



Weatherford[®]

Evaluation, Drilling & Intervention

10000 West County Rd. 116

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Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: March 13, 2017

Attention: Garrett Glaze

Re: Devon Energy
Well: Thistle Unit 113H
Lea County, New Mexico

HOBBS OCD
SEP 29 2017
RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Andrew Schmidt MWD Supervisor	113H	188 MD 17078 MD	2/16/2017 2/28/2017	Measurement While Drilling

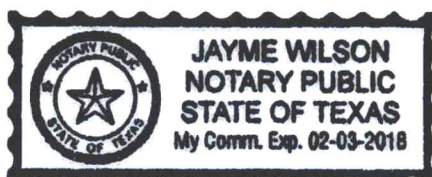
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jonathan Leger
MWD Ops Coordinator

On this, the 29th day of March, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



**5D Survey Report**

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Thistle Unit 113H*
Well Name: *Thistle Unit 113H*
Survey: *Definitive survey*

1 March 2017





Thistle Unit 113H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Thistle Unit 113H	Units: US ft	North Reference: Grid	Convergence Angle: 0.41	
	Position:	Northing: 457211.58 US ft	Latitude: 32° 15' 16.45"	
		Easting: 781044.99 US ft	Longitude: -103° 33' 28.49"	
	Elevation above MSL:3642.70 US ft		Comment:	
Slot: Thistle Unit 113H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 457211.58 US ft	Latitude: 32°15'16.45"	
	+E/-W: 0.00 US ft	Easting: 781044.99 US ft	Longitude: -103°33'28.49"	
	Slot TVD Reference: Ground Elevation			
Thistle Unit 113H	Elevation above MSL: 3642.70 US ft			
	Comment:			
Well: Thistle Unit 113H	Type:Main well	UWI:		
	File Number:	Comment:		
	Closure Distance:7714.35US ft		Closure Azimuth:2.65°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
Thistle Unit 113H	+N/-S: 0.00 US ft		+E/-W: -0.00 US ft	
			Az: 0.81°	

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 23.50US ft	Elevation above MSL: 3666.20US ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 03/Nov/2016	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
Magnetic Model:			
Model Name: bggm2016	Date: 16/Feb/2017	Field Strength: 48090.8nT	Declination: 7.04° Dip: 60.11°
Tie Point:			
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft
		North Offset: 0.00 US ft	East Offset: -0.00 US ft

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	0.00	1272.00	WFT MWD Svy 1
MWD	1272.00	5087.00	WFT MWD Svy 2
MWD	5087.00	8832.00	WFT MWD Svy 3
MWD	8832.00	9652.00	WFT MWD Svy 4

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	9652.00	10803.00	WFT MWD Svy 5
MWD	10803.00	17150.00	WFT MWD Svy 6

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	0.00	457211.58	781044.99	First WFT Svy
188.00	0.35	4.15	188.00	0.57	0.04	0.57	0.19	457212.15	781045.03	
239.00	0.41	7.88	239.00	0.91	0.08	0.91	0.13	457212.49	781045.07	
331.00	0.29	17.15	331.00	1.46	0.19	1.46	0.14	457213.04	781045.18	
424.00	0.31	8.52	423.99	1.93	0.30	1.94	0.05	457213.51	781045.29	
516.00	0.36	357.86	515.99	2.47	0.32	2.47	0.09	457214.05	781045.31	
609.00	0.10	6.51	608.99	2.84	0.32	2.84	0.28	457214.42	781045.31	
701.00	0.10	336.59	700.99	2.99	0.30	3.00	0.06	457214.57	781045.29	
794.00	0.14	318.04	793.99	3.15	0.19	3.15	0.06	457214.73	781045.18	
886.00	0.16	323.81	885.99	3.34	0.04	3.34	0.03	457214.92	781045.03	
979.00	0.16	277.38	978.99	3.46	-0.16	3.46	0.14	457215.04	781044.83	
1071.00	0.22	293.29	1070.99	3.55	-0.45	3.54	0.09	457215.13	781044.54	
1163.00	0.38	316.84	1162.99	3.84	-0.83	3.83	0.22	457215.42	781044.16	
1272.00	0.20	321.46	1271.99	4.25	-1.19	4.23	0.17	457215.83	781043.80	
1440.00	0.35	290.43	1439.99	4.66	-1.85	4.63	0.12	457216.24	781043.14	
1532.00	0.28	316.35	1531.98	4.92	-2.27	4.89	0.17	457216.50	781042.72	
1624.00	0.41	310.60	1623.98	5.30	-2.68	5.26	0.15	457216.88	781042.31	
1714.00	0.49	312.68	1713.98	5.77	-3.21	5.72	0.09	457217.35	781041.78	
1809.00	0.44	308.79	1808.98	6.27	-3.79	6.22	0.06	457217.85	781041.20	
1903.00	0.22	163.77	1902.98	6.32	-4.02	6.27	0.67	457217.90	781040.97	
1997.00	0.40	159.03	1996.98	5.84	-3.85	5.79	0.19	457217.42	781041.14	
2092.00	0.25	178.00	2091.97	5.33	-3.73	5.27	0.19	457216.91	781041.26	
2186.00	0.35	172.31	2185.97	4.84	-3.68	4.79	0.11	457216.42	781041.31	
2281.00	0.25	166.43	2280.97	4.35	-3.59	4.30	0.11	457215.93	781041.40	
2376.00	0.80	130.61	2375.97	3.72	-3.04	3.67	0.65	457215.30	781041.95	
2471.00	1.82	113.99	2470.94	2.67	-1.16	2.65	1.13	457214.25	781043.83	
2566.00	2.87	117.17	2565.86	0.97	2.34	1.00	1.11	457212.55	781047.33	
2660.00	2.89	122.46	2659.74	-1.37	6.43	-1.28	0.28	457210.21	781051.42	
2755.00	2.99	118.37	2754.62	-3.84	10.63	-3.69	0.24	457207.74	781055.62	
2849.00	2.73	116.22	2848.50	-5.99	14.79	-5.78	0.30	457205.59	781059.78	
2944.00	2.41	112.85	2943.40	-7.77	18.67	-7.50	0.37	457203.81	781063.66	
3039.00	2.44	106.27	3038.32	-9.11	22.45	-8.79	0.29	457202.47	781067.44	
3133.00	2.38	102.59	3132.24	-10.09	26.27	-9.72	0.18	457201.49	781071.26	
3228.00	2.24	101.32	3227.16	-10.89	30.02	-10.46	0.16	457200.69	781075.01	
3322.00	2.66	105.50	3321.07	-11.83	33.92	-11.35	0.49	457199.75	781078.91	
3417.00	3.08	118.85	3415.95	-13.65	38.28	-13.11	0.83	457197.93	781083.27	
3512.00	2.98	124.40	3510.82	-16.28	42.55	-15.68	0.33	457195.30	781087.54	
3606.00	2.99	121.69	3604.69	-18.95	46.66	-18.29	0.15	457192.63	781091.65	
3701.00	3.02	120.28	3699.56	-21.51	50.93	-20.79	0.08	457190.07	781095.92	
3796.00	3.14	123.77	3794.43	-24.22	55.25	-23.44	0.23	457187.36	781100.24	
3890.00	3.19	134.20	3888.28	-27.47	59.26	-26.63	0.61	457184.11	781104.25	
3985.00	3.11	140.69	3983.14	-31.31	62.79	-30.42	0.38	457180.27	781107.78	
4079.00	3.08	142.36	4077.00	-35.28	65.95	-34.35	0.10	457176.30	781110.94	
4174.00	2.86	141.92	4171.88	-39.17	68.97	-38.19	0.23	457172.41	781113.96	
4269.00	2.69	142.35	4266.76	-42.80	71.79	-41.78	0.18	457168.78	781116.78	
4364.00	2.51	140.18	4361.67	-46.16	74.49	-45.11	0.22	457165.42	781119.48	
4458.00	2.63	135.15	4455.57	-49.27	77.33	-48.18	0.27	457162.31	781122.32	
4552.00	3.04	129.71	4549.46	-52.39	80.77	-51.25	0.52	457159.19	781125.76	
4647.00	3.10	125.66	4644.32	-55.50	84.79	-54.30	0.24	457156.08	781129.78	
4741.00	3.43	124.86	4738.17	-58.59	89.16	-57.32	0.35	457152.99	781134.15	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4836.00	3.95	122.99	4832.97	-62.00	94.24	-60.66	0.56	457149.58	781139.23	
4930.00	4.06	126.57	4926.74	-65.74	99.63	-64.33	0.29	457145.84	781144.62	
5025.00	3.97	124.71	5021.51	-69.62	105.03	-68.13	0.17	457141.96	781150.02	
5087.00	3.85	125.02	5083.36	-72.04	108.50	-70.49	0.20	457139.54	781153.49	
5211.00	3.40	127.61	5207.12	-76.67	114.82	-75.04	0.39	457134.91	781159.81	
5305.00	3.09	123.28	5300.97	-79.76	119.15	-78.07	0.42	457131.82	781164.14	
5400.00	3.11	125.60	5395.83	-82.66	123.38	-80.91	0.13	457128.92	781168.37	
5494.00	3.15	123.97	5489.69	-85.59	127.60	-83.78	0.10	457125.99	781172.59	
5589.00	3.09	122.43	5584.55	-88.42	131.93	-86.55	0.11	457123.16	781176.92	
5684.00	2.87	118.52	5679.42	-90.93	136.18	-89.00	0.32	457120.65	781181.17	
5778.00	2.81	117.46	5773.30	-93.12	140.29	-91.13	0.08	457118.46	781185.28	
5872.00	3.61	129.37	5867.15	-96.06	144.62	-94.00	1.10	457115.52	781189.61	
5967.00	3.88	130.81	5961.95	-100.06	149.37	-97.93	0.30	457111.52	781194.36	
6061.00	3.70	128.35	6055.75	-104.02	154.15	-101.83	0.26	457107.56	781199.14	
6156.00	3.34	128.86	6150.57	-107.65	158.71	-105.40	0.38	457103.93	781203.70	
6251.00	3.02	130.05	6245.42	-111.00	162.78	-108.69	0.34	457100.58	781207.77	
6345.00	3.13	129.82	6339.28	-114.24	166.65	-111.87	0.12	457097.34	781211.64	
6440.00	3.01	131.26	6434.15	-117.54	170.51	-115.12	0.15	457094.04	781215.50	
6535.00	3.12	126.97	6529.01	-120.74	174.46	-118.27	0.27	457090.84	781219.45	
6629.00	3.15	126.48	6622.87	-123.82	178.58	-121.28	0.04	457087.76	781223.57	
6724.00	3.00	130.63	6717.73	-126.99	182.56	-124.39	0.28	457084.59	781227.55	
6819.00	3.15	125.65	6812.60	-130.13	186.57	-127.48	0.32	457081.45	781231.56	
6913.00	3.23	127.20	6906.45	-133.23	190.78	-130.52	0.13	457078.35	781235.77	
7008.00	3.10	125.84	7001.31	-136.36	194.99	-133.59	0.16	457075.22	781239.98	
7102.00	3.11	129.51	7095.17	-139.47	199.02	-136.64	0.21	457072.11	781244.01	
7197.00	2.95	130.13	7190.04	-142.68	202.88	-139.80	0.17	457068.90	781247.87	
7292.00	2.69	132.71	7284.92	-145.77	206.38	-142.84	0.30	457065.81	781251.37	
7387.00	2.64	131.88	7379.82	-148.74	209.65	-145.76	0.07	457062.84	781254.64	
7481.00	2.60	133.24	7473.72	-151.65	212.82	-148.62	0.08	457059.93	781257.81	
7576.00	2.63	128.31	7568.62	-154.48	216.10	-151.41	0.24	457057.10	781261.09	
7670.00	2.58	135.22	7662.53	-157.31	219.28	-154.20	0.34	457054.27	781264.27	
7765.00	2.07	137.56	7757.45	-160.10	221.94	-156.94	0.55	457051.48	781266.93	
7859.00	2.10	136.80	7851.38	-162.61	224.27	-159.42	0.04	457048.97	781269.26	
7954.00	2.18	136.20	7946.32	-165.18	226.71	-161.96	0.09	457046.40	781271.70	
8049.00	3.42	134.91	8041.20	-168.48	229.97	-165.22	1.31	457043.10	781274.96	
8143.00	3.18	139.50	8135.05	-172.45	233.64	-169.13	0.38	457039.13	781278.63	
8238.00	2.94	139.96	8229.91	-176.32	236.92	-172.95	0.25	457035.26	781281.91	
8332.00	2.87	136.38	8323.79	-179.86	240.10	-176.45	0.21	457031.72	781285.09	
8427.00	2.65	139.85	8418.68	-183.26	243.15	-179.81	0.29	457028.32	781288.14	
8522.00	2.60	138.76	8513.58	-186.56	245.99	-183.07	0.07	457025.02	781290.98	
8617.00	2.47	143.83	8608.49	-189.84	248.62	-186.30	0.27	457021.74	781293.61	
8712.00	2.63	143.99	8703.39	-193.25	251.11	-189.68	0.17	457018.33	781296.10	
8806.00	1.93	151.17	8797.32	-196.38	253.14	-192.79	0.80	457015.20	781298.13	
8832.00	1.96	146.30	8823.30	-197.14	253.60	-193.53	0.65	457014.44	781298.59	
8897.00	1.05	160.29	8888.28	-198.62	254.42	-195.01	1.50	457012.96	781299.41	
8944.00	3.29	342.12	8935.26	-197.74	254.15	-194.13	9.23	457013.84	781299.14	
8991.00	7.76	352.55	8982.03	-193.31	253.32	-189.71	9.71	457018.27	781298.31	
9038.00	12.71	358.94	9028.27	-184.99	252.81	-181.40	10.79	457026.59	781297.80	
9085.00	17.28	359.13	9073.66	-172.83	252.61	-169.25	9.72	457038.75	781297.60	
9132.00	21.71	359.41	9117.95	-157.15	252.42	-153.57	9.43	457054.43	781297.41	
9179.00	26.93	0.75	9160.77	-137.81	252.47	-134.22	11.17	457073.77	781297.46	
9226.00	32.21	0.78	9201.63	-114.62	252.78	-111.04	11.23	457096.96	781297.77	
9275.00	37.49	1.00	9241.83	-86.64	253.21	-83.05	10.78	457124.94	781298.20	
9322.00	41.51	0.96	9278.09	-56.75	253.73	-53.16	8.55	457154.83	781298.72	
9369.00	45.52	2.66	9312.17	-24.42	254.76	-20.81	8.89	457187.16	781299.75	
9416.00	50.28	3.97	9343.67	10.39	256.80	14.02	10.34	457221.97	781301.79	
9463.00	54.06	4.35	9372.49	47.40	259.49	51.07	8.07	457258.98	781304.48	
9510.00	58.89	2.34	9398.44	86.50	261.76	90.20	10.88	457298.08	781306.75	
9558.00	63.04	0.85	9421.73	128.45	262.91	132.15	9.06	457340.03	781307.90	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9605.00	68.74	358.28	9440.93	171.32	262.57	175.02	13.11	457382.90	781307.56	
9652.00	74.49	358.05	9455.75	215.88	261.14	219.55	12.24	457427.46	781306.13	
9673.00	77.23	358.16	9460.88	236.23	260.46	239.89	13.06	457447.81	781305.45	
9720.00	81.64	358.48	9469.49	282.40	259.11	286.04	9.41	457493.98	781304.10	
9766.00	83.69	359.40	9475.36	328.02	258.27	331.63	4.88	457539.60	781303.26	
9813.00	86.08	0.27	9479.55	374.83	258.13	378.44	5.41	457586.41	781303.12	
9861.00	86.85	0.06	9482.51	422.73	258.27	426.34	1.66	457634.31	781303.26	
9908.00	87.62	359.68	9484.78	469.68	258.17	473.28	1.83	457681.26	781303.16	
9956.00	88.32	359.46	9486.48	517.65	257.81	521.24	1.53	457729.23	781302.80	
10050.00	88.60	0.04	9489.01	611.61	257.40	615.19	0.68	457823.19	781302.39	
10144.00	90.28	0.18	9489.93	705.60	257.58	709.17	1.79	457917.18	781302.57	
10239.00	89.93	359.23	9489.75	800.60	257.09	804.15	1.07	458012.18	781302.08	
10333.00	88.88	358.58	9490.73	894.58	255.29	898.10	1.31	458106.16	781300.28	
10428.00	90.28	358.32	9491.42	989.54	252.72	993.01	1.50	458201.12	781297.71	
10523.00	89.93	358.48	9491.25	1084.50	250.07	1087.93	0.41	458296.08	781295.06	
10618.00	89.23	358.68	9491.95	1179.47	247.71	1182.85	0.77	458391.05	781292.70	
10713.00	90.21	0.28	9492.41	1274.46	246.85	1277.82	1.97	458486.04	781291.84	
10803.00	90.00	1.38	9492.25	1364.45	248.16	1367.82	1.24	458576.03	781293.15	
10902.00	89.09	3.29	9493.03	1463.36	252.19	1466.77	2.14	458674.94	781297.18	
10996.00	88.67	3.20	9494.87	1557.19	257.51	1560.67	0.46	458768.77	781302.50	
11090.00	89.02	3.44	9496.76	1651.01	262.95	1654.56	0.45	458862.59	781307.94	
11184.00	89.09	3.41	9498.31	1744.83	268.57	1748.45	0.08	458956.41	781313.56	
11279.00	89.37	2.90	9499.59	1839.68	273.79	1843.36	0.61	459051.26	781318.78	
11374.00	90.00	2.87	9500.11	1934.55	278.58	1938.30	0.66	459146.13	781323.57	
11468.00	90.49	2.34	9499.71	2028.45	282.85	2032.25	0.77	459240.03	781327.84	
11562.00	89.65	1.94	9499.60	2122.39	286.36	2126.22	0.99	459333.97	781331.35	
11657.00	90.28	2.02	9499.65	2217.33	289.64	2221.20	0.67	459428.91	781334.63	
11752.00	91.12	1.80	9498.49	2312.27	292.81	2316.18	0.91	459523.85	781337.80	
11846.00	89.79	2.18	9497.75	2406.21	296.07	2410.15	1.47	459617.79	781341.06	
11941.00	90.21	2.13	9497.75	2501.14	299.64	2505.13	0.45	459712.72	781344.63	
12036.00	88.46	2.08	9498.85	2596.07	303.13	2600.09	1.84	459807.65	781348.12	
12131.00	88.60	1.80	9501.29	2690.98	306.35	2695.04	0.33	459902.56	781351.34	
12227.00	88.53	1.16	9503.69	2786.92	308.83	2791.01	0.67	459998.50	781353.82	
12320.00	88.39	0.81	9506.19	2879.87	310.42	2883.97	0.41	460091.45	781355.41	
12414.00	88.67	0.32	9508.60	2973.83	311.35	2977.94	0.60	460185.41	781356.34	
12509.00	88.81	0.24	9510.69	3068.81	311.81	3072.91	0.17	460280.39	781356.80	
12604.00	89.16	359.72	9512.37	3163.80	311.78	3167.89	0.66	460375.38	781356.77	
12698.00	88.11	359.87	9514.61	3257.77	311.45	3261.84	1.13	460469.35	781356.44	
12793.00	87.69	359.85	9518.09	3352.70	311.21	3356.77	0.44	460564.28	781356.20	
12888.00	86.99	359.35	9522.50	3447.60	310.55	3451.64	0.91	460659.18	781355.54	
12983.00	86.01	359.30	9528.30	3542.41	309.43	3546.43	1.03	460753.99	781354.42	
13077.00	87.27	359.51	9533.81	3636.24	308.46	3640.24	1.36	460847.82	781353.45	
13172.00	87.97	359.28	9537.76	3731.16	307.46	3735.13	0.78	460942.74	781352.45	
13267.00	86.85	358.51	9542.05	3826.04	305.63	3829.98	1.43	461037.62	781350.62	
13360.00	87.62	358.41	9546.54	3918.90	303.13	3922.79	0.83	461130.48	781348.12	
13455.00	88.95	359.88	9549.38	4013.84	301.71	4017.70	2.09	461225.42	781346.70	
13550.00	88.32	1.79	9551.64	4108.80	303.10	4112.67	2.12	461320.38	781348.09	
13644.00	88.46	2.52	9554.28	4202.69	306.63	4206.61	0.79	461414.27	781351.62	
13739.00	87.97	1.81	9557.24	4297.58	310.22	4301.53	0.91	461509.16	781355.21	
13832.00	88.11	1.73	9560.42	4390.48	313.09	4394.47	0.17	461602.06	781358.08	
13926.00	89.58	1.60	9562.32	4484.42	315.82	4488.43	1.57	461696.00	781360.81	
14020.00	88.60	0.33	9563.81	4578.39	317.40	4582.42	1.71	461789.97	781362.39	
14116.00	89.51	2.02	9565.39	4674.35	319.37	4678.40	2.00	461885.93	781364.36	
14209.00	91.12	2.19	9564.88	4767.28	322.79	4771.37	1.74	461978.86	781367.78	
14304.00	90.42	2.65	9563.61	4862.19	326.80	4866.32	0.88	462073.77	781371.79	
14398.00	90.28	3.13	9563.03	4956.07	331.54	4960.26	0.53	462167.65	781376.53	
14493.00	89.79	2.55	9562.97	5050.95	336.24	5055.20	0.80	462262.53	781381.23	
14587.00	90.84	1.54	9562.46	5144.89	339.60	5149.17	1.55	462356.47	781384.59	
14682.00	90.98	1.40	9560.95	5239.84	342.04	5244.16	0.21	462451.42	781387.03	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
14777.00	88.46	0.34	9561.41	5334.82	343.48	5339.14	2.88	462546.40	781388.47	
14872.00	87.06	359.33	9565.13	5429.75	343.21	5434.06	1.82	462641.33	781388.20	
14967.00	88.81	358.59	9568.55	5524.66	341.48	5528.94	2.00	462736.24	781386.47	
15061.00	88.18	358.02	9571.02	5618.59	338.70	5622.82	0.90	462830.17	781383.69	
15156.00	89.37	357.71	9573.05	5713.50	335.16	5717.67	1.29	462925.08	781380.15	
15251.00	89.58	358.70	9573.92	5808.45	332.19	5812.56	1.07	463020.03	781377.18	
15345.00	90.84	0.74	9573.57	5902.44	331.73	5906.54	2.55	463114.02	781376.72	
15440.00	90.56	1.51	9572.41	5997.41	333.59	6001.53	0.86	463208.99	781378.58	
15535.00	92.31	4.01	9570.03	6092.26	338.17	6096.43	3.21	463303.84	781383.16	
15629.00	92.03	4.26	9566.48	6185.95	344.94	6190.21	0.40	463397.53	781389.93	
15723.00	90.91	3.18	9564.06	6279.72	351.04	6284.05	1.65	463491.30	781396.03	
15818.00	89.65	1.38	9563.60	6374.64	354.81	6379.02	2.31	463586.22	781399.80	
15913.00	90.07	1.32	9563.83	6469.61	357.05	6474.01	0.45	463681.19	781402.04	
16008.00	90.35	1.06	9563.48	6564.59	359.03	6569.01	0.40	463776.17	781404.02	
16102.00	90.07	1.74	9563.14	6658.56	361.32	6663.00	0.78	463870.14	781406.31	
16197.00	90.98	1.66	9562.27	6753.51	364.14	6757.99	0.96	463965.09	781409.13	
16292.00	90.42	1.54	9561.11	6848.47	366.79	6852.97	0.60	464060.05	781411.78	
16386.00	90.63	0.65	9560.25	6942.45	368.59	6946.96	0.97	464154.03	781413.58	
16481.00	90.56	359.90	9559.26	7037.44	369.04	7041.95	0.79	464249.02	781414.03	
16576.00	90.56	359.73	9558.33	7132.43	368.74	7136.93	0.18	464344.01	781413.73	
16671.00	90.70	359.40	9557.29	7227.42	368.02	7231.91	0.38	464439.00	781413.01	
16765.00	90.91	358.95	9555.97	7321.41	366.66	7325.86	0.53	464532.99	781411.65	
16860.00	90.91	358.62	9554.46	7416.37	364.65	7420.79	0.35	464627.95	781409.64	
16954.00	91.54	358.42	9552.45	7510.32	362.22	7514.69	0.70	464721.90	781407.21	
17049.00	92.10	358.37	9549.43	7605.23	359.56	7609.56	0.59	464816.81	781404.55	
17078.00	92.59	358.40	9548.24	7634.20	358.75	7638.51	1.69	464845.78	781403.74	Last Svy
17150.00	92.59	358.40	9544.99	7706.10	356.74	7710.37	0.00	464917.68	781401.73	Proj to TD