

HOBBS OCD
05 2019
ED

Devon

Snapping 12-1 Fed 533H

Cactus 167

This survey is correct to the best of my knowledge and is supported by actual field data.

Larry D. Burton

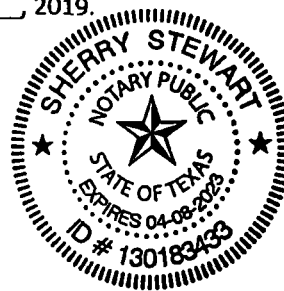
Notarized this data 31st of October, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



Scientific Drilling

The

In Wellbore Placement

Devon Energy

Lea County, NM (NAD83 NME)

Thistle Unit

#7H

OH

Survey: SDI Surveys #1

Standard Survey Report

25 April, 2019



www.scientificdrilling.com

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Thistle Unit		
Site Position:		Northing:	457,063.23 usft
From:	Map	Easting:	776,815.89 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 15.284 N
		Longitude:	103° 34' 17.748 W
		Grid Convergence:	0.41 °

Well	#7H		
Well Position	+N/-S	0.00 usft	Northing: 457,063.23 usft
	+E/-W	0.00 usft	Easting: 776,815.89 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 15' 15.284 N
		Longitude:	103° 34' 17.748 W
		Ground Level:	3,651.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	4/1/2019	6.68
			Dip Angle (°) 59.93
			Field Strength (nT) 47,953

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)
	0.00	0.00	0.00
			Direction (bearing) 3.26

Survey Program	Date 4/25/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
199.00	17,257.00	SDI Surveys #1 (OH)	MWD+HDGM
			Description QWSG MWD + HDGM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.35	287.10	100.00	0.09	-0.29	0.07	0.35	0.35	0.00
200.00	0.69	287.10	200.00	0.36	-1.16	0.29	0.34	0.34	0.00
300.00	0.86	290.21	299.98	0.85	-2.49	0.71	0.17	0.17	3.11
400.00	0.77	291.57	399.97	1.36	-3.85	1.14	0.09	-0.08	1.36
500.00	0.66	295.77	499.97	1.85	-5.00	1.57	0.12	-0.11	4.20
600.00	0.61	290.83	599.96	2.30	-5.99	1.96	0.08	-0.05	-4.94
700.00	0.59	282.37	699.96	2.60	-6.99	2.20	0.09	-0.01	-8.47
800.00	0.59	279.32	799.95	2.79	-8.00	2.33	0.03	0.00	-3.05
900.00	0.54	275.39	899.95	2.92	-8.98	2.40	0.06	-0.05	-3.93

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.66	278.19	999.94	3.04	-10.03	2.47	0.13	0.12	2.80
1,100.00	0.69	284.30	1,099.93	3.28	-11.18	2.64	0.08	0.03	6.11
1,200.00	0.69	286.07	1,199.93	3.59	-12.33	2.88	0.02	0.00	1.77
1,300.00	0.70	289.72	1,299.92	3.99	-13.55	3.21	0.04	0.01	3.65
1,400.00	0.44	291.07	1,399.91	4.33	-14.47	3.50	0.26	-0.26	1.34
1,500.00	0.21	292.63	1,499.91	4.54	-14.98	3.68	0.23	-0.23	1.56
1,600.00	0.11	53.35	1,599.91	4.63	-15.11	3.76	0.28	-0.10	120.72
1,700.00	0.39	91.48	1,699.91	4.75	-14.64	3.91	0.31	0.27	38.13
1,800.00	0.36	95.61	1,799.91	4.62	-13.91	3.82	0.04	-0.02	4.13
1,900.00	0.65	46.87	1,899.90	4.86	-13.30	4.10	0.49	0.28	-48.73
2,000.00	0.40	39.62	1,999.90	5.78	-12.49	5.07	0.25	-0.24	-7.26
2,100.00	0.12	342.84	2,099.90	6.04	-12.36	5.32	0.35	-0.28	-56.78
2,200.00	0.22	316.18	2,199.90	6.26	-12.54	5.54	0.12	0.10	-26.66
2,300.00	0.15	308.14	2,299.89	6.50	-12.80	5.76	0.07	-0.07	-8.04
2,400.00	0.05	249.12	2,399.89	6.57	-12.94	5.82	0.13	-0.10	-59.02
2,500.00	0.19	254.48	2,499.89	6.50	-13.12	5.74	0.14	0.14	5.37
2,600.00	0.21	249.52	2,599.89	6.39	-13.46	5.62	0.03	0.02	-4.96
2,700.00	0.08	77.15	2,699.89	6.34	-13.59	5.55	0.28	-0.13	-172.37
2,800.00	0.81	77.65	2,799.89	6.54	-12.83	5.80	0.73	0.73	0.50
2,900.00	1.47	92.50	2,899.87	6.65	-10.94	6.02	0.73	0.67	14.84
3,000.00	2.79	96.66	2,999.80	6.24	-7.25	5.82	1.32	1.31	4.17
3,100.00	4.02	94.12	3,099.62	5.75	-1.27	5.67	1.24	1.23	-2.54
3,200.00	4.95	93.66	3,199.31	5.17	6.52	5.53	0.93	0.93	-0.46
3,300.00	6.07	93.06	3,298.86	4.70	16.02	5.60	1.12	1.12	-0.61
3,400.00	7.50	94.92	3,398.16	3.88	27.77	5.45	1.45	1.43	1.86
3,500.00	8.84	96.01	3,497.13	2.47	41.99	4.86	1.35	1.34	1.09
3,600.00	9.10	97.01	3,595.85	0.70	57.82	3.99	0.31	0.27	1.00
3,700.00	8.75	98.09	3,694.64	-1.36	73.17	2.81	0.39	-0.35	1.08
3,800.00	8.36	96.76	3,793.53	-3.38	87.95	1.62	0.44	-0.39	-1.34
3,900.00	7.57	96.41	3,892.55	-4.90	101.81	0.90	0.79	-0.79	-0.35
4,000.00	7.56	94.53	3,991.70	-6.21	114.71	0.33	0.25	-0.02	-1.88
4,100.00	8.48	93.23	4,090.74	-7.10	128.52	0.22	0.94	0.92	-1.30
4,200.00	9.16	93.45	4,189.55	-7.98	143.88	0.21	0.68	0.68	0.22
4,300.00	8.64	94.15	4,288.33	-9.01	159.41	0.07	0.53	-0.52	0.70
4,400.00	7.91	96.22	4,387.29	-10.29	173.75	-0.39	0.79	-0.73	2.07
4,500.00	8.20	98.09	4,486.30	-12.02	187.64	-1.33	0.39	0.29	1.88
4,600.00	8.21	101.35	4,585.27	-14.56	201.77	-3.06	0.46	0.01	3.25
4,700.00	7.30	96.47	4,684.37	-16.54	214.99	-4.29	1.12	-0.91	-4.88
4,800.00	7.41	98.66	4,783.55	-18.20	227.61	-5.23	0.30	0.11	2.19
4,900.00	7.87	100.45	4,882.66	-20.50	240.76	-6.78	0.52	0.46	1.80
5,000.00	7.81	98.20	4,981.70	-22.84	254.39	-8.33	0.31	-0.06	-2.25
5,100.00	6.96	95.53	5,080.86	-24.21	267.23	-8.98	0.92	-0.85	-2.67
5,200.00	6.15	98.50	5,180.20	-25.59	278.55	-9.70	0.88	-0.81	2.97
5,300.00	5.78	100.83	5,279.69	-27.35	288.57	-10.90	0.44	-0.36	2.33

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,400.00	6.01	102.41	5,379.15	-29.37	298.67	-12.34	0.28	0.23	1.58	
5,500.00	6.34	99.15	5,478.58	-31.65	309.10	-14.02	0.48	0.33	-3.26	
5,600.00	6.78	92.22	5,577.92	-32.69	320.53	-14.41	0.91	0.44	-6.94	
5,700.00	6.91	88.96	5,677.20	-32.73	332.52	-13.77	0.41	0.13	-3.25	
5,800.00	6.86	87.82	5,776.47	-32.37	344.52	-12.72	0.15	-0.05	-1.14	
5,900.00	6.90	84.90	5,875.76	-31.67	356.45	-11.35	0.35	0.04	-2.92	
6,000.00	6.92	83.09	5,975.03	-30.36	368.42	-9.36	0.22	0.02	-1.81	
6,100.00	6.68	83.05	6,074.32	-28.91	380.21	-7.24	0.24	-0.24	-0.04	
6,200.00	6.16	83.22	6,173.69	-27.57	391.34	-5.27	0.52	-0.52	0.17	
6,300.00	6.15	82.58	6,273.12	-26.25	401.95	-3.35	0.07	-0.02	-0.64	
6,400.00	5.89	82.40	6,372.57	-24.88	412.34	-1.39	0.26	-0.26	-0.18	
6,500.00	5.91	82.40	6,472.04	-23.50	422.54	0.56	0.02	0.02	0.00	
6,600.00	5.82	83.70	6,571.51	-22.29	432.68	2.35	0.16	-0.09	1.30	
6,700.00	5.48	85.20	6,671.00	-21.18	442.71	4.03	0.37	-0.34	1.49	
6,800.00	3.92	95.41	6,770.67	-21.25	450.82	4.42	1.76	-1.56	10.21	
6,900.00	2.74	103.95	6,870.50	-22.09	456.50	3.90	1.28	-1.18	8.54	
7,000.00	1.89	115.17	6,970.42	-23.56	460.23	2.65	0.96	-0.85	11.23	
7,100.00	1.21	115.00	7,070.39	-24.62	462.63	1.73	0.68	-0.68	-0.17	
7,200.00	1.14	144.80	7,170.37	-25.67	464.14	0.77	0.61	-0.07	29.80	
7,300.00	1.78	175.33	7,270.34	-28.05	464.89	-1.57	0.99	0.64	30.53	
7,400.00	2.14	180.35	7,370.27	-31.62	464.84	-5.14	0.40	0.36	5.02	
7,500.00	2.11	184.36	7,470.20	-35.36	464.79	-8.87	0.15	-0.02	4.01	
7,600.00	2.42	197.38	7,570.13	-39.13	464.08	-12.68	0.60	0.31	13.01	
7,700.00	2.31	193.55	7,670.04	-43.20	462.78	-16.81	0.19	-0.11	-3.82	
7,800.00	2.14	212.05	7,769.96	-46.79	461.52	-20.47	0.74	-0.18	18.49	
7,900.00	2.23	224.57	7,869.89	-49.71	459.10	-23.52	0.48	0.09	12.53	
8,000.00	2.02	211.73	7,969.82	-52.57	456.74	-26.51	0.52	-0.21	-12.84	
8,100.00	2.02	244.89	8,069.76	-54.86	454.27	-28.94	1.15	0.00	33.16	
8,200.00	2.22	245.67	8,169.69	-56.48	450.88	-30.75	0.20	0.20	0.78	
8,300.00	1.69	291.30	8,269.64	-56.63	447.79	-31.07	1.59	-0.53	45.63	
8,400.00	1.83	294.65	8,369.59	-55.36	444.92	-29.96	0.17	0.13	3.35	
8,500.00	1.55	285.57	8,469.55	-54.38	442.24	-29.14	0.38	-0.28	-9.08	
8,600.00	1.64	283.44	8,569.51	-53.70	439.47	-28.62	0.10	0.09	-2.12	
8,700.00	1.39	281.99	8,669.47	-53.05	436.90	-28.12	0.25	-0.25	-1.45	
8,800.00	1.20	271.75	8,769.45	-52.81	434.70	-28.00	0.30	-0.18	-10.24	
8,900.00	1.16	265.56	8,869.43	-52.86	432.66	-28.17	0.13	-0.04	-6.18	
9,000.00	1.18	271.79	8,969.41	-53.01	430.64	-28.44	0.13	0.02	6.23	
9,100.00	6.09	351.87	9,069.29	-50.26	428.67	-25.80	6.00	4.91	80.08	
9,200.00	17.70	356.04	9,166.99	-29.80	427.27	-5.45	11.64	11.61	4.17	
9,300.00	27.92	359.69	9,258.87	9.30	425.39	33.48	10.31	10.22	3.65	
9,400.00	33.38	3.13	9,344.46	60.92	426.85	85.09	5.74	5.47	3.44	
9,500.00	43.66	2.27	9,423.19	122.22	430.47	146.50	10.29	10.27	-0.86	
9,600.00	52.75	2.50	9,489.54	196.88	432.86	221.17	9.10	9.10	0.24	

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,700.00	59.96	3.54	9,545.12	279.81	437.41	304.23	7.26	7.21	1.04	
9,800.00	69.13	3.95	9,587.99	369.85	443.23	394.46	9.17	9.16	0.40	
9,900.00	77.25	1.56	9,616.47	465.51	447.56	490.21	8.44	8.12	-2.39	
10,000.00	82.18	1.41	9,634.63	563.78	450.17	588.47	4.93	4.93	-0.15	
10,100.00	86.86	0.78	9,644.15	663.28	451.92	687.91	4.72	4.68	-0.63	
10,200.00	89.77	359.91	9,646.68	763.24	452.45	787.73	3.04	2.91	-0.88	
10,300.00	89.71	359.75	9,647.25	863.23	452.05	887.54	0.17	-0.06	-0.15	
10,400.00	90.28	360.00	9,647.29	963.23	451.94	987.38	0.63	0.58	0.24	
10,500.00	90.36	359.43	9,646.32	1,063.23	451.63	1,087.19	0.57	0.07	-0.57	
10,600.00	89.58	358.73	9,646.77	1,163.21	449.68	1,186.90	1.04	-0.77	-0.69	
10,700.00	89.98	359.05	9,647.08	1,263.19	447.82	1,286.61	0.51	0.40	0.32	
10,800.00	90.55	359.31	9,646.79	1,363.18	446.33	1,386.35	0.62	0.57	0.25	
10,900.00	90.28	359.70	9,645.52	1,463.16	445.47	1,486.13	0.48	-0.27	0.40	
11,000.00	89.55	359.47	9,645.95	1,563.16	444.99	1,585.94	0.77	-0.74	-0.23	
11,100.00	89.36	359.25	9,646.89	1,663.15	443.71	1,685.69	0.29	-0.19	-0.22	
11,200.00	89.92	359.30	9,647.75	1,763.13	442.46	1,785.44	0.56	0.56	0.04	
11,300.00	90.68	358.69	9,647.17	1,863.12	440.86	1,885.17	0.97	0.76	-0.61	
11,400.00	91.11	358.88	9,645.56	1,963.08	438.52	1,984.84	0.48	0.44	0.20	
11,500.00	91.55	358.92	9,643.24	2,063.03	436.68	2,084.53	0.44	0.44	0.04	
11,600.00	89.82	359.50	9,641.79	2,163.01	435.23	2,184.26	1.82	-1.73	0.58	
11,700.00	89.80	359.17	9,642.27	2,263.00	434.13	2,284.03	0.33	-0.03	-0.33	
11,800.00	89.94	0.64	9,642.50	2,363.00	433.99	2,383.85	1.48	0.15	1.47	
11,900.00	90.35	0.04	9,642.19	2,462.99	434.53	2,483.72	0.73	0.41	-0.60	
12,000.00	90.23	359.90	9,641.75	2,562.99	434.57	2,583.56	0.18	-0.12	-0.14	
12,100.00	90.77	359.43	9,640.96	2,662.99	433.72	2,683.34	0.72	0.54	-0.47	
12,200.00	91.52	0.69	9,638.81	2,762.96	433.67	2,783.15	1.46	0.75	1.26	
12,300.00	91.54	2.26	9,636.14	2,862.88	436.45	2,883.07	1.58	0.03	1.58	
12,400.00	91.08	2.94	9,633.58	2,962.74	441.06	2,983.03	0.82	-0.47	0.67	
12,500.00	91.78	4.01	9,632.13	3,062.56	446.78	3,083.02	1.29	0.71	1.08	
12,600.00	92.73	3.98	9,626.93	3,162.11	454.70	3,182.85	0.95	0.95	-0.03	
12,677.26	91.28	2.17	9,624.22	3,239.20	458.85	3,260.05	3.00	-1.88	-2.33	
T1(TU#7H)										
12,700.00	90.85	1.64	9,623.93	3,261.93	459.56	3,282.79	3.00	-1.88	-2.33	
12,800.00	89.14	0.03	9,623.89	3,361.92	460.79	3,382.68	2.35	-1.72	-1.61	
12,900.00	89.45	0.01	9,625.83	3,461.90	460.45	3,482.48	0.32	0.31	-0.02	
13,000.00	89.37	0.35	9,626.38	3,561.90	460.86	3,582.34	0.35	-0.08	0.34	
13,100.00	88.63	0.38	9,628.16	3,661.88	461.53	3,682.20	0.74	-0.74	0.03	
13,200.00	87.07	358.70	9,631.75	3,761.80	461.02	3,781.93	2.29	-1.57	-1.68	
13,300.00	88.14	358.63	9,636.33	3,861.66	458.41	3,881.48	1.08	1.07	-0.07	
13,400.00	88.98	358.54	9,638.77	3,961.60	455.97	3,981.12	0.84	0.83	-0.09	
13,500.00	88.52	358.59	9,640.89	4,061.55	453.45	4,080.76	0.46	-0.46	0.05	
13,600.00	87.67	358.18	9,644.27	4,161.45	450.61	4,180.34	0.95	-0.85	-0.41	
13,700.00	88.04	358.44	9,648.06	4,261.33	447.68	4,279.90	0.45	0.37	0.26	
13,800.00	88.85	358.63	9,650.74	4,361.26	445.10	4,379.52	0.83	0.81	0.19	

Scientific Drilling, Intl Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.00	89.38	358.73	9,652.27	4,461.23	443.01	4,479.20	0.54	0.53	0.10
14,000.00	89.65	358.11	9,653.01	4,561.18	440.00	4,578.82	0.68	0.27	-0.62
14,100.00	89.68	358.21	9,653.72	4,661.13	437.06	4,678.45	0.11	0.03	0.10
14,200.00	90.03	357.73	9,653.88	4,761.06	433.29	4,778.00	0.59	0.34	-0.49
14,300.00	89.92	358.52	9,653.83	4,861.00	429.73	4,877.57	0.80	-0.11	0.79
14,400.00	90.24	359.74	9,654.01	4,960.99	428.38	4,977.32	1.27	0.32	1.22
14,500.00	89.89	0.07	9,653.28	5,060.98	428.41	5,077.15	0.48	-0.36	0.33
14,600.00	89.37	359.78	9,654.37	5,160.98	428.35	5,176.98	0.60	-0.52	-0.29
14,700.00	89.52	0.21	9,655.28	5,260.97	428.07	5,276.80	0.46	0.15	0.43
14,800.00	89.28	0.05	9,656.25	5,360.96	428.61	5,376.66	0.29	-0.24	-0.17
14,900.00	89.74	359.52	9,657.28	5,460.96	428.19	5,476.47	0.70	0.46	-0.53
15,000.00	87.30	359.94	9,659.28	5,560.92	427.55	5,576.24	2.48	-2.45	0.42
15,100.00	88.02	0.38	9,663.93	5,660.81	427.86	5,675.98	0.85	0.72	0.45
15,200.00	87.47	358.98	9,667.67	5,760.74	427.48	5,775.73	1.51	-0.55	-1.41
15,300.00	89.09	359.73	9,670.80	5,860.68	426.23	5,875.43	1.79	1.62	0.75
15,400.00	89.71	359.37	9,671.89	5,960.67	425.39	5,975.21	0.72	0.62	-0.36
15,500.00	91.01	359.95	9,671.26	6,060.66	424.85	6,075.01	1.43	1.30	0.58
15,600.00	91.68	0.07	9,668.46	6,160.62	424.79	6,174.81	0.68	0.67	0.12
15,700.00	89.93	0.93	9,667.48	6,260.61	425.50	6,274.67	1.95	-1.75	0.86
15,800.00	90.34	2.54	9,667.24	6,360.56	428.56	6,374.63	1.67	0.41	1.62
15,900.00	90.07	2.83	9,666.52	6,460.41	433.96	6,474.63	0.39	-0.26	0.28
16,000.00	89.26	1.17	9,667.47	6,560.35	437.15	6,574.59	1.84	-0.82	-1.65
16,084.37	89.34	0.90	9,668.50	6,644.70	438.68	6,658.89	0.33	0.09	-0.32
T2[TU#7H]									
16,100.00	89.35	0.85	9,668.60	6,660.33	438.70	6,674.50	0.33	0.09	-0.32
16,200.00	89.07	0.87	9,669.91	6,760.31	440.31	6,774.40	0.28	-0.28	0.02
16,300.00	88.89	0.33	9,671.80	6,860.28	441.48	6,874.28	0.57	-0.17	-0.54
16,400.00	89.18	359.65	9,673.56	6,960.26	441.42	6,974.10	0.74	0.28	-0.68
16,500.00	89.56	359.41	9,674.64	7,060.25	440.49	7,073.88	0.45	0.38	-0.24
16,600.00	89.64	359.34	9,675.28	7,160.25	439.41	7,173.65	0.11	0.08	-0.07
16,700.00	90.17	359.05	9,675.57	7,260.24	438.05	7,273.40	0.60	0.53	-0.29
16,800.00	90.21	358.20	9,675.12	7,360.21	435.73	7,373.07	0.85	0.05	-0.85
16,900.00	90.76	358.93	9,674.35	7,460.16	433.01	7,472.72	0.91	0.54	0.73
17,000.00	90.96	358.69	9,672.82	7,560.13	431.02	7,572.41	0.32	0.21	-0.24
17,100.00	91.66	359.35	9,670.54	7,660.09	429.29	7,672.11	0.96	0.70	0.66
17,198.00	92.39	359.66	9,667.07	7,758.03	428.44	7,769.83	0.81	0.74	0.32
MWD Survey (17198.00' MD)									
17,200.00	92.39	359.66	9,666.99	7,760.02	428.43	7,771.83	0.00	0.00	0.00
BHL[TU#7H]									

Scientific Drilling, Intl **Survey Report**

Company:	Devon Energy	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Site:	Thistle Unit	MD Reference:	KB = 32 @ 3683.00usft (Nabors X04)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,198.00	9,667.07	7,758.03	428.44	MWD Survey (17198.00' MD)
17,257.00	9,664.61	7,816.97	428.09	Proj. to Bit (17257.00' MD)

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------