

NOV 30 2017

Company: Devon Energy

Site: Rebel 20 Fed

Well: 7H

Project: Lea County, New Mexico (NAD 83)

Rig: Cactus 126



RECEIVED

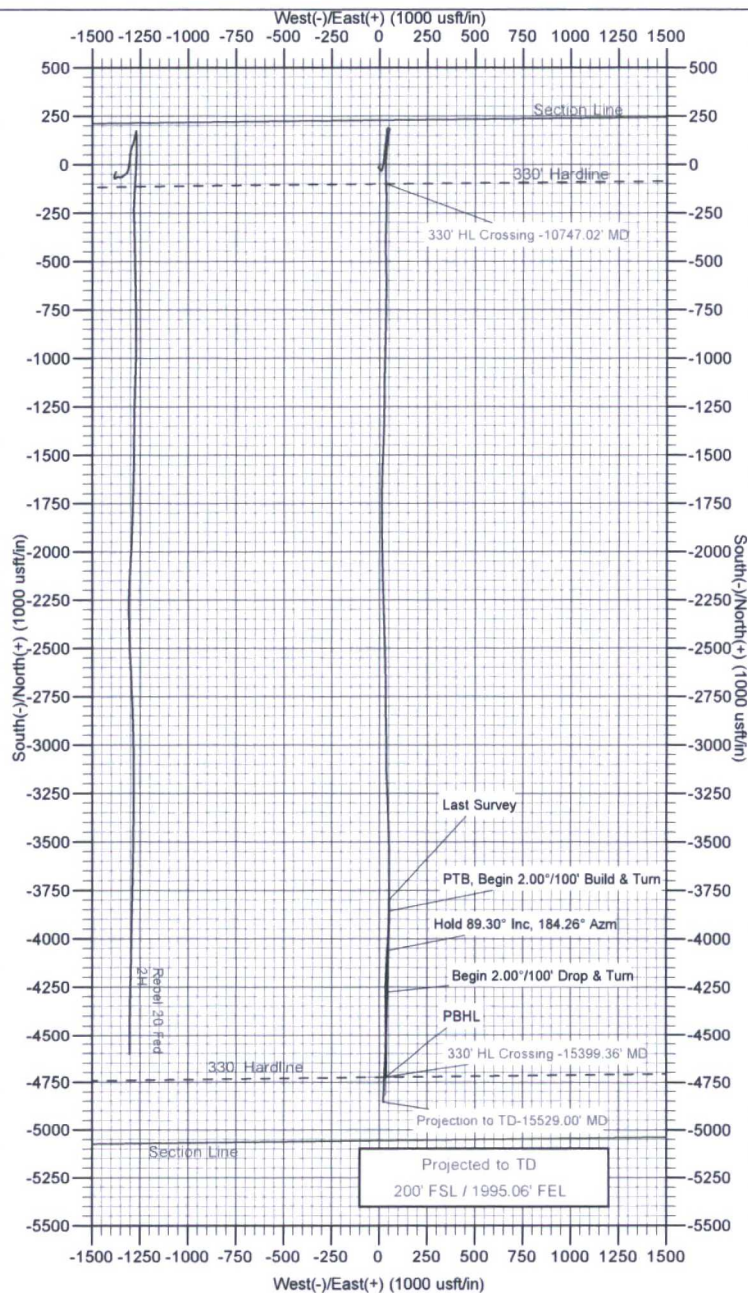
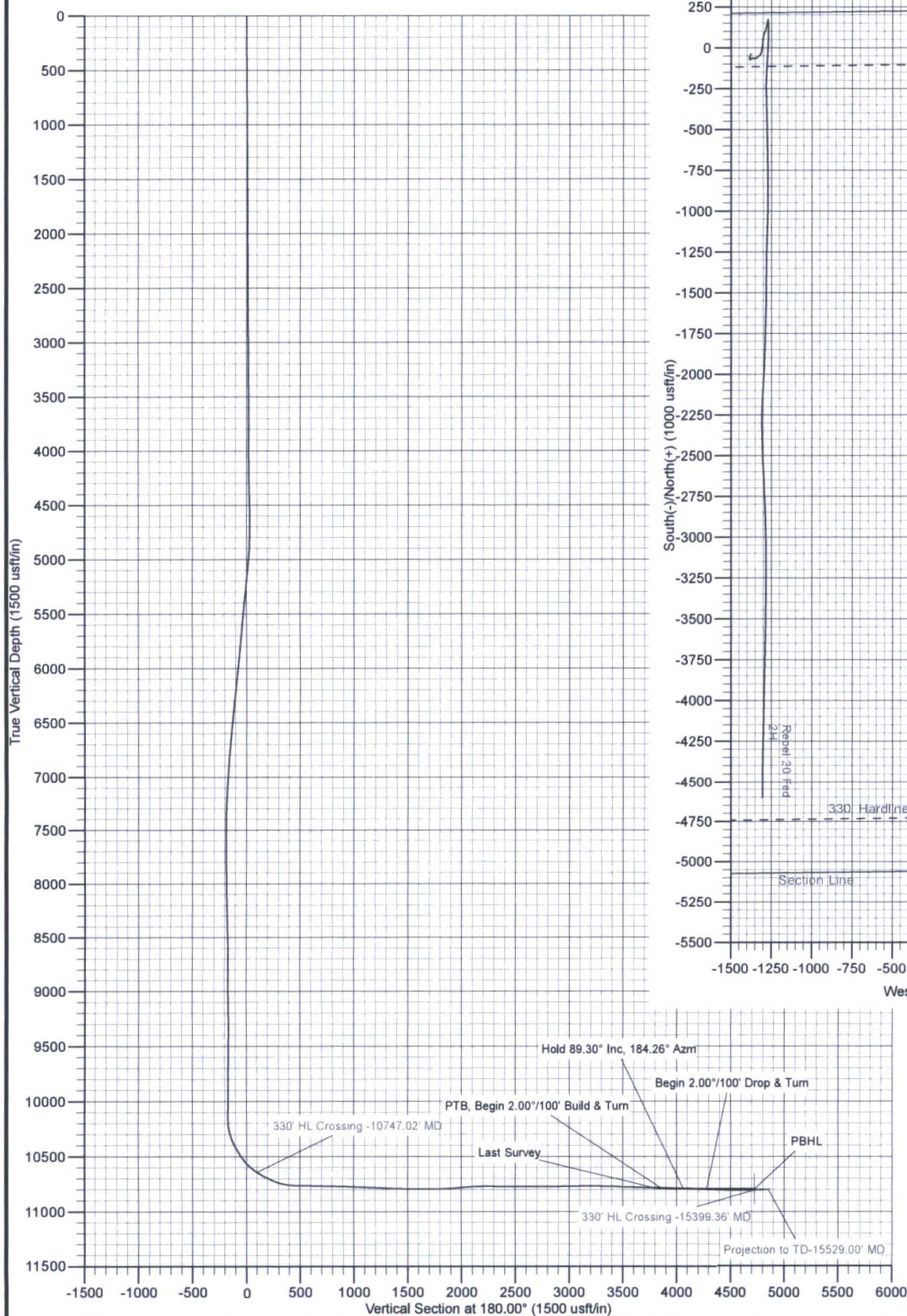
MS Energy Services.
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 Azimuths to Grid North
 True North: -0.34°
 Magnetic North: 6.74°

 Magnetic Field
 Strength: 47978.0nT
 Dip Angle: 60.01°
 Date: 5/15/2017
 Model: BGGM2017

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
14472.00	88.20	180.30	10785.18	-3797.04	52.36	3797.04	0.00	Last Survey
14531.00	88.20	180.30	10787.04	-3856.01	52.05	3856.01	58.97	PTB, Begin 2.00°/100' Build & Turn
14736.80	89.30	184.26	10791.52	-4061.55	43.86	4061.55	264.72	Hold 89.30° Inc, 184.26° Azm
14952.10	89.88	180.00	10793.06	-4276.65	35.86	4276.65	480.01	Begin 2.00°/100' Drop & Turn
15399.10	89.88	180.00	10794.00	-4723.65	35.86	4723.65	927.01	PBHL


 US State Plane 1983
 New Mexico Eastern Zone

 Created By: VLS
 Date: 10:39, June 01 2017
 Plan: Design #7

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented.

Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Devon Energy

Lea County, New Mexico (NAD 83)

Rebel 20 Fed

7H

Wellbore #1

Design: Surveys

Standard Survey Report

01 June, 2017

HOBBS OCD

NOV 30 2017

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Company:	Devon Energy	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3583.50usft (Cactus 126)
Site:	Rebel 20 Fed	MD Reference:	WELL @ 3583.50usft (Cactus 126)
Well:	7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Project	Lea County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Well	7H					
Well Position	+N/-S	0.00 usft	Northing:	440,570.57 usft	Latitude:	32° 12' 34.531 N
	+E/-W	0.00 usft	Easting:	738,886.36 usft	Longitude:	103° 41' 40.570 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,558.50 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2017	5/15/2017	7.08	60.01	47,978.01

Design	Surveys		
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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	180.00

Survey Program	Date 6/1/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
144.00	15,529.00	MS MWD (Wellbore #1)	MWD	OWSG MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	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
144.00	0.10	246.00	144.00	-0.05	-0.11	0.05	0.07	0.07	0.00
243.00	0.10	232.80	243.00	-0.14	-0.26	0.14	0.02	0.00	-13.33
274.00	0.20	188.70	274.00	-0.21	-0.29	0.21	0.47	0.32	-142.26
366.00	0.30	167.40	366.00	-0.60	-0.26	0.60	0.15	0.11	-23.15
459.00	0.40	150.60	459.00	-1.12	-0.05	1.12	0.15	0.11	-18.06
551.00	0.40	136.60	550.99	-1.64	0.33	1.64	0.11	0.00	-15.22
643.00	0.50	168.10	642.99	-2.26	0.63	2.26	0.29	0.11	34.24
736.00	0.40	179.90	735.99	-2.98	0.71	2.98	0.15	-0.11	12.69
829.00	0.60	187.40	828.99	-3.79	0.65	3.79	0.23	0.22	8.06
978.00	0.40	172.40	977.98	-5.08	0.62	5.08	0.16	-0.13	-10.07
1,071.00	0.90	218.60	1,070.97	-5.97	0.21	5.97	0.74	0.54	49.68
1,164.00	0.30	178.40	1,163.97	-6.79	-0.24	6.79	0.75	-0.65	-43.23
1,257.00	0.30	221.30	1,256.97	-7.21	-0.39	7.21	0.24	0.00	46.13
1,350.00	0.60	204.20	1,349.96	-7.84	-0.76	7.84	0.35	0.32	-18.39

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Well:	7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,443.00	0.40	187.60	1,442.96	-8.61	-1.00	8.61	0.26	-0.22	-17.85
1,536.00	0.20	221.20	1,535.96	-9.05	-1.15	9.05	0.28	-0.22	36.13
1,628.00	0.50	225.90	1,627.96	-9.45	-1.54	9.45	0.33	0.33	5.11
1,720.00	0.40	174.50	1,719.96	-10.05	-1.80	10.05	0.44	-0.11	-55.87
1,815.00	0.40	215.00	1,814.95	-10.65	-1.96	10.65	0.29	0.00	42.63
1,909.00	0.20	213.00	1,908.95	-11.06	-2.24	11.06	0.21	-0.21	-2.13
2,003.00	0.20	256.10	2,002.95	-11.23	-2.48	11.23	0.16	0.00	45.85
2,097.00	0.60	208.30	2,096.95	-11.71	-2.88	11.71	0.52	0.43	-50.85
2,191.00	0.70	169.40	2,190.94	-12.70	-3.00	12.70	0.47	0.11	-41.38
2,285.00	0.00	15.00	2,284.94	-13.27	-2.90	13.27	0.74	-0.74	0.00
2,379.00	0.40	220.50	2,378.94	-13.52	-3.11	13.52	0.43	0.43	0.00
2,473.00	0.30	251.10	2,472.94	-13.85	-3.56	13.85	0.22	-0.11	32.55
2,567.00	0.50	202.00	2,566.94	-14.31	-3.94	14.31	0.40	0.21	-52.23
2,661.00	0.30	247.30	2,660.93	-14.78	-4.32	14.78	0.38	-0.21	48.19
2,756.00	0.40	152.10	2,755.93	-15.17	-4.40	15.17	0.55	0.11	-100.21
2,850.00	0.40	140.50	2,849.93	-15.72	-4.04	15.72	0.09	0.00	-12.34
2,944.00	0.20	169.20	2,943.93	-16.13	-3.80	16.13	0.26	-0.21	30.53
3,038.00	0.50	146.30	3,037.93	-16.63	-3.54	16.63	0.35	0.32	-24.36
3,132.00	0.50	177.90	3,131.93	-17.38	-3.30	17.38	0.29	0.00	33.62
3,226.00	0.40	120.00	3,225.92	-17.96	-3.00	17.96	0.47	-0.11	-61.60
3,320.00	0.40	156.70	3,319.92	-18.42	-2.58	18.42	0.27	0.00	39.04
3,414.00	0.60	140.90	3,413.92	-19.11	-2.14	19.11	0.26	0.21	-16.81
3,508.00	0.30	133.50	3,507.91	-19.66	-1.65	19.66	0.32	-0.32	-7.87
3,602.00	0.50	113.60	3,601.91	-19.99	-1.10	19.99	0.26	0.21	-21.17
3,696.00	0.40	116.00	3,695.91	-20.30	-0.43	20.30	0.11	-0.11	2.55
3,790.00	0.50	170.10	3,789.91	-20.85	-0.06	20.85	0.45	0.11	57.55
3,884.00	0.30	96.90	3,883.90	-21.28	0.25	21.28	0.54	-0.21	-77.87
3,978.00	0.50	99.40	3,977.90	-21.38	0.90	21.38	0.21	0.21	2.66
4,072.00	0.60	138.30	4,071.90	-21.81	1.63	21.81	0.40	0.11	41.38
4,166.00	0.80	118.60	4,165.89	-22.49	2.54	22.49	0.33	0.21	-20.96
4,260.00	1.00	141.00	4,259.88	-23.44	3.63	23.44	0.43	0.21	23.83
4,354.00	1.30	142.60	4,353.86	-24.93	4.79	24.93	0.32	0.32	1.70
4,448.00	1.50	143.70	4,447.83	-26.77	6.17	26.77	0.21	0.21	1.17
4,542.00	1.70	146.10	4,541.80	-28.92	7.67	28.92	0.22	0.21	2.55
4,581.00	1.70	145.50	4,580.78	-29.87	8.32	29.87	0.05	0.00	-1.54
4,631.00	1.40	142.90	4,630.76	-30.97	9.11	30.97	0.62	-0.60	-5.20
4,725.00	0.60	114.60	4,724.75	-32.09	10.25	32.09	0.98	-0.85	-30.11
4,819.00	2.20	37.10	4,818.72	-30.86	11.79	30.86	2.29	1.70	-82.45
4,913.00	3.80	15.30	4,912.59	-26.41	13.70	26.41	2.06	1.70	-23.19
5,007.00	4.80	14.30	5,006.32	-19.60	15.49	19.60	1.07	1.06	-1.06
5,101.00	5.90	13.30	5,099.91	-11.09	17.58	11.09	1.17	1.17	-1.06
5,195.00	5.10	11.20	5,193.48	-2.29	19.50	2.29	0.88	-0.85	-2.23
5,289.00	5.60	7.50	5,287.07	6.36	20.91	-6.36	0.65	0.53	-3.94
5,383.00	5.60	8.50	5,380.62	15.44	22.19	-15.44	0.10	0.00	1.06

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,477.00	6.00	8.20	5,474.14	24.84	23.56	-24.84	0.43	0.43	-0.32
5,571.00	5.50	8.30	5,567.67	34.16	24.92	-34.16	0.53	-0.53	0.11
5,665.00	4.80	6.50	5,661.29	42.53	26.01	-42.53	0.76	-0.74	-1.91
5,759.00	6.10	5.30	5,754.86	51.41	26.92	-51.41	1.39	1.38	-1.28
5,853.00	6.10	5.00	5,848.33	61.36	27.81	-61.36	0.03	0.00	-0.32
5,947.00	6.20	5.30	5,941.79	71.39	28.72	-71.39	0.11	0.11	0.32
6,041.00	6.30	5.40	6,035.23	81.58	29.67	-81.58	0.11	0.11	0.11
6,135.00	6.30	5.90	6,128.66	91.84	30.69	-91.84	0.06	0.00	0.53
6,230.00	6.30	6.10	6,223.09	102.21	31.78	-102.21	0.02	0.00	0.21
6,324.00	6.00	7.30	6,316.55	112.21	32.95	-112.21	0.35	-0.32	1.28
6,418.00	5.80	6.70	6,410.05	121.80	34.13	-121.80	0.22	-0.21	-0.64
6,512.00	5.60	8.50	6,503.58	131.05	35.36	-131.05	0.29	-0.21	1.91
6,606.00	5.50	9.60	6,597.14	140.03	36.79	-140.03	0.16	-0.11	1.17
6,700.00	5.10	9.60	6,690.74	148.59	38.24	-148.59	0.43	-0.43	0.00
6,795.00	5.00	2.90	6,785.37	156.89	39.15	-156.89	0.63	-0.11	-7.05
6,889.00	4.10	355.60	6,879.08	164.33	39.10	-164.33	1.14	-0.96	-7.77
6,983.00	3.90	351.30	6,972.85	170.84	38.36	-170.84	0.38	-0.21	-4.57
7,077.00	3.30	8.00	7,066.66	176.68	38.25	-176.68	1.28	-0.64	17.77
7,171.00	2.80	13.10	7,160.53	181.60	39.15	-181.60	0.60	-0.53	5.43
7,265.00	2.20	34.20	7,254.44	185.33	40.68	-185.33	1.16	-0.64	22.45
7,359.00	1.50	76.00	7,348.40	187.12	42.89	-187.12	1.57	-0.74	44.47
7,453.00	1.40	80.20	7,442.37	187.61	45.22	-187.61	0.16	-0.11	4.47
7,547.00	1.30	83.00	7,536.34	187.93	47.41	-187.93	0.13	-0.11	2.98
7,641.00	1.40	110.60	7,630.32	187.66	49.54	-187.66	0.69	0.11	29.36
7,735.00	1.50	114.10	7,724.29	186.75	51.74	-186.75	0.14	0.11	3.72
7,829.00	1.20	129.50	7,818.26	185.62	53.62	-185.62	0.50	-0.32	16.38
7,923.00	0.80	185.40	7,912.25	184.35	54.32	-184.35	1.07	-0.43	59.47
8,017.00	0.80	183.80	8,006.24	183.04	54.21	-183.04	0.02	0.00	-1.70
8,111.00	1.00	183.40	8,100.23	181.56	54.12	-181.56	0.21	0.21	-0.43
8,205.00	2.00	212.90	8,194.20	179.37	53.18	-179.37	1.31	1.06	31.38
8,299.00	1.20	209.80	8,288.16	177.14	51.80	-177.14	0.86	-0.85	-3.30
8,393.00	1.30	197.50	8,382.14	175.26	50.99	-175.26	0.30	0.11	-13.09
8,487.00	1.50	194.30	8,476.11	173.06	50.37	-173.06	0.23	0.21	-3.40
8,581.00	1.20	192.90	8,570.08	170.90	49.84	-170.90	0.32	-0.32	-1.49
8,675.00	0.80	208.90	8,664.07	169.37	49.31	-169.37	0.52	-0.43	17.02
8,769.00	0.20	239.60	8,758.06	168.71	48.85	-168.71	0.68	-0.64	32.66
8,864.00	0.30	273.10	8,853.06	168.64	48.46	-168.64	0.18	0.11	35.26
8,958.00	0.40	182.00	8,947.06	168.33	48.20	-168.33	0.54	0.11	-96.91
9,051.00	1.00	161.60	9,040.05	167.23	48.44	-167.23	0.69	0.65	-21.94
9,146.00	0.70	167.10	9,135.04	165.88	48.84	-165.88	0.33	-0.32	5.79
9,242.00	0.60	136.00	9,231.04	164.95	49.32	-164.95	0.38	-0.10	-32.40
9,336.00	0.60	129.90	9,325.03	164.28	50.04	-164.28	0.07	0.00	-6.49
9,430.00	1.00	22.90	9,419.03	164.72	50.73	-164.72	1.39	0.43	-113.83

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,524.00	1.40	5.20	9,513.01	166.62	51.16	-166.62	0.58	0.43	-18.83
9,618.00	1.00	9.90	9,606.99	168.57	51.40	-168.57	0.44	-0.43	5.00
9,712.00	0.70	359.20	9,700.97	169.95	51.53	-169.95	0.36	-0.32	-11.38
9,807.00	0.00	177.30	9,795.97	170.53	51.53	-170.53	0.74	-0.74	0.00
9,901.00	0.10	307.90	9,889.97	170.58	51.46	-170.58	0.11	0.11	0.00
9,995.00	0.30	27.30	9,983.97	170.85	51.51	-170.85	0.32	0.21	84.47
10,089.00	0.20	294.70	10,077.97	171.14	51.47	-171.14	0.39	-0.11	-98.51
10,140.00	0.20	7.70	10,128.97	171.26	51.40	-171.26	0.47	0.00	143.14
10,184.00	0.20	271.10	10,172.97	171.34	51.34	-171.34	0.68	0.00	-219.55
10,231.00	6.30	193.90	10,219.88	168.84	50.63	-168.84	13.32	12.98	-164.26
10,278.00	12.40	191.80	10,266.23	161.39	48.98	-161.39	13.00	12.98	-4.47
10,325.00	18.00	189.50	10,311.57	149.27	46.75	-149.27	11.98	11.91	-4.89
10,371.00	22.90	186.80	10,354.66	133.37	44.52	-133.37	10.85	10.65	-5.87
10,419.00	27.10	186.30	10,398.15	113.22	42.21	-113.22	8.76	8.75	-1.04
10,465.00	31.30	185.30	10,438.29	90.90	39.95	-90.90	9.19	9.13	-2.17
10,512.00	33.80	185.60	10,477.91	65.73	37.55	-65.73	5.33	5.32	0.64
10,559.00	38.00	185.10	10,515.97	38.29	34.99	-38.29	8.96	8.94	-1.06
10,606.00	42.70	182.40	10,551.78	7.94	33.03	-7.94	10.67	10.00	-5.74
10,653.00	47.00	178.80	10,585.10	-25.19	32.73	25.19	10.62	9.15	-7.66
10,700.00	52.80	177.70	10,615.36	-61.11	33.84	61.11	12.47	12.34	-2.34
10,747.02	57.60	177.41	10,642.19	-99.67	35.49	99.67	10.22	10.21	-0.63
330' HL Crossing -10747.02' MD									
10,748.00	57.70	177.40	10,642.72	-100.50	35.53	100.50	10.22	10.21	-0.59
10,795.00	60.70	178.60	10,666.78	-140.84	36.93	140.84	6.75	6.38	2.55
10,841.00	62.40	180.10	10,688.69	-181.28	37.38	181.28	4.68	3.70	3.26
10,888.00	64.80	181.00	10,709.59	-223.37	36.97	223.37	5.39	5.11	1.91
10,935.00	69.60	181.10	10,727.80	-266.68	36.18	266.68	10.21	10.21	0.21
10,982.00	74.70	181.00	10,742.20	-311.39	35.36	311.39	10.85	10.85	-0.21
11,029.00	80.50	180.70	10,752.29	-357.27	34.68	357.27	12.36	12.34	-0.64
11,089.00	83.70	179.60	10,760.53	-416.69	34.53	416.69	5.63	5.33	-1.83
11,139.00	86.50	179.80	10,764.80	-466.50	34.79	466.50	5.61	5.60	0.40
11,183.00	89.30	178.90	10,766.42	-510.47	35.29	510.47	6.68	6.36	-2.05
11,277.00	90.50	179.70	10,766.58	-604.46	36.44	604.46	1.53	1.28	0.85
11,371.00	88.70	180.90	10,767.24	-698.45	35.94	698.45	2.30	-1.91	1.28
11,465.00	89.10	181.70	10,769.04	-792.41	33.81	792.41	0.95	0.43	0.85
11,559.00	88.50	181.70	10,771.01	-886.34	31.02	886.34	0.64	-0.64	0.00
11,652.00	88.90	181.20	10,773.12	-979.29	28.67	979.29	0.69	0.43	-0.54
11,746.00	87.30	180.30	10,776.24	-1,073.23	27.44	1,073.23	1.95	-1.70	-0.96
11,840.00	87.30	180.70	10,780.67	-1,167.12	26.62	1,167.12	0.43	0.00	0.43
11,934.00	86.90	180.60	10,785.42	-1,260.99	25.56	1,260.99	0.44	-0.43	-0.11
12,028.00	87.80	181.00	10,789.77	-1,354.88	24.25	1,354.88	1.05	0.96	0.43
12,122.00	89.20	181.90	10,792.23	-1,448.81	21.87	1,448.81	1.77	1.49	0.96
12,216.00	89.30	181.80	10,793.46	-1,542.76	18.83	1,542.76	0.15	0.11	-0.11
12,310.00	89.90	182.10	10,794.11	-1,636.70	15.64	1,636.70	0.71	0.64	0.32

Company:	Devon Energy	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3583.50usft (Cactus 126)
Site:	Rebel 20 Fed	MD Reference:	WELL @ 3583.50usft (Cactus 126)
Well:	7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,404.00	91.00	180.80	10,793.38	-1,730.66	13.26	1,730.66	1.81	1.17	-1.38
12,498.00	91.80	179.80	10,791.08	-1,824.63	12.76	1,824.63	1.36	0.85	-1.06
12,592.00	93.30	179.00	10,786.90	-1,918.53	13.75	1,918.53	1.81	1.60	-0.85
12,686.00	94.50	179.00	10,780.50	-2,012.30	15.38	2,012.30	1.28	1.28	0.00
12,780.00	93.50	178.30	10,773.95	-2,106.04	17.59	2,106.04	1.30	-1.06	-0.74
12,874.00	91.60	178.20	10,769.76	-2,199.90	20.46	2,199.90	2.02	-2.02	-0.11
12,968.00	89.40	178.20	10,768.94	-2,293.84	23.41	2,293.84	2.34	-2.34	0.00
13,062.00	88.80	178.30	10,770.42	-2,387.79	26.28	2,387.79	0.65	-0.64	0.11
13,156.00	89.10	178.40	10,772.14	-2,481.73	28.99	2,481.73	0.34	0.32	0.11
13,250.00	89.60	178.80	10,773.21	-2,575.70	31.29	2,575.70	0.68	0.53	0.43
13,344.00	90.20	179.00	10,773.37	-2,669.68	33.09	2,669.68	0.67	0.64	0.21
13,438.00	91.40	180.10	10,772.06	-2,763.66	33.83	2,763.66	1.73	1.28	1.17
13,532.00	90.70	179.10	10,770.34	-2,857.64	34.49	2,857.64	1.30	-0.74	-1.06
13,626.00	91.00	179.20	10,768.94	-2,951.62	35.88	2,951.62	0.34	0.32	0.11
13,720.00	90.60	179.10	10,767.63	-3,045.60	37.27	3,045.60	0.44	-0.43	-0.11
13,814.00	90.40	178.80	10,766.81	-3,139.58	39.00	3,139.58	0.38	-0.21	-0.32
13,908.00	89.00	177.80	10,767.30	-3,233.54	41.79	3,233.54	1.83	-1.49	-1.06
14,002.00	89.80	177.90	10,768.29	-3,327.47	45.31	3,327.47	0.86	0.85	0.11
14,096.00	87.50	178.20	10,770.50	-3,421.38	48.51	3,421.38	2.47	-2.45	0.32
14,190.00	87.40	178.70	10,774.68	-3,515.25	51.05	3,515.25	0.54	-0.11	0.53
14,284.00	87.70	179.60	10,778.70	-3,609.15	52.44	3,609.15	1.01	0.32	0.96
14,378.00	88.10	180.10	10,782.15	-3,703.09	52.69	3,703.09	0.68	0.43	0.53
14,472.00	88.20	180.30	10,785.18	-3,797.04	52.36	3,797.04	0.24	0.11	0.21
14,566.00	89.20	180.70	10,787.31	-3,891.01	51.54	3,891.01	1.15	1.06	0.43
14,660.00	89.80	180.80	10,788.14	-3,985.00	50.31	3,985.00	0.65	0.64	0.11
14,754.00	87.80	180.80	10,790.10	-4,078.97	49.00	4,078.97	2.13	-2.13	0.00
14,848.00	87.70	181.50	10,793.79	-4,172.87	47.11	4,172.87	0.75	-0.11	0.74
14,942.00	88.20	181.90	10,797.16	-4,266.77	44.33	4,266.77	0.68	0.53	0.43
15,036.00	88.40	182.00	10,799.95	-4,360.68	41.13	4,360.68	0.24	0.21	0.11
15,130.00	88.50	181.90	10,802.49	-4,454.59	37.93	4,454.59	0.15	0.11	-0.11
15,224.00	88.80	182.10	10,804.70	-4,548.50	34.65	4,548.50	0.38	0.32	0.21
15,318.00	90.90	182.60	10,804.95	-4,642.42	30.80	4,642.42	2.30	2.23	0.53
15,399.36	91.33	182.51	10,803.36	-4,723.68	27.17	4,723.68	0.54	0.53	-0.11
330' HL Crossing -15399.36' MD									
15,412.00	91.40	182.50	10,803.06	-4,736.31	26.62	4,736.31	0.54	0.53	-0.11
15,470.00	92.00	182.60	10,801.34	-4,794.22	24.04	4,794.22	1.05	1.03	0.17
15,529.00	92.00	182.60	10,799.28	-4,853.13	21.36	4,853.13	0.00	0.00	0.00
Projection to TD-15529.00' MD									



MS Energy Services
Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Well 7H
Project:	Lea County, New Mexico (NAD 83)	TVD Reference:	WELL @ 3583.50usft (Cactus 126)
Site:	Rebel 20 Fed	MD Reference:	WELL @ 3583.50usft (Cactus 126)
Well:	7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,747.02	10,642.19	-99.67	35.49	330' HL Crossing -10747.02' MD
15,399.36	10,803.36	-4,723.68	27.17	330' HL Crossing -15399.36' MD
15,529.00	10,799.28	-4,853.13	21.36	Projection to TD-15529.00' MD

Checked By: _____ Approved By: _____ Date: _____