



Final MWD Survey Certification

County, State: Lea County, New Mexico

Client: Devon Energy

Well Name: Flagler 8 Federal #41H

API No: 30-025-45000

Start Date: 10/24/2019

End Date: 11/02/2019

Measure Start Depth: 146.00'

Measured End Depth: 14374.00'

Vertical Section from SHL to TD: 353.12° Azm

HOBBS OCD

FEB 21 2020

RECEIVED

I, Jason Turner, MWD Coordinator, hereby certify that; I am employed by Newsco International Energy Services, Inc. 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 Newsco International Energy Services, Inc. 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 Newsco International Energy Services, Inc.

Date: 02/18/2020

Sign: *Jason Turner*



HOBBS OCD

FEB 21 2020

RECEIVED

Devon Energy

Lea County, NM (N83-NME)

Sec 8-T25S-R33E

Flagler 8 Federal #41H

Wellbore #1

Survey: Survey #1

Standard Survey Report

18 February, 2020





Survey Report



Company: Devon Energy
Project: Lea County, NM (N83-NME)
Site: Sec 8-T25S-R33E
Well: Flagler 8 Federal #41H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Flagler 8 Federal #41H
TVD Reference: RKB (GL+24') @ 3456.00usft (Cactus 168)
MD Reference: RKB (GL+24') @ 3456.00usft (Cactus 168)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Project	Lea County, NM (N83-NME)		
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 8-T25S-R33E		
Site Position:		Northing:	415,064.83 usft
From:	Map	Easting:	772,062.18 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 20.029 N
		Longitude:	103° 35' 16.493 W
		Grid Convergence:	0.40 °

Well	Flagler 8 Federal #41H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 8' 20.029 N
		Longitude:	103° 35' 16.493 W
		Ground Level:	3,432.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	09/12/19	6.71
		Dip Angle (°)	59.95
		Field Strength (nT)	47,655.93

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			353.12

Survey Program	Date 02/18/20		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
146.00	14,428.00	Survey #1 (Wellbore #1)	MWD
			Description
			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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.00	0.40	170.00	146.00	-0.50	0.09	-0.51	0.27	0.27	0.00
206.00	0.70	154.00	206.00	-1.04	0.29	-1.06	0.56	0.50	-26.67
297.00	0.70	179.60	296.99	-2.09	0.53	-2.14	0.34	0.00	28.13
389.00	0.80	164.00	388.98	-3.27	0.71	-3.33	0.25	0.11	-16.96
479.00	0.90	165.20	478.97	-4.56	1.07	-4.65	0.11	0.11	1.33
571.00	1.00	180.20	570.96	-6.06	1.25	-6.17	0.29	0.11	16.30
663.00	0.90	177.60	662.95	-7.59	1.28	-7.68	0.12	-0.11	-2.83
755.00	1.10	177.10	754.93	-9.19	1.35	-9.29	0.22	0.22	-0.54
846.00	1.10	185.00	845.92	-10.93	1.32	-11.01	0.17	0.00	8.68



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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)
937.00	1.00	180.50	936.90	-12.60	1.24	-12.65	0.14	-0.11	-4.95
952.00	1.00	169.50	951.90	-12.86	1.26	-12.91	1.28	0.00	-73.33
1,072.00	1.00	180.40	1,071.88	-14.93	1.44	-15.00	0.16	0.00	9.08
1,164.00	0.80	175.60	1,163.87	-16.38	1.49	-16.44	0.23	-0.22	-5.22
1,256.00	0.50	168.50	1,255.86	-17.41	1.62	-17.48	0.34	-0.33	-7.72
1,347.00	0.40	176.70	1,346.86	-18.12	1.71	-18.19	0.13	-0.11	9.01
1,438.00	0.60	166.00	1,437.86	-18.90	1.85	-18.98	0.24	0.22	-11.76
1,531.00	0.50	214.80	1,530.85	-19.70	1.73	-19.77	0.50	-0.11	52.47
1,622.00	0.40	194.80	1,621.85	-20.33	1.43	-20.36	0.20	-0.11	-21.98
1,716.00	1.00	228.90	1,715.84	-21.19	0.72	-21.12	0.75	0.64	36.28
1,810.00	1.00	214.80	1,809.83	-22.40	-0.36	-22.20	0.26	0.00	-15.00
1,905.00	0.80	224.10	1,904.82	-23.56	-1.30	-23.24	0.26	-0.21	9.79
1,999.00	1.00	231.40	1,998.81	-24.54	-2.39	-24.08	0.24	0.21	7.77
2,094.00	1.10	236.90	2,093.79	-25.56	-3.81	-24.92	0.15	0.11	5.79
2,188.00	1.10	241.10	2,187.77	-26.49	-5.35	-25.66	0.09	0.00	4.47
2,281.00	1.10	248.70	2,280.75	-27.24	-6.97	-26.21	0.16	0.00	8.17
2,377.00	1.10	260.10	2,376.74	-27.74	-8.73	-26.49	0.23	0.00	11.88
2,470.00	1.00	267.80	2,469.72	-27.92	-10.42	-26.47	0.19	-0.11	8.28
2,564.00	1.50	307.80	2,563.70	-27.20	-12.21	-25.54	1.04	0.53	42.55
2,658.00	1.00	263.40	2,657.68	-26.54	-14.00	-24.67	1.12	-0.53	-47.23
2,752.00	1.10	266.90	2,751.66	-26.68	-15.72	-24.61	0.13	0.11	3.72
2,845.00	0.90	289.40	2,844.65	-26.49	-17.30	-24.22	0.47	-0.22	24.19
2,939.00	1.10	292.50	2,938.64	-25.90	-18.83	-23.45	0.22	0.21	3.30
3,035.00	1.10	0.00	3,034.62	-24.62	-19.68	-22.09	1.27	0.00	70.31
3,129.00	1.80	273.20	3,128.60	-23.64	-21.15	-20.93	2.19	0.74	-92.34
3,224.00	3.70	260.40	3,223.49	-24.07	-25.67	-20.82	2.09	2.00	-13.47
3,318.00	5.60	261.00	3,317.17	-25.29	-33.19	-21.13	2.02	2.02	0.64
3,412.00	7.60	256.10	3,410.55	-27.50	-43.75	-22.06	2.21	2.13	-5.21
3,506.00	8.40	245.40	3,503.64	-31.85	-56.03	-24.91	1.79	0.85	-11.38
3,601.00	8.70	245.20	3,597.58	-37.75	-68.86	-29.23	0.32	0.32	-0.21
3,696.00	8.80	246.10	3,691.47	-43.71	-82.03	-33.57	0.18	0.11	0.95
3,791.00	8.40	248.20	3,785.41	-49.23	-95.11	-37.48	0.54	-0.42	2.21
3,885.00	6.90	235.80	3,878.57	-54.96	-106.16	-41.84	2.36	-1.60	-13.19
3,980.00	6.60	235.00	3,972.92	-61.30	-115.35	-47.04	0.33	-0.32	-0.84
4,074.00	6.20	236.50	4,066.33	-67.20	-124.01	-51.86	0.46	-0.43	1.60
4,167.00	5.90	236.60	4,158.81	-72.60	-132.19	-56.24	0.32	-0.32	0.11
4,262.00	5.30	237.30	4,253.36	-77.66	-139.96	-60.33	0.64	-0.63	0.74
4,356.00	4.70	229.20	4,347.00	-82.52	-146.52	-64.37	0.98	-0.64	-8.62
4,450.00	5.90	230.30	4,440.60	-88.12	-153.16	-69.14	1.28	1.28	1.17
4,544.00	5.80	229.00	4,534.11	-94.32	-160.46	-74.42	0.18	-0.11	-1.38
4,639.00	5.50	222.80	4,628.65	-100.81	-167.18	-80.06	0.72	-0.32	-6.53
4,733.00	5.40	215.70	4,722.22	-107.71	-172.82	-86.23	0.72	-0.11	-7.55
4,828.00	5.10	212.60	4,816.82	-114.90	-177.70	-92.78	0.43	-0.32	-3.26
4,922.00	5.90	220.40	4,910.39	-122.10	-183.08	-99.29	1.16	0.85	8.30



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5,011.00	5.50	221.90	4,998.95	-128.76	-188.90	-105.20	0.48	-0.45	1.69
5,099.00	5.20	221.50	5,086.57	-134.88	-194.36	-110.63	0.34	-0.34	-0.45
5,193.00	4.80	224.00	5,180.21	-140.90	-199.91	-115.94	0.48	-0.43	2.66
5,288.00	7.00	227.30	5,274.70	-147.69	-206.93	-121.84	2.34	2.32	3.47
5,382.00	7.10	227.00	5,367.99	-155.53	-215.38	-128.61	0.11	0.11	-0.32
5,476.00	6.80	228.80	5,461.30	-163.16	-223.82	-135.17	0.39	-0.32	1.91
5,572.00	6.30	229.30	5,556.67	-170.34	-232.09	-141.31	0.52	-0.52	0.52
5,667.00	7.30	238.50	5,651.01	-176.89	-241.19	-146.73	1.55	1.05	9.68
5,762.00	7.40	241.70	5,745.23	-182.95	-251.72	-151.47	0.44	0.11	3.37
5,856.00	7.20	240.20	5,838.46	-188.74	-262.16	-155.98	0.29	-0.21	-1.60
5,951.00	6.90	238.60	5,932.75	-194.67	-272.20	-160.67	0.38	-0.32	-1.68
6,045.00	7.60	245.50	6,026.00	-200.19	-282.68	-164.89	1.19	0.74	7.34
6,139.00	7.60	245.40	6,119.17	-205.36	-293.98	-168.66	0.01	0.00	-0.11
6,233.00	7.50	244.40	6,212.36	-210.60	-305.17	-172.53	0.18	-0.11	-1.06
6,326.00	7.20	242.10	6,304.59	-215.95	-315.79	-176.56	0.45	-0.32	-2.47
6,420.00	8.90	248.50	6,397.66	-221.37	-327.76	-180.51	2.04	1.81	6.81
6,515.00	9.10	247.50	6,491.49	-226.94	-341.54	-184.39	0.27	0.21	-1.05
6,610.00	9.20	246.60	6,585.29	-232.83	-355.45	-188.57	0.18	0.11	-0.95
6,704.00	9.20	247.60	6,678.08	-238.68	-369.30	-192.72	0.17	0.00	1.06
6,799.00	8.20	246.20	6,771.98	-244.31	-382.52	-196.72	1.08	-1.05	-1.47
6,894.00	8.40	246.60	6,865.99	-249.79	-395.08	-200.67	0.22	0.21	0.42
6,988.00	7.70	244.30	6,959.06	-255.25	-407.06	-204.65	0.82	-0.74	-2.45
7,083.00	7.00	244.40	7,053.28	-260.51	-418.02	-208.56	0.74	-0.74	0.11
7,178.00	7.00	244.40	7,147.57	-265.52	-428.46	-212.28	0.00	0.00	0.00
7,272.00	7.00	242.50	7,240.87	-270.64	-438.70	-216.14	0.25	0.00	-2.02
7,367.00	7.00	242.40	7,335.16	-275.99	-448.97	-220.22	0.01	0.00	-0.11
7,462.00	6.70	242.80	7,429.48	-281.21	-459.03	-224.19	0.32	-0.32	0.42
7,557.00	6.70	241.80	7,523.84	-286.36	-468.84	-228.13	0.12	0.00	-1.05
7,652.00	6.20	238.60	7,618.23	-291.65	-478.10	-232.28	0.65	-0.53	-3.37
7,746.00	7.00	238.10	7,711.61	-297.32	-487.30	-236.81	0.85	0.85	-0.53
7,840.00	6.40	238.90	7,804.97	-303.05	-496.65	-241.38	0.65	-0.64	0.85
7,933.00	7.90	237.50	7,897.24	-309.17	-506.48	-246.27	1.62	1.61	-1.51
8,027.00	7.30	237.20	7,990.42	-315.87	-516.94	-251.67	0.64	-0.64	-0.32
8,121.00	6.50	240.80	8,083.74	-321.70	-526.61	-256.30	0.97	-0.85	3.83
8,214.00	6.00	236.80	8,176.18	-326.93	-535.27	-260.46	0.71	-0.54	-4.30
8,308.00	6.10	238.10	8,269.66	-332.26	-543.62	-264.75	0.18	0.11	1.38
8,403.00	5.50	234.50	8,364.17	-337.57	-551.61	-269.06	0.74	-0.63	-3.79
8,498.00	5.40	232.00	8,458.74	-342.97	-558.84	-273.56	0.27	-0.11	-2.63
8,592.00	4.20	236.90	8,552.41	-347.57	-565.21	-277.36	1.35	-1.28	5.21
8,685.00	2.90	259.80	8,645.24	-349.85	-570.38	-279.00	2.04	-1.40	24.62
8,780.00	0.80	197.70	8,740.19	-350.91	-572.95	-279.75	2.76	-2.21	-65.37
8,875.00	0.90	187.00	8,835.18	-352.28	-573.24	-281.07	0.20	0.11	-11.26
8,969.00	1.10	298.50	8,929.17	-352.58	-574.12	-281.27	1.76	0.21	118.62



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9,046.00	1.10	289.40	9,006.16	-351.98	-575.47	-280.51	0.23	0.00	-11.82
9,106.00	3.10	345.10	9,066.12	-350.22	-576.43	-278.65	4.40	3.33	92.83
9,201.00	16.80	17.40	9,159.50	-334.56	-572.97	-263.51	15.02	14.42	34.00
9,295.00	29.90	11.80	9,245.63	-298.50	-564.07	-228.78	14.12	13.94	-5.96
9,389.00	43.90	2.20	9,320.67	-242.68	-558.00	-174.09	16.07	14.89	-10.21
9,484.00	50.20	359.80	9,385.37	-173.20	-556.86	-105.24	6.88	6.63	-2.53
9,578.00	53.70	359.20	9,443.30	-99.19	-557.51	-31.69	3.76	3.72	-0.64
9,673.00	57.60	357.50	9,496.90	-20.81	-559.80	46.40	4.36	4.11	-1.79
9,767.00	64.90	358.20	9,542.08	61.49	-562.87	128.47	7.79	7.77	0.74
9,861.00	74.70	358.40	9,574.50	149.56	-565.48	216.22	10.43	10.43	0.21
9,956.00	81.90	359.20	9,593.75	242.50	-567.42	308.73	7.62	7.58	0.84
10,050.00	84.40	359.40	9,604.96	335.82	-568.56	401.51	2.67	2.66	0.21
10,144.00	84.80	358.90	9,613.81	429.39	-569.95	494.57	0.68	0.43	-0.53
10,238.00	89.30	358.60	9,618.64	523.22	-571.99	587.97	4.80	4.79	-0.32
10,332.00	90.30	358.40	9,618.97	617.19	-574.46	681.56	1.08	1.06	-0.21
10,426.00	91.00	357.70	9,617.91	711.12	-577.65	775.20	1.05	0.74	-0.74
10,520.00	93.20	357.10	9,614.46	804.96	-581.91	868.87	2.43	2.34	-0.64
10,615.00	91.20	358.30	9,610.81	898.81	-585.72	963.49	2.45	-2.11	1.26
10,709.00	89.50	359.30	9,610.24	993.78	-587.69	1,057.02	2.10	-1.81	1.06
10,803.00	89.90	359.50	9,610.73	1,087.77	-588.68	1,150.46	0.48	0.43	0.21
10,898.00	89.60	358.50	9,611.15	1,182.76	-590.33	1,244.95	1.10	-0.32	-1.05
10,993.00	90.20	357.10	9,611.31	1,277.68	-593.98	1,339.64	1.60	0.63	-1.47
11,087.00	89.70	1.00	9,611.40	1,371.65	-595.54	1,433.11	4.18	-0.53	4.15
11,181.00	91.20	359.10	9,610.66	1,465.64	-595.46	1,526.42	2.58	1.60	-2.02
11,275.00	92.50	357.10	9,607.62	1,559.53	-598.57	1,620.01	2.54	1.38	-2.13
11,370.00	91.10	359.50	9,604.64	1,654.44	-601.39	1,714.56	2.92	-1.47	2.53
11,465.00	90.30	2.80	9,603.48	1,749.40	-599.48	1,808.61	3.57	-0.84	3.47
11,560.00	90.80	3.00	9,602.56	1,844.27	-594.67	1,902.23	0.57	0.53	0.21
11,655.00	90.80	3.10	9,601.24	1,939.13	-589.62	1,995.79	0.11	0.00	0.11
11,750.00	89.80	2.10	9,600.74	2,034.02	-585.31	2,089.49	1.49	-1.05	-1.05
11,844.00	90.00	2.60	9,600.90	2,127.94	-581.46	2,182.27	0.57	0.21	0.53
11,937.00	87.70	1.00	9,602.77	2,220.87	-578.54	2,274.18	3.01	-2.47	-1.72
12,031.00	87.00	0.70	9,607.12	2,314.76	-577.14	2,367.23	0.81	-0.74	-0.32
12,125.00	89.20	359.10	9,610.23	2,408.70	-577.31	2,460.51	2.89	2.34	-1.70
12,220.00	92.20	359.20	9,609.07	2,503.67	-578.72	2,554.97	3.16	3.16	0.11
12,314.00	93.80	359.70	9,604.15	2,597.53	-579.62	2,648.26	1.78	1.70	0.53
12,408.00	91.00	0.20	9,600.22	2,691.44	-579.70	2,741.50	3.03	-2.98	0.53
12,502.00	90.90	0.60	9,598.66	2,785.43	-579.04	2,834.73	0.44	-0.11	0.43
12,596.00	91.00	0.60	9,597.10	2,879.41	-578.06	2,927.92	0.11	0.11	0.00
12,690.00	90.90	0.20	9,595.54	2,973.39	-577.40	3,021.15	0.44	-0.11	-0.43
12,783.00	91.40	0.30	9,593.68	3,066.37	-577.00	3,113.41	0.55	0.54	0.11
12,878.00	90.80	1.00	9,591.85	3,161.35	-575.92	3,207.57	0.97	-0.63	0.74
12,972.00	91.90	0.60	9,589.64	3,255.31	-574.61	3,300.70	1.25	1.17	-0.43



Survey Report



Company: Devon Energy
Project: Lea County, NM (N83-NME)
Site: Sec 8-T25S-R33E
Well: Flagler 8 Federal #41H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Flagler 8 Federal #41H
TVD Reference: RKB (GL+24') @ 3456.00usft (Cactus 168)
MD Reference: RKB (GL+24') @ 3456.00usft (Cactus 168)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
13,066.00	90.40	0.80	9,587.75	3,349.28	-573.46	3,393.86	1.61	-1.60	0.21
13,159.00	91.20	1.60	9,586.45	3,442.25	-571.51	3,485.93	1.22	0.86	0.86
13,253.00	87.80	1.30	9,587.27	3,536.20	-569.13	3,578.92	3.63	-3.62	-0.32
13,346.00	87.70	0.90	9,590.92	3,629.11	-567.35	3,670.95	0.44	-0.11	-0.43
13,440.00	89.20	359.20	9,593.47	3,723.07	-567.27	3,764.22	2.41	1.60	-1.81
13,533.00	89.30	359.20	9,594.68	3,816.06	-568.57	3,856.69	0.11	0.11	0.00
13,627.00	88.90	358.90	9,596.16	3,910.03	-570.12	3,950.17	0.53	-0.43	-0.32
13,720.00	92.30	358.40	9,595.19	4,002.99	-572.31	4,042.72	3.70	3.66	-0.54
13,812.00	91.80	358.40	9,591.90	4,094.89	-574.88	4,134.27	0.54	-0.54	0.00
13,907.00	92.70	359.30	9,588.17	4,189.80	-576.79	4,228.72	1.34	0.95	0.95
14,001.00	92.80	359.50	9,583.66	4,283.68	-577.77	4,322.05	0.24	0.11	0.21
14,094.00	89.80	359.50	9,581.55	4,376.65	-578.58	4,414.44	3.23	-3.23	0.00
14,189.00	90.80	359.20	9,581.05	4,471.64	-579.66	4,508.88	1.10	1.05	-0.32
14,283.00	91.40	359.60	9,579.24	4,565.61	-580.64	4,602.29	0.77	0.64	0.43
14,374.00	91.10	359.20	9,577.26	4,656.59	-581.60	4,692.73	0.55	-0.33	-0.44
Last Survey - 14374.00' MD, 9577.26' TVD									
14,428.00	91.10	359.20	9,576.22	4,710.57	-582.35	4,746.41	0.00	0.00	0.00
PTB									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,374.00	9,577.26	4,656.59	-581.60	Last Survey - 14374.00' MD, 9577.26' TVD
14,428.00	9,576.22	4,710.57	-582.35	PTB