



Final MWD Survey Certification

Eddy, New Mexico

Client: Devon Energy

Well Name: Maldives 15-27 Fed State Com 235H

Total Job No: SW-200381

API No: 3001547084

Start Date: 07/17/2020

End Date: 08/19/2020

Measured Start Depth: 0 feet

Measured End Depth: 25,570 feet

Vertical Section from well center at PTB: 15,733.23 feet

I, Chris Meredith, certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 08/19/2020

Signed: *Chris Meredith*



Devon Energy

Eddy County, NM (NAD83)

S10-T23S-T31E

MALDIVES 15-27 FED COM 235H

OH

Design: FINAL

Standard Survey Report

20 August, 2020



Company:	Devon Energy	Local Co-ordinate Reference:	Well MALDIVES 15-27 FED COM 235H
Project:	Eddy County, NM (NAD83)	TVD Reference:	30' KB @ 3451.0usft
Site:	S10-T23S-T31E	MD Reference:	30' KB @ 3451.0usft
Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	S10-T23S-T31E				
Site Position:		Northing:	478,123.67 usft	Latitude:	32.313182
From:	Map	Easting:	715,031.70 usft	Longitude:	-103.771093
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.30 °

Well	MALDIVES 15-27 FED COM 235H					
Well Position	+N/-S	0.0 usft	Northing:	477,634.76 usft	Latitude:	32.311787
	+E/-W	0.0 usft	Easting:	718,604.94 usft	Longitude:	-103.759535
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,421.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/15/2020	6.72	60.07	47,662.33818983

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.69	

Survey Program	Date	8/20/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.0	25,570.0	Survey #1 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	

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	
199.0	0.30	174.30	199.0	-0.5	0.1	0.5	0.15	0.15	0.00	
309.0	0.50	157.90	309.0	-1.2	0.3	1.3	0.21	0.18	-14.91	
404.0	0.40	156.70	404.0	-1.9	0.5	1.9	0.11	-0.11	-1.26	
499.0	0.40	177.60	499.0	-2.6	0.7	2.6	0.15	0.00	22.00	
595.0	0.60	165.50	595.0	-3.4	0.8	3.4	0.23	0.21	-12.60	
679.0	0.60	168.80	679.0	-4.3	1.0	4.3	0.04	0.00	3.93	
801.0	0.20	220.30	801.0	-5.0	1.0	5.0	0.41	-0.33	42.21	
895.0	0.30	244.30	895.0	-5.3	0.7	5.3	0.15	0.11	25.53	
990.0	0.30	216.90	990.0	-5.6	0.3	5.6	0.15	0.00	-28.84	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
1,084.0	0.30	245.00	1,084.0	-5.9	-0.1	5.9	0.15	0.00	29.89
1,179.0	0.30	229.50	1,179.0	-6.1	-0.5	6.1	0.09	0.00	-16.32
1,273.0	0.20	241.90	1,273.0	-6.4	-0.8	6.4	0.12	-0.11	13.19
1,367.0	0.30	217.40	1,367.0	-6.7	-1.1	6.7	0.15	0.11	-26.06
1,462.0	0.20	209.90	1,462.0	-7.0	-1.3	7.0	0.11	-0.11	-7.89
1,556.0	0.30	199.30	1,556.0	-7.4	-1.5	7.4	0.12	0.11	-11.28
1,650.0	0.20	137.30	1,650.0	-7.7	-1.5	7.7	0.29	-0.11	-65.96
1,745.0	0.30	252.90	1,745.0	-7.9	-1.6	7.9	0.45	0.11	121.68
1,839.0	0.70	261.70	1,839.0	-8.1	-2.4	8.1	0.43	0.43	9.36
1,936.0	1.50	278.00	1,935.9	-8.0	-4.2	8.0	0.88	0.82	16.80
2,031.0	2.10	281.30	2,030.9	-7.5	-7.2	7.4	0.64	0.63	3.47
2,126.0	2.00	278.40	2,125.8	-6.9	-10.5	6.8	0.15	-0.11	-3.05
2,222.0	1.80	273.40	2,221.8	-6.6	-13.7	6.5	0.27	-0.21	-5.21
2,317.0	1.90	268.70	2,316.7	-6.5	-16.7	6.4	0.19	0.11	-4.95
2,413.0	2.90	266.80	2,412.7	-6.7	-20.8	6.6	1.04	1.04	-1.98
2,508.0	3.50	265.40	2,507.5	-7.0	-26.1	6.9	0.64	0.63	-1.47
2,604.0	3.80	264.50	2,603.3	-7.6	-32.1	7.4	0.32	0.31	-0.94
2,699.0	3.30	260.60	2,698.1	-8.3	-38.0	8.1	0.58	-0.53	-4.11
2,795.0	3.50	260.30	2,794.0	-9.3	-43.6	9.0	0.21	0.21	-0.31
2,890.0	4.70	265.10	2,888.7	-10.1	-50.3	9.8	1.31	1.26	5.05
2,985.0	4.50	266.00	2,983.4	-10.7	-57.9	10.4	0.22	-0.21	0.95
3,081.0	4.20	266.20	3,079.1	-11.2	-65.2	10.8	0.31	-0.31	0.21
3,177.0	3.90	264.30	3,174.9	-11.7	-71.9	11.3	0.34	-0.31	-1.98
3,272.0	3.60	263.90	3,269.7	-12.4	-78.1	12.0	0.32	-0.32	-0.42
3,367.0	4.10	265.70	3,364.5	-12.9	-84.5	12.5	0.54	0.53	1.89
3,463.0	4.10	267.00	3,460.2	-13.4	-91.3	12.9	0.10	0.00	1.35
3,558.0	3.30	263.80	3,555.0	-13.9	-97.4	13.3	0.87	-0.84	-3.37
3,653.0	3.40	260.40	3,649.9	-14.6	-102.9	14.1	0.23	0.11	-3.58
3,749.0	4.40	263.90	3,745.6	-15.5	-109.4	14.9	1.07	1.04	3.65
3,845.0	4.20	263.40	3,841.4	-16.3	-116.6	15.7	0.21	-0.21	-0.52
3,940.0	3.50	256.30	3,936.2	-17.4	-122.8	16.7	0.89	-0.74	-7.47
4,035.0	4.30	258.30	4,030.9	-18.8	-129.1	18.1	0.85	0.84	2.11
4,130.0	4.40	260.60	4,125.7	-20.1	-136.2	19.4	0.21	0.11	2.42
4,226.0	3.70	257.30	4,221.4	-21.4	-142.9	20.6	0.77	-0.73	-3.44
4,321.0	3.30	256.70	4,316.2	-22.7	-148.5	21.9	0.42	-0.42	-0.63
4,363.0	3.20	258.00	4,358.2	-23.2	-150.8	22.4	0.30	-0.24	3.10
4,425.0	3.10	258.00	4,420.1	-23.9	-154.2	23.1	0.16	-0.16	0.00
4,520.0	3.30	263.20	4,514.9	-24.8	-159.4	23.9	0.37	0.21	5.47
4,615.0	4.10	270.10	4,609.7	-25.1	-165.5	24.2	0.96	0.84	7.26
4,710.0	4.50	275.00	4,704.5	-24.8	-172.6	23.8	0.57	0.42	5.16
4,806.0	4.40	274.80	4,800.2	-24.1	-180.0	23.1	0.11	-0.10	-0.21
4,901.0	4.50	274.40	4,894.9	-23.5	-187.4	22.5	0.11	0.11	-0.42
4,996.0	4.50	275.70	4,989.6	-22.9	-194.8	21.8	0.11	0.00	1.37
5,091.0	4.40	276.20	5,084.3	-22.1	-202.1	21.0	0.11	-0.11	0.53

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Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
5,187.0	4.30	275.10	5,180.0	-21.4	-209.4	20.3	0.14	-0.10	-1.15
5,282.0	4.20	276.00	5,274.8	-20.7	-216.4	19.5	0.13	-0.11	0.95
5,378.0	4.30	277.00	5,370.5	-19.9	-223.5	18.7	0.13	0.10	1.04
5,473.0	4.40	276.00	5,465.2	-19.1	-230.6	17.8	0.13	0.11	-1.05
5,569.0	4.70	275.60	5,560.9	-18.3	-238.2	17.0	0.31	0.31	-0.42
5,664.0	4.80	275.50	5,655.6	-17.6	-246.0	16.2	0.11	0.11	-0.11
5,759.0	4.70	276.80	5,750.3	-16.7	-253.9	15.3	0.15	-0.11	1.37
5,855.0	4.70	277.40	5,846.0	-15.7	-261.7	14.3	0.05	0.00	0.63
5,950.0	4.50	278.20	5,940.7	-14.7	-269.2	13.3	0.22	-0.21	0.84
6,045.0	4.60	279.20	6,035.4	-13.6	-276.7	12.1	0.13	0.11	1.05
6,141.0	4.70	280.50	6,131.0	-12.2	-284.3	10.7	0.15	0.10	1.35
6,236.0	5.00	272.50	6,225.7	-11.4	-292.3	9.8	0.78	0.32	-8.42
6,332.0	5.20	270.80	6,321.3	-11.1	-300.8	9.5	0.26	0.21	-1.77
6,427.0	5.10	270.80	6,415.9	-11.0	-309.3	9.3	0.11	-0.11	0.00
6,523.0	4.90	272.10	6,511.6	-10.8	-317.7	9.1	0.24	-0.21	1.35
6,618.0	4.80	259.70	6,606.2	-11.3	-325.7	9.6	1.11	-0.11	-13.05
6,713.0	4.80	254.40	6,700.9	-13.1	-333.4	11.3	0.47	0.00	-5.58
6,809.0	4.80	256.10	6,796.6	-15.2	-341.2	13.3	0.15	0.00	1.77
6,904.0	4.10	243.80	6,891.3	-17.6	-348.1	15.7	1.24	-0.74	-12.95
6,999.0	4.00	239.90	6,986.0	-20.8	-354.0	18.9	0.31	-0.11	-4.11
7,095.0	3.40	242.20	7,081.8	-23.8	-359.4	21.8	0.64	-0.63	2.40
7,190.0	3.10	247.20	7,176.7	-26.1	-364.3	24.1	0.43	-0.32	5.26
7,286.0	3.10	246.70	7,272.6	-28.1	-369.0	26.1	0.03	0.00	-0.52
7,381.0	2.20	257.50	7,367.4	-29.5	-373.2	27.5	1.08	-0.95	11.37
7,476.0	1.30	253.80	7,462.4	-30.2	-376.0	28.2	0.95	-0.95	-3.89
7,572.0	0.60	326.30	7,558.4	-30.1	-377.3	28.1	1.31	-0.73	75.52
7,667.0	0.50	342.30	7,653.4	-29.3	-377.7	27.3	0.19	-0.11	16.84
7,858.0	0.20	330.60	7,844.4	-28.2	-378.1	26.2	0.16	-0.16	-6.13
7,953.0	0.30	307.60	7,939.4	-27.9	-378.4	25.9	0.15	0.11	-24.21
8,048.0	0.30	305.70	8,034.4	-27.6	-378.8	25.6	0.01	0.00	-2.00
8,113.6	0.29	285.49	8,100.0	-27.5	-379.1	25.4	0.16	-0.01	-30.79
MALDIVES 235H VP (20 FNL, 1130 FEL)									
8,143.0	0.30	276.60	8,129.4	-27.5	-379.3	25.4	0.16	0.03	-30.28
8,239.0	0.50	250.10	8,225.4	-27.6	-379.9	25.5	0.28	0.21	-27.60
8,334.0	0.40	255.90	8,320.4	-27.8	-380.6	25.7	0.12	-0.11	6.11
8,442.0	0.40	248.30	8,428.4	-28.0	-381.3	26.0	0.05	0.00	-7.04
8,538.0	0.30	190.50	8,524.4	-28.4	-381.7	26.3	0.36	-0.10	-60.21
8,633.0	1.00	293.60	8,619.4	-28.3	-382.5	26.2	1.17	0.74	108.53
8,729.0	1.00	291.70	8,715.4	-27.7	-384.1	25.6	0.03	0.00	-1.98
8,824.0	1.50	273.80	8,810.3	-27.3	-386.1	25.2	0.66	0.53	-18.84
8,920.0	0.70	275.30	8,906.3	-27.1	-387.9	25.0	0.83	-0.83	1.56
9,015.0	1.10	280.50	9,001.3	-26.9	-389.4	24.8	0.43	0.42	5.47
9,110.0	0.30	44.00	9,096.3	-26.6	-390.1	24.5	1.36	-0.84	130.00

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9,206.0	0.20	206.10	9,192.3	-26.5	-390.0	24.4	0.51	-0.10	168.85
9,301.0	0.60	257.60	9,287.3	-26.8	-390.6	24.7	0.53	0.42	54.21
9,397.0	0.80	250.40	9,383.3	-27.1	-391.7	25.0	0.23	0.21	-7.50
9,492.0	2.70	202.30	9,478.2	-29.4	-393.2	27.3	2.36	2.00	-50.63
KOP - 9492.0' (12 FNL, 1138 FEL)									
9,587.0	8.00	182.00	9,572.8	-38.1	-394.2	36.0	5.84	5.58	-21.37
9,682.0	14.10	184.20	9,666.0	-56.3	-395.3	54.1	6.44	6.42	2.32
9,778.0	24.80	177.60	9,756.4	-88.2	-395.3	86.0	11.36	11.15	-6.88
9,839.5	31.98	175.15	9,810.5	-117.3	-393.4	115.2	11.82	11.67	-3.98
CROSS 100 FNL									
9,873.0	35.90	174.20	9,838.3	-135.9	-391.7	133.8	11.82	11.71	-2.85
9,968.0	42.90	173.00	9,911.6	-195.8	-384.9	193.7	7.41	7.37	-1.26
10,037.0	47.79	173.52	9,960.1	-244.5	-379.2	242.5	7.10	7.08	0.75
MALDIVES 235H FTP (100 FNL, 1130 FEL)									
10,064.0	49.70	173.70	9,977.9	-264.7	-376.9	262.7	7.10	7.08	0.67
10,159.0	59.60	178.40	10,032.8	-341.9	-371.8	339.9	11.17	10.42	4.95
10,255.0	75.40	179.00	10,069.4	-430.3	-369.8	428.3	16.47	16.46	0.63
10,350.0	86.70	181.10	10,084.2	-524.0	-369.9	521.9	12.09	11.89	2.21
10,445.0	89.60	181.10	10,087.3	-618.9	-371.7	616.9	3.05	3.05	0.00
10,541.0	89.50	180.40	10,088.0	-714.9	-373.0	712.8	0.74	-0.10	-0.73
10,636.0	89.10	178.70	10,089.2	-809.9	-372.2	807.8	1.84	-0.42	-1.79
10,732.0	88.70	178.90	10,091.0	-905.8	-370.2	903.8	0.47	-0.42	0.21
10,827.0	89.80	179.70	10,092.3	-1,000.8	-369.1	998.8	1.43	1.16	0.84
10,922.0	87.90	178.30	10,094.2	-1,095.8	-367.4	1,093.8	2.48	-2.00	-1.47
11,018.0	90.40	178.40	10,095.6	-1,191.7	-364.6	1,189.7	2.61	2.60	0.10
11,113.0	90.60	179.70	10,094.8	-1,286.7	-363.1	1,284.7	1.38	0.21	1.37
11,208.0	90.50	179.40	10,093.9	-1,381.7	-362.3	1,379.7	0.33	-0.11	-0.32
11,304.0	89.90	178.90	10,093.5	-1,477.7	-360.9	1,475.7	0.81	-0.63	-0.52
11,399.0	90.20	181.30	10,093.4	-1,572.7	-361.1	1,570.7	2.55	0.32	2.53
11,495.0	90.20	181.00	10,093.1	-1,668.6	-363.0	1,666.6	0.31	0.00	-0.31
11,590.0	90.20	181.30	10,092.8	-1,763.6	-364.9	1,761.6	0.32	0.00	0.32
11,686.0	90.30	181.60	10,092.4	-1,859.6	-367.3	1,857.6	0.33	0.10	0.31
11,781.0	90.70	180.90	10,091.5	-1,954.6	-369.4	1,952.5	0.85	0.42	-0.74
11,876.0	90.20	180.30	10,090.8	-2,049.5	-370.4	2,047.5	0.82	-0.53	-0.63
11,972.0	89.10	179.60	10,091.4	-2,145.5	-370.3	2,143.5	1.36	-1.15	-0.73
12,067.0	89.60	180.40	10,092.4	-2,240.5	-370.3	2,238.5	0.99	0.53	0.84
12,163.0	89.70	180.40	10,093.0	-2,336.5	-371.0	2,334.5	0.10	0.10	0.00
12,259.0	92.40	181.40	10,091.3	-2,432.5	-372.5	2,430.4	3.00	2.81	1.04
12,354.0	92.00	181.30	10,087.6	-2,527.4	-374.7	2,525.3	0.43	-0.42	-0.11
12,450.0	91.70	182.00	10,084.5	-2,623.3	-377.5	2,621.2	0.79	-0.31	0.73
12,545.0	91.30	182.70	10,082.0	-2,718.2	-381.4	2,716.1	0.85	-0.42	0.74
12,641.0	89.80	181.10	10,081.1	-2,814.1	-384.6	2,812.0	2.28	-1.56	-1.67
12,736.0	89.10	180.80	10,082.0	-2,909.1	-386.1	2,907.0	0.80	-0.74	-0.32
12,832.0	88.10	180.40	10,084.4	-3,005.1	-387.1	3,002.9	1.12	-1.04	-0.42

Company:	Devon Energy	Local Co-ordinate Reference:	Well MALDIVES 15-27 FED COM 235H
Project:	Eddy County, NM (NAD83)	TVD Reference:	30' KB @ 3451.0usft
Site:	S10-T23S-T31E	MD Reference:	30' KB @ 3451.0usft
Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
12,926.0	87.60	180.90	10,087.9	-3,099.0	-388.2	3,096.9	0.75	-0.53	0.53
13,021.0	87.40	179.20	10,092.0	-3,193.9	-388.3	3,191.8	1.80	-0.21	-1.79
13,117.0	88.90	177.60	10,095.1	-3,289.8	-385.6	3,287.7	2.28	1.56	-1.67
13,212.0	90.60	178.10	10,095.6	-3,384.7	-382.0	3,382.6	1.87	1.79	0.53
13,307.0	90.80	177.30	10,094.4	-3,479.7	-378.2	3,477.6	0.87	0.21	-0.84
13,403.0	90.80	176.00	10,093.1	-3,575.5	-372.6	3,573.4	1.35	0.00	-1.35
13,498.0	90.20	177.30	10,092.2	-3,670.3	-367.1	3,668.3	1.51	-0.63	1.37
13,594.0	90.20	178.30	10,091.9	-3,766.2	-363.4	3,764.2	1.04	0.00	1.04
13,690.0	90.30	179.90	10,091.5	-3,862.2	-361.9	3,860.2	1.67	0.10	1.67
13,785.0	88.50	177.90	10,092.5	-3,957.2	-360.0	3,955.2	2.83	-1.89	-2.11
13,880.0	89.70	177.10	10,094.0	-4,052.1	-355.9	4,050.1	1.52	1.26	-0.84
13,976.0	90.70	177.90	10,093.6	-4,148.0	-351.7	4,146.0	1.33	1.04	0.83
14,071.0	89.30	178.40	10,093.6	-4,242.9	-348.7	4,241.0	1.56	-1.47	0.53
14,166.0	89.10	179.50	10,094.9	-4,337.9	-346.9	4,336.0	1.18	-0.21	1.16
14,262.0	88.90	179.40	10,096.6	-4,433.9	-346.0	4,432.0	0.23	-0.21	-0.10
14,298.0	88.70	178.50	10,097.4	-4,469.9	-345.3	4,468.0	2.56	-0.56	-2.50
14,393.0	90.60	178.50	10,098.0	-4,564.8	-342.8	4,562.9	2.00	2.00	0.00
14,489.0	89.80	178.60	10,097.6	-4,660.8	-340.4	4,658.9	0.84	-0.83	0.10
14,584.0	90.00	180.10	10,097.8	-4,755.8	-339.3	4,753.9	1.59	0.21	1.58
14,680.0	90.80	178.90	10,097.1	-4,851.8	-338.5	4,849.9	1.50	0.83	-1.25
14,775.0	90.10	180.00	10,096.4	-4,946.8	-337.6	4,944.9	1.37	-0.74	1.16
14,871.0	90.90	180.10	10,095.5	-5,042.8	-337.7	5,040.9	0.84	0.83	0.10
14,967.0	90.60	180.80	10,094.3	-5,138.8	-338.4	5,136.9	0.79	-0.31	0.73
15,062.0	90.00	181.30	10,093.8	-5,233.8	-340.2	5,231.8	0.82	-0.63	0.53
15,125.8	90.27	180.83	10,093.6	-5,297.5	-341.4	5,295.6	0.84	0.42	-0.73
CROSS INTO SEC 22									
15,158.0	90.40	180.60	10,093.4	-5,329.7	-341.8	5,327.8	0.84	0.42	-0.73
15,253.0	90.00	181.70	10,093.1	-5,424.7	-343.7	5,422.8	1.23	-0.42	1.16
15,349.0	89.20	181.80	10,093.8	-5,520.7	-346.6	5,518.7	0.84	-0.83	0.10
15,444.0	87.60	181.30	10,096.4	-5,615.6	-349.2	5,613.6	1.76	-1.68	-0.53
15,540.0	86.90	179.50	10,101.0	-5,711.5	-349.8	5,709.5	2.01	-0.73	-1.88
15,636.0	88.70	180.30	10,104.7	-5,807.4	-349.7	5,805.4	2.05	1.88	0.83
15,731.0	89.50	180.00	10,106.2	-5,902.4	-349.9	5,900.4	0.90	0.84	-0.32
15,827.0	90.50	179.70	10,106.2	-5,998.4	-349.7	5,996.4	1.09	1.04	-0.31
15,921.0	87.70	181.10	10,107.7	-6,092.4	-350.3	6,090.4	3.33	-2.98	1.49
16,016.0	89.90	180.50	10,109.7	-6,187.3	-351.6	6,185.3	2.40	2.32	-0.63
16,111.0	90.40	181.70	10,109.4	-6,282.3	-353.5	6,280.3	1.37	0.53	1.26
16,205.0	90.00	179.90	10,109.1	-6,376.3	-354.8	6,374.3	1.96	-0.43	-1.91
16,300.0	90.20	178.60	10,108.9	-6,471.3	-353.5	6,469.3	1.38	0.21	-1.37
16,394.0	90.60	179.60	10,108.3	-6,565.3	-352.1	6,563.3	1.15	0.43	1.06
16,488.0	91.70	178.60	10,106.4	-6,659.2	-350.6	6,657.2	1.58	1.17	-1.06
16,583.0	91.00	179.60	10,104.2	-6,754.2	-349.1	6,752.2	1.28	-0.74	1.05
16,677.0	90.80	180.40	10,102.7	-6,848.2	-349.1	6,846.2	0.88	-0.21	0.85
16,772.0	90.70	180.10	10,101.4	-6,943.2	-349.5	6,941.2	0.33	-0.11	-0.32

Company:	Devon Energy	Local Co-ordinate Reference:	Well MALDIVES 15-27 FED COM 235H
Project:	Eddy County, NM (NAD83)	TVD Reference:	30' KB @ 3451.0usft
Site:	S10-T23S-T31E	MD Reference:	30' KB @ 3451.0usft
Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
16,866.0	90.30	179.10	10,100.6	-7,037.2	-348.9	7,035.2	1.15	-0.43	-1.06
16,960.0	89.60	179.00	10,100.7	-7,131.2	-347.3	7,129.2	0.75	-0.74	-0.11
17,055.0	89.70	177.80	10,101.3	-7,226.1	-344.6	7,224.1	1.27	0.11	-1.26
17,149.0	89.80	178.90	10,101.7	-7,320.1	-341.9	7,318.1	1.18	0.11	1.17
17,243.0	89.30	178.60	10,102.4	-7,414.0	-339.9	7,412.1	0.62	-0.53	-0.32
17,338.0	86.70	179.50	10,105.7	-7,509.0	-338.3	7,507.0	2.90	-2.74	0.95
17,434.0	86.80	180.30	10,111.2	-7,604.8	-338.1	7,602.9	0.84	0.10	0.83
17,529.0	88.30	181.10	10,115.3	-7,699.7	-339.3	7,697.8	1.79	1.58	0.84
17,625.0	90.70	180.50	10,116.1	-7,795.7	-340.6	7,793.7	2.58	2.50	-0.63
17,720.0	90.90	179.60	10,114.8	-7,890.7	-340.7	7,888.7	0.97	0.21	-0.95
17,816.0	91.40	178.70	10,112.8	-7,986.6	-339.3	7,984.7	1.07	0.52	-0.94
17,912.0	92.70	177.70	10,109.4	-8,082.5	-336.3	8,080.6	1.71	1.35	-1.04
18,007.0	93.20	179.00	10,104.5	-8,177.4	-333.6	8,175.4	1.46	0.53	1.37
18,103.0	90.60	179.20	10,101.3	-8,273.3	-332.0	8,271.4	2.72	-2.71	0.21
18,198.0	91.50	178.30	10,099.6	-8,368.3	-330.0	8,366.3	1.34	0.95	-0.95
18,293.0	89.70	178.30	10,098.6	-8,463.2	-327.2	8,461.3	1.89	-1.89	0.00
18,389.0	90.90	178.00	10,098.1	-8,559.2	-324.1	8,557.3	1.29	1.25	-0.31
18,484.0	92.30	178.00	10,095.4	-8,654.1	-320.7	8,652.2	1.47	1.47	0.00
18,579.0	91.30	178.80	10,092.5	-8,749.0	-318.1	8,747.1	1.35	-1.05	0.84
18,674.0	91.60	178.30	10,090.1	-8,843.9	-315.7	8,842.1	0.61	0.32	-0.53
18,770.0	91.00	179.00	10,087.9	-8,939.9	-313.4	8,938.0	0.96	-0.63	0.73
18,865.0	91.30	178.30	10,086.0	-9,034.8	-311.2	9,033.0	0.80	0.32	-0.74
18,961.0	91.20	177.50	10,083.9	-9,130.7	-307.7	9,128.9	0.84	-0.10	-0.83
19,056.0	91.50	176.50	10,081.6	-9,225.6	-302.7	9,223.8	1.10	0.32	-1.05
19,152.0	92.00	177.00	10,078.7	-9,321.4	-297.3	9,319.6	0.74	0.52	0.52
19,248.0	92.00	178.20	10,075.4	-9,417.2	-293.2	9,415.5	1.25	0.00	1.25
19,343.0	90.90	178.00	10,072.9	-9,512.1	-290.1	9,510.4	1.18	-1.16	-0.21
19,438.0	91.30	178.30	10,071.1	-9,607.1	-287.0	9,605.4	0.53	0.42	0.32
19,534.0	90.90	179.40	10,069.3	-9,703.0	-285.1	9,701.3	1.22	-0.42	1.15
19,629.0	91.20	180.40	10,067.5	-9,798.0	-284.9	9,796.3	1.10	0.32	1.05
19,725.0	90.10	180.20	10,066.5	-9,894.0	-285.4	9,892.3	1.16	-1.15	-0.21
19,821.0	90.50	181.70	10,065.9	-9,990.0	-287.0	9,988.3	1.62	0.42	1.56
19,916.0	90.90	181.40	10,064.8	-10,084.9	-289.6	10,083.2	0.53	0.42	-0.32
20,011.0	90.60	182.30	10,063.5	-10,179.9	-292.7	10,178.2	1.00	-0.32	0.95
20,107.0	89.70	181.20	10,063.3	-10,275.8	-295.6	10,274.1	1.48	-0.94	-1.15
20,203.0	90.20	180.90	10,063.4	-10,371.8	-297.4	10,370.1	0.61	0.52	-0.31
20,298.0	90.30	180.20	10,063.0	-10,466.8	-298.3	10,465.0	0.74	0.11	-0.74
20,394.0	90.80	182.00	10,062.0	-10,562.8	-300.1	10,561.0	1.95	0.52	1.88
20,410.8	90.45	182.16	10,061.9	-10,579.6	-300.7	10,577.8	2.31	-2.11	0.95
CROSS INTO SEC 27									
20,489.0	88.80	182.90	10,062.4	-10,657.7	-304.2	10,655.9	2.31	-2.11	0.95
20,585.0	87.40	182.90	10,065.6	-10,753.5	-309.0	10,751.7	1.46	-1.46	0.00
20,681.0	86.90	182.70	10,070.3	-10,849.3	-313.7	10,847.4	0.56	-0.52	-0.21

Company:	Devon Energy	Local Co-ordinate Reference:	Well MALDIVES 15-27 FED COM 235H
Project:	Eddy County, NM (NAD83)	TVD Reference:	30' KB @ 3451.0usft
Site:	S10-T23S-T31E	MD Reference:	30' KB @ 3451.0usft
Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
20,776.0	87.50	182.80	10,075.0	-10,944.1	-318.3	10,942.2	0.64	0.63	0.11
20,872.0	88.10	182.40	10,078.7	-11,039.9	-322.6	11,038.0	0.75	0.63	-0.42
20,967.0	88.30	182.10	10,081.6	-11,134.8	-326.3	11,132.8	0.38	0.21	-0.32
21,062.0	89.70	181.90	10,083.3	-11,229.7	-329.7	11,227.7	1.49	1.47	-0.21
21,158.0	90.80	181.40	10,082.9	-11,325.7	-332.4	11,323.7	1.26	1.15	-0.52
21,254.0	90.90	181.70	10,081.5	-11,421.6	-335.0	11,419.6	0.33	0.10	0.31
21,349.0	89.10	180.50	10,081.5	-11,516.6	-336.8	11,514.6	2.28	-1.89	-1.26
21,445.0	92.00	181.10	10,080.5	-11,612.6	-338.2	11,610.6	3.08	3.02	0.63
21,541.0	92.30	181.00	10,076.9	-11,708.5	-339.9	11,706.5	0.33	0.31	-0.10
21,636.0	90.30	180.40	10,074.8	-11,803.4	-341.1	11,801.4	2.20	-2.11	-0.63
21,731.0	91.30	179.60	10,073.4	-11,898.4	-341.1	11,896.4	1.35	1.05	-0.84
21,827.0	92.80	178.30	10,070.0	-11,994.3	-339.3	11,992.3	2.07	1.56	-1.35
21,922.0	94.20	178.00	10,064.2	-12,089.1	-336.3	12,087.1	1.51	1.47	-0.32
22,018.0	93.50	177.80	10,057.8	-12,184.8	-332.8	12,182.9	0.76	-0.73	-0.21
22,113.0	94.50	177.70	10,051.1	-12,279.5	-329.1	12,277.6	1.06	1.05	-0.11
22,208.0	93.00	178.00	10,044.9	-12,374.3	-325.5	12,372.3	1.61	-1.58	0.32
22,304.0	91.90	179.20	10,040.8	-12,470.1	-323.2	12,468.2	1.69	-1.15	1.25
22,399.0	90.90	179.70	10,038.5	-12,565.1	-322.2	12,563.2	1.18	-1.05	0.53
22,494.0	89.70	179.10	10,038.0	-12,660.1	-321.2	12,658.2	1.41	-1.26	-0.63
22,590.0	90.40	180.30	10,037.9	-12,756.1	-320.7	12,754.2	1.45	0.73	1.25
22,685.0	89.20	181.20	10,038.3	-12,851.1	-322.0	12,849.1	1.58	-1.26	0.95
22,780.0	90.00	180.30	10,038.9	-12,946.1	-323.2	12,944.1	1.27	0.84	-0.95
22,876.0	88.60	179.80	10,040.1	-13,042.1	-323.3	13,040.1	1.55	-1.46	-0.52
22,971.0	89.40	179.60	10,041.7	-13,137.0	-322.8	13,135.1	0.87	0.84	-0.21
23,066.0	90.80	179.50	10,041.6	-13,232.0	-322.1	13,230.1	1.48	1.47	-0.11
23,161.0	89.90	179.90	10,041.0	-13,327.0	-321.6	13,325.1	1.04	-0.95	0.42
23,257.0	89.80	180.40	10,041.3	-13,423.0	-321.8	13,421.1	0.53	-0.10	0.52
23,353.0	91.30	180.70	10,040.3	-13,519.0	-322.7	13,517.1	1.59	1.56	0.31
23,448.0	90.40	180.90	10,038.9	-13,614.0	-324.1	13,612.0	0.97	-0.95	0.21
23,543.0	89.80	180.90	10,038.8	-13,709.0	-325.6	13,707.0	0.63	-0.63	0.00
23,639.0	88.20	181.10	10,040.4	-13,804.9	-327.2	13,803.0	1.68	-1.67	0.21
23,734.0	89.00	180.90	10,042.8	-13,899.9	-328.9	13,897.9	0.87	0.84	-0.21
23,829.0	90.30	179.90	10,043.3	-13,994.9	-329.6	13,992.9	1.73	1.37	-1.05
23,925.0	88.10	180.40	10,044.7	-14,090.9	-329.8	14,088.9	2.35	-2.29	0.52
24,020.0	88.30	179.90	10,047.7	-14,185.8	-330.1	14,183.8	0.57	0.21	-0.53
24,116.0	86.90	178.50	10,051.7	-14,281.7	-328.7	14,279.7	2.06	-1.46	-1.46
24,211.0	91.60	179.40	10,052.9	-14,376.7	-327.0	14,374.7	5.04	4.95	0.95
24,307.0	90.20	180.40	10,051.4	-14,472.7	-326.8	14,470.7	1.79	-1.46	1.04
24,402.0	90.60	181.00	10,050.8	-14,567.7	-328.0	14,565.7	0.76	0.42	0.63
24,497.0	90.20	180.50	10,050.1	-14,662.6	-329.2	14,660.7	0.67	-0.42	-0.53
24,593.0	94.20	181.00	10,046.4	-14,758.6	-330.5	14,756.5	4.20	4.17	0.52
24,688.0	90.50	181.20	10,042.5	-14,853.4	-332.3	14,851.4	3.90	-3.89	0.21
24,784.0	90.80	181.00	10,041.4	-14,949.4	-334.1	14,947.4	0.38	0.31	-0.21

Company:	Devon Energy	Local Co-ordinate Reference:	Well MALDIVES 15-27 FED COM 235H
Project:	Eddy County, NM (NAD83)	TVD Reference:	30' KB @ 3451.0usft
Site:	S10-T23S-T31E	MD Reference:	30' KB @ 3451.0usft
Well:	MALDIVES 15-27 FED COM 235H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User 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)
24,879.0	93.40	180.40	10,037.9	-15,044.3	-335.3	15,042.3	2.81	2.74	-0.63
24,974.0	91.80	179.60	10,033.6	-15,139.2	-335.3	15,137.2	1.88	-1.68	-0.84
25,070.0	89.80	179.60	10,032.3	-15,235.2	-334.6	15,233.2	2.08	-2.08	0.00
25,165.0	90.70	179.60	10,031.9	-15,330.2	-334.0	15,328.2	0.95	0.95	0.00
25,261.0	89.10	179.80	10,032.0	-15,426.2	-333.5	15,424.2	1.68	-1.67	0.21
25,356.0	89.40	179.80	10,033.3	-15,521.2	-333.1	15,519.2	0.32	0.32	0.00
25,452.0	89.30	179.40	10,034.4	-15,617.2	-332.5	15,615.2	0.43	-0.10	-0.42
25,513.0	89.40	178.90	10,035.1	-15,678.2	-331.6	15,676.2	0.84	0.16	-0.82
LAST SURVEY - 25513.0' MD									
25,570.0	89.40	178.90	10,035.7	-15,735.2	-330.5	15,733.1	0.00	0.00	0.00
PTB - 25570.0' MD (128 FSL, 1160 FEL) - MALDIVES 235H BHL (20 FSL, 1130 FEL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MALDIVES 235H VP (20' KB @ 3451.0usft)	0.00	0.00	8,100.0	-37.3	-384.9	477,597.47	718,220.04	32.311690	-103.760782
- hit/miss target									
- Shape									
- actual wellpath misses target center by 11.4usft at 8113.6usft MD (8100.0 TVD, -27.5 N, -379.1 E)									
- Point									
MALDIVES 235H BHL (20' KB @ 3451.0usft)	0.00	0.00	10,060.0	-15,843.0	-299.6	461,791.77	718,305.30	32.268243	-103.760779
- hit/miss target									
- Shape									
- actual wellpath misses target center by 114.8usft at 25570.0usft MD (10035.7 TVD, -15735.2 N, -330.5 E)									
- Point									
MALDIVES 235H FTP (20' KB @ 3451.0usft)	0.00	0.00	10,093.0	-117.3	-384.2	477,517.50	718,220.73	32.311470	-103.760781
- hit/miss target									
- Shape									
- actual wellpath misses target center by 184.1usft at 10037.0usft MD (9960.1 TVD, -244.5 N, -379.2 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,492.0	9,478.2	-29.4	-393.2	KOP - 9492.0' (12 FNL, 1138 FEL)
9,839.5	9,810.5	-117.3	-393.4	CROSS 100 FNL
15,125.8	10,093.6	-5,297.5	-341.4	CROSS INTO SEC 22
20,410.8	10,061.9	-10,579.6	-300.7	CROSS INTO SEC 27
25,513.0	10,035.1	-15,678.2	-331.6	LAST SURVEY - 25513.0' MD
25,570.0	10,035.7	-15,735.2	-330.5	PTB - 25570.0' MD (128 FSL, 1160 FEL)

Checked By: _____	Approved By: _____	Date: _____
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