



3335 Pollok Drive
Conroe, Texas 77303
936.442.2500 (office)
www.msdir.com

30 December 2022

The Railroad Commission of Texas
Oil & Gas Division
PO Box 12967
Austin, TX 78711-2967

Point Energy Partners
UL Dino Juice 18-41-40-45 WA4 16H
Permit Number: 884108
Survey: UL
Abstract: N/A
Field: PHANTOM (WOLFCAMP)
Ward County, Texas

API Number: 42-475-38473

Please find the attached survey performed on the above referenced well by MS Directional LLC; Operator Number 592486.

Other information required by your office is as follows:

Name of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Chris Sulak	Original Wellbore	134.00' - 27143.00'	10/30/2022 - 12/09/2022	MWD

If any other information is required, please contact the undersigned at the letterhead address and telephone number.

Sincerely,

A handwritten signature in black ink, appearing to read 'CWD' followed by a stylized flourish.

Charles Davis
MWD Operations Manager



**Point Energy Partners
Ward County, Texas (NAD 27)
42-475-38473
UL Dino Juice 18-41-40-45 WA4 16H
Wellbore 1**

**MS MWD
Certified Survey Report
30 December 2022**

Field	Ward County, Texas (NAD 27) - Point Energy Partners		
CRS	US-SPC27-EXACT / Texas Central 4203	North Reference	GRID
Apply Scale Factor	NO	Scale Factor	1.000
System Datum	Mean Sea Level	Depth Datum->MSL	2866.00Usft

Well	UL Dino Juice 18-41-40-45 WA4 16H		
Local North	18.970Usft	Local East	-5.680Usft
Map Northing	723734.050UsFt	Map Easting	1060797.110UsFt
Latitude	31° 37' 17.742" N	Longitude	103° 21' 3.681" W
Depth Datum / Rig	Well-Akita 803 / Akita 803	Datum Elevation	2866.00Usft
GL Elevation	2835.00Usft	Grid Convergence	-1.554

Wellbore	UL Dino Juice 18-41-40-45 WA4 16H - Wellbore 1		
Magnetic Model	User defined	Date	01/11/2022
Total Field (nT)	46986.60	Dip Angle (deg)	59.283
Declination	6.650		
VS Origin	Well	VS Azimuth	163.73
VS Origin NS	0.00Usft	VS Origin EW	0.00Usft

Survey Program	UL Dino Juice 18-41-40-45 WA4 16H - Wellbore 1		
Depth From Usft	Depth To Usft	Survey	Survey Tool
0.00	27170.00	MS MWD	MWD+HRGM

Certified Survey Report									
MD Usft	INC deg	AZI deg	TVD Usft	NS Usft	EW Usft	VS Usft	DLS deg/100Usft	BR deg/100Usft	TR deg/100Usft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134.00	0.88	195.14	133.99	-0.99	-0.27	0.88	0.66	0.66	0.00
220.00	1.19	223.88	219.98	-2.27	-1.06	1.89	0.69	0.36	33.42
310.00	0.09	258.69	309.97	-2.96	-1.78	2.35	1.24	-1.22	38.68
410.00	1.49	344.73	409.96	-1.72	-2.20	1.04	1.49	1.40	86.04
504.00	1.98	353.70	503.92	1.07	-2.70	-1.78	0.59	0.52	9.54
598.00	1.98	2.31	597.86	4.31	-2.81	-4.92	0.32	0.00	9.16
694.00	1.01	11.89	693.83	6.79	-2.57	-7.24	1.04	-1.01	9.98
789.00	0.40	81.76	788.82	7.66	-2.07	-7.93	1.00	-0.64	73.55
884.00	0.31	119.56	883.82	7.58	-1.52	-7.70	0.26	-0.09	39.79
979.00	0.31	139.51	978.82	7.26	-1.13	-7.28	0.11	0.00	21.00
1074.00	0.40	151.64	1073.82	6.77	-0.80	-6.72	0.12	0.09	12.77
1168.00	0.70	168.51	1167.81	5.92	-0.53	-5.83	0.36	0.32	17.95
1192.00	0.48	123.60	1191.81	5.72	-0.42	-5.61	2.06	-0.92	-187.12
1290.00	0.62	162.80	1289.81	4.99	0.08	-4.76	0.40	0.14	40.00
1355.00	0.48	153.22	1354.81	4.41	0.31	-4.14	0.26	-0.22	-14.74
1450.00	0.70	48.89	1449.80	4.43	0.92	-4.00	0.99	0.23	-109.82
1545.00	1.10	47.22	1544.79	5.43	2.03	-4.65	0.42	0.42	-1.76
1639.00	1.10	48.37	1638.77	6.65	3.37	-5.44	0.02	0.00	1.22
1734.00	1.10	53.11	1733.76	7.80	4.78	-6.15	0.10	0.00	4.99
1829.00	1.10	51.53	1828.74	8.91	6.22	-6.81	0.03	0.00	-1.66
1923.00	1.49	47.93	1922.71	10.29	7.83	-7.69	0.42	0.41	-3.83
2018.00	4.09	37.38	2017.59	13.81	10.81	-10.23	2.78	2.74	-11.11
2113.00	6.81	35.18	2112.16	21.11	16.11	-15.75	2.87	2.86	-2.32
2207.00	6.68	34.74	2205.51	30.16	22.44	-22.66	0.15	-0.14	-0.47
2302.00	6.90	36.94	2299.84	39.26	29.02	-29.56	0.36	0.23	2.32
2398.00	6.99	38.17	2395.13	48.46	36.09	-36.41	0.18	0.09	1.28
2492.00	6.90	38.26	2488.45	57.39	43.12	-43.01	0.10	-0.10	0.10
2588.00	6.99	34.30	2583.74	66.75	49.99	-50.07	0.51	0.09	-4.12
2682.00	6.81	29.91	2677.06	76.30	55.99	-57.56	0.59	-0.19	-4.67
2776.00	6.90	26.22	2770.39	86.20	61.26	-65.58	0.48	0.10	-3.93
2870.00	6.81	23.14	2863.72	96.39	65.95	-74.05	0.40	-0.10	-3.28
2965.00	6.68	22.09	2958.06	106.69	70.24	-82.74	0.19	-0.14	-1.11
3059.00	6.99	19.19	3051.39	117.16	74.17	-91.68	0.49	0.33	-3.09
3153.00	6.81	18.31	3144.71	127.85	77.81	-100.93	0.22	-0.19	-0.94
3248.00	6.90	14.88	3239.03	138.71	81.04	-110.45	0.44	0.09	-3.61
3341.00	6.81	7.76	3331.37	149.57	83.22	-120.27	0.92	-0.10	-7.66
3436.00	6.81	2.22	3425.70	160.78	84.20	-130.75	0.69	0.00	-5.83
3530.00	6.81	358.00	3519.04	171.92	84.22	-141.44	0.53	0.00	4.49
3625.00	6.20	356.16	3613.43	182.67	83.68	-151.91	0.68	-0.64	-1.94
3720.00	4.31	2.22	3708.02	191.36	83.47	-160.31	2.07	-1.99	6.38
3815.00	2.81	9.61	3802.84	197.22	84.00	-165.79	1.65	-1.58	7.78
3909.00	1.10	354.66	3896.78	200.39	84.30	-168.75	1.88	-1.82	15.90
4004.00	0.22	290.33	3991.77	201.36	84.05	-169.75	1.08	-0.93	-67.72
4098.00	0.22	291.82	4085.77	201.49	83.71	-169.97	0.01	0.00	1.59
4193.00	0.22	54.78	4180.77	201.66	83.69	-170.14	0.41	0.00	129.43
4288.00	0.09	356.42	4275.77	201.84	83.83	-170.27	0.20	-0.14	61.43
4383.00	0.09	323.64	4370.77	201.98	83.78	-170.42	0.05	0.00	-34.51
4478.00	0.22	294.72	4465.77	202.11	83.57	-170.60	0.16	0.14	-30.44
4573.00	0.40	257.11	4560.77	202.12	83.09	-170.74	0.28	0.19	-39.59
4668.00	0.31	251.57	4655.77	201.96	82.52	-170.75	0.10	-0.09	-5.83
4763.00	0.31	56.19	4750.77	202.02	82.49	-170.82	0.65	0.00	173.28

Certified Survey Report

MD Usft	INC deg	AZI deg	TVD Usft	NS Usft	EW Usft	VS Usft	DLS deg/100Usft	BR deg/100Usft	TR deg/100Usft
4858.00	0.22	14.09	4845.77	202.34	82.75	-171.06	0.22	-0.09	-44.32
4953.00	0.09	16.64	4940.77	202.59	82.81	-171.28	0.14	-0.14	2.68
5048.00	0.22	293.67	5035.77	202.74	82.67	-171.46	0.24	0.14	87.34
5143.00	0.09	107.87	5130.77	202.79	82.57	-171.53	0.33	-0.14	183.37
5238.00	0.09	44.59	5225.77	202.82	82.69	-171.53	0.10	0.00	-66.61
5332.00	0.22	351.41	5319.77	203.05	82.72	-171.74	0.19	0.14	56.57
5426.00	0.22	322.41	5413.77	203.37	82.58	-172.09	0.12	0.00	-30.85
5521.00	0.22	353.61	5508.76	203.69	82.45	-172.44	0.12	0.00	32.84
5616.00	0.09	210.70	5603.76	203.81	82.39	-172.57	0.31	-0.14	-150.43
5711.00	0.09	191.63	5698.76	203.67	82.34	-172.45	0.03	0.00	-20.07
5806.00	0.22	59.79	5793.76	203.69	82.48	-172.43	0.30	0.14	-138.78
5901.00	0.09	68.93	5888.76	203.81	82.71	-172.48	0.14	-0.14	9.62
5996.00	0.22	160.78	5983.76	203.67	82.84	-172.30	0.25	0.14	96.68
6091.00	0.09	256.49	6078.76	203.48	82.82	-172.12	0.26	-0.14	100.75
6186.00	0.22	73.06	6173.76	203.51	82.93	-172.13	0.33	0.14	185.86
6281.00	0.09	146.80	6268.76	203.50	83.14	-172.06	0.22	-0.14	77.62
6376.00	0.22	81.76	6363.76	203.47	83.36	-171.96	0.21	0.14	-68.46
6471.00	0.09	244.19	6458.76	203.46	83.48	-171.92	0.32	-0.14	170.98
6567.00	0.09	209.12	6554.76	203.36	83.37	-171.86	0.06	0.00	-36.53
6661.00	0.22	50.39	6648.76	203.41	83.48	-171.88	0.33	0.14	-168.86
6756.00	0.22	255.08	6743.76	203.48	83.44	-171.96	0.45	0.00	163.48
6851.00	0.09	49.77	6838.76	203.48	83.32	-171.99	0.32	-0.14	162.83
6946.00	0.09	290.07	6933.76	203.56	83.31	-172.06	0.16	0.00	126.00
7040.00	0.22	152.60	7027.76	203.42	83.32	-171.93	0.31	0.14	-146.24
7136.00	0.09	97.67	7123.76	203.25	83.48	-171.72	0.19	-0.14	-57.22
7231.00	0.22	197.16	7218.76	203.06	83.50	-171.54	0.26	0.14	104.73
7325.00	0.22	160.07	7312.76	202.72	83.51	-171.21	0.15	0.00	-39.46
7421.00	0.22	224.67	7408.76	202.42	83.44	-170.93	0.24	0.00	67.29
7516.00	0.22	309.66	7503.76	202.40	83.17	-171.00	0.31	0.00	89.46
7610.00	0.09	158.14	7597.76	202.45	83.06	-171.07	0.32	-0.14	-161.19
7690.00	0.22	236.36	7677.76	202.31	82.96	-170.96	0.28	0.16	97.77
7722.00	0.09	169.74	7709.76	202.25	82.91	-170.92	0.63	-0.41	-208.19
7816.00	0.31	161.66	7803.76	201.93	83.00	-170.59	0.24	0.23	-8.60
7911.00	0.31	165.08	7898.76	201.44	83.15	-170.08	0.02	0.00	3.60
8006.00	0.31	214.39	7993.76	200.98	83.07	-169.66	0.27	0.00	51.91
8101.00	0.48	228.10	8088.75	200.50	82.63	-169.32	0.20	0.18	14.43
8196.00	0.70	233.73	8183.75	199.89	81.87	-168.95	0.24	0.23	5.93
8291.00	0.70	225.64	8278.74	199.15	80.98	-168.48	0.10	0.00	-8.52
8385.00	0.70	227.66	8372.73	198.36	80.15	-167.96	0.03	0.00	2.15
8480.00	0.79	227.49	8467.73	197.52	79.24	-167.41	0.09	0.09	-0.18
8574.00	0.88	220.63	8561.72	196.54	78.29	-166.73	0.14	0.10	-7.30
8669.00	0.79	209.91	8656.71	195.42	77.49	-165.88	0.19	-0.09	-11.28
8763.00	0.79	207.01	8750.70	194.28	76.87	-164.96	0.04	0.00	-3.09
8858.00	0.62	206.66	8845.69	193.24	76.34	-164.11	0.18	-0.18	-0.37
8952.00	0.62	187.67	8939.68	192.28	76.05	-163.27	0.22	0.00	-20.20
9047.00	0.70	168.42	9034.68	191.20	76.09	-162.22	0.25	0.08	-20.26
9142.00	0.62	154.71	9129.67	190.17	76.43	-161.14	0.19	-0.08	-14.43
9236.00	0.40	153.22	9223.67	189.41	76.80	-160.31	0.23	-0.23	-1.59
9330.00	0.22	190.13	9317.67	188.94	76.91	-159.83	0.28	-0.19	39.27
9425.00	0.62	219.84	9412.66	188.37	76.55	-159.38	0.47	0.42	31.27
9521.00	0.79	225.29	9508.66	187.50	75.75	-158.77	0.19	0.18	5.68
9615.00	0.70	252.36	9602.65	186.87	74.74	-158.45	0.38	-0.10	28.80
9710.00	0.48	284.53	9697.64	186.80	73.80	-158.64	0.41	-0.23	33.86
9805.00	0.88	283.56	9792.64	187.07	72.71	-159.21	0.42	0.42	-1.02
9900.00	1.41	260.89	9887.62	187.05	70.84	-159.72	0.72	0.56	-23.86
9995.00	2.11	253.59	9982.57	186.38	68.01	-159.86	0.77	0.74	-7.68
10090.00	2.42	255.00	10077.50	185.36	64.40	-159.90	0.33	0.33	1.48
10184.00	2.20	255.79	10171.42	184.41	60.73	-160.01	0.24	-0.23	0.84
10279.00	1.19	250.34	10266.38	183.63	58.03	-160.01	1.08	-1.06	-5.74
10373.00	1.10	241.81	10360.36	182.87	56.32	-159.77	0.20	-0.10	-9.07
10468.00	1.19	230.48	10455.34	181.81	54.76	-159.19	0.26	0.09	-11.93
10562.00	1.10	236.36	10549.32	180.69	53.25	-158.54	0.16	-0.10	6.26
10657.00	0.88	248.58	10644.31	179.92	51.81	-158.20	0.32	-0.23	12.86
10751.00	0.88	244.80	10738.30	179.35	50.49	-158.02	0.06	0.00	-4.02
10846.00	1.41	249.90	10833.28	178.64	48.73	-157.83	0.57	0.56	5.37
10940.00	1.41	253.24	10927.25	177.91	46.54	-157.74	0.09	0.00	3.55
11035.00	1.32	238.82	11022.22	177.00	44.48	-157.45	0.37	-0.09	-15.18
11130.00	1.49	230.04	11117.20	175.64	42.60	-156.67	0.29	0.18	-9.24
11182.00	1.19	223.00	11169.18	174.81	41.71	-156.13	0.66	-0.58	-13.54
11327.00	0.62	240.41	11314.16	173.33	40.00	-155.18	0.43	-0.39	12.01
11374.00	1.32	189.96	11361.16	172.67	39.69	-154.63	2.22	1.49	-107.34
11422.00	6.90	217.12	11409.02	169.82	37.85	-152.42	11.99	11.62	56.58
11469.00	13.32	207.10	11455.27	162.74	33.68	-146.79	14.11	13.66	-21.32
11517.00	20.48	198.04	11501.17	149.82	28.55	-135.82	15.85	14.92	-18.87
11564.00	26.68	195.14	11544.23	131.79	23.24	-120.00	13.42	13.19	-6.17
11612.00	30.68	182.84	11586.37	109.13	19.82	-99.21	14.82	8.33	-25.62
11659.00	36.48	176.60	11625.52	83.18	20.05	-74.23	14.35	12.34	-13.28
11707.00	41.89	169.57	11662.73	53.14	23.80	-44.34	14.57	11.27	-14.65

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MD Usft	INC deg	AZI deg	TVD Usft	NS Usft	EW Usft	VS Usft	DLS deg/100Usft	BR deg/100Usft	TR deg/100Usft
11754.00	43.60	158.32	11697.29	22.60	32.64	-12.55	16.63	3.64	-23.94
11801.00	45.89	150.32	11730.70	-7.15	47.00	20.03	12.93	4.87	-17.02
11848.00	50.42	149.97	11762.05	-37.50	64.43	54.05	9.65	9.64	-0.74
11896.00	54.20	150.58	11791.39	-70.49	83.25	90.99	7.94	7.87	1.27
11943.00	57.01	151.02	11817.93	-104.34	102.17	128.78	6.03	5.98	0.94
11990.00	59.91	151.46	11842.52	-139.45	121.44	167.89	6.22	6.17	0.94
12037.00	63.91	154.36	11864.65	-176.36	140.30	208.60	10.10	8.51	6.17
12085.00	71.12	158.32	11883.00	-216.96	158.04	252.55	16.84	15.02	8.25
12132.00	78.29	160.69	11895.39	-259.40	173.89	297.73	16.01	15.26	5.04
12180.00	81.89	160.78	11903.65	-304.03	189.49	344.94	7.50	7.50	0.19
12227.00	83.12	160.51	11909.78	-348.00	204.93	391.47	2.68	2.62	-0.57
12274.00	89.32	161.92	11912.88	-392.37	220.02	438.30	13.53	13.19	3.00
12368.00	90.29	162.18	11913.20	-481.80	248.99	532.26	1.07	1.03	0.28
12427.00	89.32	161.83	11913.40	-537.91	267.22	591.23	1.75	-1.64	-0.59
12498.00	88.79	162.01	11914.57	-605.39	289.25	662.19	0.79	-0.75	0.25
12593.00	87.21	161.57	11917.88	-695.58	318.92	757.07	1.73	-1.66	-0.46
12688.00	88.40	161.83	11921.52	-785.71	348.72	851.94	1.28	1.25	0.27
12783.00	87.30	162.18	11925.09	-875.99	378.05	946.83	1.22	-1.16	0.37
12878.00	86.11	161.57	11930.55	-966.13	407.56	1041.62	1.41	-1.25	-0.64
12972.00	86.29	159.90	11936.78	-1054.67	438.50	1135.28	1.78	0.19	-1.78
13089.00	85.71	159.64	11944.94	-1164.18	478.86	1251.72	0.54	-0.50	-0.22
13184.00	88.09	161.04	11950.08	-1253.50	510.77	1346.40	2.91	2.51	1.47
13278.00	89.80	162.71	11951.81	-1342.82	540.00	1440.33	2.54	1.82	1.78
13373.00	90.90	163.41	11951.23	-1433.69	567.68	1535.32	1.37	1.16	0.74
13467.00	91.60	162.80	11949.18	-1523.61	595.00	1629.29	0.99	0.74	-0.65
13562.00	91.38	163.41	11946.71	-1614.48	622.59	1724.25	0.68	-0.23	0.64
13656.00	91.60	164.82	11944.26	-1704.86	648.31	1818.22	1.52	0.23	1.50
13751.00	91.60	165.17	11941.61	-1796.58	672.90	1913.16	0.37	0.00	0.37
13845.00	91.52	164.73	11939.05	-1887.33	697.30	2007.10	0.48	-0.09	-0.47
13940.00	91.60	164.91	11936.46	-1978.98	722.17	2102.05	0.21	0.08	0.19
14034.00	91.78	165.44	11933.69	-2069.81	746.21	2195.98	0.60	0.19	0.56
14128.00	91.91	164.91	11930.66	-2160.63	770.25	2289.90	0.58	0.14	-0.56
14223.00	91.60	164.91	11927.76	-2252.31	794.97	2384.83	0.33	-0.33	0.00
14317.00	91.12	165.08	11925.52	-2343.08	819.30	2478.78	0.54	-0.51	0.18
14411.00	90.90	165.00	11923.87	-2433.88	843.56	2572.74	0.25	-0.23	-0.09
14506.00	90.90	164.73	11922.38	-2525.58	868.36	2667.71	0.28	0.00	-0.28
14601.00	91.12	165.00	11920.70	-2617.27	893.16	2762.68	0.37	0.23	0.28
14695.00	91.12	163.50	11918.86	-2707.72	918.67	2856.66	1.60	0.00	-1.60
14790.00	90.99	163.06	11917.11	-2798.68	945.99	2951.64	0.48	-0.14	-0.46
14884.00	90.42	162.62	11915.96	-2888.49	973.73	3045.62	0.77	-0.61	-0.47
14979.00	90.59	162.89	11915.12	-2979.22	1001.89	3140.60	0.34	0.18	0.28
15074.00	90.59	163.24	11914.14	-3070.09	1029.56	3235.59	0.37	0.00	0.37
15168.00	90.68	164.03	11913.10	-3160.28	1056.04	3329.58	0.85	0.10	0.84
15263.00	90.68	163.50	11911.97	-3251.48	1082.60	3424.57	0.56	0.00	-0.56
15358.00	90.68	163.06	11910.85	-3342.46	1109.93	3519.56	0.46	0.00	-0.46
15452.00	90.59	163.06	11909.80	-3432.38	1137.32	3613.55	0.10	-0.10	0.00
15547.00	90.20	162.98	11909.15	-3523.23	1165.06	3708.54	0.42	-0.41	-0.08
15641.00	89.89	162.89	11909.07	-3613.09	1192.64	3802.53	0.34	-0.33	-0.10
15736.00	89.98	162.98	11909.18	-3703.91	1220.52	3897.52	0.13	0.09	0.09
15830.00	90.11	162.98	11909.11	-3793.79	1248.04	3991.52	0.14	0.14	0.00
15925.00	90.11	163.06	11908.93	-3884.65	1275.78	4086.51	0.08	0.00	0.08
16019.00	90.29	162.89	11908.60	-3974.53	1303.30	4180.50	0.26	0.19	-0.18
16114.00	90.20	162.98	11908.19	-4065.35	1331.18	4275.49	0.13	-0.09	0.09
16209.00	90.11	162.98	11907.93	-4156.19	1358.99	4370.48	0.09	-0.09	0.00
16303.00	90.29	162.89	11907.61	-4246.05	1386.57	4464.47	0.21	0.19	-0.10
16397.00	90.29	163.24	11907.13	-4335.97	1413.95	4558.46	0.37	0.00	0.37
16492.00	90.20	164.12	11906.72	-4427.14	1440.65	4653.46	0.93	-0.09	0.93
16586.00	89.98	164.91	11906.58	-4517.73	1465.74	4747.45	0.87	-0.23	0.84
16681.00	90.11	165.08	11906.50	-4609.49	1490.34	4842.43	0.23	0.14	0.18
16775.00	89.98	165.26	11906.43	-4700.36	1514.40	4936.40	0.24	-0.14	0.19
16869.00	89.98	164.91	11906.46	-4791.19	1538.59	5030.37	0.37	0.00	-0.37
16964.00	90.20	165.17	11906.31	-4882.97	1563.12	5125.35	0.36	0.23	0.27
17058.00	91.12	166.58	11905.23	-4974.12	1586.05	5219.27	1.79	0.98	1.50
17149.00	89.98	165.44	11904.36	-5062.41	1608.05	5310.19	1.77	-1.25	-1.25
17239.00	90.20	164.56	11904.21	-5149.35	1631.35	5400.17	1.01	0.24	-0.98
17329.00	90.11	162.89	11903.97	-5235.74	1656.57	5490.17	1.86	-0.10	-1.86
17419.00	89.98	162.54	11903.90	-5321.67	1683.31	5580.15	0.41	-0.14	-0.39
17509.00	90.11	162.98	11903.83	-5407.63	1709.98	5670.14	0.51	0.14	0.49
17599.00	90.68	163.06	11903.21	-5493.70	1736.26	5760.13	0.64	0.63	0.09
17689.00	89.71	163.06	11902.90	-5579.80	1762.49	5850.12	1.08	-1.08	0.00
17779.00	89.89	162.10	11903.22	-5665.67	1789.43	5940.10	1.09	0.20	-1.07
17869.00	89.89	162.36	11903.39	-5751.37	1816.90	6030.07	0.29	0.00	0.29
17960.00	90.11	162.80	11903.39	-5838.20	1844.14	6121.05	0.54	0.24	0.48
18049.00	90.59	163.59	11902.85	-5923.39	1869.87	6210.05	1.04	0.54	0.89
18140.00	89.80	162.80	11902.54	-6010.51	1896.18	6301.04	1.23	-0.87	-0.87
18230.00	89.80	162.80	11902.85	-6096.48	1922.79	6391.03	0.00	0.00	0.00
18320.00	90.20	163.24	11902.85	-6182.56	1949.08	6481.02	0.66	0.44	0.49
18410.00	90.20	162.98	11902.54	-6268.67	1975.23	6571.01	0.29	0.00	-0.29

Certified Survey Report

MD Usft	INC deg	AZI deg	TVD Usft	NS Usft	EW Usft	VS Usft	DLS deg/100Usft	BR deg/100Usft	TR deg/100Usft
18499.00	89.98	163.24	11902.40	-6353.84	2001.08	6660.01	0.38	-0.25	0.29
18589.00	89.98	163.06	11902.43	-6439.97	2027.17	6750.00	0.20	0.00	-0.20
18680.00	89.98	163.33	11902.46	-6527.08	2053.48	6841.00	0.30	0.00	0.30
18769.00	90.11	163.06	11902.39	-6612.28	2079.21	6930.00	0.34	0.15	-0.30
18859.00	90.11	162.98	11902.22	-6698.36	2105.49	7019.99	0.09	0.00	-0.09
18949.00	90.11	162.80	11902.04	-6784.38	2131.97	7109.98	0.20	0.00	-0.20
19039.00	90.59	162.89	11901.49	-6870.37	2158.52	7199.97	0.54	0.53	0.10
19130.00	91.21	162.98	11900.07	-6957.35	2185.22	7290.95	0.69	0.68	0.10
19220.00	91.12	162.98	11898.24	-7043.39	2211.56	7380.92	0.10	-0.10	0.00
19311.00	91.69	163.50	11896.00	-7130.50	2237.79	7471.89	0.85	0.63	0.57
19401.00	90.90	162.27	11893.97	-7216.49	2264.27	7561.85	1.62	-0.88	-1.37
19491.00	91.12	162.62	11892.38	-7302.29	2291.41	7651.82	0.46	0.24	0.39
19581.00	90.42	161.22	11891.17	-7387.83	2319.34	7741.76	1.74	-0.78	-1.56
19671.00	90.68	162.27	11890.31	-7473.30	2347.53	7831.70	1.20	0.29	1.17
19761.00	90.51	162.80	11889.38	-7559.14	2374.54	7921.68	0.62	-0.19	0.59
19851.00	90.42	162.98	11888.65	-7645.16	2401.02	8011.66	0.22	-0.10	0.20
19942.00	89.98	162.18	11888.33	-7731.98	2428.26	8102.64	1.00	-0.48	-0.88
20032.00	90.68	162.98	11887.81	-7817.85	2455.20	8192.62	1.18	0.78	0.89
20122.00	90.81	162.80	11886.64	-7903.86	2481.68	8282.61	0.25	0.14	-0.20
20213.00	88.31	162.89	11887.34	-7990.80	2508.52	8373.58	2.75	-2.75	0.10
20303.00	90.59	166.23	11888.20	-8077.53	2532.47	8463.55	4.49	2.53	3.71
20393.00	93.58	171.41	11884.93	-8165.73	2549.91	8553.10	6.64	3.32	5.76
20483.00	93.58	170.09	11879.31	-8254.38	2564.34	8642.25	1.46	0.00	-1.47
20572.00	90.90	166.14	11875.83	-8341.38	2582.66	8730.89	5.36	-3.01	-4.44
20663.00	88.88	160.87	11876.00	-8428.60	2608.48	8821.86	6.20	-2.22	-5.79
20721.00	89.71	162.27	11876.71	-8483.62	2626.82	8879.81	2.81	1.43	2.41
20811.00	89.98	165.00	11876.96	-8569.96	2652.17	8969.80	3.05	0.30	3.03
20901.00	89.98	165.26	11876.99	-8656.95	2675.27	9059.77	0.29	0.00	0.29
20991.00	90.99	164.73	11876.23	-8743.88	2698.57	9149.75	1.27	1.12	-0.59
21081.00	90.99	165.17	11874.67	-8830.78	2721.94	9239.71	0.49	0.00	0.49
21171.00	91.12	165.00	11873.02	-8917.73	2745.10	9329.67	0.24	0.14	-0.19
21261.00	91.12	165.08	11871.26	-9004.66	2768.33	9419.63	0.09	0.00	0.09
21351.00	91.12	164.73	11869.50	-9091.54	2791.76	9509.59	0.39	0.00	-0.39
21441.00	90.99	165.00	11867.84	-9178.40	2815.25	9599.56	0.33	-0.14	0.30
21531.00	91.60	164.82	11865.81	-9265.28	2838.68	9689.52	0.71	0.68	-0.20
21622.00	91.52	165.44	11863.33	-9353.20	2862.02	9780.46	0.69	-0.09	0.68
21712.00	91.60	163.68	11860.88	-9439.91	2885.97	9870.41	1.96	0.09	-1.96
21802.00	91.52	162.98	11858.43	-9526.10	2911.78	9960.37	0.78	-0.09	-0.78
21893.00	91.52	163.24	11856.01	-9613.14	2938.21	10051.34	0.29	0.00	0.29
21983.00	91.52	163.06	11853.63	-9699.25	2964.29	10141.30	0.20	0.00	-0.20
22073.00	91.60	162.80	11851.18	-9785.25	2990.70	10231.26	0.30	0.09	-0.29
22163.00	91.52	162.71	11848.73	-9871.17	3017.37	10321.21	0.13	-0.09	-0.10
22254.00	91.52	162.54	11846.31	-9957.99	3044.53	10412.16	0.19	0.00	-0.19
22344.00	91.52	162.98	11843.93	-10043.92	3071.20	10502.12	0.49	0.00	0.49
22435.00	91.52	162.80	11841.51	-10130.86	3097.96	10593.08	0.20	0.00	-0.20
22525.00	91.52	162.98	11839.12	-10216.84	3124.43	10683.04	0.20	0.00	0.20
22615.00	91.12	163.77	11837.05	-10303.06	3150.17	10773.01	0.98	-0.44	0.88
22706.00	91.12	163.50	11835.27	-10390.36	3175.81	10863.99	0.30	0.00	-0.30
22796.00	91.12	162.98	11833.51	-10476.52	3201.76	10953.97	0.58	0.00	-0.58
22885.00	91.12	162.80	11831.77	-10561.56	3227.94	11042.94	0.20	0.00	-0.20
22975.00	91.30	162.98	11829.87	-10647.56	3254.41	11132.91	0.28	0.20	0.20
23065.00	90.90	162.80	11828.14	-10733.56	3280.88	11222.89	0.49	-0.44	-0.20
23151.00	91.60	163.33	11826.27	-10815.81	3305.93	11308.86	1.02	0.81	0.62
23241.00	90.90	162.80	11824.31	-10901.88	3332.14	11398.83	0.98	-0.78	-0.59
23331.00	91.38	163.33	11822.51	-10987.96	3358.35	11488.81	0.79	0.53	0.59
23421.00	91.52	163.24	11820.24	-11074.13	3384.22	11578.78	0.18	0.16	-0.10
23512.00	91.30	163.06	11818.00	-11161.20	3410.59	11669.74	0.31	-0.24	-0.20
23602.00	91.30	163.50	11815.96	-11247.37	3436.48	11759.72	0.49	0.00	0.49
23692.00	91.30	163.68	11813.91	-11333.68	3461.90	11849.69	0.20	0.00	0.20
23782.00	90.81	165.96	11812.26	-11420.52	3485.46	11939.66	2.59	-0.54	2.53
23873.00	91.69	165.44	11810.27	-11508.68	3507.93	12030.58	1.12	0.97	-0.57
23964.00	91.12	167.28	11808.04	-11597.08	3529.38	12121.45	2.12	-0.63	2.02
24055.00	91.78	165.96	11805.74	-11685.58	3550.43	12212.30	1.62	0.73	-1.45
24145.00	91.21	167.81	11803.39	-11773.20	3570.85	12302.13	2.15	-0.63	2.06
24235.00	91.38	166.40	11801.36	-11860.91	3590.93	12391.95	1.58	0.19	-1.57
24325.00	91.38	162.54	11799.19	-11947.58	3615.01	12481.90	4.29	0.00	-4.29
24415.00	90.90	161.31	11797.40	-12033.12	3642.93	12571.84	1.47	-0.53	-1.37
24505.00	90.90	161.13	11795.98	-12118.32	3671.90	12661.74	0.20	0.00	-0.20
24596.00	90.68	161.31	11794.73	-12204.47	3701.19	12752.64	0.31	-0.24	0.20
24685.00	90.99	161.48	11793.43	-12288.81	3729.58	12841.56	0.40	0.35	0.19
24775.00	90.59	161.39	11792.19	-12374.11	3758.24	12931.48	0.46	-0.44	-0.10
24865.00	90.29	163.59	11791.50	-12459.94	3785.31	13021.45	2.47	-0.33	2.44
24956.00	90.99	162.54	11790.48	-12546.98	3811.82	13112.44	1.39	0.77	-1.15
25047.00	90.68	161.31	11789.16	-12633.48	3840.05	13203.38	1.39	-0.34	-1.35
25137.00	90.68	163.06	11788.09	-12719.16	3867.58	13293.34	1.94	0.00	1.94
25228.00	90.68	166.32	11787.01	-12806.91	3891.60	13384.31	3.58	0.00	3.58
25318.00	90.68	167.81	11785.94	-12894.62	3911.75	13474.14	1.66	0.00	1.66
25408.00	91.38	165.17	11784.32	-12982.10	3932.76	13564.02	3.03	0.78	-2.93

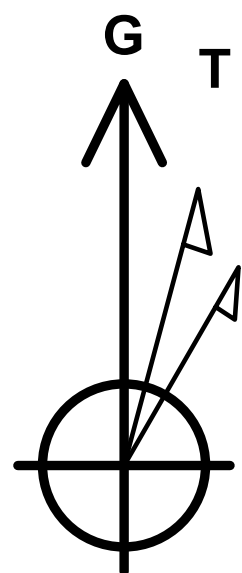
Certified Survey Report

MD Usft	INC deg	AZI deg	TVD Usft	NS Usft	EW Usft	VS Usft	DLS deg/100Usft	BR deg/100Usft	TR deg/100Usft
25498.00	91.12	162.10	11782.36	-13068.43	3958.11	13653.98	3.42	-0.29	-3.41
25588.00	90.11	164.91	11781.39	-13154.71	3983.66	13743.97	3.32	-1.12	3.12
25678.00	91.12	165.70	11780.43	-13241.76	4006.49	13833.93	1.42	1.12	0.88
25769.00	90.90	166.23	11778.82	-13330.03	4028.56	13924.84	0.63	-0.24	0.58
25859.00	90.99	163.33	11777.34	-13416.85	4052.18	14014.81	3.22	0.10	-3.22
25951.00	90.81	160.60	11775.89	-13504.31	4080.66	14106.74	2.97	-0.20	-2.97
26041.00	90.81	161.13	11774.62	-13589.33	4110.15	14196.62	0.59	0.00	0.59
26132.00	91.12	158.41	11773.09	-13674.69	4141.61	14287.38	3.01	0.34	-2.99
26222.00	90.99	159.99	11771.43	-13758.81	4173.57	14377.08	1.76	-0.14	1.76
26312.00	90.90	162.80	11769.94	-13844.09	4202.27	14466.99	3.12	-0.10	3.12
26402.00	90.68	163.50	11768.70	-13930.21	4228.36	14556.97	0.82	-0.24	0.78
26492.00	91.12	166.49	11767.29	-14017.12	4251.65	14646.93	3.36	0.49	3.32
26582.00	92.48	166.23	11764.46	-14104.54	4272.87	14736.79	1.54	1.51	-0.29
26672.00	91.30	167.46	11761.49	-14192.13	4293.34	14826.60	1.89	-1.31	1.37
26762.00	91.78	166.23	11759.08	-14279.73	4313.81	14916.44	1.47	0.53	-1.37
26853.00	92.09	163.24	11756.00	-14367.46	4337.76	15007.36	3.30	0.34	-3.29
26943.00	92.62	161.04	11752.30	-14453.05	4365.33	15097.24	2.51	0.59	-2.44
27036.00	91.78	161.22	11748.73	-14540.98	4395.39	15190.08	0.92	-0.90	0.19
27123.00	91.60	163.33	11746.17	-14623.81	4421.86	15277.01	2.43	-0.21	2.43
27143.00	91.52	163.50	11745.62	-14642.97	4427.57	15297.00	0.94	-0.40	0.85
27170.00	91.52	163.50	11744.91	-14668.85	4435.23	15323.99	0.00	0.00	0.00 PTB



Company: Point Energy Partners
Well: UL Dino Juice 18-41-40-45 WA4 #16H
County: Ward County, Texas (NAD 27)
Rig: Akita 803
Wellbore: Wellbore #1
Design: Design #3
Date: 17:56, December 07 2022

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Texas Central 4203
System Datum: Mean Sea Level



Azimuths to Grid North
True North: 1.55°
Magnetic North: 8.20°

Magnetic Field
Strength: 46986.6nT
Dip Angle: 59.28°
Date: 11/1/2022
Model: HDGM2022

To convert a Magnetic Direction to a Grid Direction, Add 8.204°
To convert a Magnetic Direction to a True Direction, Add 6.650° East
To convert a True Direction to a Grid Direction, Add 1.554°



SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
134.00	1192.00	MS MWD (Wellbore #1)	MWD+HRGM
1192.00	27072.53	Design #3 (Wellbore #1)	MWD+HRGM

TARGET DETAILS

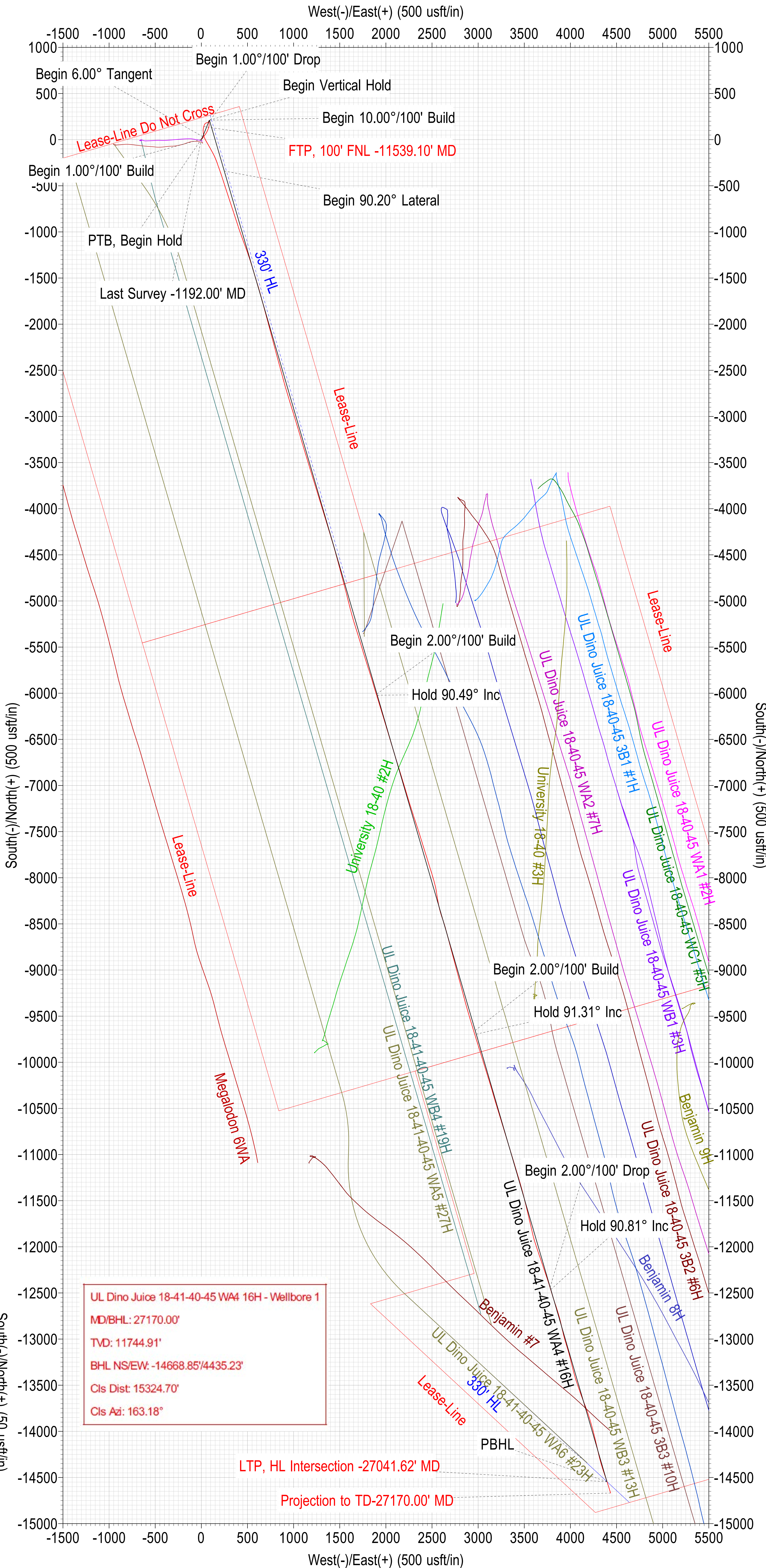
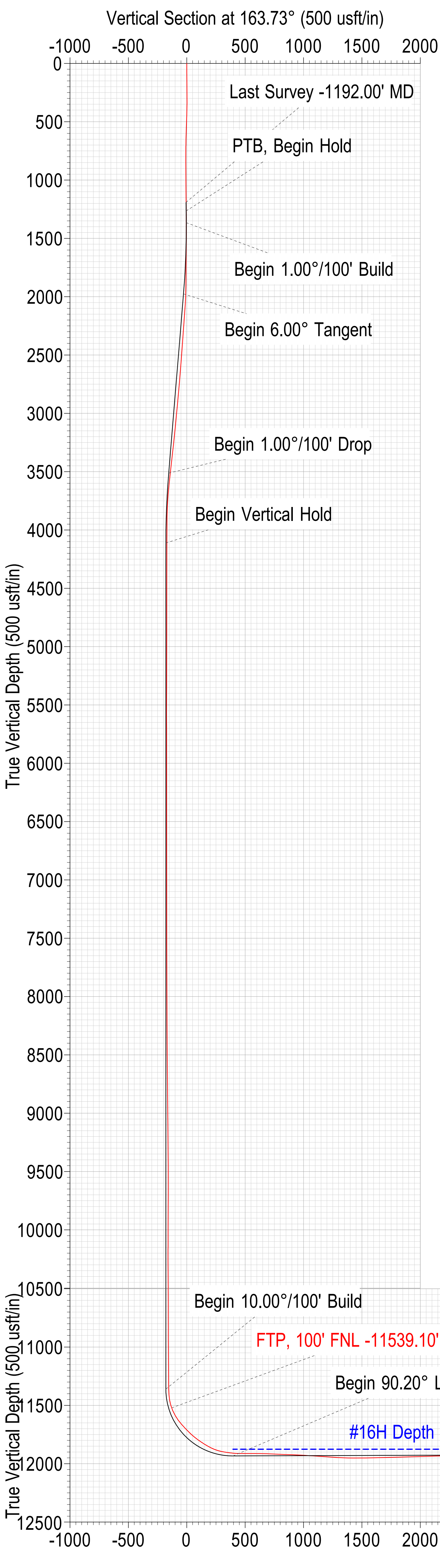
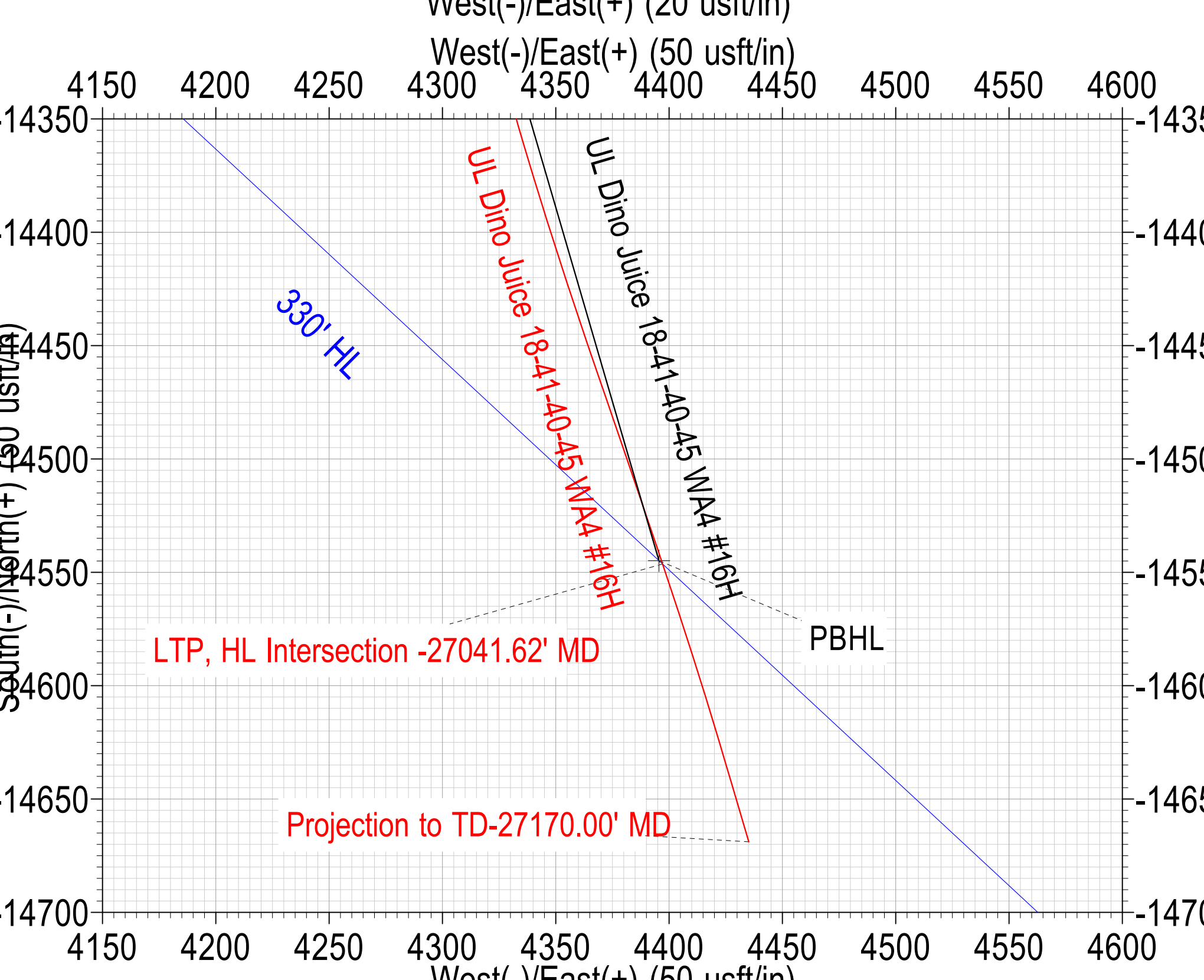
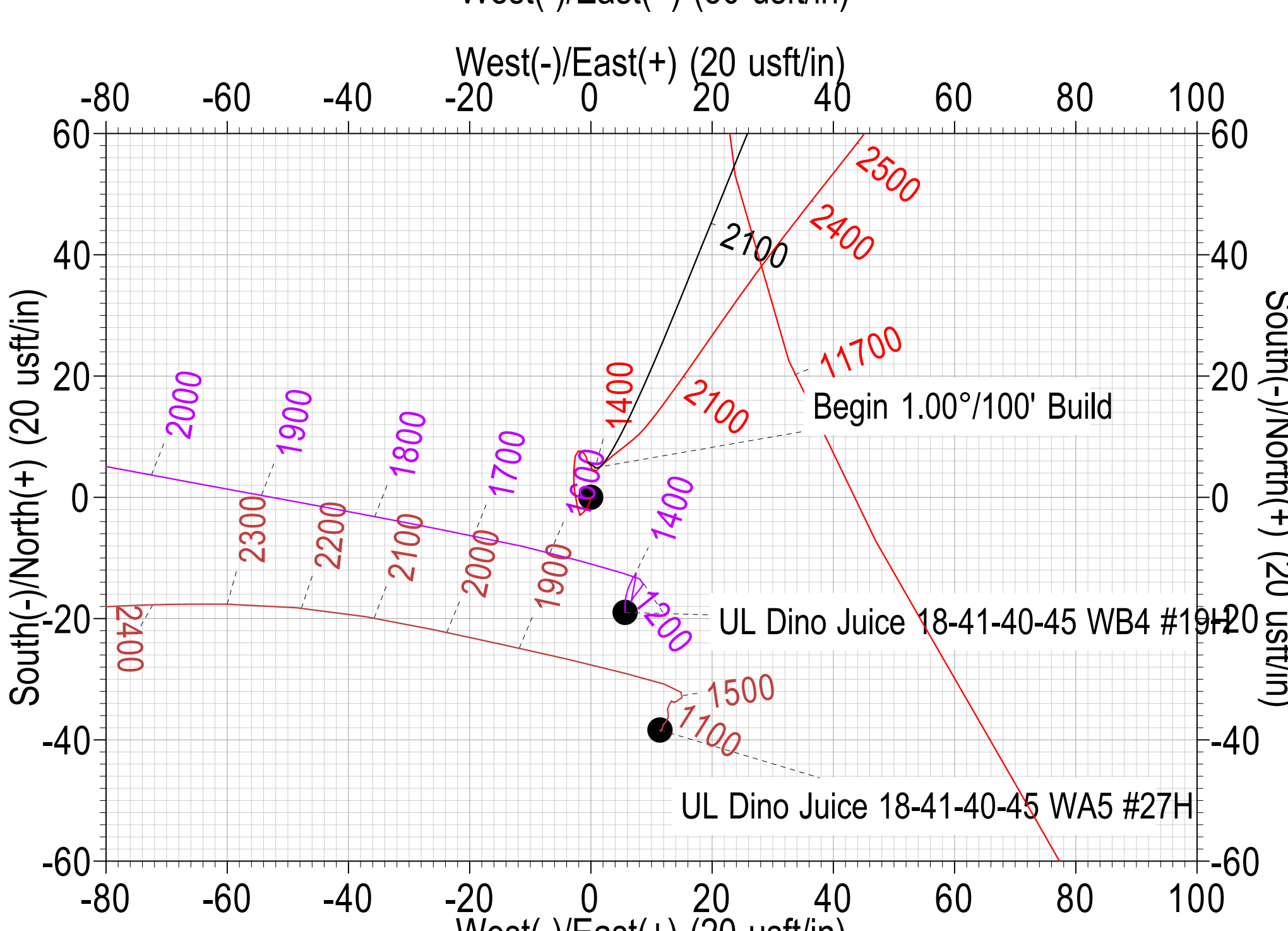
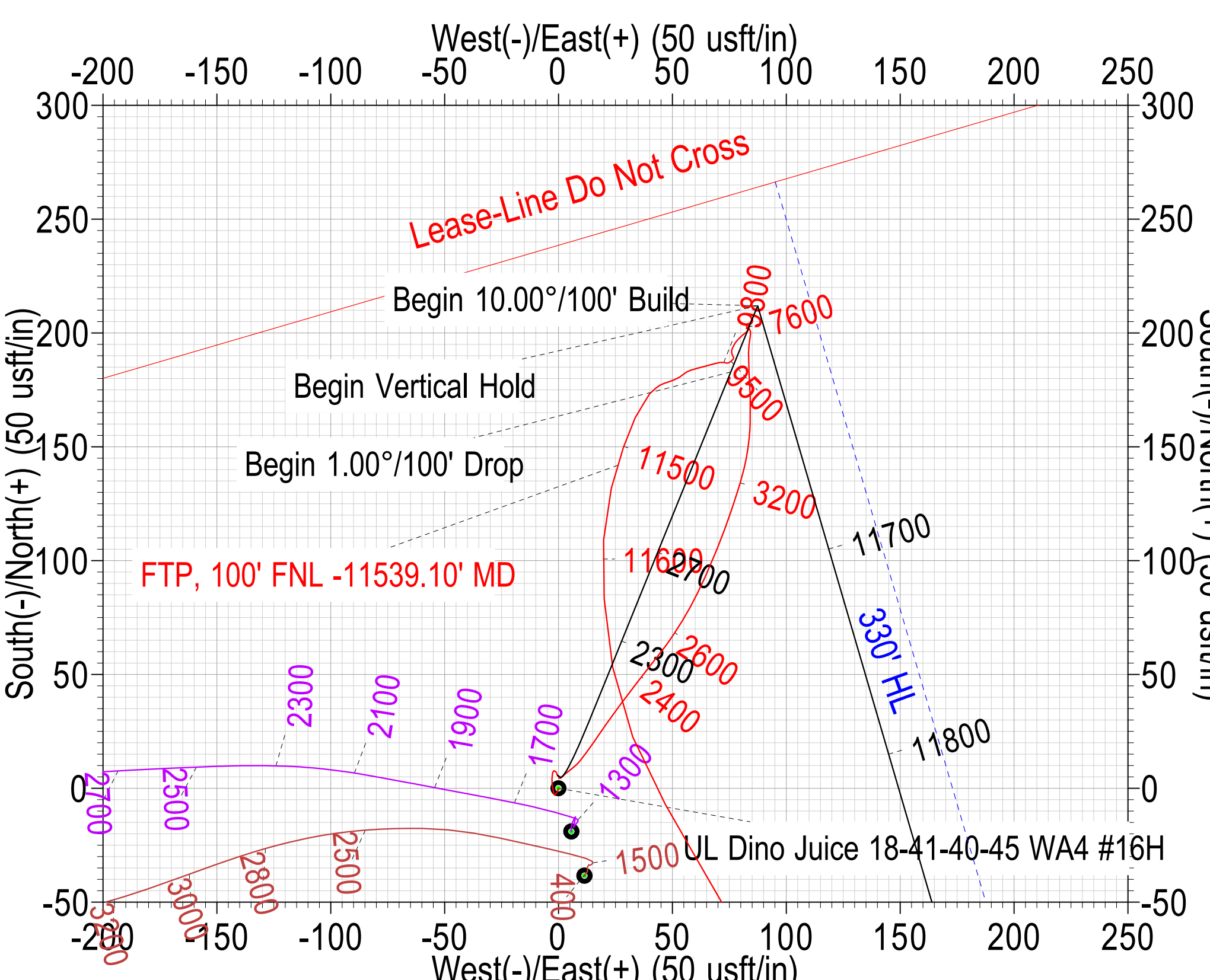
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
#16H Depth Ceiling	11876.00	-4813.11	1554.48	718920.94	1062351.59	31° 36' 30.541 N	103° 20' 44.202 W
10100'VS v3	11880.86	-9655.12	2968.06	714078.93	1063765.17	31° 35' 43.015 N	103° 20' 26.348 W
13000'VS v3	11814.99	-12438.92	3780.76	711295.13	1064577.87	31° 35' 15.691 N	103° 20' 16.086 W
6300'VS v3	11913.01	-6007.39	1903.14	717726.66	1062700.25	31° 36' 18.819 N	103° 20' 39.798 W
PBHL v3	11783.84	-14544.85	4395.56	709189.20	1065192.67	31° 34' 55.020 N	103° 20' 8.323 W

WELL DETAILS: UL Dino Juice 18-41-40-45 WA4 #16H

+N/-S	+E/-W	GL @ 2835.00	Well @ 2866.00usft (Akita 803)	Latitude	Longitude
0.00	0.00	Northing 723734.05	Easting 1060797.11	31° 37' 17.742 N	103° 21' 3.681 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1192.00	0.48	123.60	1191.81	5.72	-0.42	0.00	0.000	-5.61	Last Survey -1192.00' MD
1266.00	0.48	123.60	1265.81	5.38	0.10	0.00	0.000	-5.13	PTB, Begin Hold
1366.00	0.48	123.60	1365.81	4.91	0.80	0.00	0.000	-4.49	Begin 1.00°/100' Build
1977.57	6.00	22.07	1976.27	33.15	14.96	1.00	-105.922	-27.63	Begin 6.00° Tangent
3522.69	6.00	22.07	3512.92	182.87	75.67	0.00	0.000	-154.34	Begin 1.00°/100' Drop
4122.87	0.00	360.00	4112.00	211.97	87.47	1.00	180.000	-178.98	Begin Vertical Hold
11371.53	0.00	0.00	11360.66	211.97	87.47	0.00	0.000	-178.98	Begin 10.00°/100' Build
12273.53	90.20	163.73	11933.62	-339.95	248.60	10.00	163.725	395.98	Begin 90.20° Lateral
18177.58	90.20	163.73	11913.01	-6007.39	1903.14	0.00	0.000	6300.00	Begin 2.00°/100' Build
18191.85	90.49	163.73	11912.92	-6021.08	1907.14	2.00	-0.022	6314.26	Hold 90.49° Inc
21977.72	90.49	163.73	11880.86	-9655.12	2968.06	0.00	0.000	10100.00	Begin 2.00°/100' Build
22018.80	91.31	163.73	11880.22	-9694.55	2979.57	2.00	0.005	10141.08	Hold 91.31° Inc
24878.47	91.31	163.73	11814.99	-12438.92	3780.76	0.00	0.000	13000.00	Begin 2.00°/100' Drop
24903.29	90.81	163.73	11814.53	-12462.74	3787.71	2.00	179.991	13024.81	Hold 90.81° Inc
27072.53	90.81	163.73	11783.84	-14544.85	4395.56	0.00	0.000	15193.84	PBHL





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MS Directional LLC Survey Data Certification

MS Directional LLC Job Number: MSMO-100090
Survey Type: MWD
Operating Company: Point Energy Partners
Well Name and Number: UL Dino Juice 18-41-40-45 WA4 16H
Drainhole Number: Original Wellbore
Location: Ward, Texas
API Number: 42-475-38473
Tie In Depth: 0.00
Surveyed Depths: 134.00' - 27143.00'
Projected TD Survey: 27170.00'
Dates Performed: 10/30/2022 - 12/09/2022

To the best of my knowledge, I certify the following:

1. The data is true, correct and complete and within the limitations of the tool set forth by MS Directional LLC
2. I am authorized and qualified to make this report; and
3. I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional LLC

MWD Surveyor Name: Chris Sulak

MWD Operations Manager: Charles Davis

Signature:

A handwritten signature in black ink, appearing to read "CWD", with a stylized flourish at the end.

Date: 12/30/2022

Email: charles.davis@msdir.com