



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **06/16/19** thru **08/03/19** conduct or supervise the taking of a **MWD Survey** from a depth of **69'** to a depth of **20691'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Green Wave 20-17 #5H** API No. **30-025-46017** in **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 **Wellbenders Directional Services**.

Larry Wright

HOBBS OCD
JAN 14 2020
RECEIVED

*1125 Beach Airport Rd, Conroe, Texas
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Devon Energy

Lea Co., NM (Nad83 - East Zone)

Green Wave 20-17

#5H

OH

Design: OH

End Of Well Report

05 August, 2019



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Green Wave 20-17
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: RKB=30' @ 3377.70usft (Cactus 108)
MD Reference: RKB=30' @ 3377.70usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Project	Lea Co., NM (Nad83 - East Zone)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Green Wave 20-17		
Site Position:		Northing:	375,465.84 usft
From:	Map	Easting:	803,724.74 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.029409
		Longitude:	-103.486634
		Grid Convergence:	0.449 °

Well	#5H					
Well Position	+N/-S	0.00 usft	Northing:	375,465.89 usft	Latitude:	32.029408
	+E/-W	0.00 usft	Easting:	803,754.71 usft	Longitude:	-103.486537
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,347.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	7/15/2019	6.674	59.870	47,618.74863314

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	359.51	

Survey Program	Date	8/5/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
69.00	20,691.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69.00	0.31	165.41	69.00	-0.18	0.05	-0.18	69.00	165.41	0.45
131.00	0.35	284.32	131.00	-0.30	-0.09	-0.30	62.00	230.73	0.92
263.00	0.22	349.01	263.00	0.05	-0.53	0.06	132.00	308.45	0.25
355.00	0.35	314.38	355.00	0.42	-0.77	0.43	92.00	327.63	0.23
447.00	0.44	324.32	446.99	0.91	-1.17	0.92	92.00	319.92	0.12
539.00	0.48	2.90	538.99	1.58	-1.36	1.59	92.00	344.48	0.33
633.00	0.66	349.19	632.99	2.50	-1.44	2.51	94.00	354.96	0.24
725.00	0.57	336.97	724.98	3.44	-1.72	3.46	92.00	343.53	0.17
875.00	0.97	351.30	874.97	5.39	-2.21	5.40	150.00	346.01	0.29
1,059.00	1.27	89.74	1,058.95	6.93	-0.40	6.94	184.00	49.34	0.93
1,244.00	3.16	116.89	1,243.80	4.64	6.20	4.58	185.00	109.19	1.14
1,430.00	5.71	124.19	1,429.23	-2.88	18.43	-3.04	186.00	121.59	1.40
1,524.00	6.51	125.42	1,522.70	-8.60	26.64	-8.83	94.00	124.85	0.86
1,619.00	6.51	126.21	1,617.09	-14.90	35.37	-15.20	95.00	125.81	0.09
1,713.00	6.42	125.68	1,710.49	-21.11	43.94	-21.49	94.00	125.95	0.11
1,807.00	6.33	125.33	1,803.91	-27.18	52.43	-27.62	94.00	125.51	0.10
1,902.00	6.33	123.75	1,898.33	-33.11	61.06	-33.63	95.00	124.54	0.18
1,996.00	6.51	122.69	1,991.74	-38.87	69.86	-39.47	94.00	123.21	0.23
2,091.00	6.42	123.05	2,086.13	-44.68	78.84	-45.35	95.00	122.87	0.10
2,186.00	6.59	121.82	2,180.52	-50.45	87.92	-51.20	95.00	122.43	0.23
2,281.00	6.68	121.46	2,274.89	-56.20	97.27	-57.03	95.00	121.64	0.10
2,375.00	6.99	120.58	2,368.22	-61.97	106.86	-62.88	94.00	121.01	0.35
2,470.00	7.25	119.53	2,462.49	-67.86	117.05	-68.86	95.00	120.05	0.31
2,564.00	7.52	119.79	2,555.71	-73.84	127.55	-74.93	94.00	119.66	0.29
2,659.00	7.60	120.23	2,649.88	-80.09	138.37	-81.27	95.00	120.01	0.10
2,753.00	7.82	121.02	2,743.03	-86.52	149.22	-87.79	94.00	120.63	0.26



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Design: OH

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Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
2,848.00	8.04	123.75	2,837.12	-93.54	160.28	-94.91	95.00	122.40	0.46
2,942.00	7.91	124.98	2,930.21	-100.90	171.05	-102.36	94.00	124.36	0.23
3,037.00	7.96	127.18	3,024.30	-108.62	181.65	-110.17	95.00	126.08	0.32
3,131.00	7.78	128.06	3,117.42	-116.48	191.84	-118.12	94.00	127.61	0.23
3,226.00	7.74	130.08	3,211.55	-124.56	201.80	-126.28	95.00	129.07	0.29
3,321.00	7.82	131.22	3,305.67	-132.94	211.56	-134.74	95.00	130.65	0.18
3,416.00	7.91	131.48	3,399.78	-141.53	221.31	-143.42	95.00	131.35	0.10
3,510.00	7.78	134.56	3,492.90	-150.28	230.69	-152.24	94.00	133.01	0.47
3,605.00	7.43	140.62	3,587.07	-159.54	239.17	-161.58	95.00	137.52	0.92
3,700.00	7.47	143.96	3,681.26	-169.28	246.70	-171.38	95.00	142.29	0.46
3,795.00	6.42	135.53	3,775.57	-178.06	254.06	-180.23	95.00	140.06	1.54
3,890.00	6.33	127.18	3,869.98	-185.02	261.95	-187.25	95.00	131.38	0.98
3,984.00	6.77	120.15	3,963.37	-190.93	270.87	-193.24	94.00	123.55	0.97
4,078.00	6.07	121.90	4,056.78	-198.34	279.88	-198.73	94.00	120.98	0.77
4,172.00	5.67	118.12	4,150.29	-201.16	288.20	-203.61	94.00	120.07	0.59
4,265.00	5.05	116.89	4,242.88	-205.17	295.90	-207.70	93.00	117.54	0.68
4,359.00	4.79	113.29	4,336.54	-208.60	303.19	-211.18	94.00	115.14	0.43
4,454.00	4.22	111.80	4,431.24	-211.46	310.08	-214.11	95.00	112.59	0.61
4,548.00	3.21	111.44	4,525.04	-213.71	315.74	-216.40	94.00	111.64	1.07
4,643.00	2.64	107.75	4,619.92	-215.35	320.30	-218.08	95.00	109.77	0.63
4,737.00	2.11	105.03	4,713.84	-216.46	324.04	-219.22	94.00	106.54	0.58
4,831.00	2.99	107.05	4,807.74	-217.62	328.05	-220.42	94.00	106.21	0.94
4,926.00	3.78	92.72	4,902.58	-218.50	333.55	-221.34	95.00	99.05	1.21
5,020.00	1.93	106.35	4,996.46	-219.09	338.16	-221.98	94.00	97.32	2.08
5,114.00	1.67	127.00	5,090.41	-220.36	340.77	-223.27	94.00	115.92	0.74
5,209.00	1.45	133.33	5,185.38	-222.02	342.75	-224.94	95.00	129.94	0.29
5,303.00	1.19	134.03	5,279.35	-223.51	344.32	-226.45	94.00	133.65	0.28



Wellbenders End Of Well Report

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
5,398.00	0.70	136.32	5,374.34	-224.62	345.43	-227.56	95.00	134.88	0.52
5,493.00	0.62	140.89	5,469.33	-225.44	346.16	-228.39	95.00	138.47	0.10
5,587.00	0.62	149.06	5,563.33	-226.27	346.74	-229.23	94.00	144.97	0.09
5,682.00	0.62	134.30	5,658.32	-227.07	347.37	-230.03	95.00	141.68	0.17
5,777.00	0.62	134.56	5,753.32	-227.79	348.10	-230.76	95.00	134.43	0.00
5,871.00	0.62	134.47	5,847.31	-228.50	348.83	-231.48	94.00	134.52	0.00
5,966.00	0.57	136.76	5,942.31	-229.21	349.52	-232.19	95.00	135.57	0.06
6,060.00	0.48	146.34	6,036.30	-229.87	350.06	-232.86	94.00	141.14	0.13
6,155.00	0.53	134.82	6,131.30	-230.51	350.59	-233.50	95.00	140.29	0.12
6,250.00	0.57	125.86	6,226.29	-231.10	351.29	-234.10	95.00	130.18	0.10
6,344.00	0.79	194.24	6,320.29	-232.00	351.51	-235.00	94.00	166.32	0.84
6,439.00	1.27	217.26	6,415.27	-233.48	350.71	-236.47	95.00	208.47	0.66
6,533.00	1.32	221.75	6,509.25	-235.11	349.36	-238.09	94.00	219.55	0.12
6,628.00	1.19	226.14	6,604.23	-236.61	347.92	-239.58	95.00	223.83	0.17
6,723.00	1.14	231.85	6,699.21	-237.88	346.46	-240.83	95.00	228.93	0.13
6,817.00	1.19	230.98	6,793.19	-239.07	344.97	-242.01	94.00	231.41	0.06
6,912.00	1.14	231.68	6,888.17	-240.28	343.46	-243.21	95.00	231.32	0.05
7,007.00	1.14	232.21	6,983.15	-241.44	341.97	-244.36	95.00	231.94	0.01
7,101.00	1.10	235.63	7,077.13	-242.53	340.49	-245.43	94.00	233.89	0.08
7,196.00	1.01	240.47	7,172.12	-243.45	339.01	-246.34	95.00	237.95	0.13
7,291.00	0.84	235.19	7,267.10	-244.26	337.71	-247.14	95.00	238.07	0.20
7,385.00	0.84	243.19	7,361.09	-244.97	336.53	-247.84	94.00	239.19	0.12
7,480.00	0.84	242.14	7,456.08	-245.61	335.29	-248.47	95.00	242.67	0.02
7,574.00	0.79	238.62	7,550.07	-246.27	334.13	-249.12	94.00	240.43	0.08
7,670.00	0.70	234.93	7,646.07	-246.95	333.08	-249.79	96.00	236.89	0.11
7,765.00	0.84	232.91	7,741.06	-247.70	332.05	-250.53	95.00	233.83	0.15
7,859.00	0.88	223.59	7,835.05	-248.64	331.00	-251.46	94.00	228.14	0.15



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10,510.00	0.97	291.88	10,485.29	-290.58	295.16	-293.10	95.00	304.89	0.46
10,604.00	1.54	265.52	10,579.27	-290.39	293.16	-292.88	94.00	275.66	0.85
10,699.00	2.20	266.04	10,674.22	-290.61	290.07	-293.08	95.00	265.83	0.69
10,793.00	2.86	270.97	10,768.13	-290.70	285.92	-293.13	94.00	268.83	0.74
10,888.00	2.51	266.57	10,863.02	-290.78	281.48	-293.18	95.00	268.91	0.43
10,982.00	2.46	265.52	10,956.94	-291.06	277.41	-293.42	94.00	266.05	0.07
11,077.00	2.46	262.44	11,051.85	-291.49	273.36	-293.82	95.00	263.98	0.14
11,171.00	2.24	257.43	11,145.77	-292.15	269.57	-294.45	94.00	260.05	0.32
11,266.00	2.20	257.43	11,240.70	-292.96	265.97	-295.22	95.00	257.43	0.04
11,361.00	1.85	247.67	11,335.64	-293.93	262.78	-296.17	95.00	252.97	0.52
11,456.00	2.11	224.21	11,430.58	-295.77	260.14	-297.98	95.00	235.16	0.89
11,550.00	2.42	222.01	11,524.51	-298.49	257.60	-300.68	94.00	223.03	0.34
11,644.00	1.80	226.14	11,618.45	-300.98	255.21	-303.15	94.00	223.77	0.68
11,739.00	2.55	229.57	11,713.38	-303.39	252.53	-305.54	95.00	228.15	0.80
11,834.00	3.08	229.13	11,808.26	-306.43	248.99	-308.55	95.00	229.33	0.56
11,929.00	2.73	232.21	11,903.14	-309.48	245.27	-311.57	95.00	230.58	0.40
12,023.00	2.42	231.85	11,997.04	-312.08	241.94	-314.14	94.00	232.04	0.33
12,118.00	2.24	231.85	12,091.97	-314.47	238.90	-316.50	95.00	231.85	0.19
12,168.00	2.24	239.15	12,141.93	-315.57	237.30	-317.59	50.00	235.50	0.57
12,298.00	2.77	251.89	12,271.80	-317.85	232.13	-319.83	130.00	246.20	0.59
KOP @ 12298.00' MD 2785.98' FNL & 756.55' FEL									
12,393.00	4.04	353.49	12,366.70	-315.24	229.57	-317.19	95.00	315.56	5.62
12,488.00	8.53	355.96	12,461.10	-304.88	228.69	-306.82	95.00	355.16	4.73
12,583.00	20.09	7.65	12,553.02	-281.60	230.37	-283.56	95.00	4.13	12.48
12,677.00	29.19	12.39	12,638.38	-243.12	237.45	-245.15	94.00	10.43	9.90
12,771.00	38.86	4.48	12,716.23	-191.19	244.70	-193.27	94.00	7.94	11.29
12,866.00	49.23	2.11	12,784.42	-125.34	248.36	-127.46	95.00	3.18	11.05



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12,960.00	63.25	2.55	12,836.53	-47.46	251.55	-49.61	94.00	2.35	14.92
13,055.00	71.52	1.67	12,873.03	40.10	254.76	37.92	95.00	2.10	8.75
13,149.00	85.58	359.21	12,891.65	131.99	255.41	129.80	94.00	0.41	15.17
13,244.00	90.99	0.61	12,894.49	226.91	255.27	224.72	95.00	359.91	5.88
13,338.00	91.56	0.53	12,892.40	320.88	256.20	318.68	94.00	0.57	0.61
13,432.00	90.46	2.02	12,890.74	414.84	258.29	412.62	94.00	1.28	1.97
13,527.00	88.75	359.74	12,891.40	509.82	259.75	507.58	95.00	0.88	3.00
13,622.00	88.53	359.47	12,893.65	604.79	259.10	602.55	95.00	359.61	0.37
13,716.00	88.09	359.82	12,896.42	698.75	258.52	696.51	94.00	359.64	0.60
13,811.00	89.27	1.41	12,898.61	793.71	259.54	791.46	95.00	0.62	2.08
13,906.00	89.19	0.79	12,899.89	888.68	261.36	886.42	95.00	1.10	0.66
14,001.00	90.33	0.79	12,900.29	983.67	262.67	981.39	95.00	0.79	1.20
14,096.00	91.69	1.76	12,898.61	1,078.63	264.78	1,076.33	95.00	1.27	1.76
14,190.00	92.04	1.67	12,895.55	1,172.54	267.59	1,170.21	94.00	1.72	0.38
14,285.00	89.80	3.78	12,894.03	1,267.41	272.11	1,265.03	95.00	2.73	3.24
14,380.00	88.00	1.32	12,895.85	1,362.29	276.34	1,359.87	95.00	2.55	3.21
14,475.00	88.66	3.07	12,898.62	1,457.17	279.97	1,454.72	95.00	2.20	1.97
14,570.00	92.09	5.54	12,898.00	1,551.88	287.10	1,549.37	95.00	4.30	4.45
14,665.00	91.38	3.69	12,895.12	1,646.52	294.74	1,643.94	95.00	4.61	2.09
14,760.00	89.54	3.69	12,894.36	1,741.32	300.85	1,738.68	95.00	3.69	1.94
14,854.00	91.12	7.38	12,893.82	1,834.86	309.92	1,832.14	94.00	5.53	4.27
14,979.00	90.11	6.33	12,892.48	1,958.96	324.84	1,956.11	125.00	6.85	1.17
15,073.00	89.01	5.36	12,893.20	2,052.46	334.41	2,049.53	94.00	5.85	1.56
15,168.00	88.53	3.51	12,895.24	2,147.15	341.75	2,144.15	95.00	4.44	2.01
15,262.00	89.23	0.26	12,897.08	2,241.07	344.84	2,238.04	94.00	1.88	3.54
15,357.00	91.08	2.02	12,896.82	2,336.04	346.73	2,332.99	95.00	1.14	2.69
15,452.00	90.02	358.24	12,895.91	2,431.02	346.95	2,427.96	95.00	0.13	4.13



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Green Wave 20-17
Well: #5H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #5H
TVD Reference: RKB=30' @ 3377.70usft (Cactus 108)
MD Reference: RKB=30' @ 3377.70usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
15,490.71	90.33	357.99	12,895.79	2,469.71	345.68	2,466.66	38.71	358.12	1.02
Section Crossing @ 15490.71' MD 0' FNL & 619.92' FEL									
15,547.00	90.77	357.63	12,895.25	2,525.95	343.53	2,522.92	56.29	357.81	1.02
15,642.00	91.52	358.33	12,893.35	2,620.87	340.18	2,617.87	95.00	357.98	1.08
15,736.00	91.08	357.71	12,891.22	2,714.79	336.93	2,711.81	94.00	358.02	0.81
15,830.00	88.88	356.22	12,891.25	2,808.65	331.96	2,805.71	94.00	356.97	2.83
15,925.00	87.25	355.08	12,894.46	2,903.32	324.75	2,900.44	95.00	355.65	2.09
16,019.00	89.19	357.27	12,897.38	2,997.06	318.49	2,994.22	94.00	356.18	3.11
16,113.00	89.76	357.36	12,898.24	3,090.95	314.09	3,088.15	94.00	357.32	0.61
16,208.00	89.10	355.78	12,899.19	3,185.77	308.40	3,183.02	95.00	356.57	1.80
16,303.00	90.64	356.66	12,899.40	3,280.56	302.14	3,277.86	95.00	356.22	1.87
16,397.00	89.93	356.92	12,898.94	3,374.41	296.88	3,371.75	94.00	356.79	0.80
16,491.00	90.59	356.83	12,898.51	3,468.27	291.75	3,465.65	94.00	356.88	0.71
16,585.00	92.22	5.62	12,896.20	3,562.12	293.76	3,559.48	94.00	1.22	9.51
16,680.00	91.43	5.10	12,893.17	3,656.66	302.63	3,653.94	95.00	5.36	1.00
16,774.00	91.30	4.74	12,890.93	3,750.29	310.69	3,747.49	94.00	4.92	0.41
16,868.00	91.60	4.22	12,888.56	3,843.97	318.03	3,841.11	94.00	4.48	0.64
16,963.00	89.10	1.05	12,887.98	3,938.85	322.39	3,935.95	95.00	2.63	4.25
17,058.00	89.32	1.14	12,889.29	4,033.82	324.21	4,030.90	95.00	1.10	0.25
17,153.00	88.09	0.53	12,891.43	4,128.78	325.59	4,125.85	95.00	0.84	1.45
17,248.00	90.33	4.57	12,892.74	4,223.66	329.82	4,220.68	95.00	2.55	4.86
17,342.00	89.76	2.37	12,892.67	4,317.48	335.51	4,314.45	94.00	3.47	2.42
17,437.00	88.66	359.65	12,893.98	4,412.44	337.18	4,409.40	95.00	1.01	3.09
17,531.00	88.62	356.83	12,896.21	4,506.36	334.29	4,503.34	94.00	358.24	3.00
17,626.00	90.11	1.58	12,897.26	4,601.32	332.98	4,598.30	95.00	359.21	5.24
17,721.00	88.66	358.33	12,898.28	4,696.30	332.90	4,693.28	95.00	359.96	3.75
17,815.00	90.64	1.49	12,898.86	4,790.28	332.76	4,787.26	94.00	359.91	3.97



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
17,910.00	89.98	357.27	12,898.34	4,885.25	331.73	4,882.23	95.00	359.38	4.50
18,004.00	90.20	354.29	12,898.20	4,978.98	324.81	4,976.02	94.00	355.78	3.18
18,099.00	89.14	350.42	12,898.74	5,073.12	312.18	5,070.26	95.00	352.36	4.22
18,194.00	89.93	351.30	12,899.51	5,166.91	297.09	5,164.18	95.00	350.86	1.24
18,288.00	91.47	352.70	12,898.37	5,259.98	284.01	5,257.36	94.00	352.00	2.21
18,383.00	91.34	352.44	12,896.04	5,354.15	271.72	5,351.63	95.00	352.57	0.31
18,477.00	90.73	352.79	12,894.34	5,447.36	259.64	5,444.94	94.00	352.62	0.75
18,572.00	92.57	354.90	12,891.60	5,541.76	249.46	5,539.43	95.00	353.84	2.95
18,667.00	91.60	354.37	12,888.15	5,636.28	240.59	5,634.02	95.00	354.63	1.16
18,761.00	90.64	354.64	12,886.31	5,729.83	231.59	5,727.64	94.00	354.51	1.06
18,856.00	90.81	356.40	12,885.11	5,824.53	224.17	5,822.40	95.00	355.52	1.86
18,951.00	88.09	355.43	12,886.02	5,919.27	217.40	5,917.20	95.00	355.92	3.04
19,045.00	87.12	354.46	12,889.95	6,012.82	209.13	6,010.82	94.00	354.95	1.46
19,139.00	87.12	355.60	12,894.67	6,106.35	200.99	6,104.41	94.00	355.03	1.21
19,234.00	86.81	356.75	12,899.70	6,201.00	194.66	6,199.11	95.00	356.17	1.25
19,329.00	88.79	357.01	12,903.35	6,295.79	189.50	6,293.94	95.00	356.88	2.10
19,423.00	89.89	355.69	12,904.43	6,389.59	183.51	6,387.79	94.00	356.35	1.83
19,518.00	90.68	357.71	12,903.96	6,484.42	178.05	6,482.66	95.00	356.70	2.28
19,612.00	93.58	2.64	12,900.46	6,578.32	178.33	6,576.55	94.00	0.17	6.08
19,706.00	93.67	2.72	12,894.52	6,672.03	182.72	6,670.22	94.00	2.68	0.13
19,801.00	91.34	2.64	12,890.37	6,766.83	187.15	6,764.98	95.00	2.68	2.45
19,895.00	88.97	1.14	12,890.11	6,860.77	190.25	6,858.89	94.00	1.89	2.98
19,990.00	90.37	3.78	12,890.66	6,955.67	194.33	6,953.75	95.00	2.46	3.15
20,085.00	89.89	9.05	12,890.44	7,050.04	204.94	7,048.03	95.00	6.42	5.57
20,179.00	92.44	9.14	12,888.53	7,142.83	219.80	7,140.69	94.00	9.09	2.71
20,274.00	92.79	10.37	12,884.20	7,236.36	235.87	7,234.08	95.00	9.75	1.34
20,368.00	92.18	9.40	12,880.12	7,328.87	252.00	7,326.45	94.00	9.88	1.22



Wellbenders End Of Well Report

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
20,463.00	91.82	9.14	12,876.81	7,422.58	267.29	7,420.02	95.00	9.27	0.47
20,557.00	87.91	6.68	12,877.03	7,515.66	280.22	7,512.98	94.00	7.91	4.91
20,628.00	89.98	6.15	12,878.34	7,586.19	288.15	7,583.45	71.00	6.41	3.01
20,689.14	89.98	6.15	12,878.36	7,646.98	294.70	7,644.18	61.14	6.15	0.00
100' Perf Line Crossing @ 20689.14' MD 100' FNL & 625.27' FEL									
20,691.00	89.98	6.15	12,878.36	7,648.83	294.90	7,646.03	1.86	6.15	0.00
BHL @ 20691.00' MD 98.17' FNL & 625.06' FEL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,298.00	12,271.80	-317.85	232.13	KOP @ 12298.00' MD 2785.98' FNL & 756.55' FEL
15,490.71	12,895.79	2,469.71	345.68	Section Crossing @ 15490.71' MD 0' FNL & 619.92' FEL
20,689.14	12,878.36	7,646.98	294.70	100' Perf Line Crossing @ 20689.14' MD 100' FNL & 625.27' FEL
20,691.00	12,878.36	7,648.83	294.90	BHL @ 20691.00' MD 98.17' FNL & 625.06' FEL

Checked By: _____ Approved By: _____ Date: _____