

Devon

SURVEY REPORT

Snapping 12-1 Fed 522H

Cactus 167

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

Alfredo Zavala

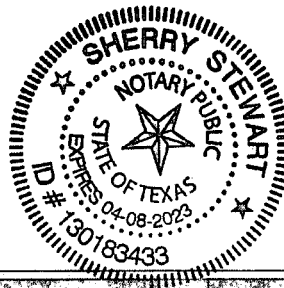
Notarized this data 6 of June, 2019.

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

522H

OH

Survey: SDI Survey #1

Standard Survey Report

03 January, 2019

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 522H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	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	522H		
Well Position	+N/-S	0.00 usft	Northing: 385,529.86 usft
	+E/-W	0.00 usft	Easting: 726,878.08 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 3' 30.551 N
		Longitude:	103° 44' 3.900 W
		Ground Level:	3,238.00 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)
			356.02

Survey Program	Date 1/3/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
322.00	16,254.00	SDI Survey #1 (OH)	MWD+HDGM
			Description
			OWSG MWD + HDGM

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(bearing)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(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	
322.00	1.08	291.64	321.98	1.12	-2.82	1.31	0.34	0.34	0.00	
413.00	0.80	272.78	412.97	1.47	-4.25	1.76	0.45	-0.31	-20.73	
505.00	0.17	21.94	504.97	1.62	-4.84	1.96	0.95	-0.68	118.65	
596.00	0.70	18.56	595.96	2.28	-4.62	2.59	0.58	0.58	-3.71	
689.00	0.51	64.81	688.96	2.99	-4.06	3.27	0.54	-0.20	49.73	
780.00	1.27	75.40	779.95	3.42	-2.72	3.60	0.85	0.84	11.64	
872.00	1.43	88.06	871.92	3.71	-0.58	3.74	0.37	0.17	13.76	
962.00	1.19	100.15	961.90	3.59	1.46	3.48	0.41	-0.27	13.43	
1,000.00	1.40	99.91	999.89	3.44	2.30	3.27	0.55	0.55	-0.63	

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Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	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)
1,153.00	2.28	118.35	1,152.81	1.67	6.82	1.19	0.69	0.58	12.05
1,244.00	1.77	148.51	1,243.75	-0.39	9.15	-1.02	1.28	-0.56	33.14
1,336.00	2.22	174.69	1,335.70	-3.37	10.06	-4.06	1.09	0.49	28.46
1,428.00	2.12	178.18	1,427.63	-6.85	10.28	-7.55	0.18	-0.11	3.79
1,519.00	1.82	192.56	1,518.58	-9.94	10.02	-10.61	0.63	-0.33	15.80
1,610.00	1.22	209.63	1,609.55	-12.19	9.22	-12.80	0.82	-0.66	18.76
1,701.00	0.49	304.78	1,700.54	-12.81	8.42	-13.37	1.49	-0.80	104.56
1,797.00	0.67	284.28	1,796.54	-12.44	7.54	-12.94	0.28	0.19	-21.35
1,892.00	2.43	278.39	1,891.50	-12.01	5.01	-12.33	1.86	1.85	-6.20
1,987.00	3.49	276.15	1,986.37	-11.41	0.14	-11.39	1.12	1.12	-2.36
2,082.00	3.22	266.73	2,081.21	-11.25	-5.39	-10.85	0.65	-0.28	-9.92
2,177.00	2.86	267.74	2,176.07	-11.50	-10.43	-10.74	0.38	-0.38	1.06
2,272.00	2.97	263.08	2,270.95	-11.89	-15.24	-10.80	0.27	0.12	-4.91
2,367.00	2.13	257.92	2,365.86	-12.55	-19.41	-11.17	0.92	-0.88	-5.43
2,462.00	3.06	263.95	2,460.76	-13.19	-23.65	-11.51	1.02	0.98	6.35
2,558.00	4.22	260.55	2,556.56	-14.04	-29.69	-11.94	1.23	1.21	-3.54
2,653.00	5.44	267.44	2,651.22	-14.81	-37.63	-12.17	1.42	1.28	7.25
2,748.00	5.33	266.56	2,745.81	-15.28	-46.54	-12.01	0.14	-0.12	-0.93
2,844.00	6.22	267.42	2,841.32	-15.78	-56.18	-11.84	0.93	0.93	0.90
2,939.00	6.57	266.53	2,935.73	-16.34	-66.75	-11.67	0.38	0.37	-0.94
3,034.00	5.78	264.09	3,030.17	-17.16	-76.93	-11.78	0.88	-0.83	-2.57
3,130.00	5.49	262.38	3,125.71	-18.27	-86.29	-12.24	0.35	-0.30	-1.78
3,225.00	5.80	260.39	3,220.25	-19.67	-95.53	-13.00	0.39	0.33	-2.09
3,321.00	6.56	256.22	3,315.69	-21.79	-105.64	-14.41	0.92	0.79	-4.34
3,416.00	6.57	254.33	3,410.07	-24.55	-116.14	-16.43	0.23	0.01	-1.99
3,511.00	6.06	254.54	3,504.49	-27.35	-126.21	-18.53	0.54	-0.54	0.22
3,607.00	5.01	249.87	3,600.04	-30.15	-135.03	-20.71	1.19	-1.09	-4.86
3,702.00	5.62	246.30	3,694.63	-33.45	-143.18	-23.43	0.73	0.64	-3.76
3,798.00	6.07	243.53	3,790.14	-37.60	-152.03	-26.96	0.55	0.47	-2.89
3,892.00	6.94	244.57	3,883.53	-42.25	-161.61	-30.94	0.93	0.93	1.11
3,988.00	6.20	239.52	3,978.90	-47.37	-171.31	-35.37	0.98	-0.77	-5.26
4,084.00	5.57	234.48	4,074.39	-52.71	-179.57	-40.12	0.85	-0.66	-5.25
4,111.00	5.56	234.88	4,101.27	-54.22	-181.71	-41.48	0.15	-0.04	1.48
4,182.00	5.15	234.24	4,171.96	-58.06	-187.11	-44.94	0.58	-0.58	-0.90
4,277.00	4.96	237.38	4,266.59	-62.77	-194.03	-49.15	0.35	-0.20	3.31
4,372.00	5.53	257.35	4,361.20	-65.98	-201.95	-51.81	2.00	0.60	21.02
4,468.00	5.50	258.29	4,456.75	-67.93	-210.97	-53.13	0.10	-0.03	0.98
4,563.00	5.55	258.48	4,551.31	-69.77	-219.93	-54.34	0.06	0.05	0.20
4,658.00	6.71	257.11	4,645.77	-71.93	-229.84	-55.81	1.23	1.22	-1.44
4,753.00	7.22	256.68	4,740.06	-74.54	-241.06	-57.63	0.54	0.54	-0.45
4,849.00	6.99	254.82	4,835.33	-77.46	-252.57	-59.75	0.34	-0.24	-1.94
4,944.00	7.20	255.72	4,929.60	-80.44	-263.92	-61.94	0.25	0.22	0.95
5,039.00	7.41	255.35	5,023.83	-83.46	-275.62	-64.13	0.23	0.22	-0.39
5,135.00	6.97	260.14	5,119.07	-86.02	-287.34	-65.88	0.77	-0.46	4.99

Scientific Drilling, Intl

Survey Report

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Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	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)
5,230.00	6.79	256.25	5,213.39	-88.35	-298.48	-67.42	0.53	-0.19	-4.09
5,325.00	6.63	254.10	5,307.74	-91.18	-309.21	-69.51	0.31	-0.17	-2.26
5,420.00	6.87	253.97	5,402.08	-94.25	-319.94	-71.83	0.25	0.25	-0.14
5,515.00	7.01	255.24	5,496.39	-97.30	-331.01	-74.10	0.22	0.15	1.34
5,611.00	6.65	258.94	5,591.70	-99.86	-342.13	-75.88	0.59	-0.38	3.85
5,706.00	6.62	258.90	5,686.07	-101.97	-352.90	-77.24	0.03	-0.03	-0.04
5,802.00	6.37	260.35	5,781.45	-103.93	-363.58	-78.45	0.31	-0.26	1.51
5,897.00	5.66	257.64	5,875.93	-105.81	-373.35	-79.65	0.80	-0.75	-2.85
5,992.00	5.05	256.87	5,970.51	-107.77	-382.00	-81.00	0.65	-0.64	-0.81
6,088.00	5.17	254.58	6,066.13	-109.88	-390.29	-82.53	0.25	0.13	-2.39
6,183.00	4.62	255.11	6,160.79	-112.00	-398.11	-84.10	0.58	-0.58	0.56
6,277.00	4.66	254.32	6,254.48	-114.00	-405.44	-85.59	0.08	0.04	-0.84
6,372.00	4.74	253.07	6,349.16	-116.19	-412.91	-87.26	0.14	0.08	-1.32
6,467.00	4.22	247.18	6,443.87	-118.69	-419.89	-89.26	0.73	-0.55	-6.20
6,563.00	3.70	244.12	6,539.64	-121.41	-425.93	-91.56	0.58	-0.54	-3.19
6,658.00	3.97	246.90	6,634.43	-124.04	-431.72	-93.78	0.35	0.28	2.93
6,753.00	3.39	256.87	6,729.23	-125.97	-437.48	-95.30	0.91	-0.61	10.49
6,849.00	3.15	264.19	6,825.07	-126.88	-442.87	-95.84	0.50	-0.25	7.63
6,944.00	2.11	259.94	6,919.97	-127.45	-447.18	-96.11	1.11	-1.09	-4.47
7,040.00	1.41	278.74	7,015.93	-127.58	-450.09	-96.04	0.94	-0.73	19.58
7,135.00	1.26	281.93	7,110.90	-127.18	-452.27	-95.49	0.18	-0.16	3.36
7,230.00	1.11	278.75	7,205.88	-126.83	-454.20	-95.00	0.17	-0.16	-3.35
7,325.00	1.00	280.21	7,300.87	-126.54	-455.93	-94.60	0.12	-0.12	1.54
7,421.00	0.67	331.06	7,396.86	-125.90	-457.02	-93.88	0.81	-0.34	52.97
7,516.00	0.88	357.28	7,491.85	-124.68	-457.33	-92.65	0.43	0.22	27.60
7,612.00	0.69	3.03	7,587.84	-123.37	-457.33	-91.34	0.21	-0.20	5.99
7,708.00	0.55	353.95	7,683.83	-122.34	-457.35	-90.31	0.18	-0.15	-9.46
7,803.00	0.44	27.23	7,778.83	-121.56	-457.23	-89.54	0.32	-0.12	35.03
7,898.00	0.27	141.46	7,873.83	-121.41	-456.92	-89.41	0.64	-0.18	120.24
7,994.00	0.71	175.83	7,969.83	-122.18	-456.74	-90.19	0.53	0.46	35.80
8,089.00	1.11	174.98	8,064.81	-123.68	-456.62	-91.70	0.42	0.42	-0.89
8,184.00	0.29	64.15	8,159.81	-124.49	-456.32	-92.53	1.31	-0.86	-116.66
8,278.00	13.30	354.75	8,252.96	-113.58	-457.10	-81.58	14.04	13.84	-73.83
8,327.00	19.30	356.46	8,299.97	-99.87	-458.11	-67.84	12.28	12.24	3.49
8,373.00	24.60	359.82	8,342.62	-82.69	-458.61	-50.67	11.84	11.52	7.30
8,421.00	29.27	358.19	8,385.40	-60.96	-459.02	-28.96	9.85	9.73	-3.40
8,469.00	33.32	358.89	8,426.41	-36.04	-459.64	-4.06	8.47	8.44	1.46
8,516.00	38.05	0.98	8,464.58	-8.64	-459.64	23.28	10.39	10.06	4.45
8,565.00	41.73	2.82	8,502.17	22.76	-458.58	54.53	7.89	7.51	3.76
8,612.00	45.33	2.27	8,536.24	55.09	-457.15	86.68	7.70	7.66	-1.17
8,660.00	47.12	1.25	8,569.44	89.73	-456.09	121.17	4.03	3.73	-2.13
8,667.29	47.52	0.87	8,574.39	95.10	-455.99	126.51	6.64	5.45	-5.17
FTP[S12-1/522H]									

Scientific Drilling, Intl

Survey Report

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Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

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)
8,707.00	49.70	358.90	8,600.64	124.88	-456.06	156.22	6.64	5.50	-4.97
8,756.00	53.01	359.36	8,631.24	163.14	-456.64	194.43	6.79	6.76	0.94
8,803.00	57.39	0.18	8,658.06	201.72	-456.79	232.93	9.43	9.32	1.74
8,851.00	61.93	358.79	8,682.30	243.14	-457.17	274.27	9.78	9.46	-2.90
8,898.00	68.63	358.08	8,701.94	285.79	-458.34	316.90	14.32	14.26	-1.51
8,946.00	74.32	1.11	8,717.19	331.27	-458.64	362.30	13.28	11.85	6.31
8,993.00	76.46	2.00	8,729.04	376.73	-457.41	407.57	4.91	4.55	1.89
9,042.00	79.59	1.80	8,739.21	424.64	-455.82	455.24	6.40	6.39	-0.41
9,089.00	82.54	0.52	8,746.51	471.05	-454.88	501.48	6.83	6.28	-2.72
9,136.00	87.55	358.94	8,750.57	517.86	-455.10	548.19	11.17	10.66	-3.36
9,231.00	91.07	359.36	8,751.71	612.83	-456.51	643.03	3.73	3.71	0.44
9,275.00	91.21	359.37	8,750.83	656.81	-457.00	686.94	0.32	0.32	0.02
9,366.00	91.44	0.09	8,748.73	747.79	-457.43	777.73	0.83	0.25	0.79
9,458.00	91.64	0.06	8,746.26	839.75	-457.31	869.46	0.22	0.22	-0.03
9,550.00	90.03	358.82	8,744.92	931.74	-458.21	961.28	2.21	-1.75	-1.35
9,641.00	89.87	359.16	8,745.00	1,022.72	-459.81	1,052.16	0.41	-0.18	0.37
9,732.00	87.88	359.39	8,746.78	1,113.69	-460.96	1,142.99	2.20	-2.19	0.25
9,827.00	87.88	358.57	8,750.30	1,208.61	-462.65	1,237.80	0.86	0.00	-0.86
9,922.00	87.28	358.66	8,754.31	1,303.50	-464.95	1,332.62	0.64	-0.63	0.09
10,017.00	87.85	358.18	8,758.34	1,398.38	-467.56	1,427.45	0.78	0.60	-0.51
10,112.00	89.36	358.26	8,760.66	1,493.30	-470.51	1,522.35	1.59	1.59	0.08
10,208.00	89.80	357.05	8,761.36	1,589.21	-474.44	1,618.30	1.34	0.46	-1.26
10,303.00	90.30	357.72	8,761.28	1,684.11	-478.78	1,713.28	0.88	0.53	0.71
10,399.00	90.40	357.65	8,760.69	1,780.03	-482.65	1,809.23	0.13	0.10	-0.07
10,494.00	90.17	358.20	8,760.22	1,874.97	-486.09	1,904.18	0.63	-0.24	0.58
10,589.00	91.68	0.68	8,758.69	1,969.94	-487.02	1,998.99	3.06	1.59	2.61
10,684.00	92.04	0.79	8,755.60	2,064.88	-485.80	2,093.62	0.40	0.38	0.12
10,780.00	90.37	0.81	8,753.58	2,160.85	-484.46	2,189.26	1.74	-1.74	0.02
10,874.00	90.54	0.88	8,752.84	2,254.84	-483.08	2,282.92	0.20	0.18	0.07
10,969.00	90.33	359.93	8,752.12	2,349.83	-482.41	2,377.64	1.02	-0.22	-1.00
11,064.00	91.24	1.30	8,750.81	2,444.81	-481.39	2,472.32	1.73	0.96	1.44
11,159.00	91.38	1.43	8,748.64	2,539.76	-479.12	2,566.89	0.20	0.15	0.14
11,255.00	91.27	0.37	8,746.42	2,635.72	-477.62	2,662.51	1.11	-0.11	-1.10
11,350.00	90.23	359.12	8,745.18	2,730.71	-478.04	2,757.30	1.71	-1.09	-1.32
11,446.00	88.72	359.43	8,746.06	2,826.70	-479.25	2,853.14	1.61	-1.57	0.32
11,541.00	88.46	359.66	8,748.40	2,921.66	-480.01	2,947.93	0.37	-0.27	0.24
11,636.00	88.01	358.92	8,751.32	3,016.61	-481.19	3,042.73	0.91	-0.47	-0.78
11,732.00	89.50	0.11	8,753.41	3,112.58	-482.00	3,138.52	1.99	1.55	1.24
11,827.00	90.37	359.67	8,753.52	3,207.58	-482.18	3,233.31	1.03	0.92	-0.46
11,922.00	91.14	0.23	8,752.26	3,302.57	-482.26	3,328.07	1.00	0.81	0.59
12,017.00	91.54	359.60	8,750.04	3,397.54	-482.40	3,422.83	0.79	0.42	-0.66
12,112.00	91.18	359.71	8,747.79	3,492.51	-482.98	3,517.61	0.40	-0.38	0.12
12,208.00	89.43	358.26	8,747.28	3,588.49	-484.68	3,613.47	2.37	-1.82	-1.51
12,304.00	89.13	357.97	8,748.48	3,684.43	-487.83	3,709.40	0.43	-0.31	-0.30

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 522H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	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)
12,399.00	89.70	357.31	8,749.45	3,779.35	-491.75	3,804.36	0.92	0.60	-0.69
12,426.00	88.99	358.51	8,749.76	3,806.32	-492.73	3,831.34	5.16	-2.63	4.44
12,589.00	89.50	359.49	8,751.91	3,969.28	-495.57	3,994.10	0.68	0.31	0.60
12,684.00	88.82	358.25	8,753.30	4,064.25	-497.45	4,088.97	1.49	-0.72	-1.31
12,780.00	88.28	358.32	8,755.73	4,160.18	-500.32	4,184.87	0.57	-0.56	0.07
12,875.00	89.80	359.07	8,757.32	4,255.14	-502.48	4,279.75	1.78	1.60	0.79
12,970.00	89.97	359.67	8,757.51	4,350.13	-503.53	4,374.58	0.66	0.18	0.63
13,065.00	89.77	358.97	8,757.73	4,445.12	-504.65	4,469.43	0.77	-0.21	-0.74
13,160.00	91.35	0.39	8,756.80	4,540.11	-505.19	4,564.22	2.24	1.66	1.49
13,256.00	92.22	0.30	8,753.81	4,636.06	-504.61	4,659.90	0.91	0.91	-0.09
13,351.00	91.38	0.54	8,750.83	4,731.01	-503.91	4,754.57	0.92	-0.88	0.25
13,445.00	88.55	359.99	8,750.88	4,825.00	-503.48	4,848.31	3.07	-3.01	-0.59
13,540.00	87.45	359.13	8,754.20	4,919.94	-504.21	4,943.07	1.47	-1.16	-0.91
13,635.00	87.72	358.83	8,758.20	5,014.84	-505.90	5,037.85	0.42	0.28	-0.32
13,730.00	88.56	359.45	8,761.29	5,109.78	-507.32	5,132.66	1.10	0.88	0.65
13,825.00	89.66	358.82	8,762.76	5,204.75	-508.75	5,227.51	1.33	1.16	-0.66
13,921.00	90.40	359.56	8,762.71	5,300.74	-510.11	5,323.36	1.09	0.77	0.77
14,017.00	90.94	359.72	8,761.59	5,396.73	-510.71	5,419.16	0.59	0.56	0.17
14,112.00	90.81	359.14	8,760.14	5,491.72	-511.66	5,513.98	0.63	-0.14	-0.61
14,208.00	89.90	358.74	8,759.54	5,587.70	-513.44	5,609.86	1.04	-0.95	-0.42
14,303.00	90.07	357.33	8,759.57	5,682.64	-516.69	5,704.79	1.49	0.18	-1.48
14,398.00	91.38	358.04	8,758.37	5,777.55	-520.53	5,799.74	1.57	1.38	0.75
14,493.00	91.81	358.06	8,755.72	5,872.46	-523.76	5,894.65	0.45	0.45	0.02
14,589.00	91.55	0.25	8,752.91	5,968.40	-525.18	5,990.46	2.30	-0.27	2.28
14,684.00	91.74	0.27	8,750.18	6,063.36	-524.75	6,085.16	0.20	0.20	0.02
14,779.00	91.62	1.29	8,747.39	6,158.31	-523.45	6,179.79	1.08	-0.13	1.07
14,874.00	90.74	1.47	8,745.44	6,253.26	-521.17	6,274.35	0.95	-0.93	0.19
14,970.00	89.93	1.26	8,744.88	6,349.23	-518.88	6,369.93	0.87	-0.84	-0.22
15,065.00	89.66	0.76	8,745.22	6,444.22	-517.20	6,464.57	0.60	-0.28	-0.53
15,160.00	89.02	359.97	8,746.31	6,539.21	-516.60	6,559.29	1.07	-0.67	-0.83
15,255.00	88.72	359.78	8,748.18	6,634.19	-516.81	6,654.06	0.37	-0.32	-0.20
15,351.00	89.60	0.03	8,749.59	6,730.18	-516.97	6,749.83	0.95	0.92	0.26
15,446.00	89.46	359.70	8,750.37	6,825.17	-517.19	6,844.61	0.38	-0.15	-0.35
15,541.00	89.19	358.96	8,751.49	6,920.16	-518.30	6,939.44	0.83	-0.28	-0.78
15,636.00	89.06	359.21	8,752.94	7,015.13	-519.82	7,034.30	0.30	-0.14	0.26
15,732.00	88.63	359.06	8,754.88	7,111.10	-521.27	7,130.13	0.47	-0.45	-0.16
15,826.00	88.06	358.11	8,757.59	7,205.03	-523.59	7,224.00	1.18	-0.61	-1.01
15,922.00	88.29	357.61	8,760.65	7,300.92	-527.17	7,319.90	0.57	0.24	-0.52
16,017.00	89.87	358.25	8,762.17	7,395.84	-530.60	7,414.83	1.79	1.66	0.67
16,112.00	90.57	357.89	8,761.81	7,490.79	-533.80	7,509.77	0.83	0.74	-0.38
16,168.37	91.06	358.48	8,761.01	7,547.12	-535.58	7,566.09	1.36	0.86	1.05
BHL[S12-1/522H]									
16,186.00	91.21	358.67	8,760.66	7,564.74	-536.02	7,583.70	1.36	0.86	1.05

Scientific Drilling, Intl

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 522H
Project:	Eddy County, NM (NAD83 NME)	TVD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Site:	Snapping 12-1 Fed	MD Reference:	KB=24' @ 3262.00usft (Cactus 167)
Well:	522H	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)
FINAL MWD Survey (16186.00' MD)									
16,248.43	91.21	358.67	8,759.34	7,627.14	-537.47	7,646.05	0.00	0.00	0.00
BHL.FINAL[S12-1/522H]									
16,254.00	91.21	358.67	8,759.22	7,632.71	-537.60	7,651.62	0.00	0.00	0.00
FINAL Proj. to Bit (16254.00' MD)									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,186.00	8,760.66	7,564.74	-536.02	FINAL MWD Survey (16186.00' MD)
16,254.00	8,759.22	7,632.71	-537.60	FINAL Proj. to Bit (16254.00' MD)

Checked By: _____	Approved By: _____	Date: _____
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