

STATE OF NEW MEXICO
COUNTY OF LEA

I, **Seth Crawley**, certify that; I am employed by **Skyline Directional Drilling, LLC**; that I did on the day(s) of **12/31/2019 to 1/18/2020** did conduct or supervise the taking of MWD surveys from a depth of **262 feet to a depth of 21,183 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Skyline Directional Drilling, LLC**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy Production Co.** for the **Van Doo Dah 28-33 Fed Com 237H** with the **API # 30-025-45237** in the Bone Spring field of **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Skyline Directional Drilling, LLC**.

A handwritten signature in cursive script that reads 'Seth Crawley'.

Seth Crawley
Senior Well Planner



Devon Energy Production Company, L.P.

**Lea Co, New Mexico (NAD-83)
SEC 28-25S-32E(VanDooDah)
Van Doo Dah 28-23 Fed Com 237H
30-025-45237
Lateral #1**

Design: Lateral #1

Standard Survey Report

22 October, 2020



Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Van Doo Dah 28-23 Fed Com 237H
Project:	Lea Co, New Mexico (NAD-83)	TVD Reference:	RigKB @ 3414.0usft (Cactus 129)
Site:	SEC 28-25S-32E(VanDooDah)	MD Reference:	RigKB @ 3414.0usft (Cactus 129)
Well:	Van Doo Dah 28-23 Fed Com 237H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	Compass_DSN

Project	Lea Co, 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		

Site	SEC 28-25S-32E(VanDooDah)		
Site Position:		Northing:	403,727.72 usft
From:	Map	Easting:	745,364.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 29.565 N
		Longitude:	103° 40' 27.793 W

Well	Van Doo Dah 28-23 Fed Com 237H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
Grid Convergence:	0.35 °	Latitude:	32° 6' 29.565 N
		Longitude:	103° 40' 27.793 W
		Ground Level:	3,384.0 usft

Wellbore	Lateral #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/18/2019	6.73
			Dip Angle (°)
			59.91
			Field Strength (nT)
			47,610.27693418

Design	Lateral #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			359.76
			Tie On Depth:
			0.0

Survey Program	Date	1/22/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
262.0	21,183.0	Survey #1 (Lateral #1)	MWD	MWD - Skyline

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
262.0	0.48	252.03	262.0	-0.3	-1.0	-0.3	0.18	0.18	0.00
First Survey									
356.0	0.40	248.87	356.0	-0.6	-1.7	-0.6	0.09	-0.09	-3.36
451.0	0.40	288.77	451.0	-0.6	-2.3	-0.6	0.29	0.00	42.00
546.0	0.44	275.94	546.0	-0.4	-3.0	-0.4	0.11	0.04	-13.51
640.0	0.35	298.88	640.0	-0.3	-3.6	-0.3	0.19	-0.10	24.40
735.0	0.26	296.07	735.0	0.0	-4.1	0.0	0.10	-0.09	-2.96
830.0	0.18	288.33	830.0	0.1	-4.4	0.1	0.09	-0.08	-8.15
896.0	0.13	315.67	896.0	0.2	-4.6	0.2	0.13	-0.08	41.42

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Design:	Lateral #1	Database:	Compass_DSN

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)	
991.0	0.18	339.13	991.0	0.4	-4.7	0.4	0.08	0.05	24.69	
1,086.0	0.57	354.34	1,086.0	1.0	-4.8	1.0	0.42	0.41	16.01	
1,182.0	0.35	13.41	1,182.0	1.8	-4.8	1.8	0.28	-0.23	19.86	
1,277.0	0.48	19.39	1,277.0	2.4	-4.6	2.5	0.14	0.14	6.29	
1,372.0	0.18	107.28	1,372.0	2.8	-4.3	2.8	0.53	-0.32	92.52	
1,468.0	1.19	211.34	1,468.0	1.9	-4.7	1.9	1.30	1.05	108.40	
1,564.0	2.46	221.36	1,563.9	-0.5	-6.6	-0.5	1.36	1.32	10.44	
1,659.0	3.69	231.03	1,658.8	-4.0	-10.3	-3.9	1.40	1.29	10.18	
1,754.0	4.18	239.47	1,753.6	-7.7	-15.6	-7.6	0.80	0.52	8.88	
1,850.0	4.75	245.71	1,849.3	-11.1	-22.3	-11.0	0.78	0.59	6.50	
1,945.0	5.89	251.95	1,943.9	-14.2	-30.5	-14.1	1.34	1.20	6.57	
2,041.0	6.95	255.90	2,039.3	-17.1	-40.8	-17.0	1.20	1.10	4.11	
2,137.0	8.35	253.79	2,134.4	-20.5	-53.1	-20.3	1.49	1.46	-2.20	
2,232.0	9.49	257.48	2,228.2	-24.1	-67.4	-23.8	1.34	1.20	3.88	
2,328.0	10.68	258.71	2,322.8	-27.6	-83.9	-27.2	1.26	1.24	1.28	
2,423.0	10.90	258.71	2,416.1	-31.1	-101.3	-30.6	0.23	0.23	0.00	
2,519.0	10.33	255.73	2,510.4	-35.0	-118.5	-34.5	0.82	-0.59	-3.10	
2,614.0	9.89	254.23	2,604.0	-39.3	-134.6	-38.7	0.54	-0.46	-1.58	
2,710.0	10.37	254.50	2,698.5	-43.8	-150.9	-43.2	0.50	0.50	0.28	
2,805.0	9.93	253.79	2,792.0	-48.4	-167.0	-47.7	0.48	-0.46	-0.75	
2,900.0	9.49	253.62	2,885.6	-52.9	-182.4	-52.1	0.46	-0.46	-0.18	
2,996.0	9.32	258.98	2,980.3	-56.6	-197.6	-55.8	0.93	-0.18	5.58	
3,091.0	9.05	260.56	3,074.1	-59.3	-212.5	-58.4	0.39	-0.28	1.66	
3,187.0	9.27	259.77	3,168.9	-61.9	-227.6	-61.0	0.26	0.23	-0.82	
3,283.0	10.33	258.19	3,263.5	-65.1	-243.6	-64.0	1.14	1.10	-1.65	
3,378.0	10.59	257.57	3,356.9	-68.7	-260.5	-67.6	0.30	0.27	-0.65	
3,474.0	9.01	257.48	3,451.5	-72.2	-276.4	-71.1	1.65	-1.65	-0.09	
3,569.0	8.53	256.96	3,545.4	-75.4	-290.6	-74.2	0.51	-0.51	-0.55	
3,665.0	9.27	257.13	3,640.2	-78.7	-305.0	-77.5	0.77	0.77	0.18	
3,760.0	10.11	254.76	3,733.9	-82.6	-320.6	-81.3	0.98	0.88	-2.49	
3,856.0	10.20	253.44	3,828.4	-87.3	-336.8	-85.9	0.26	0.09	-1.38	
3,952.0	9.01	250.72	3,923.0	-92.2	-352.1	-90.7	1.33	-1.24	-2.83	
4,047.0	8.31	254.32	4,016.9	-96.5	-365.7	-95.0	0.93	-0.74	3.79	
4,143.0	10.59	259.15	4,111.6	-100.0	-381.0	-98.4	2.51	2.38	5.03	
4,238.0	12.35	256.69	4,204.7	-104.0	-399.5	-102.3	1.92	1.85	-2.59	
4,333.0	12.44	253.00	4,297.5	-109.3	-419.2	-107.6	0.84	0.09	-3.88	
4,429.0	11.52	251.24	4,391.4	-115.4	-438.1	-113.6	1.03	-0.96	-1.83	
4,525.0	10.29	250.19	4,485.7	-121.4	-455.3	-119.5	1.30	-1.28	-1.09	
4,620.0	10.59	253.26	4,579.1	-126.8	-471.6	-124.8	0.67	0.32	3.23	
4,716.0	10.37	254.32	4,673.5	-131.7	-488.4	-129.7	0.30	-0.23	1.10	
4,811.0	9.80	254.50	4,767.1	-136.2	-504.4	-134.1	0.60	-0.60	0.19	
4,907.0	8.92	254.06	4,861.8	-140.4	-519.5	-138.2	0.92	-0.92	-0.46	
5,003.0	8.18	253.44	4,956.7	-144.4	-533.2	-142.2	0.78	-0.77	-0.65	

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Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	Compass_DSN

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)	
5,051.0	9.41	257.13	5,004.1	-146.2	-540.3	-144.0	2.82	2.56	7.69	
5,193.0	9.49	257.57	5,144.2	-151.3	-563.0	-149.0	0.08	0.06	0.31	
5,288.0	9.54	256.43	5,237.9	-154.9	-578.3	-152.5	0.21	0.05	-1.20	
5,383.0	9.41	256.43	5,331.6	-158.5	-593.5	-156.1	0.14	-0.14	0.00	
5,479.0	9.85	251.95	5,426.3	-162.9	-608.9	-160.4	0.90	0.46	-4.67	
5,574.0	9.89	249.40	5,519.9	-168.3	-624.3	-165.7	0.46	0.04	-2.68	
5,670.0	9.85	247.99	5,614.4	-174.3	-639.6	-171.6	0.26	-0.04	-1.47	
5,765.0	10.07	246.67	5,708.0	-180.6	-654.8	-177.9	0.33	0.23	-1.39	
5,861.0	10.07	245.97	5,802.5	-187.4	-670.2	-184.6	0.13	0.00	-0.73	
5,956.0	11.43	251.77	5,895.9	-193.7	-686.7	-190.8	1.83	1.43	6.11	
6,051.0	12.26	256.78	5,988.8	-199.0	-705.5	-196.0	1.39	0.87	5.27	
6,147.0	12.40	258.01	6,082.6	-203.4	-725.5	-200.4	0.31	0.15	1.28	
6,242.0	12.18	257.75	6,175.4	-207.7	-745.2	-204.5	0.24	-0.23	-0.27	
6,338.0	11.52	258.45	6,269.4	-211.7	-764.5	-208.5	0.70	-0.69	0.73	
6,433.0	10.81	257.92	6,362.6	-215.5	-782.5	-212.2	0.76	-0.75	-0.56	
6,529.0	10.07	259.51	6,457.0	-218.9	-799.6	-215.6	0.83	-0.77	1.66	
6,624.0	9.67	258.45	6,550.6	-222.0	-815.6	-218.6	0.46	-0.42	-1.12	
6,720.0	9.23	259.86	6,645.3	-225.0	-831.0	-221.5	0.52	-0.46	1.47	
6,815.0	9.89	257.31	6,739.0	-228.1	-846.5	-224.6	0.83	0.69	-2.68	
6,910.0	9.54	255.37	6,832.6	-231.9	-862.1	-228.3	0.50	-0.37	-2.04	
7,006.0	10.55	258.89	6,927.2	-235.6	-878.4	-231.9	1.23	1.05	3.67	
7,101.0	10.51	259.77	7,020.6	-238.8	-895.5	-235.1	0.17	-0.04	0.93	
7,197.0	10.29	258.63	7,115.0	-242.1	-912.5	-238.2	0.31	-0.23	-1.19	
7,292.0	8.79	257.84	7,208.7	-245.3	-927.9	-241.4	1.58	-1.58	-0.83	
7,387.0	10.46	258.10	7,302.3	-248.6	-943.4	-244.6	1.76	1.76	0.27	
7,482.0	9.93	259.24	7,395.8	-251.9	-959.9	-247.9	0.60	-0.56	1.20	
7,577.0	9.41	258.54	7,489.5	-255.0	-975.6	-250.9	0.56	-0.55	-0.74	
7,673.0	8.35	257.66	7,584.3	-258.0	-990.1	-253.9	1.11	-1.10	-0.92	
7,768.0	9.32	258.45	7,678.2	-261.0	-1,004.4	-256.8	1.03	1.02	0.83	
7,864.0	9.89	258.36	7,772.8	-264.2	-1,020.0	-260.0	0.59	0.59	-0.09	
7,959.0	9.14	257.22	7,866.5	-267.6	-1,035.4	-263.2	0.81	-0.79	-1.20	
8,055.0	8.48	257.92	7,961.4	-270.7	-1,049.8	-266.3	0.70	-0.69	0.73	
8,150.0	9.76	253.62	8,055.2	-274.5	-1,064.3	-270.0	1.53	1.35	-4.53	
8,245.0	9.63	253.79	8,148.8	-279.0	-1,079.7	-274.4	0.14	-0.14	0.18	
8,340.0	8.31	254.50	8,242.7	-283.0	-1,093.9	-278.4	1.39	-1.39	0.75	
8,436.0	6.90	253.70	8,337.8	-286.5	-1,106.2	-281.8	1.47	-1.47	-0.83	
8,531.0	5.71	253.97	8,432.3	-289.4	-1,116.2	-284.7	1.25	-1.25	0.28	
8,627.0	4.92	255.20	8,527.8	-291.8	-1,124.7	-287.0	0.83	-0.82	1.28	
8,722.0	4.09	257.92	8,622.5	-293.5	-1,132.0	-288.8	0.90	-0.87	2.86	
8,817.0	3.38	266.01	8,717.3	-294.4	-1,138.1	-289.6	0.93	-0.75	8.52	
8,912.0	2.42	272.51	8,812.2	-294.5	-1,142.9	-289.7	1.07	-1.01	6.84	
9,007.0	1.71	274.89	8,907.2	-294.3	-1,146.3	-289.5	0.75	-0.75	2.51	
9,103.0	1.71	290.97	9,003.1	-293.7	-1,149.1	-288.9	0.50	0.00	16.75	

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9,198.0	2.02	319.71	9,098.1	-291.9	-1,151.5	-287.1	1.02	0.33	30.25
9,294.0	2.64	323.49	9,194.0	-288.8	-1,153.9	-284.0	0.67	0.65	3.94
9,389.0	3.47	329.99	9,288.9	-284.6	-1,156.6	-279.7	0.95	0.87	6.84
9,485.0	3.38	331.66	9,384.7	-279.6	-1,159.4	-274.7	0.14	-0.09	1.74
9,580.0	3.25	330.87	9,479.5	-274.7	-1,162.1	-269.9	0.15	-0.14	-0.83
9,675.0	2.64	331.93	9,574.4	-270.5	-1,164.4	-265.6	0.64	-0.64	1.12
9,771.0	2.68	337.11	9,670.3	-266.4	-1,166.3	-261.6	0.25	0.04	5.40
9,866.0	2.15	330.26	9,765.2	-262.9	-1,168.1	-258.0	0.63	-0.56	-7.21
9,961.0	1.80	321.56	9,860.2	-260.1	-1,169.9	-255.2	0.48	-0.37	-9.16
KOP (9961' MD) 422' FNL, 2067' FEL									
10,057.0	8.26	14.64	9,955.8	-252.3	-1,169.1	-247.4	7.63	6.73	55.29
10,152.0	19.30	17.63	10,047.9	-230.6	-1,162.6	-225.8	11.64	11.62	3.15
10,247.0	29.98	12.80	10,134.1	-192.4	-1,152.5	-187.6	11.43	11.24	-5.08
10,343.0	39.25	4.89	10,213.1	-138.6	-1,144.6	-133.8	10.71	9.66	-8.24
10,438.0	51.60	5.76	10,279.6	-71.4	-1,138.3	-66.6	13.02	13.00	0.92
10,534.0	66.29	10.07	10,329.0	9.8	-1,126.8	14.5	15.77	15.30	4.49
10,629.0	69.45	10.51	10,364.8	96.4	-1,111.0	101.0	3.35	3.33	0.46
10,724.0	71.78	9.37	10,396.3	184.6	-1,095.6	189.2	2.70	2.45	-1.20
10,805.0	81.98	6.24	10,414.7	262.7	-1,084.9	267.2	13.14	12.59	-3.87
Perf Crossing (10805' MD) 100' FSL, 1978' FEL									
10,820.0	83.87	5.68	10,416.6	277.5	-1,083.4	282.0	13.14	12.61	-3.71
10,915.0	90.07	358.91	10,421.6	372.2	-1,079.6	376.7	9.65	6.53	-7.13
11,011.0	87.60	357.94	10,423.5	468.1	-1,082.2	472.6	2.76	-2.57	-1.01
11,107.0	87.56	357.42	10,427.6	563.9	-1,086.1	568.5	0.54	-0.04	-0.54
11,202.0	87.69	357.15	10,431.5	658.7	-1,090.6	663.3	0.32	0.14	-0.28
11,298.0	87.25	358.12	10,435.8	754.6	-1,094.6	759.1	1.11	-0.46	1.01
11,394.0	89.36	359.61	10,438.6	850.5	-1,096.5	855.1	2.69	2.20	1.55
11,492.0	92.40	359.09	10,437.1	948.5	-1,097.6	953.1	3.15	3.10	-0.53
11,587.0	91.78	359.17	10,433.6	1,043.4	-1,099.0	1,048.0	0.66	-0.65	0.08
11,681.0	92.31	359.26	10,430.3	1,137.3	-1,100.3	1,141.9	0.57	0.56	0.10
11,776.0	91.21	359.44	10,427.4	1,232.3	-1,101.4	1,236.9	1.17	-1.16	0.19
11,871.0	91.30	359.96	10,425.3	1,327.3	-1,101.9	1,331.9	0.56	0.09	0.55
11,966.0	89.23	0.14	10,424.8	1,422.2	-1,101.8	1,426.8	2.19	-2.18	0.19
12,060.0	88.92	0.49	10,426.4	1,516.2	-1,101.3	1,520.8	0.50	-0.33	0.37
12,155.0	88.40	1.28	10,428.6	1,611.2	-1,099.8	1,615.8	1.00	-0.55	0.83
12,250.0	89.05	1.72	10,430.7	1,706.1	-1,097.3	1,710.7	0.83	0.68	0.46
12,346.0	89.58	2.34	10,431.8	1,802.1	-1,093.9	1,806.6	0.85	0.55	0.65
12,441.0	89.67	3.30	10,432.5	1,897.0	-1,089.3	1,901.5	1.01	0.09	1.01
12,536.0	90.42	3.04	10,432.4	1,991.8	-1,084.0	1,996.3	0.84	0.79	-0.27
12,632.0	90.81	2.51	10,431.4	2,087.7	-1,079.4	2,092.2	0.69	0.41	-0.55
12,727.0	91.38	2.95	10,429.5	2,182.6	-1,074.8	2,187.0	0.76	0.60	0.46
12,823.0	91.82	1.90	10,426.9	2,278.4	-1,070.8	2,282.9	1.19	0.46	-1.09
12,919.0	93.58	2.07	10,422.3	2,374.3	-1,067.5	2,378.7	1.84	1.83	0.18
13,014.0	93.27	1.72	10,416.7	2,469.0	-1,064.3	2,473.5	0.49	-0.33	-0.37

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Van Doo Dah 28-23 Fed Com 237H
Project:	Lea Co, New Mexico (NAD-83)	TVD Reference:	RigKB @ 3414.0usft (Cactus 129)
Site:	SEC 28-25S-32E(VanDooDah)	MD Reference:	RigKB @ 3414.0usft (Cactus 129)
Well:	Van Doo Dah 28-23 Fed Com 237H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	Compass_DSN

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)
13,110.0	93.27	0.23	10,411.2	2,564.9	-1,062.7	2,569.3	1.55	0.00	-1.55
13,205.0	90.11	359.09	10,408.4	2,659.8	-1,063.3	2,664.2	3.54	-3.33	-1.20
13,301.0	89.41	358.91	10,408.8	2,755.8	-1,064.9	2,760.2	0.75	-0.73	-0.19
13,397.0	90.86	359.44	10,408.6	2,851.8	-1,066.3	2,856.2	1.61	1.51	0.55
13,492.0	90.59	359.88	10,407.4	2,946.8	-1,066.9	2,951.2	0.54	-0.28	0.46
13,587.0	89.32	359.44	10,407.4	3,041.8	-1,067.4	3,046.2	1.41	-1.34	-0.46
13,682.0	89.14	359.00	10,408.7	3,136.8	-1,068.7	3,141.2	0.50	-0.19	-0.46
13,778.0	88.53	359.26	10,410.7	3,232.7	-1,070.2	3,237.2	0.69	-0.64	0.27
13,873.0	90.73	358.56	10,411.3	3,327.7	-1,072.0	3,332.2	2.43	2.32	-0.74
13,968.0	91.16	358.29	10,409.7	3,422.6	-1,074.6	3,427.1	0.53	0.45	-0.28
14,064.0	90.64	357.85	10,408.2	3,518.6	-1,077.8	3,523.1	0.71	-0.54	-0.46
14,159.0	89.85	356.98	10,407.8	3,613.5	-1,082.1	3,618.0	1.24	-0.83	-0.92
14,254.0	89.36	356.01	10,408.5	3,708.3	-1,087.9	3,712.8	1.14	-0.52	-1.02
14,349.0	89.01	355.83	10,409.8	3,803.1	-1,094.7	3,807.6	0.41	-0.37	-0.19
14,445.0	88.66	355.66	10,411.8	3,898.8	-1,101.8	3,903.3	0.41	-0.36	-0.18
14,540.0	90.11	357.68	10,412.8	3,993.6	-1,107.3	3,998.2	2.62	1.53	2.13
14,635.0	90.95	358.29	10,411.9	4,088.5	-1,110.7	4,093.1	1.09	0.88	0.64
14,730.0	91.34	358.12	10,410.0	4,183.5	-1,113.6	4,188.1	0.45	0.41	-0.18
14,826.0	91.65	358.29	10,407.5	4,279.4	-1,116.7	4,284.0	0.37	0.32	0.18
14,921.0	91.03	358.12	10,405.3	4,374.3	-1,119.6	4,379.0	0.68	-0.65	-0.18
15,016.0	91.52	358.21	10,403.2	4,469.2	-1,122.7	4,473.9	0.52	0.52	0.09
15,112.0	91.87	358.56	10,400.3	4,565.2	-1,125.4	4,569.8	0.52	0.36	0.36
15,207.0	91.87	358.91	10,397.2	4,660.1	-1,127.5	4,664.8	0.37	0.00	0.37
15,302.0	90.59	358.29	10,395.2	4,755.0	-1,129.8	4,759.7	1.50	-1.35	-0.65
15,397.0	90.64	358.47	10,394.2	4,850.0	-1,132.5	4,854.7	0.20	0.05	0.19
15,493.0	90.77	358.21	10,393.0	4,945.9	-1,135.3	4,950.7	0.30	0.14	-0.27
15,588.0	91.52	359.79	10,391.1	5,040.9	-1,136.9	5,045.6	1.84	0.79	1.66
15,683.0	91.34	359.44	10,388.7	5,135.9	-1,137.6	5,140.6	0.41	-0.19	-0.37
15,778.0	90.07	358.91	10,387.5	5,230.9	-1,138.9	5,235.6	1.45	-1.34	-0.56
15,874.0	91.03	0.84	10,386.6	5,326.8	-1,139.1	5,331.6	2.25	1.00	2.01
15,969.0	91.34	1.19	10,384.7	5,421.8	-1,137.4	5,426.5	0.49	0.33	0.37
15,982.5	91.20	1.08	10,384.4	5,435.3	-1,137.2	5,440.0	1.34	-1.05	-0.82
Section Crossing (15982.5' MD) 0' FNL, 20002' FEL									
16,065.0	90.33	0.40	10,383.3	5,517.8	-1,136.1	5,522.5	1.34	-1.05	-0.82
16,160.0	89.80	359.96	10,383.1	5,612.8	-1,135.8	5,617.5	0.73	-0.56	-0.46
16,255.0	89.23	359.79	10,384.0	5,707.8	-1,136.0	5,712.5	0.63	-0.60	-0.18
16,350.0	92.40	2.95	10,382.6	5,802.7	-1,133.8	5,807.4	4.71	3.34	3.33
16,445.0	93.49	4.22	10,377.7	5,897.4	-1,127.8	5,902.1	1.76	1.15	1.34
16,541.0	93.67	3.13	10,371.7	5,993.0	-1,121.7	5,997.7	1.15	0.19	-1.14
16,636.0	93.36	2.16	10,365.9	6,087.7	-1,117.3	6,092.4	1.07	-0.33	-1.02
16,731.0	91.12	1.63	10,362.2	6,182.6	-1,114.2	6,187.2	2.42	-2.36	-0.56
16,826.0	87.12	0.67	10,363.6	6,277.6	-1,112.3	6,282.2	4.33	-4.21	-1.01
16,921.0	87.52	0.40	10,368.1	6,372.4	-1,111.4	6,377.0	0.51	0.42	-0.28
17,016.0	86.59	0.05	10,373.0	6,467.3	-1,111.0	6,471.9	1.05	-0.98	-0.37

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Van Doo Dah 28-23 Fed Com 237H
Project:	Lea Co, New Mexico (NAD-83)	TVD Reference:	RigKB @ 3414.0usft (Cactus 129)
Site:	SEC 28-25S-32E(VanDooDah)	MD Reference:	RigKB @ 3414.0usft (Cactus 129)
Well:	Van Doo Dah 28-23 Fed Com 237H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	Compass_DSN

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)
17,111.0	85.23	359.70	10,379.7	6,562.1	-1,111.2	6,566.7	1.48	-1.43	-0.37
17,207.0	86.15	359.88	10,387.0	6,657.8	-1,111.6	6,662.4	0.98	0.96	0.19
17,303.0	85.93	359.26	10,393.6	6,753.6	-1,112.3	6,758.2	0.68	-0.23	-0.65
17,399.0	86.20	359.26	10,400.2	6,849.3	-1,113.5	6,853.9	0.28	0.28	0.00
17,493.0	86.24	359.44	10,406.4	6,943.1	-1,114.6	6,947.7	0.20	0.04	0.19
17,589.0	85.49	357.94	10,413.3	7,038.8	-1,116.8	7,043.5	1.74	-0.78	-1.56
17,684.0	87.96	358.65	10,418.7	7,133.6	-1,119.6	7,138.3	2.70	2.60	0.75
17,779.0	88.84	358.12	10,421.4	7,228.6	-1,122.3	7,233.2	1.08	0.93	-0.56
17,875.0	89.41	358.47	10,422.8	7,324.5	-1,125.1	7,329.2	0.70	0.59	0.36
17,970.0	90.29	358.91	10,423.1	7,419.5	-1,127.3	7,424.1	1.04	0.93	0.46
18,066.0	89.05	357.68	10,423.6	7,515.4	-1,130.2	7,520.1	1.82	-1.29	-1.28
18,161.0	89.27	357.42	10,425.0	7,610.3	-1,134.2	7,615.0	0.36	0.23	-0.27
18,256.0	89.32	357.33	10,426.2	7,705.2	-1,138.6	7,709.9	0.11	0.05	-0.09
18,352.0	88.35	359.00	10,428.2	7,801.2	-1,141.6	7,805.9	2.01	-1.01	1.74
18,447.0	88.57	359.00	10,430.7	7,896.1	-1,143.3	7,900.8	0.23	0.23	0.00
18,543.0	88.62	358.73	10,433.1	7,992.1	-1,145.2	7,996.8	0.29	0.05	-0.28
18,637.0	88.40	0.58	10,435.5	8,086.0	-1,145.8	8,090.8	1.98	-0.23	1.97
18,732.0	88.70	0.75	10,437.9	8,181.0	-1,144.7	8,185.7	0.36	0.32	0.18
18,828.0	89.10	0.32	10,439.8	8,277.0	-1,143.8	8,281.7	0.61	0.42	-0.45
18,923.0	89.54	0.58	10,440.9	8,372.0	-1,143.0	8,376.7	0.54	0.46	0.27
19,018.0	89.45	0.58	10,441.7	8,466.9	-1,142.1	8,471.7	0.09	-0.09	0.00
19,113.0	89.36	0.23	10,442.7	8,561.9	-1,141.4	8,566.6	0.38	-0.09	-0.37
19,208.0	89.58	0.40	10,443.6	8,656.9	-1,140.9	8,661.6	0.29	0.23	0.18
19,304.0	89.05	0.05	10,444.7	8,752.9	-1,140.5	8,757.6	0.66	-0.55	-0.36
19,399.0	90.02	0.14	10,445.5	8,847.9	-1,140.3	8,852.6	1.03	1.02	0.09
19,494.0	88.92	0.58	10,446.4	8,942.9	-1,139.7	8,947.6	1.25	-1.16	0.46
19,589.0	87.08	0.93	10,449.7	9,037.8	-1,138.5	9,042.5	1.97	-1.94	0.37
19,685.0	87.43	1.11	10,454.3	9,133.7	-1,136.8	9,138.4	0.41	0.36	0.19
19,780.0	87.78	1.11	10,458.3	9,228.6	-1,134.9	9,233.3	0.37	0.37	0.00
19,875.0	87.96	1.19	10,461.8	9,323.5	-1,133.0	9,328.2	0.21	0.19	0.08
19,971.0	88.22	0.84	10,465.0	9,419.5	-1,131.3	9,424.1	0.45	0.27	-0.36
20,066.0	88.88	0.84	10,467.4	9,514.4	-1,129.9	9,519.1	0.69	0.69	0.00
20,162.0	87.21	0.58	10,470.7	9,610.4	-1,128.7	9,615.0	1.76	-1.74	-0.27
20,257.0	87.56	0.58	10,475.0	9,705.3	-1,127.8	9,709.9	0.37	0.37	0.00
20,353.0	87.82	0.75	10,478.9	9,801.2	-1,126.7	9,805.8	0.32	0.27	0.18
20,449.0	88.35	0.49	10,482.1	9,897.1	-1,125.6	9,901.7	0.61	0.55	-0.27
20,544.0	88.35	0.32	10,484.8	9,992.1	-1,125.0	9,996.7	0.18	0.00	-0.18
20,640.0	89.10	0.23	10,487.0	10,088.0	-1,124.5	10,092.7	0.79	0.78	-0.09
20,735.0	89.10	0.40	10,488.5	10,183.0	-1,124.0	10,187.6	0.18	0.00	0.18
20,831.0	89.19	0.23	10,489.9	10,279.0	-1,123.5	10,283.6	0.20	0.09	-0.18
20,926.0	89.54	0.05	10,490.9	10,374.0	-1,123.2	10,378.6	0.41	0.37	-0.19
21,022.0	90.15	359.88	10,491.2	10,470.0	-1,123.3	10,474.6	0.66	0.64	-0.18
21,123.0	91.03	359.79	10,490.2	10,571.0	-1,123.6	10,575.6	0.88	0.87	-0.09

Company:	Devon Energy Production Company, L.P.	Local Co-ordinate Reference:	Well Van Doo Dah 28-23 Fed Com 237H
Project:	Lea Co, New Mexico (NAD-83)	TVD Reference:	RigKB @ 3414.0usft (Cactus 129)
Site:	SEC 28-25S-32E(VanDooDah)	MD Reference:	RigKB @ 3414.0usft (Cactus 129)
Well:	Van Doo Dah 28-23 Fed Com 237H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	Compass_DSN

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)
Last Survey									
21,170.0	91.03	359.79	10,489.3	10,618.0	-1,123.7	10,622.6	0.00	0.00	0.00
Perf Crossing (100' FNL, 1972.5' FEL)									
21,183.0	91.03	359.79	10,489.1	10,631.0	-1,123.8	10,635.6	0.00	0.00	0.00
PTB (21183' MD) 87' FNL, 1972.5' FEL									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,961.0	9,860.2	-260.1	-1,169.9	KOP (9961' MD) 422' FNL, 2067' FEL
10,805.0	10,414.7	262.7	-1,084.9	Perf Crossing (10805' MD) 100' FSL, 1978' FEL
15,982.5	10,384.4	5,435.3	-1,137.2	Section Crossing (15982.5' MD) 0' FNL, 20002' FEL
21,123.0	10,490.2	10,571.0	-1,123.6	Last Survey
21,170.0	10,489.3	10,618.0	-1,123.7	Perf Crossing (100' FNL, 1972.5' FEL)
21,183.0	10,489.1	10,631.0	-1,123.8	PTB (21183' MD) 87' FNL, 1972.5' FEL

Checked By: _____	Approved By: _____	Date: _____
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