

**5D Plan Report**

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Thistle Unit 113H*
Well Name: *Thistle Unit 113H*
Plan: *P1:V1*

8 November 2016

HOBBS OCD
NOV 14 2016
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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			
	Elevation above MSL: 3642.70 US ft			
	Comment:			
Well: Thistle Unit 113H	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:7697.2US ft		Closure Azimuth:4.51°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: -0.00 US ft	Az: 2.49°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 48107.2nT	Declination: 7.05°	Dip: 60.11°
				Date: 15/Dec/2016

Drill floor: Plan: P1:V1			
Rig Height (Drill Floor): 23.50us ft	Elevation above MSL: 3666.20us ft	Inclination: 0.00°	Azimuth: 0.00°

Target set: Thistle 113H Tgts Comment:							
Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	Comment
LP	Point	9684.00	0.02	-10.01	457211.60	781034.98	
BHL 113H	Point	9707.00	7673.40	604.80	464884.98	781649.79	

Wellpath created using minimum curvature.

Tie Point:						
MD: 0.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: - 0.00USFt	North Offset: 0.00USFt	East Offset: - 0.00USFt	

5D Plan Report

Salient 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)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	-0.00	0.00	-0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	-0.00	0.00	0.00	0.00	0.00	0.00	Nudge
2300.00	4.00	75.00	2299.35	7.22	26.96	8.39	0.50	0.50	0.00	75.00	Hold
2800.00	4.00	75.00	2798.13	16.25	60.65	18.87	0.00	0.00	0.00	0.00	Drop
3600.00	0.00	0.00	3597.48	23.48	87.62	27.26	0.50	-0.50	0.00	180.00	Hold
4502.52	0.00	0.00	4500.00	23.48	87.62	27.26	0.00	0.00	0.00	0.00	Nudge
5502.52	5.00	75.00	5498.73	34.76	129.74	40.37	0.50	0.50	0.00	75.00	Hold
6712.52	5.00	75.00	6704.13	62.06	231.60	72.06	0.00	0.00	0.00	0.00	Drop
7712.52	0.00	0.00	7702.86	73.34	273.72	85.17	0.50	-0.50	0.00	180.00	Hold
9120.70	0.00	0.00	9111.04	73.34	273.72	85.17	0.00	0.00	0.00	0.00	KOP
10018.83	89.81	2.49	9683.99	643.89	298.57	656.25	10.00	10.00	0.00	2.49	LP
17055.04	89.81	2.49	9707.00	7673.40	604.80	7692.43	0.00	0.00	0.00	0.00	PBHL 113H

Interpolated 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		
100.00	0.00	0.00	100.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
200.00	0.00	0.00	200.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
300.00	0.00	0.00	300.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
400.00	0.00	0.00	400.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
500.00	0.00	0.00	500.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
600.00	0.00	0.00	600.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
700.00	0.00	0.00	700.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
800.00	0.00	0.00	800.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
900.00	0.00	0.00	900.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1000.00	0.00	0.00	1000.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1100.00	0.00	0.00	1100.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1200.00	0.00	0.00	1200.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1300.00	0.00	0.00	1300.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1400.00	0.00	0.00	1400.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		
1500.00	0.00	0.00	1500.00	0.00	-0.00	0.00	0.00	457211.58	781044.99		Nudge
1600.00	0.50	75.00	1600.00	0.11	0.42	0.13	0.50	457211.69	781045.41		
1700.00	1.00	75.00	1699.99	0.45	1.69	0.52	0.50	457212.03	781046.68		
1800.00	1.50	75.00	1799.97	1.02	3.79	1.18	0.50	457212.60	781048.78		
1900.00	2.00	75.00	1899.92	1.81	6.74	2.10	0.50	457213.39	781051.73		
2000.00	2.50	75.00	1999.84	2.82	10.53	3.28	0.50	457214.40	781055.52		
2100.00	3.00	75.00	2099.73	4.06	15.17	4.72	0.50	457215.64	781060.16		
2200.00	3.50	75.00	2199.56	5.53	20.65	6.42	0.50	457217.11	781065.64		
2300.00	4.00	75.00	2299.35	7.22	26.96	8.39	0.50	457218.80	781071.95		Hold
2400.00	4.00	75.00	2399.11	9.03	33.70	10.49	0.00	457220.61	781078.69		
2500.00	4.00	75.00	2498.86	10.84	40.44	12.58	0.00	457222.42	781085.43		
2600.00	4.00	75.00	2598.62	12.64	47.18	14.68	0.00	457224.22	781092.17		
2700.00	4.00	75.00	2698.38	14.45	53.91	16.78	0.00	457226.03	781098.90		
2800.00	4.00	75.00	2798.13	16.25	60.65	18.87	0.00	457227.83	781105.64		Drop
2900.00	3.50	75.00	2897.92	17.94	66.97	20.84	0.50	457229.52	781111.96		
3000.00	3.00	75.00	2997.76	19.41	72.45	22.54	0.50	457230.99	781117.44		
3100.00	2.50	75.00	3097.64	20.65	77.08	23.98	0.50	457232.23	781122.07		
3200.00	2.00	75.00	3197.56	21.67	80.87	25.16	0.50	457233.25	781125.86		
3300.00	1.50	75.00	3297.52	22.46	83.82	26.08	0.50	457234.04	781128.81		
3400.00	1.00	75.00	3397.49	23.02	85.93	26.74	0.50	457234.60	781130.92		
3500.00	0.50	75.00	3497.48	23.36	87.19	27.13	0.50	457234.94	781132.18		
3600.00	0.00	0.00	3597.48	23.48	87.62	27.26	0.50	457235.06	781132.61		Hold
3700.00	0.00	0.00	3697.48	23.48	87.62	27.26	0.00	457235.06	781132.61		
3800.00	0.00	0.00	3797.48	23.48	87.62	27.26	0.00	457235.06	781132.61		
3900.00	0.00	0.00	3897.48	23.48	87.62	27.26	0.00	457235.06	781132.61		
4000.00	0.00	0.00	3997.48	23.48	87.62	27.26	0.00	457235.06	781132.61		
4100.00	0.00	0.00	4097.48	23.48	87.62	27.26	0.00	457235.06	781132.61		
4200.00	0.00	0.00	4197.48	23.48	87.62	27.26	0.00	457235.06	781132.61		

SD Plan Report

Interpolated 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
4300.00	0.00	0.00	4297.48	23.48	87.62	27.26	0.00	457235.06	781132.61	
4400.00	0.00	0.00	4397.48	23.48	87.62	27.26	0.00	457235.06	781132.61	
4500.00	0.00	0.00	4497.48	23.48	87.62	27.26	0.00	457235.06	781132.61	
4502.52	0.00	0.00	4500.00	23.48	87.62	27.26	0.00	457235.06	781132.61	Nudge
4600.00	0.49	75.00	4597.48	23.58	88.02	27.39	0.50	457235.16	781133.01	
4700.00	0.99	75.00	4697.47	23.92	89.26	27.77	0.50	457235.50	781134.25	
4800.00	1.49	75.00	4797.45	24.48	91.34	28.42	0.50	457236.06	781136.33	
4900.00	1.99	75.00	4897.40	25.26	94.27	29.33	0.50	457236.84	781139.26	
5000.00	2.49	75.00	4997.33	26.27	98.04	30.51	0.50	457237.85	781143.03	
5100.00	2.99	75.00	5097.21	27.51	102.66	31.94	0.50	457239.09	781147.65	
5200.00	3.49	75.00	5197.05	28.97	108.11	33.64	0.50	457240.55	781153.10	
5300.00	3.99	75.00	5296.84	30.66	114.41	35.60	0.50	457242.24	781159.40	
5400.00	4.49	75.00	5396.57	32.57	121.55	37.82	0.50	457244.15	781166.54	
5500.00	4.99	75.00	5496.22	34.71	129.52	40.30	0.50	457246.29	781174.51	
5502.52	5.00	75.00	5498.73	34.76	129.74	40.37	0.50	457246.34	781174.73	Hold
5600.00	5.00	75.00	5595.84	36.96	137.94	42.92	0.00	457248.54	781182.93	
5700.00	5.00	75.00	5695.46	39.22	146.36	45.54	0.00	457250.80	781191.35	
5800.00	5.00	75.00	5795.08	41.47	154.78	48.16	0.00	457253.05	781199.77	
5900.00	5.00	75.00	5894.70	43.73	163.20	50.78	0.00	457255.31	781208.19	
6000.00	5.00	75.00	5994.32	45.98	171.62	53.40	0.00	457257.56	781216.61	
6100.00	5.00	75.00	6093.94	48.24	180.03	56.02	0.00	457259.82	781225.02	
6200.00	5.00	75.00	6193.56	50.50	188.45	58.64	0.00	457262.08	781233.44	
6300.00	5.00	75.00	6293.18	52.75	196.87	61.25	0.00	457264.33	781241.86	
6400.00	5.00	75.00	6392.80	55.01	205.29	63.87	0.00	457266.59	781250.28	
6500.00	5.00	75.00	6492.42	57.26	213.71	66.49	0.00	457268.84	781258.70	
6600.00	5.00	75.00	6592.04	59.52	222.13	69.11	0.00	457271.10	781267.12	
6700.00	5.00	75.00	6691.66	61.77	230.55	71.73	0.00	457273.35	781275.54	
6712.52	5.00	75.00	6704.13	62.06	231.60	72.06	0.00	457273.64	781276.59	Drop
6800.00	4.56	75.00	6791.30	63.94	238.64	74.25	0.50	457275.52	781283.63	
6900.00	4.06	75.00	6891.02	65.89	245.91	76.51	0.50	457277.47	781290.90	
7000.00	3.56	75.00	6990.80	67.61	252.33	78.51	0.50	457279.19	781297.32	
7100.00	3.06	75.00	7090.63	69.11	257.91	80.25	0.50	457280.69	781302.90	
7200.00	2.56	75.00	7190.51	70.38	262.65	81.72	0.50	457281.96	781307.64	
7300.00	2.06	75.00	7290.43	71.42	266.55	82.93	0.50	457283.00	781311.54	
7400.00	1.56	75.00	7390.38	72.24	269.60	83.88	0.50	457283.82	781314.59	
7500.00	1.06	75.00	7490.35	72.83	271.82	84.57	0.50	457284.41	781316.81	
7600.00	0.56	75.00	7590.34	73.20	273.19	85.00	0.50	457284.78	781318.18	
7700.00	0.06	75.00	7690.34	73.34	273.71	85.16	0.50	457284.92	781318.70	
7712.52	0.00	0.00	7702.86	73.34	273.72	85.17	0.50	457284.92	781318.71	Hold
7800.00	0.00	0.00	7790.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
7900.00	0.00	0.00	7890.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8000.00	0.00	0.00	7990.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8100.00	0.00	0.00	8090.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8200.00	0.00	0.00	8190.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8300.00	0.00	0.00	8290.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8400.00	0.00	0.00	8390.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8500.00	0.00	0.00	8490.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8600.00	0.00	0.00	8590.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8700.00	0.00	0.00	8690.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8800.00	0.00	0.00	8790.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
8900.00	0.00	0.00	8890.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
9000.00	0.00	0.00	8990.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
9100.00	0.00	0.00	9090.34	73.34	273.72	85.17	0.00	457284.92	781318.71	
9120.70	0.00	0.00	9111.04	73.34	273.72	85.17	0.00	457284.92	781318.71	KOP
9200.00	7.93	2.49	9190.09	78.82	273.96	90.64	10.00	457290.40	781318.95	
9300.00	17.93	2.49	9287.43	101.14	274.93	112.99	10.00	457312.72	781319.92	
9400.00	27.93	2.49	9379.41	140.02	276.62	151.90	10.00	457351.60	781321.61	
9500.00	37.93	2.49	9463.24	194.26	278.99	206.20	10.00	457405.84	781323.98	
9600.00	47.93	2.49	9536.36	262.22	281.95	274.22	10.00	457473.80	781326.94	

5D Plan Report

Interpolated 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
9700.00	57.93	2.49	9596.56	341.83	285.42	353.91	10.00	457553.41	781330.41	
9800.00	67.93	2.49	9642.01	430.68	289.29	442.84	10.00	457642.26	781334.28	
9900.00	77.93	2.49	9671.33	526.06	293.44	538.31	10.00	457737.64	781338.43	
10000.00	87.93	2.49	9683.62	625.08	297.76	637.43	10.00	457836.66	781342.75	
10018.83	89.81	2.49	9683.99	643.89	298.57	656.25	10.00	457855.47	781343.56	LP
10100.00	89.81	2.49	9684.26	724.98	302.11	737.42	0.00	457936.56	781347.10	
10200.00	89.81	2.49	9684.59	824.89	306.46	837.42	0.00	458036.47	781351.45	
10300.00	89.81	2.49	9684.91	924.79	310.81	937.42	0.00	458136.37	781355.80	
10400.00	89.81	2.49	9685.24	1024.70	315.16	1037.42	0.00	458236.28	781360.15	
10500.00	89.81	2.49	9685.57	1124.60	319.52	1137.42	0.00	458336.18	781364.51	
10600.00	89.81	2.49	9685.89	1224.51	323.87	1237.42	0.00	458436.09	781368.86	
10700.00	89.81	2.49	9686.22	1324.41	328.22	1337.42	0.00	458535.99	781373.21	
10800.00	89.81	2.49	9686.55	1424.32	332.57	1437.42	0.00	458635.90	781377.56	
10900.00	89.81	2.49	9686.88	1524.22	336.92	1537.42	0.00	458735.80	781381.91	
11000.00	89.81	2.49	9687.20	1624.13	341.28	1637.42	0.00	458835.71	781386.27	
11100.00	89.81	2.49	9687.53	1724.03	345.63	1737.42	0.00	458935.61	781390.62	
11200.00	89.81	2.49	9687.86	1823.93	349.98	1837.42	0.00	459035.51	781394.97	
11300.00	89.81	2.49	9688.18	1923.84	354.33	1937.42	0.00	459135.42	781399.32	
11400.00	89.81	2.49	9688.51	2023.74	358.68	2037.42	0.00	459235.32	781403.67	
11500.00	89.81	2.49	9688.84	2123.65	363.04	2137.42	0.00	459335.23	781408.03	
11600.00	89.81	2.49	9689.16	2223.55	367.39	2237.42	0.00	459435.13	781412.38	
11700.00	89.81	2.49	9689.49	2323.46	371.74	2337.42	0.00	459535.04	781416.73	
11800.00	89.81	2.49	9689.82	2423.36	376.09	2437.41	0.00	459634.94	781421.08	
11900.00	89.81	2.49	9690.15	2523.27	380.45	2537.41	0.00	459734.85	781425.44	
12000.00	89.81	2.49	9690.47	2623.17	384.80	2637.41	0.00	459834.75	781429.79	
12100.00	89.81	2.49	9690.80	2723.08	389.15	2737.41	0.00	459934.66	781434.14	
12200.00	89.81	2.49	9691.13	2822.98	393.50	2837.41	0.00	460034.56	781438.49	
12300.00	89.81	2.49	9691.45	2922.89	397.85	2937.41	0.00	460134.47	781442.84	
12400.00	89.81	2.49	9691.78	3022.79	402.21	3037.41	0.00	460234.37	781447.20	
12500.00	89.81	2.49	9692.11	3122.70	406.56	3137.41	0.00	460334.28	781451.55	
12600.00	89.81	2.49	9692.43	3222.60	410.91	3237.41	0.00	460434.18	781455.90	
12700.00	89.81	2.49	9692.76	3322.51	415.26	3337.41	0.00	460534.09	781460.25	
12800.00	89.81	2.49	9693.09	3422.41	419.61	3437.41	0.00	460633.99	781464.60	
12900.00	89.81	2.49	9693.41	3522.32	423.97	3537.41	0.00	460733.90	781468.96	
13000.00	89.81	2.49	9693.74	3622.22	428.32	3637.41	0.00	460833.80	781473.31	
13100.00	89.81	2.49	9694.07	3722.12	432.67	3737.41	0.00	460933.70	781477.66	
13200.00	89.81	2.49	9694.40	3822.03	437.02	3837.41	0.00	461033.61	781482.01	
13300.00	89.81	2.49	9694.72	3921.93	441.38	3937.41	0.00	461133.51	781486.37	
13400.00	89.81	2.49	9695.05	4021.84	445.73	4037.41	0.00	461233.42	781490.72	
13500.00	89.81	2.49	9695.38	4121.74	450.08	4137.41	0.00	461333.32	781495.07	
13600.00	89.81	2.49	9695.70	4221.65	454.43	4237.40	0.00	461433.23	781499.42	
13700.00	89.81	2.49	9696.03	4321.55	458.78	4337.40	0.00	461533.13	781503.77	
13800.00	89.81	2.49	9696.36	4421.46	463.14	4437.40	0.00	461633.04	781508.13	
13900.00	89.81	2.49	9696.68	4521.36	467.49	4537.40	0.00	461732.94	781512.48	
14000.00	89.81	2.49	9697.01	4621.27	471.84	4637.40	0.00	461832.85	781516.83	
14100.00	89.81	2.49	9697.34	4721.17	476.19	4737.40	0.00	461932.75	781521.18	
14200.00	89.81	2.49	9697.67	4821.08	480.54	4837.40	0.00	462032.66	781525.53	
14300.00	89.81	2.49	9697.99	4920.98	484.90	4937.40	0.00	462132.56	781529.89	
14400.00	89.81	2.49	9698.32	5020.89	489.25	5037.40	0.00	462232.47	781534.24	
14500.00	89.81	2.49	9698.65	5120.79	493.60	5137.40	0.00	462332.37	781538.59	
14600.00	89.81	2.49	9698.97	5220.70	497.95	5237.40	0.00	462432.28	781542.94	
14700.00	89.81	2.49	9699.30	5320.60	502.31	5337.40	0.00	462532.18	781547.30	
14800.00	89.81	2.49	9699.63	5420.50	506.66	5437.40	0.00	462632.08	781551.65	
14900.00	89.81	2.49	9699.95	5520.41	511.01	5537.40	0.00	462731.99	781556.00	
15000.00	89.81	2.49	9700.28	5620.31	515.36	5637.40	0.00	462831.89	781560.35	
15100.00	89.81	2.49	9700.61	5720.22	519.71	5737.40	0.00	462931.80	781564.70	
15200.00	89.81	2.49	9700.93	5820.12	524.07	5837.40	0.00	463031.70	781569.06	
15300.00	89.81	2.49	9701.26	5920.03	528.42	5937.40	0.00	463131.61	781573.41	
15400.00	89.81	2.49	9701.59	6019.93	532.77	6037.40	0.00	463231.51	781577.76	

5D Plan Report

Interpolated 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
15500.00	89.81	2.49	9701.92	6119.84	537.12	6137.39	0.00	463331.42	781582.11	
15600.00	89.81	2.49	9702.24	6219.74	541.47	6237.39	0.00	463431.32	781586.46	
15700.00	89.81	2.49	9702.57	6319.65	545.83	6337.39	0.00	463531.23	781590.82	
15800.00	89.81	2.49	9702.90	6419.55	550.18	6437.39	0.00	463631.13	781595.17	
15900.00	89.81	2.49	9703.22	6519.46	554.53	6537.39	0.00	463731.04	781599.52	
16000.00	89.81	2.49	9703.55	6619.36	558.88	6637.39	0.00	463830.94	781603.87	
16100.00	89.81	2.49	9703.88	6719.27	563.24	6737.39	0.00	463930.85	781608.23	
16200.00	89.81	2.49	9704.20	6819.17	567.59	6837.39	0.00	464030.75	781612.58	
16300.00	89.81	2.49	9704.53	6919.08	571.94	6937.39	0.00	464130.66	781616.93	
16400.00	89.81	2.49	9704.86	7018.98	576.29	7037.39	0.00	464230.56	781621.28	
16500.00	89.81	2.49	9705.19	7118.88	580.64	7137.39	0.00	464330.46	781625.63	
16600.00	89.81	2.49	9705.51	7218.79	585.00	7237.39	0.00	464430.37	781629.99	
16700.00	89.81	2.49	9705.84	7318.69	589.35	7337.39	0.00	464530.27	781634.34	
16800.00	89.81	2.49	9706.17	7418.60	593.70	7437.39	0.00	464630.18	781638.69	
16900.00	89.81	2.49	9706.49	7518.50	598.05	7537.39	0.00	464730.08	781643.04	
17000.00	89.81	2.49	9706.82	7618.41	602.40	7637.39	0.00	464829.99	781647.39	
17055.04	89.81	2.49	9707.00	7673.40	604.80	7692.43	0.00	464884.98	781649.79	PBHL 113H



Devon Energy
Thistle Unit 113H
Lea Co, NM



Plan Data for Thistle Unit 113H

Plan Point Information:									
Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre									
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	-0.00	0.00	-0.00	457211.58	781044.99	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	-0.00	457211.58	781044.99	0.00	0.00 Nudge
2300.00	4.00	75.00	2299.35	7.22	26.96	457218.80	781071.95	8.39	0.50 Hold
2800.00	4.00	75.00	2798.13	16.25	60.65	457227.83	781105.64	18.87	0.00 Drop
3600.00	0.00	0.00	3597.48	23.48	87.62	457235.06	781132.61	27.26	0.50 Hold
4502.52	0.00	0.00	4500.00	23.48	87.62	457235.06	781132.61	27.26	0.00 Nudge
5502.52	5.00	75.00	5498.73	34.76	129.74	457246.34	781174.73	40.37	0.50 Hold
6712.52	5.00	75.00	6704.13	62.06	231.60	457273.64	781276.59	72.06	0.00 Drop
7712.52	0.00	0.00	7702.86	73.34	273.72	457284.92	781318.71	85.17	0.50 Hold
9120.70	0.00	0.00	9111.04	73.34	273.72	457284.92	781318.71	85.17	0.00 KOP
10018.83	89.81	2.49	9683.99	643.89	298.57	457855.47	781343.56	656.25	10.00 LP
17055.04	89.81	2.49	9707.00	7673.40	604.80	464884.98	781649.79	7692.43	0.00 PBHL 113H

Plan Data for Thistle Unit 113H

Field: Lea Co, NM Nad 83 NMEZ
Map Unit: USFt
Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Thistle Unit 113H
Unit: USFeet
Company Name: Devon Energy
Position: Northing: 457211.58USft Latitude: 32.254570°
Easting: 781044.99USft Longitude: -103.557914°
North Reference: Grid Grid Convergence: 0.41°
Elevation Above VRD: 3642.70USft

Slot: Thistle Unit 113H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 457211.58USft Latitude: 32.254570°
+E/-W: 0.00USft Easting: 781044.99USft Longitude: -103.557914°
Elevation Above VRD: 3642.70USft

Well: Thistle Unit 113H
Type: Main-Well
File Number:
Plan Folder: P1
Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 2.49°
+E/-W: -0.00USft
Magnetic Parameters: Dip: Date:
bggm2016 48107(nT) 7.05° 60.11° 2016-12-15

Plan Data for Thistle Unit 113H

Target Set Information:						
Name: Thistle 113H Tgts						
Position offsets from Slot centre						
Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
LP 9684.00		-6017.80	0.02	-10.01	457211.60	781034.98
BHL 113H 9707.00		-6040.80	7673.40	604.80	464884.98	781649.79



Thistle Unit 113H

