

Devon

SURVEY REPORT

Snapping 12-1 Fed 532H

Cactus 167

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

Arturo Zavala

Notarized this data 6 of June

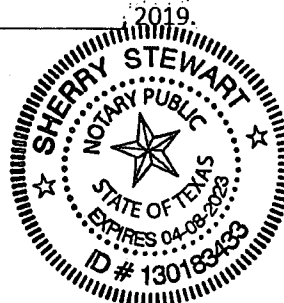
2019.

Sherry Stewart

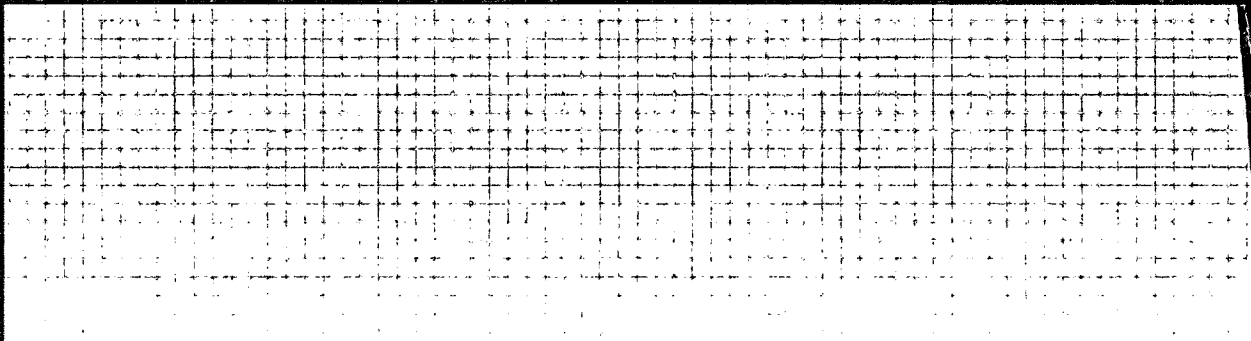
Notary Signature

County of Midland

State of Texas



The **Ultimate Partner** In Wellbore Placement.



Devon Energy

Eddy County, NM (NAD83 NME)

Snapping 12-1 Fed

532H

OH

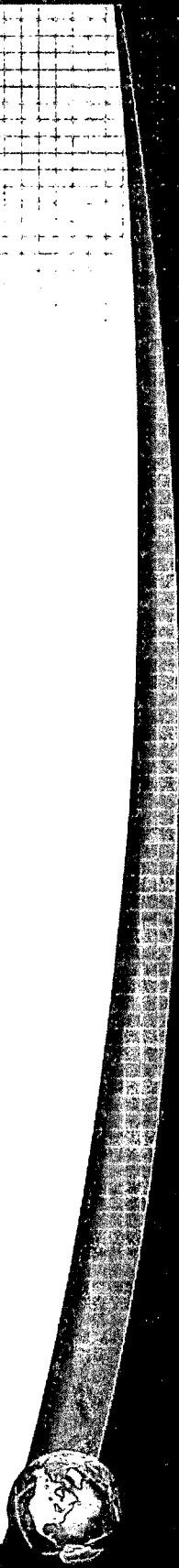
Survey: SDI Survey #1

Standard Survey Report

23 October, 2018



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Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 532H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Well:	532H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Eddy 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	Snapping 12-1 Fed		
Site Position:		Northing:	385,529.86 usft
From:	Map	Easting:	726,878.08 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 30.551 N
		Longitude:	103° 44' 3.900 W
		Grid Convergence:	0.32 °

Well	532H		
Well Position	+N/-S	0.00 usft	Northing: 385,524.82 usft
	+E/-W	0.00 usft	Easting: 725,898.32 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 3' 30.555 N
		Longitude:	103° 44' 15.285 W
		Ground Level:	3,237.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	7.81
			Dip Angle
			(°)
			60.06
			Field Strength
			(nT)
			48,676

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			359.74

Survey Program	Date 10/23/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
197.00	16,930.00	SDI Survey #1 (OH)	MWD+HDGM
			Description
			OWSG MWD + HDGM

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197.00	0.68	199.03	197.00	-1.11	-0.38	-1.10	0.35	0.35	0.00
268.00	0.77	201.31	267.99	-1.95	-0.69	-1.94	0.13	0.13	3.21
419.00	0.91	246.18	418.97	-3.38	-2.16	-3.37	0.43	0.09	29.72
510.00	1.33	250.84	509.96	-4.02	-3.82	-4.00	0.47	0.46	5.12
602.00	1.38	265.91	601.93	-4.45	-5.93	-4.42	0.39	0.05	16.38
693.00	1.49	284.17	692.90	-4.23	-8.17	-4.20	0.51	0.12	20.07
784.00	1.66	298.58	783.87	-3.31	-10.47	-3.27	0.47	0.19	15.84
876.00	1.29	305.46	875.84	-2.08	-12.49	-2.02	0.45	-0.40	7.48
968.00	1.16	323.27	967.82	-0.73	-13.89	-0.67	0.44	-0.14	19.36

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Well:	532H	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)
1,002.00	1.06	332.92	1,001.81	-0.17	-14.24	-0.11	0.62	-0.29	28.38
1,151.00	0.92	9.12	1,150.79	2.24	-14.68	2.30	0.42	-0.09	24.30
1,242.00	0.83	354.25	1,241.78	3.61	-14.63	3.68	0.27	-0.10	-16.34
1,335.00	1.44	71.86	1,334.77	4.65	-13.58	4.71	1.61	0.66	83.45
1,427.00	1.64	82.51	1,426.73	5.18	-11.18	5.23	0.38	0.22	11.58
1,518.00	1.51	93.28	1,517.70	5.28	-8.69	5.32	0.35	-0.14	11.84
1,609.00	1.22	88.20	1,608.67	5.24	-6.53	5.27	0.35	-0.32	-5.58
1,705.00	1.07	91.60	1,704.65	5.25	-4.61	5.27	0.17	-0.16	3.54
1,800.00	0.88	108.36	1,799.64	4.99	-3.03	5.01	0.36	-0.20	17.64
1,895.00	0.79	133.00	1,894.63	4.32	-1.86	4.33	0.39	-0.09	25.94
1,990.00	0.47	141.29	1,989.63	3.57	-1.13	3.57	0.35	-0.34	8.73
2,086.00	0.59	150.27	2,085.62	2.83	-0.64	2.83	0.15	0.13	9.35
2,181.00	0.48	147.47	2,180.62	2.07	-0.19	2.07	0.12	-0.12	-2.95
2,276.00	0.23	151.37	2,275.61	1.57	0.12	1.57	0.26	-0.26	4.11
2,372.00	0.54	245.84	2,371.61	1.21	-0.20	1.21	0.63	0.32	98.41
2,467.00	0.51	305.34	2,466.61	1.27	-0.96	1.28	0.55	-0.03	62.63
2,563.00	0.50	282.43	2,562.61	1.61	-1.71	1.62	0.21	-0.01	-23.86
2,656.00	0.64	342.89	2,655.60	2.20	-2.26	2.21	0.63	0.15	65.01
2,751.00	0.83	356.40	2,750.59	3.39	-2.46	3.40	0.27	0.20	14.22
2,847.00	0.32	175.94	2,846.59	3.82	-2.49	3.83	1.20	-0.53	187.02
2,942.00	0.71	147.78	2,941.59	3.05	-2.15	3.06	0.48	0.41	-29.64
3,038.00	1.02	181.62	3,037.58	1.70	-1.86	1.70	0.61	0.32	35.25
3,133.00	2.03	198.93	3,132.54	-0.74	-2.43	-0.73	1.16	1.06	18.22
3,229.00	3.08	186.33	3,228.45	-4.91	-3.27	-4.90	1.23	1.09	-13.13
3,324.00	3.73	182.39	3,323.28	-10.54	-3.68	-10.52	0.73	0.68	-4.15
3,420.00	4.30	175.97	3,419.04	-17.25	-3.55	-17.23	0.76	0.59	-6.69
3,516.00	3.93	171.80	3,514.80	-24.09	-2.83	-24.08	0.50	-0.39	-4.34
3,611.00	3.75	161.67	3,609.58	-30.26	-1.39	-30.26	0.74	-0.19	-10.66
3,707.00	4.18	168.79	3,705.35	-36.68	0.28	-36.68	0.68	0.45	7.42
3,802.00	4.33	182.04	3,800.10	-43.66	0.82	-43.66	1.04	0.16	13.95
3,897.00	4.53	185.28	3,894.81	-50.98	0.35	-50.98	0.34	0.21	3.41
3,992.00	4.61	179.84	3,989.51	-58.53	0.02	-58.53	0.46	0.08	-5.73
4,088.00	4.47	182.46	4,085.21	-66.13	-0.13	-66.12	0.26	-0.15	2.73
4,128.00	4.35	183.72	4,125.09	-69.20	-0.30	-69.19	0.39	-0.30	3.15
4,281.00	3.35	180.67	4,277.74	-79.46	-0.73	-79.45	0.67	-0.65	-1.99
4,376.00	3.15	183.53	4,372.59	-84.84	-0.92	-84.83	0.27	-0.21	3.01
4,471.00	3.36	184.14	4,467.44	-90.22	-1.28	-90.21	0.22	0.22	0.64
4,565.00	3.43	183.92	4,561.27	-95.77	-1.67	-95.76	0.08	0.07	-0.23
4,660.00	3.54	180.15	4,656.10	-101.54	-1.88	-101.53	0.27	0.12	-3.97
4,755.00	3.53	182.71	4,750.92	-107.40	-2.02	-107.38	0.17	-0.01	2.69
4,851.00	3.79	188.99	4,846.72	-113.48	-2.66	-113.47	0.50	0.27	6.54
4,946.00	4.12	188.75	4,941.49	-119.96	-3.67	-119.94	0.35	0.35	-0.25
5,041.00	4.04	187.04	5,036.25	-126.65	-4.60	-126.63	0.15	-0.08	-1.80
5,136.00	4.05	185.50	5,131.02	-133.31	-5.33	-133.28	0.11	0.01	-1.62

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Survey Report

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Well:	532H	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)	
5,232.00	3.91	188.93	5,226.79	-139.92	-6.16	-139.89	0.29	-0.15	3.57	
5,327.00	3.80	185.81	5,321.57	-146.25	-6.98	-146.22	0.25	-0.12	-3.28	
5,423.00	3.97	183.95	5,417.35	-152.73	-7.53	-152.69	0.22	0.18	-1.94	
5,518.00	3.90	183.48	5,512.13	-159.24	-7.96	-159.20	0.08	-0.07	-0.49	
5,614.00	3.88	180.19	5,607.90	-165.74	-8.17	-165.70	0.23	-0.02	-3.43	
5,709.00	4.00	186.90	5,702.68	-172.25	-8.57	-172.20	0.50	0.13	7.06	
5,805.00	4.66	196.18	5,798.41	-179.32	-10.06	-179.27	1.00	0.69	9.67	
5,900.00	4.71	194.77	5,893.09	-186.79	-12.13	-186.74	0.13	0.05	-1.48	
5,996.00	4.73	195.82	5,988.76	-194.41	-14.22	-194.35	0.09	0.02	1.09	
6,091.00	4.35	196.76	6,083.47	-201.63	-16.32	-201.55	0.41	-0.40	0.99	
6,187.00	4.38	197.85	6,179.19	-208.61	-18.50	-208.52	0.09	0.03	1.14	
6,282.00	4.62	199.38	6,273.89	-215.67	-20.88	-215.57	0.28	0.25	1.61	
6,377.00	5.05	197.18	6,368.56	-223.27	-23.38	-223.16	0.49	0.45	-2.32	
6,472.00	5.23	195.83	6,463.17	-231.43	-25.80	-231.31	0.23	0.19	-1.42	
6,567.00	4.76	186.40	6,557.82	-239.52	-27.42	-239.39	0.99	-0.49	-9.93	
6,662.00	4.62	179.72	6,652.50	-247.26	-27.84	-247.13	0.59	-0.15	-7.03	
6,757.00	4.82	178.04	6,747.18	-255.07	-27.69	-254.94	0.26	0.21	-1.77	
6,853.00	3.59	186.48	6,842.92	-262.09	-27.89	-261.96	1.43	-1.28	8.79	
6,948.00	3.76	190.06	6,937.72	-268.11	-28.77	-267.98	0.30	0.18	3.77	
7,043.00	3.52	189.89	7,032.53	-274.05	-29.81	-273.91	0.25	-0.25	-0.18	
7,139.00	3.35	182.90	7,128.36	-279.76	-30.46	-279.62	0.47	-0.18	-7.28	
7,233.00	3.21	186.00	7,222.20	-285.12	-30.87	-284.97	0.24	-0.15	3.30	
7,327.00	3.25	187.24	7,316.05	-290.38	-31.48	-290.23	0.09	0.04	1.32	
7,422.00	3.10	184.71	7,410.91	-295.61	-32.04	-295.46	0.22	-0.16	-2.66	
7,517.00	3.49	180.33	7,505.75	-301.06	-32.26	-300.91	0.49	0.41	-4.61	
7,613.00	3.58	179.68	7,601.57	-306.98	-32.26	-306.83	0.10	0.09	-0.68	
7,708.00	3.40	185.73	7,696.39	-312.75	-32.53	-312.60	0.43	-0.19	6.37	
7,803.00	2.57	177.54	7,791.26	-317.68	-32.72	-317.53	0.98	-0.87	-8.62	
7,899.00	1.98	183.04	7,887.19	-321.49	-32.71	-321.34	0.65	-0.61	5.73	
7,994.00	1.66	184.32	7,982.14	-324.50	-32.90	-324.35	0.34	-0.34	1.35	
8,090.00	1.54	194.96	8,078.10	-327.13	-33.34	-326.98	0.33	-0.13	11.08	
8,185.00	1.39	296.10	8,173.08	-327.86	-34.71	-327.70	2.38	-0.16	106.46	
8,280.00	1.76	310.21	8,268.05	-326.41	-36.85	-326.24	0.56	0.39	14.85	
8,376.00	1.10	293.70	8,364.02	-325.09	-38.82	-324.91	0.80	-0.69	-17.20	
8,471.00	1.51	310.17	8,458.99	-323.91	-40.62	-323.72	0.58	0.43	17.34	
8,567.00	2.02	330.40	8,554.95	-321.63	-42.42	-321.43	0.83	0.53	21.07	
8,662.00	7.90	2.13	8,649.56	-313.64	-43.00	-313.44	6.60	6.19	33.40	
8,709.00	11.03	358.52	8,695.92	-305.91	-43.00	-305.71	6.78	6.66	-7.68	
8,757.00	13.47	355.92	8,742.82	-295.75	-43.52	-295.54	5.21	5.08	-5.42	
8,804.00	14.91	354.87	8,788.39	-284.26	-44.45	-284.06	3.11	3.06	-2.23	
8,852.00	17.33	353.67	8,834.50	-271.00	-45.79	-270.79	5.09	5.04	-2.50	
8,884.00	19.28	354.85	8,864.87	-261.00	-46.79	-260.79	6.20	6.09	3.69	
8,916.00	20.81	354.77	8,894.94	-250.08	-47.78	-249.86	4.78	4.78	-0.25	

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8,947.00	22.43	354.04	8,923.75	-238.71	-48.89	-238.49	5.30	5.23	-2.35
8,979.00	25.17	354.68	8,953.03	-225.86	-50.16	-225.64	8.60	8.56	2.00
9,011.00	29.36	356.38	8,981.47	-211.25	-51.29	-211.02	13.32	13.09	5.31
9,043.00	34.07	358.76	9,008.68	-194.45	-51.98	-194.22	15.23	14.72	7.44
9,075.00	39.53	0.94	9,034.30	-175.29	-52.00	-175.06	17.54	17.06	6.81
9,106.00	44.34	2.02	9,057.35	-154.59	-51.46	-154.36	15.69	15.52	3.48
9,138.00	48.84	2.01	9,079.34	-131.37	-50.64	-131.13	14.06	14.06	-0.03
9,165.55	53.82	2.22	9,096.55	-109.88	-49.85	-109.65	18.07	18.06	0.76
Pen.TgtZone									
9,170.00	54.62	2.25	9,099.15	-106.27	-49.71	-106.04	18.07	18.06	0.70
9,202.00	60.53	0.79	9,116.30	-79.28	-49.00	-79.06	18.87	18.47	-4.56
9,233.00	65.50	359.49	9,130.36	-51.67	-48.94	-51.44	16.46	16.03	-4.19
9,265.00	71.61	357.88	9,142.06	-21.90	-49.63	-21.68	19.66	19.09	-5.03
9,292.00	77.56	357.42	9,149.23	4.09	-50.70	4.32	22.10	22.04	-1.70
9,331.00	86.74	358.70	9,154.55	42.66	-52.00	42.90	23.76	23.54	3.28
9,377.00	89.36	2.11	9,156.12	88.62	-51.68	88.86	9.34	5.70	7.41
9,467.00	89.43	4.10	9,157.07	178.48	-46.80	178.69	2.21	0.08	2.21
9,559.00	89.23	2.67	9,158.14	270.31	-41.37	270.50	1.57	-0.22	-1.55
9,650.00	88.79	0.79	9,159.72	361.25	-38.62	361.42	2.12	-0.48	-2.07
9,742.00	88.89	0.11	9,161.58	453.23	-37.90	453.40	0.75	0.11	-0.74
9,833.00	88.56	0.92	9,163.60	544.20	-37.08	544.37	0.96	-0.36	0.89
9,925.00	89.43	0.64	9,165.22	636.18	-35.83	636.33	0.99	0.95	-0.30
10,020.00	91.38	0.77	9,164.55	731.16	-34.66	731.31	2.06	2.05	0.14
10,115.00	92.05	1.23	9,161.70	826.11	-33.01	826.25	0.86	0.71	0.48
10,210.00	91.74	1.12	9,158.56	921.03	-31.06	921.17	0.35	-0.33	-0.12
10,306.00	91.54	1.63	9,155.81	1,016.97	-28.76	1,017.09	0.57	-0.21	0.53
10,401.00	90.00	1.56	9,154.54	1,111.92	-26.11	1,112.03	1.62	-1.62	-0.07
10,497.00	89.36	0.47	9,155.07	1,207.90	-24.41	1,208.00	1.32	-0.67	-1.14
10,592.00	89.33	0.41	9,156.16	1,302.89	-23.68	1,302.99	0.07	-0.03	-0.06
10,687.00	90.54	1.31	9,156.27	1,397.88	-22.26	1,397.96	1.59	1.27	0.95
10,782.00	89.83	0.52	9,155.96	1,492.86	-20.74	1,492.94	1.12	-0.75	-0.83
10,877.00	89.50	359.15	9,156.52	1,587.86	-21.01	1,587.94	1.48	-0.35	-1.44
10,972.00	90.03	359.22	9,156.91	1,682.85	-22.36	1,682.93	0.56	0.56	0.07
11,067.00	90.81	359.10	9,156.21	1,777.84	-23.76	1,777.93	0.83	0.82	-0.13
11,163.00	89.93	359.34	9,155.59	1,873.82	-25.06	1,873.92	0.95	-0.92	0.25
11,259.00	89.97	359.56	9,155.67	1,969.82	-25.99	1,969.92	0.23	0.04	0.23
11,353.00	91.68	0.74	9,154.32	2,063.80	-25.74	2,063.90	2.21	1.82	1.26
11,448.00	89.80	0.26	9,153.09	2,158.79	-24.91	2,158.88	2.04	-1.98	-0.51
11,544.00	89.50	359.92	9,153.68	2,254.79	-24.76	2,254.87	0.47	-0.31	-0.35
11,639.00	89.97	0.01	9,154.12	2,349.78	-24.82	2,349.87	0.50	0.49	0.09
11,735.00	89.83	0.29	9,154.29	2,445.78	-24.57	2,445.87	0.33	-0.15	0.29
11,831.00	89.80	359.80	9,154.60	2,541.78	-24.49	2,541.87	0.51	-0.03	-0.51
11,926.00	90.94	359.95	9,153.98	2,636.78	-24.70	2,636.86	1.21	1.20	0.16
12,021.00	90.54	0.75	9,152.76	2,731.77	-24.12	2,731.85	0.94	-0.42	0.84

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 532H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Well:	532H	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)
12,117.00	91.21	1.34	9,151.29	2,827.74	-22.37	2,827.81	0.93	0.70	0.61
12,212.00	90.37	0.52	9,149.98	2,922.72	-20.83	2,922.78	1.24	-0.88	-0.86
12,307.00	88.76	359.38	9,150.70	3,017.71	-20.91	3,017.77	2.08	-1.69	-1.20
12,403.00	89.50	359.85	9,152.16	3,113.70	-21.55	3,113.76	0.91	0.77	0.49
12,498.00	88.46	358.57	9,153.85	3,208.67	-22.86	3,208.74	1.74	-1.09	-1.35
12,593.00	88.09	358.70	9,156.71	3,303.60	-25.12	3,303.68	0.41	-0.39	0.14
12,689.00	88.72	358.79	9,159.38	3,399.54	-27.23	3,399.63	0.66	0.66	0.09
12,784.00	87.89	357.68	9,162.19	3,494.45	-30.15	3,494.55	1.46	-0.87	-1.17
12,880.00	91.00	358.90	9,163.12	3,590.39	-33.01	3,590.50	3.48	3.24	1.27
12,975.00	92.52	359.42	9,160.20	3,685.33	-34.41	3,685.45	1.69	1.60	0.55
13,070.00	91.98	359.60	9,156.47	3,780.25	-35.22	3,780.37	0.60	-0.57	0.19
13,165.00	92.76	0.92	9,152.55	3,875.17	-34.79	3,875.29	1.61	0.82	1.39
13,261.00	92.02	1.03	9,148.54	3,971.07	-33.16	3,971.18	0.78	-0.77	0.11
13,356.00	91.61	1.38	9,145.53	4,066.00	-31.16	4,066.10	0.57	-0.43	0.37
13,451.00	90.40	1.97	9,143.87	4,160.94	-28.38	4,161.03	1.42	-1.27	0.62
13,547.00	90.90	2.10	9,142.78	4,256.88	-24.97	4,256.95	0.54	0.52	0.14
13,642.00	89.93	1.94	9,142.09	4,351.81	-21.63	4,351.87	1.03	-1.02	-0.17
13,702.00	89.40	1.82	9,142.44	4,411.78	-19.66	4,411.82	0.91	-0.88	-0.20
13,737.00	89.26	1.28	9,142.85	4,446.76	-18.71	4,446.80	1.59	-0.40	-1.54
13,833.00	87.48	359.77	9,145.58	4,542.71	-17.83	4,542.75	2.43	-1.85	-1.57
13,928.00	87.21	359.10	9,149.98	4,637.61	-18.77	4,637.64	0.76	-0.28	-0.71
14,024.00	88.86	358.38	9,153.27	4,733.52	-20.88	4,733.57	1.88	1.72	-0.75
14,118.00	90.40	357.96	9,153.88	4,827.47	-23.88	4,827.53	1.70	1.64	-0.45
14,213.00	89.13	358.06	9,154.27	4,922.41	-27.18	4,922.48	1.34	-1.34	0.11
14,309.00	88.75	357.92	9,156.05	5,018.34	-30.54	5,018.42	0.42	-0.40	-0.15
14,405.00	86.97	357.68	9,159.63	5,114.19	-34.23	5,114.30	1.87	-1.85	-0.25
14,500.00	87.55	357.51	9,164.17	5,209.00	-38.21	5,209.12	0.64	0.61	-0.18
14,595.00	90.37	358.51	9,165.90	5,303.92	-41.51	5,304.05	3.15	2.97	1.05
14,691.00	88.86	357.71	9,166.54	5,399.86	-44.67	5,400.01	1.78	-1.57	-0.83
14,786.00	91.85	358.31	9,165.95	5,494.79	-47.97	5,494.95	3.21	3.15	0.63
14,881.00	92.39	357.93	9,162.44	5,589.67	-51.08	5,589.85	0.69	0.57	-0.40
14,977.00	92.48	359.30	9,158.36	5,685.56	-53.40	5,685.74	1.43	0.09	1.43
15,073.00	92.99	359.82	9,153.78	5,781.44	-54.14	5,781.63	0.76	0.53	0.54
15,168.00	91.48	0.91	9,150.07	5,876.36	-53.53	5,876.55	1.96	-1.59	1.15
15,264.00	89.83	1.27	9,148.98	5,972.34	-51.71	5,972.51	1.76	-1.72	0.38
15,359.00	90.34	1.15	9,148.84	6,067.32	-49.70	6,067.48	0.55	0.54	-0.13
15,455.00	90.34	0.76	9,148.27	6,163.30	-48.10	6,163.45	0.41	0.00	-0.41
15,550.00	89.19	0.72	9,148.66	6,258.29	-46.87	6,258.44	1.21	-1.21	-0.04
15,645.00	89.16	0.68	9,150.02	6,353.27	-45.71	6,353.41	0.05	-0.03	-0.04
15,741.00	91.08	1.58	9,149.82	6,449.25	-43.82	6,449.38	2.21	2.00	0.94
15,836.00	86.23	1.56	9,152.05	6,544.16	-41.22	6,544.28	5.11	-5.11	-0.02
15,931.00	86.13	1.66	9,158.38	6,638.91	-38.56	6,639.02	0.15	-0.11	0.11
16,027.00	88.25	0.68	9,163.09	6,734.77	-36.60	6,734.86	2.43	2.21	-1.02

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 532H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB = 24' @ 3261.00usft (Cactus 167)
Well:	532H	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)	
16,123.00	89.93	0.41	9,164.61	6,830.75	-35.69	6,830.84	1.77	1.75	-0.28	
16,218.00	89.56	359.42	9,165.03	6,925.75	-35.83	6,925.84	1.11	-0.39	-1.04	
16,314.00	90.40	358.75	9,165.07	7,021.73	-37.36	7,021.83	1.12	0.88	-0.70	
16,409.00	91.85	359.21	9,163.20	7,116.70	-39.05	7,116.80	1.60	1.53	0.48	
16,505.00	93.13	0.11	9,159.03	7,212.60	-39.62	7,212.71	1.63	1.33	0.94	
16,600.00	90.27	359.90	9,156.21	7,307.55	-39.61	7,307.65	3.02	-3.01	-0.22	
16,695.00	90.00	0.15	9,155.99	7,402.55	-39.57	7,402.65	0.39	-0.28	0.26	
16,791.00	88.46	359.65	9,157.28	7,498.54	-39.74	7,498.64	1.69	-1.60	-0.52	
16,840.19	87.97	359.17	9,158.81	7,547.70	-40.24	7,547.81	1.39	-1.00	-0.97	
BHL[S1532H]										
16,863.00	87.74	358.95	9,159.67	7,570.49	-40.62	7,570.60	1.39	-1.00	-0.97	
FINAL MWD Survey (16863.00' MD)										
16,916.86	87.74	358.95	9,161.79	7,624.30	-41.60	7,624.41	0.00	0.00	0.00	
TD 20' FLL										
16,930.00	87.74	358.95	9,162.31	7,637.43	-41.84	7,637.54	0.00	0.00	0.00	
FINAL Proj. to Bit (16930.00' MD)										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
16,863.00	9,159.67	7,570.49	-40.62	FINAL MWD Survey (16863.00' MD)	
16,916.86	9,161.79	7,624.30	-41.60	TD 20' FLL	
16,930.00	9,162.31	7,637.43	-41.84	FINAL Proj. to Bit (16930.00' MD)	

Checked By: _____	Approved By: _____	Date: _____
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