04	4,337.08	-234.31	581.57	626.99	111.94		
4,486.00	8.23	115.74	4,429.14	-240.19	593.41	640.18	112.04		
4,578.00	8.67	114.67	4,520.14	-245.94	605.65	653.68	112.10		
4,671.00	8.60	114.82	4,612.09	-251.79	618.33	667.63	112.16		
4,764.00	9.39	113.30	4,703.94	-257.71	631.61	682.16	112.20		
4,856.00	10.15	117.49	4,794.61	-264.42	645.69	697.73	112.27		
4,949.00	9.67	117.70	4,886.22	-271.83	659.87	713.67	112.39		
5,042.00	9.57	118.83	4,977.91	-279.19	673.56	729.13	112.51		

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Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,134.00	9.87	119.19	5,068.59	-286.72	687.15	744.57	112.65	
5,312.00	9.86	118.51	5,243.96	-301.44	713.86	774.89	112.89	
5,405.00	10.38	114.98	5,335.51	-308.78	728.45	791.19	112.97	
5,497.00	10.20	115.59	5,426.03	-315.80	743.31	807.61	113.02	
5,590.00	10.22	114.77	5,517.56	-322.81	758.23	824.08	113.06	
5,682.00	10.41	111.50	5,608.07	-329.28	773.37	840.55	113.06	
5,775.00	10.14	113.73	5,699.58	-335.65	788.68	857.14	113.05	
5,867.00	9.69	112.24	5,790.21	-341.84	803.26	872.98	113.05	
5,960.00	9.43	109.39	5,881.92	-347.33	817.69	888.40	113.01	
6,052.00	8.67	103.85	5,972.77	-351.49	831.54	902.77	112.91	
6,145.00	8.20	103.35	6,064.77	-354.70	844.80	916.24	112.78	
6,237.00	7.78	104.33	6,155.87	-357.76	857.21	928.87	112.65	
6,330.00	7.72	102.16	6,248.02	-360.63	869.42	941.25	112.53	
6,422.00	7.62	97.40	6,339.20	-362.72	881.51	953.22	112.37	
6,515.00	7.32	97.27	6,431.41	-364.26	893.50	964.90	112.18	
6,607.00	7.50	99.62	6,522.65	-366.01	905.23	976.43	112.01	
6,700.00	7.41	96.01	6,614.86	-367.65	917.18	988.12	111.84	
6,792.00	5.67	95.47	6,706.26	-368.70	927.61	998.20	111.68	
6,884.00	5.48	96.49	6,797.82	-369.63	936.49	1,006.80	111.54	
6,977.00	5.57	91.08	6,890.39	-370.22	945.42	1,015.32	111.39	
7,070.00	5.40	91.90	6,982.96	-370.45	954.31	1,023.69	111.22	
7,162.00	3.74	86.02	7,074.67	-370.39	961.63	1,030.49	111.07	
7,255.00	2.34	77.67	7,167.54	-369.77	966.51	1,034.83	110.94	
7,347.00	2.97	71.37	7,259.44	-368.61	970.60	1,038.24	110.80	
7,439.00	1.12	48.45	7,351.38	-367.25	973.53	1,040.50	110.67	
7,533.00	1.11	304.80	7,445.37	-366.12	973.47	1,040.04	110.61	
7,625.00	1.47	310.06	7,537.34	-364.85	971.84	1,038.07	110.58	
7,718.00	1.43	305.86	7,630.31	-363.41	969.98	1,035.82	110.54	
7,810.00	1.60	294.63	7,722.28	-362.20	967.89	1,033.44	110.52	
7,903.00	2.04	287.49	7,815.23	-361.16	965.13	1,030.49	110.52	
7,996.00	1.23	273.93	7,908.20	-360.59	962.55	1,027.88	110.54	
8,088.00	1.15	187.56	8,000.18	-361.44	961.45	1,027.14	110.60	
8,181.00	0.50	179.11	8,093.17	-362.77	961.33	1,027.50	110.67	
8,273.00	0.89	116.23	8,185.17	-363.49	961.98	1,028.36	110.70	
8,366.00	1.01	125.27	8,278.15	-364.28	963.29	1,029.87	110.71	
8,458.00	0.66	119.10	8,370.14	-365.01	964.42	1,031.18	110.73	
8,551.00	1.50	92.42	8,463.13	-365.32	966.10	1,032.87	110.71	
8,643.00	1.84	87.43	8,555.09	-365.30	968.78	1,035.37	110.66	
8,736.00	1.94	69.48	8,648.04	-364.69	971.75	1,037.92	110.57	
8,828.00	2.13	126.80	8,739.99	-365.16	974.57	1,040.74	110.54	
8,920.00	1.21	115.25	8,831.95	-366.60	976.82	1,043.35	110.57	
9,013.00	0.20	190.76	8,924.94	-367.18	977.68	1,044.36	110.58	
9,106.00	0.77	171.97	9,017.94	-367.96	977.74	1,044.68	110.62	
9,198.00	0.90	185.17	9,109.93	-369.29	977.76	1,045.17	110.69	
9,291.00	0.95	175.08	9,202.92	-370.79	977.76	1,045.70	110.77	

TRRC Certified Surveys

Company:	Percussion Petroleum II, LLC	Local Co-ordinate Reference:	Well UL Pahaska 21-6 S004H
Project:	Winkler Co., TX (NAD-27)	TVD Reference:	RKB @ 2849.00usft (Unit 407)
Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,383.00	0.96	173.07	9,294.90	-372.31	977.92	1,046.39	110.84	
9,476.00	0.74	182.79	9,387.89	-373.68	977.98	1,046.94	110.91	
9,568.00	0.70	216.24	9,479.89	-374.73	977.62	1,046.98	110.97	
9,661.00	0.94	234.84	9,572.88	-375.63	976.66	1,046.41	111.04	
9,754.00	0.69	224.04	9,665.87	-376.47	975.65	1,045.76	111.10	
9,846.00	0.67	316.16	9,757.86	-376.48	974.89	1,045.06	111.12	
9,939.00	2.43	288.79	9,850.83	-375.45	972.65	1,042.60	111.11	
10,031.00	2.42	306.87	9,942.74	-373.66	969.25	1,038.78	111.08	
10,124.00	2.09	341.05	10,035.68	-370.88	967.13	1,035.80	110.98	
10,216.00	2.29	9.51	10,127.61	-367.48	966.88	1,034.36	110.81	
10,309.00	2.30	11.84	10,220.54	-363.82	967.57	1,033.71	110.61	
10,402.00	1.70	11.66	10,313.48	-360.64	968.24	1,033.22	110.43	
10,494.00	1.20	4.15	10,405.45	-358.34	968.58	1,032.74	110.30	
10,587.00	0.68	33.07	10,498.44	-356.91	968.95	1,032.60	110.22	
10,681.00	1.09	61.66	10,592.43	-356.02	970.04	1,033.31	110.15	
10,775.00	1.13	341.77	10,686.41	-354.71	970.54	1,033.33	110.08	
10,868.00	2.63	303.62	10,779.37	-352.66	968.48	1,030.69	110.01	
10,960.00	2.76	309.96	10,871.26	-350.07	965.02	1,026.56	109.94	
11,053.00	4.16	316.95	10,964.09	-346.17	961.00	1,021.45	109.81	
11,177.00	9.27	350.96	11,087.24	-333.00	956.36	1,012.68	109.20	
11,236.00	13.99	2.52	11,145.02	-321.18	955.93	1,008.44	108.57	
11,329.00	19.45	5.13	11,234.06	-294.50	957.81	1,002.06	107.09	
11,486.00	31.97	13.59	11,375.28	-227.78	969.96	996.35	103.22	
11,579.00	43.98	2.32	11,448.54	-171.31	977.09	991.99	99.94	
11,672.00	64.56	0.27	11,502.56	-96.25	978.61	983.33	95.62	
11,795.00	87.86	349.58	11,531.76	21.68	967.57	967.82	88.72	
11,858.00	89.20	348.29	11,533.38	83.49	955.49	959.13	85.01	
12,008.00	92.45	342.36	11,531.22	228.50	917.52	945.54	76.02	
12,103.00	88.81	340.19	11,530.17	318.44	887.03	942.46	70.25	
12,197.00	91.28	341.52	11,530.10	407.23	856.20	948.11	64.56	
12,290.00	91.30	342.54	11,528.00	495.67	827.52	964.61	59.08	
12,383.00	90.83	342.06	11,526.28	584.26	799.25	990.03	53.83	
12,478.00	90.21	337.81	11,525.41	673.47	766.66	1,020.45	48.70	
12,572.00	90.85	339.94	11,524.54	761.14	732.79	1,056.56	43.91	
12,667.00	88.95	337.57	11,524.71	849.67	698.37	1,099.85	39.42	
12,761.00	90.01	339.36	11,525.56	937.10	663.87	1,148.42	35.31	
12,856.00	89.06	337.03	11,526.33	1,025.30	628.58	1,202.64	31.51	
12,950.00	90.52	341.91	11,526.68	1,113.30	595.63	1,262.62	28.15	
13,044.00	89.09	339.03	11,527.00	1,201.88	564.21	1,327.72	25.15	
13,138.00	90.29	343.77	11,527.51	1,290.94	534.24	1,397.11	22.48	
13,233.00	88.78	335.56	11,528.28	1,379.94	501.25	1,468.15	19.96	
13,300.00	89.71	339.09	11,529.16	1,441.74	475.43	1,518.11	18.25	
13,394.00	88.72	335.74	11,530.45	1,528.51	439.34	1,590.40	16.04	
13,487.00	89.12	338.23	11,532.20	1,614.09	402.99	1,663.63	14.02	

TRRC Certified Surveys

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Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
13,580.00	88.05	337.63	11,534.50	1,700.24	368.06	1,739.62	12.21	
13,675.00	88.58	341.46	11,537.29	1,789.20	334.88	1,820.27	10.60	
13,767.00	86.09	345.93	11,541.57	1,877.37	309.08	1,902.65	9.35	
13,861.00	91.72	347.16	11,543.37	1,968.74	287.22	1,989.58	8.30	
13,955.00	90.52	346.87	11,541.53	2,060.31	266.11	2,077.43	7.36	
14,050.00	88.72	345.72	11,542.16	2,152.60	243.60	2,166.34	6.46	
14,144.00	89.09	344.17	11,543.96	2,243.36	219.19	2,254.04	5.58	
14,237.00	88.53	343.55	11,545.89	2,332.67	193.34	2,340.67	4.74	
14,330.00	88.58	343.00	11,548.24	2,421.71	166.59	2,427.43	3.94	
14,424.00	88.56	344.11	11,550.58	2,511.83	139.99	2,515.73	3.19	
14,518.00	88.36	345.54	11,553.11	2,602.52	115.39	2,605.08	2.54	
14,611.00	88.16	346.06	11,555.93	2,692.64	92.59	2,694.23	1.97	
14,706.00	89.96	347.65	11,557.49	2,785.13	70.99	2,786.03	1.46	
14,800.00	93.10	345.66	11,554.98	2,876.54	49.30	2,876.96	0.98	
14,894.00	92.31	344.87	11,550.54	2,967.35	25.42	2,967.46	0.49	
14,989.00	92.68	345.62	11,546.41	3,059.13	1.25	3,059.13	0.02	
15,083.00	92.31	344.63	11,542.32	3,149.89	-22.86	3,149.97	359.58	
15,176.00	91.19	343.82	11,539.48	3,239.34	-48.13	3,239.70	359.15	
15,269.00	89.79	341.69	11,538.68	3,328.15	-75.70	3,329.01	358.70	
15,362.00	88.44	339.55	11,540.12	3,415.86	-106.55	3,417.53	358.21	
15,454.00	89.20	340.57	11,542.01	3,502.33	-137.92	3,505.04	357.74	
15,548.00	88.70	340.33	11,543.73	3,590.89	-169.37	3,594.89	357.30	
15,643.00	88.75	340.44	11,545.85	3,680.36	-201.25	3,685.86	356.87	
15,736.00	89.20	340.73	11,547.51	3,768.06	-232.16	3,775.20	356.47	
15,829.00	89.57	341.44	11,548.51	3,856.03	-262.31	3,864.94	356.11	
15,924.00	89.17	342.94	11,549.56	3,946.47	-291.36	3,957.21	355.78	
16,017.00	88.70	342.47	11,551.28	4,035.25	-319.00	4,047.84	355.48	
16,111.00	88.84	342.60	11,553.30	4,124.89	-347.21	4,139.48	355.19	
16,205.00	89.71	343.00	11,554.49	4,214.68	-375.00	4,231.33	354.92	
16,300.00	89.23	342.92	11,555.37	4,305.51	-402.84	4,324.31	354.65	
16,393.00	89.73	343.30	11,556.21	4,394.49	-429.86	4,415.46	354.41	
16,487.00	88.70	342.71	11,557.50	4,484.38	-457.33	4,507.64	354.18	
16,548.00	88.61	342.76	11,558.93	4,542.61	-475.43	4,567.42	354.03	
Last Survey @ 16548								
16,590.00	88.61	342.76	11,559.95	4,582.71	-487.87	4,608.61	353.92	
TD @ 16590								

TRRC Certified Surveys

Company:	Percussion Petroleum II, LLC	Local Co-ordinate Reference:	Well UL Pahaska 21-6 S004H
Project:	Winkler Co., TX (NAD-27)	TVD Reference:	RKB @ 2849.00usft (Unit 407)
Site:	UL Pahaska Pad	MD Reference:	RKB @ 2849.00usft (Unit 407)
Well:	UL Pahaska 21-6 S004H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	FHartmann

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
142.00	142.00	-0.77	-0.14	First AEP Survey @ 142
16,548.00	11,558.93	4,542.61	-475.43	Last Survey @ 16548
16,590.00	11,559.95	4,582.71	-487.87	TD @ 16590

Checked By: _____ Approved By: _____ Date: _____



ALTITUDE ENERGY PARTNERS LLC. SURVEY DATA CERTIFICATION

ALTITUDE JOB NUMBER		OPERATOR	
WELL NAME	COUNTY & STATE		
API WELL NUMBER	PROPOSED DIRECTION		
Latitude	Longitude		

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH		SURVEY INSTRUMENT TYPE	
					MWD	
				MAGNETIC DECLINATION OR TOTAL GRID		
LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH	TOTAL CORRECTION USED		
				DECLINATION OR GRID		
PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH			

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.

PRINT MWD NAME ABOVE

Robert Spivey

SIGN MWD NAME ABOVE

TODAY'S DATE