



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **05/18/19** thru **06/06/19** conduct or supervise the taking of a **MWD Survey** from a depth of **133'** to a depth of **18593'**; 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 **Fluffy Cat 16-21 State Fed Com #212H** API No. **30-025-45069** 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

**Larry
Wright**

Digitally signed
by Larry Wright
Date: 2019.10.28
13:53:09 -05'00'

HOBBS OCD

DEC 30 2019

RECEIVED



Devon Energy

Lea Co., NM (Nad83 - East Zone)

Big Cat & Fluffy Cat

Fluffy Cat 16-21 State Fed Com #212H

OH

Design: OH

End Of Well Report

11 June, 2019



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Big Cat & Fluffy Cat
Well: Fluffy Cat 16-21 State Fed Com #212H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Fluffy Cat 16-21 State Fed Com #212H
TVD Reference: RKB=30' @ 3703.30usft (Cactus 108)
MD Reference: RKB=30' @ 3703.30usft (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	Big Cat & Fluffy Cat		
Site Position:		Northing:	475,196.92 usft
From:	Map	Easting:	741,283.92 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.304731
		Longitude:	-103.686176
		Grid Convergence:	0.346 °

Well	Fluffy Cat 16-21 State Fed Com #212H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.304648
		Longitude:	-103.686160
		Ground Level:	3,673.30 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	3/20/2019	6.823
			Dip Angle
			(°)
			60.096
			Field Strength
			(nT)
			47,791.40126865

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
			(°)
			179.63

Survey Program	Date	6/11/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
133.00	18,593.00	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	
133.00	0.75	211.79	133.00	-0.74	-0.46	0.74	133.00	211.79	0.56	
First MWD Survey										
266.00	1.01	217.68	265.98	-2.41	-1.63	2.40	133.00	215.17	0.21	
358.00	0.97	220.40	357.97	-3.64	-2.63	3.63	92.00	219.01	0.07	
451.00	0.97	220.84	450.95	-4.84	-3.66	4.81	93.00	220.62	0.01	
637.00	0.75	211.35	636.93	-7.07	-5.32	7.03	186.00	216.70	0.14	
729.00	0.62	218.64	728.93	-7.97	-5.95	7.93	92.00	214.65	0.17	
821.00	0.53	220.40	820.92	-8.68	-6.53	8.64	92.00	219.45	0.10	
913.00	0.44	228.66	912.92	-9.24	-7.07	9.20	92.00	224.15	0.12	
1,007.00	0.48	223.48	1,006.91	-9.77	-7.62	9.72	94.00	225.96	0.06	
1,100.00	0.48	229.02	1,099.91	-10.30	-8.18	10.25	93.00	226.25	0.05	
1,146.00	0.44	219.61	1,145.91	-10.57	-8.44	10.51	46.00	224.52	0.19	
1,255.00	0.31	216.10	1,254.91	-11.13	-8.88	11.07	109.00	218.16	0.12	
1,349.00	0.26	177.42	1,348.91	-11.55	-9.02	11.49	94.00	198.52	0.21	
1,444.00	0.22	181.12	1,443.91	-11.94	-9.01	11.88	95.00	179.12	0.05	
1,539.00	0.92	38.64	1,538.90	-11.53	-8.54	11.47	95.00	48.83	1.16	
1,633.00	2.51	35.66	1,632.86	-9.27	-6.87	9.22	94.00	36.46	1.69	
1,728.00	4.13	34.69	1,727.69	-4.76	-3.71	4.74	95.00	35.06	1.71	
1,822.00	4.66	32.49	1,821.42	1.24	0.27	-1.24	94.00	33.52	0.59	
1,917.00	4.48	33.90	1,916.12	7.57	4.41	-7.55	95.00	33.18	0.22	
2,011.00	4.92	38.82	2,009.80	13.76	8.99	-13.70	94.00	36.47	0.63	
2,106.00	5.05	44.27	2,104.44	19.93	14.46	-19.84	95.00	41.58	0.52	
2,200.00	4.79	46.38	2,198.09	25.60	20.19	-25.47	94.00	45.30	0.34	
2,295.00	4.48	45.76	2,292.78	30.93	25.72	-30.76	95.00	46.08	0.33	
2,390.00	4.18	45.59	2,387.51	35.94	30.85	-35.74	95.00	45.68	0.32	
2,484.00	4.00	46.12	2,481.27	40.61	35.66	-40.38	94.00	45.85	0.20	



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Wellbore: OH
Design: OH

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Database: WBDS_SQL_2

Survey										
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2,579.00	3.65	45.94	2,576.06	45.01	40.22	-44.75	95.00	46.03	0.37	
2,673.00	3.96	37.41	2,669.85	49.67	44.34	-49.38	94.00	41.50	0.69	
2,767.00	3.87	36.98	2,763.64	54.78	48.22	-54.46	94.00	37.20	0.10	
2,862.00	3.65	38.73	2,858.43	59.70	52.04	-59.36	95.00	37.83	0.26	
2,956.00	4.57	33.37	2,952.19	65.16	55.98	-64.80	94.00	35.75	1.06	
3,051.00	5.14	32.49	3,046.85	71.91	60.34	-71.52	95.00	32.90	0.61	
3,145.00	4.79	32.76	3,140.49	78.76	64.73	-78.34	94.00	32.62	0.37	
3,240.00	4.53	33.81	3,235.18	85.21	68.96	-84.77	95.00	33.27	0.29	
3,335.00	4.35	32.67	3,329.90	91.36	73.00	-90.89	95.00	33.25	0.21	
3,429.00	4.09	34.16	3,423.64	97.14	76.80	-96.64	94.00	33.39	0.30	
3,524.00	3.87	33.11	3,518.41	102.63	80.46	-102.11	95.00	33.65	0.24	
3,618.00	3.74	35.66	3,612.20	107.78	83.98	-107.23	94.00	34.36	0.23	
3,712.00	3.56	35.57	3,706.01	112.64	87.46	-112.07	94.00	35.62	0.19	
3,804.00	4.04	36.45	3,797.81	117.57	91.05	-116.98	92.00	36.04	0.53	
3,898.00	3.91	40.14	3,891.58	122.68	95.08	-122.07	94.00	38.26	0.31	
3,993.00	3.34	42.78	3,986.39	127.19	99.05	-126.55	95.00	41.36	0.63	
4,088.00	3.12	54.90	4,081.24	130.71	103.04	-130.04	95.00	48.63	0.75	
4,182.00	4.18	51.30	4,175.05	134.32	107.81	-133.62	94.00	52.84	1.15	
4,277.00	4.79	54.29	4,269.76	138.80	113.73	-138.06	95.00	52.90	0.69	
4,372.00	4.53	62.64	4,364.45	142.84	120.29	-142.06	95.00	58.35	0.76	
4,466.00	4.00	70.64	4,458.19	145.63	126.68	-144.81	94.00	66.39	0.85	
4,561.00	3.52	70.29	4,552.98	147.72	132.55	-146.86	95.00	70.48	0.51	
4,656.00	3.82	42.25	4,647.80	151.04	137.42	-150.15	95.00	55.69	1.90	
4,750.00	4.09	37.85	4,741.57	156.01	141.58	-155.09	94.00	39.97	0.43	
4,845.00	3.65	41.90	4,836.36	160.93	145.68	-159.99	95.00	39.76	0.54	
4,939.00	3.43	36.45	4,930.18	165.42	149.35	-164.45	94.00	39.26	0.43	
5,033.00	3.21	38.73	5,024.02	169.74	152.67	-168.75	94.00	37.55	0.27	



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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)
5,127.00	2.81	39.88	5,117.89	173.56	155.79	-172.55	94.00	39.27	0.43
5,221.00	2.55	39.17	5,211.79	176.95	158.59	-175.92	94.00	39.54	0.28
5,316.00	2.59	42.95	5,306.69	180.16	161.39	-179.11	95.00	41.07	0.18
5,410.00	3.60	32.58	5,400.55	184.20	164.42	-183.13	94.00	36.92	1.22
5,505.00	4.57	34.25	5,495.31	189.84	168.16	-188.75	95.00	33.51	1.03
5,600.00	4.22	32.84	5,590.03	195.91	172.19	-194.79	95.00	33.57	0.39
5,695.00	3.87	32.32	5,684.79	201.55	175.80	-200.41	95.00	32.59	0.37
5,789.00	3.74	32.84	5,778.59	206.81	179.15	-205.65	94.00	32.58	0.14
5,884.00	3.56	33.81	5,873.39	211.86	182.48	-210.68	95.00	33.31	0.20
5,979.00	3.34	30.30	5,968.22	216.70	185.51	-215.50	95.00	32.11	0.32
6,074.00	3.21	28.54	6,063.07	221.43	188.18	-220.21	95.00	29.44	0.17
6,168.00	2.99	31.09	6,156.93	225.84	190.70	-224.60	94.00	29.77	0.28
6,263.00	2.99	40.14	6,251.80	229.86	193.58	-228.60	95.00	35.62	0.50
6,357.00	3.16	47.87	6,345.67	233.47	197.08	-232.19	94.00	44.11	0.48
6,451.00	2.81	42.16	6,439.54	236.91	200.55	-235.61	94.00	45.18	0.49
6,546.00	2.51	40.05	6,534.44	240.23	203.45	-238.91	95.00	41.16	0.33
6,640.00	2.55	39.08	6,628.34	243.43	206.09	-242.10	94.00	39.56	0.06
6,735.00	2.24	41.72	6,723.26	246.46	208.66	-245.10	95.00	40.31	0.35
6,829.00	2.11	40.93	6,817.19	249.14	211.02	-247.77	94.00	41.34	0.14
6,924.00	2.73	37.15	6,912.11	252.26	213.53	-250.88	95.00	38.80	0.67
7,018.00	2.68	34.60	7,006.00	255.85	216.13	-254.45	94.00	35.89	0.14
7,112.00	1.80	40.75	7,099.93	258.78	218.34	-257.37	94.00	37.07	0.97
7,207.00	1.32	44.89	7,194.90	260.69	220.09	-259.26	95.00	42.50	0.52
7,302.00	1.32	73.27	7,289.87	261.78	221.91	-260.34	95.00	59.08	0.68
7,397.00	1.14	66.42	7,384.85	262.47	223.82	-261.02	95.00	70.10	0.24
7,491.00	1.05	54.29	7,478.83	263.35	225.38	-261.89	94.00	60.61	0.26
7,681.00	1.41	43.92	7,668.79	266.05	228.41	-264.57	190.00	48.34	0.22



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7,776.00	1.32	63.78	7,763.76	267.37	230.21	-265.88	95.00	53.52	0.50
7,871.00	0.88	59.39	7,858.74	268.23	231.81	-266.72	95.00	62.02	0.47
7,966.00	0.97	78.11	7,953.73	268.76	233.23	-267.25	95.00	69.21	0.33
8,060.00	1.19	70.73	8,047.72	269.25	234.93	-267.73	94.00	74.04	0.28
8,155.00	0.92	69.85	8,142.70	269.84	236.58	-268.30	95.00	70.35	0.28
8,250.00	0.88	98.06	8,237.69	270.00	238.02	-268.46	95.00	83.64	0.46
8,345.00	0.75	88.22	8,332.68	269.92	239.36	-268.36	95.00	93.53	0.20
8,439.00	1.19	114.58	8,426.67	269.53	240.86	-267.97	94.00	104.44	0.66
8,629.00	0.79	117.39	8,616.64	268.11	243.82	-266.53	190.00	115.70	0.21
8,717.00	1.05	189.11	8,704.63	267.03	244.23	-265.45	88.00	159.08	1.25
8,812.00	0.13	195.09	8,799.62	266.07	244.06	-264.49	95.00	189.77	0.97
8,907.00	1.49	29.42	8,894.61	267.04	244.64	-265.45	95.00	30.77	1.70
9,002.00	2.77	35.22	8,989.54	269.99	246.57	-268.39	95.00	33.19	1.36
9,096.00	3.78	43.83	9,083.39	274.08	250.03	-272.46	94.00	40.19	1.19
9,190.00	3.60	45.06	9,177.20	278.40	254.26	-276.75	94.00	44.43	0.21
9,285.00	2.68	34.34	9,272.05	282.34	257.63	-280.67	95.00	40.49	1.14
9,380.00	1.76	359.18	9,366.98	285.63	258.86	-283.96	95.00	20.51	1.69
9,474.00	2.51	350.66	9,460.92	289.11	258.51	-287.43	94.00	354.17	0.86
9,570.00	2.24	334.48	9,556.84	292.88	257.36	-291.21	96.00	343.03	0.75
9,664.00	2.73	295.90	9,650.76	295.51	254.55	-293.86	94.00	313.21	1.81
9,759.00	2.37	307.59	9,745.66	297.70	250.96	-296.07	95.00	301.33	0.66
9,853.00	2.20	318.31	9,839.59	300.23	248.22	-298.62	94.00	312.75	0.49
9,947.00	2.20	314.09	9,933.52	302.83	245.72	-301.24	94.00	316.20	0.17
10,042.00	1.80	238.42	10,028.47	303.32	243.14	-301.74	95.00	280.69	2.60
KOP (2318.53' FNL, 863.54' FWL of Section 18)									
10,136.00	7.25	200.10	10,122.16	296.97	239.84	-295.42	94.00	207.46	6.32
10,231.00	12.22	195.44	10,215.76	281.64	235.10	-280.12	95.00	197.18	5.29



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10,325.00	17.45	195.00	10,306.60	258.42	228.80	-256.94	94.00	195.18	5.57
10,422.00	25.14	190.34	10,396.91	224.05	221.33	-222.62	97.00	192.27	8.11
10,517.00	39.47	188.50	10,477.00	174.07	213.20	-172.69	95.00	189.24	15.12
10,612.00	53.67	191.05	10,542.15	106.30	201.34	-105.00	95.00	189.93	15.07
10,707.00	64.18	197.02	10,591.15	27.59	181.42	-26.41	95.00	194.20	12.30
10,801.00	74.55	198.96	10,624.23	-55.95	154.24	56.94	94.00	198.02	11.20
10,896.00	82.77	203.18	10,642.91	-142.75	120.75	143.53	95.00	201.10	9.69
10,991.00	86.73	205.02	10,651.60	-229.09	82.12	229.61	95.00	204.10	4.59
11,018.00	87.30	205.46	10,653.00	-253.47	70.63	253.93	27.00	205.24	2.67
11,113.00	87.56	205.37	10,657.26	-339.19	29.90	339.38	95.00	205.41	0.29
11,208.00	87.82	205.37	10,661.09	-424.96	-10.77	424.88	95.00	205.37	0.27
11,302.00	88.53	204.23	10,664.09	-510.25	-50.18	509.91	94.00	204.80	1.43
11,397.00	91.16	203.79	10,664.34	-597.02	-88.83	596.43	95.00	204.01	2.81
11,491.00	90.46	200.89	10,663.01	-683.95	-124.56	683.13	94.00	202.34	3.17
11,586.00	90.95	198.08	10,661.84	-773.49	-156.24	772.46	95.00	199.49	3.00
11,680.00	92.04	195.35	10,659.39	-863.48	-183.26	862.28	94.00	196.72	3.13
11,775.00	92.09	191.93	10,655.97	-955.72	-205.65	954.38	95.00	193.64	3.60
11,870.00	91.96	187.27	10,652.61	-1,049.31	-221.48	1,047.86	95.00	189.60	4.90
11,964.00	91.82	183.84	10,649.51	-1,142.80	-230.57	1,141.29	94.00	185.55	3.65
12,059.00	90.46	180.68	10,647.62	-1,237.70	-234.31	1,236.16	95.00	182.26	3.62
12,154.00	90.33	180.94	10,646.96	-1,332.68	-235.66	1,331.13	95.00	180.81	0.31
12,248.00	90.59	180.68	10,646.21	-1,426.67	-236.98	1,425.11	94.00	180.81	0.39
12,343.00	90.86	180.76	10,645.01	-1,521.66	-238.18	1,520.09	95.00	180.72	0.30
12,437.00	90.99	180.76	10,643.49	-1,615.64	-239.43	1,614.06	94.00	180.76	0.14
12,532.00	91.30	180.32	10,641.59	-1,710.61	-240.32	1,709.03	95.00	180.54	0.57
12,626.00	91.30	180.15	10,639.46	-1,804.59	-240.71	1,803.00	94.00	180.24	0.18
12,721.00	91.65	179.80	10,637.01	-1,899.56	-240.66	1,897.96	95.00	179.98	0.52



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Big Cat & Fluffy Cat
Well: Fluffy Cat 16-21 State Fed Com #212H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Fluffy Cat 16-21 State Fed Com #212H
TVD Reference: RKB=30' @ 3703.30usft (Cactus 108)
MD Reference: RKB=30' @ 3703.30usft (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)
12,816.00	91.74	179.89	10,634.20	-1,994.51	-240.41	1,992.92	95.00	179.84	0.13
12,910.00	91.16	179.80	10,631.82	-2,088.48	-240.15	2,086.89	94.00	179.84	0.62
13,005.00	89.93	177.86	10,630.92	-2,183.45	-238.21	2,181.87	95.00	178.83	2.42
13,099.00	90.15	177.78	10,630.85	-2,277.38	-234.64	2,275.82	94.00	177.82	0.25
13,194.00	90.42	177.42	10,630.38	-2,372.30	-230.66	2,370.76	95.00	177.60	0.47
13,289.00	88.35	177.16	10,631.40	-2,467.18	-226.17	2,465.67	95.00	177.29	2.20
13,383.00	88.26	177.16	10,634.18	-2,561.03	-221.51	2,559.54	94.00	177.16	0.10
13,478.00	88.35	177.07	10,636.99	-2,655.86	-216.73	2,654.41	95.00	177.11	0.13
13,486.78	88.35	177.04	10,637.24	-2,664.63	-216.28	2,663.18	8.78	177.05	0.37
Section Crossing (0' FNL, 386.34' FWL of Section 21)									
13,573.00	88.31	176.72	10,639.76	-2,750.68	-211.59	2,749.26	86.22	176.88	0.37
13,667.00	89.01	177.25	10,641.96	-2,844.53	-206.65	2,843.13	94.00	176.99	0.93
13,762.00	89.45	177.25	10,643.23	-2,939.41	-202.09	2,938.04	95.00	177.25	0.46
13,856.00	89.32	176.98	10,644.24	-3,033.28	-197.36	3,031.95	94.00	177.12	0.32
13,951.00	89.85	179.09	10,644.93	-3,128.22	-194.10	3,126.90	95.00	178.04	2.29
14,045.00	89.63	179.27	10,645.36	-3,222.21	-192.76	3,220.90	94.00	179.18	0.30
14,140.00	91.34	179.71	10,644.55	-3,317.20	-191.91	3,315.89	95.00	179.49	1.86
14,234.00	91.60	181.12	10,642.14	-3,411.16	-192.59	3,409.85	94.00	180.41	1.52
14,329.00	90.77	181.38	10,640.18	-3,506.12	-194.66	3,504.79	95.00	181.25	0.92
14,424.00	91.60	181.29	10,638.21	-3,601.07	-196.88	3,599.73	95.00	181.34	0.88
14,518.00	91.43	180.76	10,635.73	-3,695.02	-198.56	3,693.67	94.00	181.02	0.59
14,613.00	91.12	180.68	10,633.61	-3,789.99	-199.75	3,788.62	95.00	180.72	0.34
14,707.00	91.12	180.85	10,631.78	-3,883.97	-201.01	3,882.59	94.00	180.76	0.18
14,802.00	90.90	180.59	10,630.10	-3,978.94	-202.20	3,977.56	95.00	180.72	0.36
14,897.00	91.34	180.85	10,628.25	-4,073.92	-203.39	4,072.52	95.00	180.72	0.54
14,992.00	91.78	180.50	10,625.66	-4,168.88	-204.51	4,167.47	95.00	180.68	0.59
15,086.00	91.87	180.68	10,622.67	-4,262.82	-205.48	4,261.41	94.00	180.59	0.21



Wellbenders End Of Well Report

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Fluffy Cat 16-21 State Fed Com #212H
TVD Reference: RKB=30' @ 3703.30usft (Cactus 108)
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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)
15,181.00	90.59	180.15	10,620.63	-4,357.80	-206.17	4,356.37	95.00	180.41	1.46
15,276.00	90.42	180.15	10,619.79	-4,452.79	-206.42	4,451.37	95.00	180.15	0.18
15,370.00	90.11	180.15	10,619.35	-4,546.79	-206.66	4,545.36	94.00	180.15	0.33
15,465.00	90.02	179.97	10,619.25	-4,641.79	-206.76	4,640.36	95.00	180.06	0.21
15,560.00	90.24	179.62	10,619.03	-4,736.79	-206.42	4,735.36	95.00	179.80	0.44
15,654.00	90.73	179.27	10,618.24	-4,830.78	-205.51	4,829.35	94.00	179.45	0.64
15,749.00	90.95	178.92	10,616.84	-4,925.76	-204.01	4,924.34	95.00	179.10	0.44
15,844.00	90.68	178.83	10,615.49	-5,020.73	-202.15	5,019.32	95.00	178.87	0.30
15,939.00	90.90	179.09	10,614.18	-5,115.71	-200.42	5,114.31	95.00	178.96	0.36
16,033.00	91.21	179.36	10,612.45	-5,209.68	-199.15	5,208.29	94.00	179.22	0.44
16,128.00	91.21	180.06	10,610.44	-5,304.66	-198.67	5,303.27	95.00	179.71	0.74
16,223.00	91.60	179.97	10,608.12	-5,399.63	-198.69	5,398.23	95.00	180.02	0.42
16,317.00	90.64	178.65	10,606.28	-5,493.60	-197.56	5,492.21	94.00	179.31	1.74
16,411.00	89.27	178.39	10,606.35	-5,587.57	-195.13	5,586.19	94.00	178.52	1.48
16,506.00	89.36	178.48	10,607.49	-5,682.53	-192.54	5,681.16	95.00	178.44	0.13
16,600.00	89.85	178.74	10,608.14	-5,776.50	-190.26	5,775.15	94.00	178.61	0.59
16,695.00	90.90	179.01	10,607.51	-5,871.47	-188.39	5,870.14	95.00	178.87	1.14
16,790.00	90.37	178.13	10,606.46	-5,966.44	-186.02	5,965.11	95.00	178.57	1.08
16,884.00	90.77	178.13	10,605.53	-6,060.38	-182.96	6,059.07	94.00	178.13	0.43
16,979.00	89.01	177.42	10,605.71	-6,155.31	-179.27	6,154.02	95.00	177.78	2.00
17,074.00	88.97	177.07	10,607.38	-6,250.18	-174.70	6,248.92	95.00	177.25	0.37
17,169.00	89.49	177.07	10,608.66	-6,345.05	-169.85	6,343.82	95.00	177.07	0.55
17,263.00	89.85	176.55	10,609.20	-6,438.90	-164.62	6,437.70	94.00	176.81	0.67
17,358.00	90.33	176.72	10,609.05	-6,533.74	-159.04	6,532.57	95.00	176.63	0.54
17,453.00	90.73	176.63	10,608.17	-6,628.57	-153.53	6,627.44	95.00	176.68	0.43
17,548.00	91.25	176.28	10,606.53	-6,723.38	-147.66	6,722.28	95.00	176.46	0.66
17,642.00	90.55	177.51	10,605.05	-6,817.22	-142.57	6,816.16	94.00	176.90	1.51



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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)
17,737.00	90.42	177.95	10,604.25	-6,912.15	-138.80	6,911.11	95.00	177.73	0.48
17,831.00	90.29	177.95	10,603.67	-7,006.08	-135.44	7,005.06	94.00	177.95	0.14
17,927.00	90.24	177.86	10,603.22	-7,102.02	-131.93	7,101.02	96.00	177.90	0.11
18,022.00	90.29	177.86	10,602.78	-7,196.95	-128.39	7,195.97	95.00	177.86	0.05
18,117.00	90.86	178.48	10,601.83	-7,291.90	-125.35	7,290.94	95.00	178.17	0.89
18,212.00	91.38	178.48	10,599.97	-7,386.85	-122.83	7,385.90	95.00	178.48	0.55
18,307.00	91.47	178.39	10,597.61	-7,481.78	-120.24	7,480.85	95.00	178.44	0.13
18,401.00	90.37	178.39	10,596.10	-7,575.73	-117.60	7,574.81	94.00	178.39	1.17
18,495.00	90.46	178.39	10,595.42	-7,669.69	-114.96	7,668.79	94.00	178.39	0.10
18,529.00	90.33	178.74	10,595.19	-7,703.68	-114.11	7,702.78	34.00	178.57	1.10
Last MWD Survey									
18,593.00	90.33	178.74	10,594.82	-7,767.66	-112.70	7,766.77	64.00	178.74	0.00
BHL @ 18593' MD (177.43' FSL, 456.97' FWL of Section 21)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
133.00	133.00	-0.74	-0.46	First MWD Survey
10,042.00	10,028.47	303.32	243.14	KOP (2318.53' FNL, 863.54' FWL of Section 16)
13,486.78	10,637.24	-2,664.63	-216.28	Section Crossing (0' FNL, 386.34' FWL of Section 21)
18,529.00	10,595.19	-7,703.68	-114.11	Last MWD Survey
18,593.00	10,594.82	-7,767.66	-112.70	BHL @ 18593' MD (177.43' FSL, 456.97' FWL of Section 21)

Checked By: _____

Approved By: _____

Date: _____