



Total Directional
Services, LLC

USA Operations

Final MWD Survey Certification

Leah County, New Mexico

Client: Devon Energy

Well Name: Green Wave 20-17 Fed 3H

Total Job No: 2019-363-540

API No: 30-025-46016

Start Date: 06/02/2019

End Date: 06/27/2019

Measured Start Depth: 0 feet

Measured End Depth: 20,506 feet

Vertical Section from well center at TD: 7655.92 feet

HOBBS OCD

JAN 14 2020

RECEIVED

I, Triston Hash, 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: 06/27/2019

Signed: *Triston Hash*



Green Wave 20-17 State Fed Com 3H

Start date: 6/2/2019

Directional Survey Report

End date: 6/27/2019

Company: Devon Energy	State/Prov: NM	Survey Company: Total Directional
Well Name: Green Wave 20-17 State Fed Com 3H	County: Lea	Job Number: 2019-363-540
Field: WolfCamp	Country: USA	Proposed Azimuth: 359.5
Rig ID: HP 540	Declination: 6.28	Elevations KB: 3375
API/UWI: 30-025-46016	North Reference: Grid	DF: 30
Location: Lea County, NM	Latitude/Longitude: 32.029630 / -103.493343	GL: 3345

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
TieIn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	
1	183.00	0.20	300.60	183.00	0.16	-0.27	0.16	0.32	300.60	0.11	183.00
2	275.00	0.40	316.50	275.00	0.48	-0.63	0.48	0.79	306.96	0.23	92.00
3	365.00	0.60	320.80	364.99	1.07	-1.15	1.08	1.57	312.99	0.23	90.00
4	456.00	0.70	319.70	455.99	1.86	-1.81	1.88	2.60	315.85	0.11	91.00
5	547.00	0.90	320.80	546.98	2.84	-2.62	2.86	3.87	317.32	0.22	91.00
6	637.00	1.00	326.10	636.97	4.04	-3.50	4.07	5.35	319.06	0.15	90.00
7	727.00	1.00	321.20	726.95	5.30	-4.44	5.34	6.91	320.10	0.09	90.00
8	866.00	0.92	330.60	865.93	7.22	-5.74	7.27	9.23	321.51	0.13	139.00
9	957.00	0.62	233.48	956.93	7.57	-6.50	7.62	9.97	319.35	1.29	91.00
10	1,047.00	1.10	179.42	1,046.92	6.41	-6.88	6.47	9.40	312.98	0.99	90.00
11	1,138.00	1.89	193.05	1,137.89	4.08	-7.21	4.14	8.28	299.49	0.95	91.00
12	1,230.00	2.46	201.75	1,229.82	0.77	-8.28	0.84	8.32	275.28	0.71	92.00
13	1,324.00	3.74	200.43	1,323.68	-3.98	-10.10	-3.89	10.86	248.49	1.36	94.00
14	1,419.00	4.26	208.08	1,418.45	-10.00	-12.84	-9.89	16.28	232.10	0.78	95.00
15	1,513.00	5.19	209.22	1,512.13	-16.79	-16.56	-16.64	23.58	224.61	0.99	94.00
16	1,607.00	6.07	215.37	1,605.68	-24.55	-21.52	-24.36	32.65	221.23	1.13	94.00
17	1,707.00	6.99	223.37	1,705.03	-33.29	-28.75	-33.04	43.99	220.82	1.29	100.00
18	1,796.00	7.34	232.25	1,793.34	-40.71	-36.97	-40.38	54.99	222.25	1.30	89.00
19	1,890.00	7.78	236.29	1,886.52	-47.91	-47.01	-47.50	67.12	224.45	0.73	94.00
20	1,984.00	8.53	242.09	1,979.57	-54.71	-58.46	-54.19	80.07	226.90	1.18	94.00
21	2,078.00	8.79	248.59	2,072.50	-60.59	-71.31	-59.97	93.58	229.65	1.08	94.00
22	2,173.00	8.70	248.68	2,166.40	-65.85	-84.76	-65.11	107.34	232.16	0.10	95.00
23	2,267.00	8.53	249.39	2,259.34	-70.89	-97.91	-70.04	120.88	234.09	0.21	94.00
24	2,361.00	8.35	249.82	2,352.32	-75.70	-110.84	-74.73	134.23	235.67	0.20	94.00
25	2,455.00	8.26	249.65	2,445.33	-80.40	-123.58	-79.32	147.43	236.95	0.10	94.00
26	2,550.00	8.40	246.31	2,539.33	-85.57	-136.33	-84.37	160.96	237.89	0.53	95.00
27	2,644.00	8.26	247.36	2,632.34	-90.92	-148.85	-89.62	174.42	238.58	0.22	94.00
28	2,738.00	7.78	248.24	2,725.42	-95.88	-160.99	-94.47	187.38	239.22	0.53	94.00
29	2,832.00	8.48	245.69	2,818.48	-101.09	-173.22	-99.58	200.56	239.73	0.84	94.00
30	2,927.00	7.91	244.46	2,912.50	-106.79	-185.50	-105.17	214.04	240.07	0.63	95.00
31	3,021.00	7.74	243.32	3,005.63	-112.43	-196.99	-110.70	226.81	240.29	0.24	94.00
32	3,115.00	7.91	244.11	3,098.75	-118.09	-208.46	-116.27	239.59	240.47	0.21	94.00
33	3,209.00	8.40	246.05	3,191.80	-123.70	-220.56	-121.77	252.88	240.71	0.60	94.00
34	3,304.00	7.96	243.15	3,285.84	-129.49	-232.77	-127.46	266.36	240.91	0.63	95.00
35	3,398.00	8.66	245.78	3,378.85	-135.33	-245.03	-133.19	279.92	241.09	0.85	94.00
36	3,492.00	8.35	244.38	3,471.82	-141.19	-257.64	-138.94	293.79	241.28	0.40	94.00
37	3,586.00	7.91	250.35	3,564.87	-146.32	-269.88	-143.95	306.99	241.54	1.01	94.00
38	3,680.00	7.78	252.37	3,657.99	-150.42	-282.04	-147.95	319.64	241.93	0.32	94.00
39	3,775.00	8.09	254.75	3,752.08	-154.12	-294.62	-151.55	332.49	242.38	0.48	95.00
40	3,869.00	6.86	255.36	3,845.28	-157.28	-306.43	-154.60	344.44	242.83	1.31	94.00
41	3,963.00	6.95	252.20	3,938.60	-160.44	-317.28	-157.66	355.53	243.18	0.42	94.00
42	4,057.00	7.30	246.57	4,031.88	-164.55	-328.17	-161.68	367.12	243.37	0.83	94.00
43	4,151.00	8.09	249.65	4,125.03	-169.23	-339.85	-166.26	379.65	243.53	0.95	94.00
44	4,245.00	8.09	248.51	4,218.09	-173.95	-352.21	-170.87	392.82	243.72	0.17	94.00
45	4,340.00	9.01	243.15	4,312.04	-179.76	-365.07	-176.57	406.92	243.78	1.28	95.00
46	4,434.00	8.97	241.65	4,404.88	-186.56	-378.08	-183.26	421.61	243.74	0.25	94.00
47	4,529.00	8.18	245.96	4,498.82	-192.83	-390.77	-189.42	435.76	243.74	1.07	95.00
48	4,623.00	7.08	242.79	4,591.99	-198.21	-402.03	-194.69	448.24	243.76	1.25	94.00
49	4,717.00	6.99	230.31	4,685.29	-204.51	-411.59	-200.91	459.59	243.58	1.63	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
50	4,811.00	7.52	243.50	4,778.54	-210.91	-421.49	-207.22	471.31	243.42	1.85	94.00
51	4,905.00	8.26	241.21	4,871.65	-216.90	-432.91	-213.12	484.21	243.39	0.86	94.00
52	5,000.00	7.38	232.69	4,965.77	-223.89	-443.75	-220.01	497.03	243.23	1.53	95.00
53	5,094.00	7.47	238.40	5,058.98	-230.75	-453.75	-226.78	509.06	243.05	0.79	94.00
54	5,188.00	7.60	251.93	5,152.18	-235.88	-464.87	-231.81	521.29	243.10	1.89	94.00
55	5,282.00	6.86	251.23	5,245.43	-239.61	-476.09	-235.45	532.99	243.28	0.79	94.00
56	5,376.00	5.80	248.24	5,338.86	-243.18	-485.82	-238.93	543.29	243.41	1.18	94.00
57	5,470.00	5.45	249.12	5,432.40	-246.53	-494.40	-242.21	552.46	243.50	0.38	94.00
58	5,564.00	5.23	245.52	5,526.00	-249.90	-502.47	-245.51	561.19	243.56	0.43	94.00
59	5,658.00	4.70	244.46	5,619.64	-253.34	-509.85	-248.88	569.32	243.58	0.57	94.00
60	5,753.00	4.35	243.58	5,714.35	-256.62	-516.59	-252.10	576.81	243.58	0.38	95.00
61	5,847.00	3.47	242.71	5,808.13	-259.51	-522.31	-254.94	583.22	243.58	0.94	94.00
62	5,941.00	2.81	238.57	5,901.99	-262.01	-526.80	-257.41	588.36	243.56	0.74	94.00
63	6,035.00	1.85	245.78	5,995.91	-263.84	-530.15	-259.20	592.17	243.54	1.07	94.00
64	6,129.00	1.05	250.09	6,089.88	-264.75	-532.34	-260.10	594.55	243.56	0.86	94.00
65	6,223.00	0.26	186.37	6,183.87	-265.26	-533.18	-260.59	595.52	243.55	1.03	94.00
66	6,318.00	0.35	154.99	6,278.87	-265.74	-533.08	-261.07	595.64	243.50	0.20	95.00
67	6,412.00	0.48	147.78	6,372.87	-266.33	-532.75	-261.67	595.61	243.44	0.15	94.00
68	6,506.00	0.57	152.35	6,466.86	-267.08	-532.32	-262.42	595.56	243.36	0.11	94.00
69	6,600.00	0.48	198.41	6,560.86	-267.86	-532.23	-263.21	595.83	243.28	0.45	94.00
70	6,695.00	0.40	181.45	6,655.86	-268.57	-532.36	-263.92	596.27	243.23	0.16	95.00
71	6,788.00	0.70	66.05	6,748.85	-268.67	-531.85	-264.01	595.86	243.20	1.01	93.00
72	6,882.00	0.97	65.34	6,842.84	-268.10	-530.60	-263.46	594.49	243.19	0.29	94.00
73	6,977.00	0.97	61.21	6,937.83	-267.38	-529.17	-262.75	592.88	243.19	0.07	95.00
74	7,071.00	0.31	295.18	7,031.83	-266.89	-528.70	-262.26	592.24	243.22	1.25	94.00
75	7,165.00	0.22	282.08	7,125.82	-266.74	-529.11	-262.11	592.54	243.25	0.11	94.00
76	7,259.00	0.35	317.24	7,219.82	-266.49	-529.48	-261.86	592.76	243.28	0.23	94.00
77	7,354.00	0.26	299.40	7,314.82	-266.17	-529.86	-261.54	592.96	243.33	0.14	95.00
78	7,448.00	0.31	288.06	7,408.82	-265.99	-530.29	-261.35	593.26	243.36	0.08	94.00
79	7,542.00	0.53	274.26	7,502.82	-265.88	-530.97	-261.24	593.82	243.40	0.26	94.00
80	7,636.00	0.57	273.12	7,596.81	-265.82	-531.87	-261.17	594.59	243.44	0.04	94.00
81	7,731.00	0.97	331.48	7,691.81	-265.09	-532.72	-260.43	595.03	243.54	0.87	95.00
82	7,825.00	0.97	322.07	7,785.79	-263.76	-533.59	-259.10	595.22	243.70	0.17	94.00
83	7,919.00	0.79	318.73	7,879.78	-262.65	-534.51	-257.97	595.55	243.83	0.20	94.00
84	8,013.00	0.66	326.11	7,973.77	-261.71	-535.24	-257.03	595.79	243.94	0.17	94.00
85	8,107.00	0.57	310.56	8,067.77	-260.96	-535.89	-256.27	596.06	244.04	0.20	94.00
86	8,201.00	0.48	301.33	8,161.77	-260.45	-536.59	-255.76	596.45	244.11	0.13	94.00
87	8,295.00	0.70	273.12	8,255.76	-260.21	-537.50	-255.51	597.17	244.17	0.38	94.00
88	8,390.00	0.53	268.72	8,350.75	-260.19	-538.51	-255.48	598.08	244.21	0.19	95.00
89	8,484.00	0.53	274.96	8,444.75	-260.16	-539.38	-255.45	598.85	244.25	0.06	94.00
90	8,578.00	0.53	274.17	8,538.75	-260.09	-540.25	-255.37	599.60	244.29	0.01	94.00
91	8,672.00	0.40	250.44	8,632.74	-260.17	-540.99	-255.44	600.30	244.32	0.24	94.00
92	8,766.00	0.53	226.36	8,726.74	-260.58	-541.62	-255.85	601.04	244.31	0.25	94.00
93	8,861.00	0.62	216.07	8,821.74	-261.30	-542.24	-256.56	601.91	244.27	0.14	95.00
94	8,955.00	0.70	216.87	8,915.73	-262.17	-542.88	-257.42	602.87	244.22	0.09	94.00
95	9,049.00	0.79	213.17	9,009.72	-263.17	-543.58	-258.42	603.94	244.17	0.11	94.00
96	9,143.00	0.75	215.28	9,103.71	-264.22	-544.29	-259.46	605.03	244.11	0.05	94.00
97	9,237.00	0.88	212.56	9,197.70	-265.33	-545.03	-260.56	606.18	244.04	0.14	94.00
98	9,331.00	0.31	270.48	9,291.70	-265.93	-545.68	-261.16	607.03	244.02	0.81	94.00
99	9,425.00	0.31	272.41	9,385.70	-265.92	-546.18	-261.15	607.48	244.04	0.01	94.00
100	9,520.00	0.40	235.59	9,480.70	-266.10	-546.71	-261.32	608.03	244.05	0.25	95.00
101	9,614.00	0.57	111.31	9,574.69	-266.45	-546.55	-261.67	608.04	244.01	0.92	94.00
102	9,708.00	0.75	119.75	9,668.69	-266.93	-545.58	-262.16	607.38	243.93	0.22	94.00
103	9,801.00	0.57	140.49	9,761.68	-267.59	-544.76	-262.82	606.93	243.84	0.32	93.00
104	9,895.00	0.40	115.79	9,855.68	-268.09	-544.16	-263.33	606.62	243.77	0.28	94.00
105	9,989.00	0.40	160.70	9,949.68	-268.54	-543.76	-263.79	606.46	243.72	0.33	94.00
106	10,084.00	1.14	49.35	10,044.67	-268.24	-542.93	-263.49	605.58	243.71	1.41	95.00
107	10,178.00	1.54	73.96	10,138.65	-267.28	-541.01	-262.55	603.43	243.71	0.74	94.00
108	10,272.00	2.15	94.87	10,232.60	-267.08	-538.04	-262.38	600.68	243.60	0.96	94.00
109	10,366.00	1.93	117.37	10,326.54	-267.96	-534.88	-263.28	598.24	243.39	0.88	94.00
110	10,460.00	1.76	107.00	10,420.49	-269.11	-532.09	-264.46	596.27	243.17	0.40	94.00
111	10,555.00	1.19	87.23	10,515.46	-269.49	-529.71	-264.86	594.32	243.04	0.80	95.00
112	10,649.00	1.32	86.96	10,609.44	-269.39	-527.65	-264.77	592.44	242.95	0.14	94.00
113	10,743.00	0.66	86.88	10,703.42	-269.30	-526.03	-264.70	590.96	242.89	0.70	94.00
114	10,837.00	0.40	206.14	10,797.42	-269.56	-525.64	-264.97	590.73	242.85	0.98	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
115	10,931.00	1.76	245.08	10,891.40	-270.47	-527.09	-265.86	592.43	242.84	1.56	94.00
116	11,025.00	0.97	278.13	10,985.38	-270.96	-529.19	-266.33	594.52	242.89	1.15	94.00
117	11,120.00	0.62	256.33	11,080.37	-270.97	-530.48	-266.33	595.68	242.94	0.48	95.00
118	11,214.00	0.66	255.19	11,174.36	-271.23	-531.50	-266.58	596.70	242.96	0.04	94.00
119	11,308.00	0.48	257.56	11,268.36	-271.45	-532.41	-266.80	597.61	242.98	0.19	94.00
120	11,403.00	0.92	221.00	11,363.35	-272.11	-533.30	-267.45	598.71	242.97	0.64	95.00
121	11,497.00	0.75	244.46	11,457.34	-272.95	-534.35	-268.27	600.02	242.94	0.40	94.00
122	11,591.00	0.92	359.25	11,551.33	-272.46	-534.91	-267.78	600.30	243.01	1.50	94.00
123	11,685.00	1.49	352.04	11,645.31	-270.49	-535.09	-265.81	599.57	243.18	0.63	94.00
124	11,779.00	1.80	358.19	11,739.27	-267.81	-535.31	-263.13	598.56	243.42	0.38	94.00
125	11,873.00	1.76	358.99	11,833.23	-264.89	-535.38	-260.21	597.32	243.68	0.05	94.00
126	11,968.00	1.23	357.49	11,928.20	-262.41	-535.45	-257.73	596.29	243.89	0.56	95.00
127	12,062.00	0.88	9.71	12,022.18	-260.69	-535.37	-256.01	595.47	244.04	0.44	94.00
128	12,156.00	0.62	309.68	12,116.17	-259.66	-535.64	-254.97	595.26	244.14	0.83	94.00
129	12,178.00	0.75	302.56	12,138.17	-259.50	-535.85	-254.82	595.38	244.16	0.71	22.00
130	12,247.00	0.70	303.61	12,207.17	-259.03	-536.59	-254.33	595.83	244.23	0.07	69.00
131	12,292.00	1.27	346.24	12,252.16	-258.39	-536.93	-253.69	595.87	244.30	1.98	45.00
132	12,341.00	5.27	0.39	12,301.07	-255.61	-537.05	-250.91	594.77	244.55	8.27	49.00
133	12,388.00	9.19	1.80	12,347.69	-249.70	-536.91	-245.00	592.14	245.06	8.35	47.00
134	12,435.00	12.84	3.29	12,393.81	-240.73	-536.50	-236.04	588.03	245.83	7.79	47.00
135	12,482.00	18.90	1.80	12,439.00	-227.90	-535.96	-223.21	582.40	246.96	12.92	47.00
136	12,529.00	23.87	359.60	12,482.75	-210.77	-535.78	-206.08	575.75	248.53	10.71	47.00
137	12,624.00	33.93	357.67	12,565.82	-164.94	-537.00	-160.24	561.76	252.93	10.63	95.00
138	12,718.00	46.46	1.89	12,637.49	-104.42	-536.94	-99.73	547.00	259.00	13.63	94.00
139	12,812.00	59.56	0.83	12,693.92	-29.52	-535.22	-24.85	536.04	266.84	13.96	94.00
140	12,906.00	72.48	359.07	12,732.05	56.18	-535.37	60.85	538.30	275.99	13.85	94.00
141	13,000.00	83.78	359.16	12,751.35	148.01	-536.78	152.69	556.81	285.42	12.02	94.00
142	13,047.00	89.58	358.46	12,754.07	194.90	-537.76	199.58	571.99	289.92	12.43	47.00
143	13,094.00	89.49	357.14	12,754.46	241.86	-539.56	246.56	591.29	294.14	2.81	47.00
144	13,188.00	90.07	356.88	12,754.82	335.73	-544.46	340.47	639.65	301.66	0.68	94.00
145	13,283.00	89.10	357.05	12,755.50	430.59	-549.49	435.37	698.11	308.08	1.04	95.00
146	13,311.00	88.84	356.70	12,756.01	458.55	-551.02	463.34	716.86	309.77	1.56	28.00
147	13,406.00	90.42	358.81	12,756.62	553.47	-554.74	558.29	783.62	314.93	2.77	95.00
148	13,500.00	90.77	0.57	12,755.65	647.46	-555.25	652.28	852.94	319.38	1.91	94.00
149	13,594.00	89.54	0.04	12,755.39	741.45	-554.75	746.26	926.01	323.20	1.42	94.00
150	13,688.00	89.10	0.57	12,756.51	835.44	-554.25	840.25	1,002.58	326.44	0.73	94.00
151	13,782.00	90.07	1.01	12,757.19	929.43	-552.95	934.22	1,081.48	329.25	1.13	94.00
152	13,877.00	90.99	1.18	12,756.31	1,024.41	-551.14	1,029.18	1,163.26	331.72	0.98	95.00
153	13,971.00	90.59	2.24	12,755.01	1,118.36	-548.33	1,123.10	1,245.55	333.88	1.21	94.00
154	14,065.00	89.63	2.41	12,754.83	1,212.28	-544.52	1,216.98	1,328.95	335.81	1.04	94.00
155	14,159.00	89.76	3.38	12,755.33	1,306.15	-539.77	1,310.81	1,413.29	337.55	1.04	94.00
156	14,253.00	88.48	2.32	12,756.78	1,400.02	-535.10	1,404.64	1,498.80	339.08	1.77	94.00
157	14,348.00	88.97	1.45	12,758.89	1,494.95	-531.98	1,499.53	1,586.78	340.41	1.05	95.00
158	14,442.00	89.32	358.63	12,760.29	1,588.93	-531.91	1,593.51	1,675.59	341.49	3.02	94.00
159	14,536.00	90.02	358.46	12,760.83	1,682.89	-534.30	1,687.49	1,765.67	342.39	0.77	94.00
160	14,630.00	90.51	358.28	12,760.40	1,776.86	-536.97	1,781.47	1,856.22	343.19	0.56	94.00
161	14,724.00	91.38	358.11	12,758.85	1,870.80	-539.93	1,875.44	1,947.15	343.90	0.94	94.00
162	14,819.00	90.46	358.72	12,757.32	1,965.75	-542.56	1,970.40	2,039.25	344.57	1.16	95.00
163	14,913.00	88.53	359.60	12,758.15	2,059.73	-543.94	2,064.39	2,130.34	345.21	2.26	94.00
164	15,007.00	87.56	358.81	12,761.36	2,153.66	-545.24	2,158.34	2,221.61	345.79	1.33	94.00
165	15,101.00	89.19	358.99	12,764.02	2,247.60	-547.04	2,252.29	2,313.22	346.32	1.74	94.00
166	15,196.00	89.85	359.07	12,764.82	2,342.58	-548.65	2,347.28	2,405.98	346.82	0.70	95.00
167	15,290.00	90.68	359.34	12,764.39	2,436.57	-549.96	2,441.28	2,497.87	347.28	0.93	94.00
168	15,384.00	90.37	359.69	12,763.52	2,530.57	-550.75	2,535.28	2,589.81	347.72	0.50	94.00
169	15,478.00	90.11	359.16	12,763.13	2,624.56	-551.69	2,629.27	2,681.92	348.13	0.63	94.00
170	15,573.00	89.23	357.93	12,763.68	2,719.53	-554.11	2,724.26	2,775.40	348.48	1.59	95.00
171	15,670.00	89.67	359.60	12,764.61	2,816.49	-556.20	2,821.24	2,870.89	348.83	1.78	97.00
172	15,764.00	89.76	0.83	12,765.08	2,910.49	-555.84	2,915.23	2,963.09	349.19	1.31	94.00
173	15,858.00	89.93	0.65	12,765.33	3,004.48	-554.63	3,009.21	3,055.25	349.54	0.26	94.00
174	15,953.00	90.20	0.39	12,765.22	3,099.48	-553.77	3,104.19	3,148.56	349.87	0.39	95.00
175	16,047.00	89.85	359.07	12,765.18	3,193.48	-554.21	3,198.19	3,241.21	350.15	1.45	94.00
176	16,141.00	89.89	0.13	12,765.40	3,287.47	-554.87	3,292.19	3,333.97	350.42	1.13	94.00
177	16,235.00	90.20	357.93	12,765.32	3,381.45	-556.46	3,386.18	3,426.93	350.66	2.36	94.00
178	16,329.00	90.29	359.16	12,764.92	3,475.42	-558.84	3,480.16	3,520.06	350.87	1.31	94.00
179	16,423.00	89.93	357.32	12,764.74	3,569.37	-561.73	3,574.14	3,613.30	351.06	1.99	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
180	16,517.00	89.85	358.19	12,764.92	3,663.30	-565.41	3,668.09	3,706.67	351.23	0.93	94.00
181	16,611.00	90.51	357.67	12,764.62	3,757.23	-568.81	3,762.05	3,800.05	351.39	0.89	94.00
182	16,705.00	91.03	358.72	12,763.36	3,851.18	-571.77	3,856.02	3,893.39	351.56	1.25	94.00
183	16,800.00	90.37	357.67	12,762.20	3,946.12	-574.76	3,950.99	3,987.76	351.71	1.31	95.00
184	16,894.00	91.12	357.32	12,760.98	4,040.02	-578.87	4,044.92	4,081.28	351.85	0.88	94.00
185	16,988.00	90.77	359.60	12,759.43	4,133.97	-581.40	4,138.89	4,174.65	351.99	2.45	94.00
186	17,082.00	90.24	359.51	12,758.60	4,227.96	-582.13	4,232.88	4,267.85	352.16	0.57	94.00
187	17,176.00	90.20	358.99	12,758.24	4,321.95	-583.36	4,326.88	4,361.15	352.31	0.55	94.00
188	17,271.00	89.85	358.02	12,758.20	4,416.92	-585.83	4,421.86	4,455.60	352.44	1.09	95.00
189	17,365.00	91.38	359.69	12,757.19	4,510.89	-587.71	4,515.85	4,549.01	352.58	2.41	94.00
190	17,459.00	92.13	2.06	12,754.31	4,604.83	-586.28	4,609.77	4,642.00	352.74	2.64	94.00
191	17,554.00	89.19	0.39	12,753.21	4,699.79	-584.25	4,704.71	4,735.96	352.91	3.56	95.00
192	17,648.00	89.14	1.18	12,754.58	4,793.77	-582.96	4,798.67	4,829.08	353.07	0.84	94.00
193	17,742.00	88.84	359.34	12,756.24	4,887.75	-582.53	4,892.64	4,922.34	353.20	1.98	94.00
194	17,836.00	88.75	359.34	12,758.22	4,981.72	-583.62	4,986.62	5,015.79	353.32	0.10	94.00
195	17,930.00	90.20	359.16	12,759.08	5,075.70	-584.85	5,080.62	5,109.29	353.43	1.55	94.00
196	18,025.00	89.27	359.07	12,759.52	5,170.69	-586.31	5,175.61	5,203.83	353.53	0.98	95.00
197	18,119.00	89.23	358.37	12,760.75	5,264.66	-588.41	5,269.59	5,297.44	353.62	0.75	94.00
198	18,213.00	90.15	359.78	12,761.26	5,358.64	-589.93	5,363.59	5,391.02	353.72	1.79	94.00
199	18,307.00	90.20	359.86	12,760.97	5,452.64	-590.23	5,457.58	5,484.49	353.82	0.10	94.00
200	18,401.00	90.73	0.83	12,760.21	5,546.64	-589.66	5,551.57	5,577.89	353.93	1.18	94.00
201	18,495.00	89.71	359.16	12,759.85	5,640.63	-589.67	5,645.56	5,671.37	354.03	2.08	94.00
202	18,590.00	89.76	359.25	12,760.29	5,735.62	-590.99	5,740.56	5,765.99	354.12	0.11	95.00
203	18,684.00	89.63	359.95	12,760.79	5,829.62	-591.64	5,834.56	5,859.56	354.20	0.76	94.00
204	18,777.00	89.27	359.95	12,761.68	5,922.61	-591.72	5,927.55	5,952.10	354.29	0.39	93.00
205	18,872.00	89.49	0.48	12,762.71	6,017.60	-591.37	6,022.54	6,046.59	354.39	0.60	95.00
206	18,966.00	89.98	359.34	12,763.14	6,111.60	-591.52	6,116.53	6,140.16	354.47	1.32	94.00
207	19,060.00	89.45	359.78	12,763.61	6,205.60	-592.24	6,210.53	6,233.79	354.55	0.73	94.00
208	19,154.00	91.12	358.28	12,763.14	6,299.58	-593.83	6,304.52	6,327.50	354.61	2.39	94.00
209	19,248.00	90.51	357.75	12,761.81	6,393.51	-597.08	6,398.48	6,421.33	354.66	0.86	94.00
210	19,343.00	87.60	356.70	12,763.37	6,488.37	-601.68	6,493.38	6,516.21	354.70	3.26	95.00
211	19,437.00	89.89	356.88	12,765.43	6,582.20	-606.94	6,587.24	6,610.12	354.73	2.44	94.00
212	19,531.00	93.19	358.99	12,762.90	6,676.08	-610.33	6,681.16	6,703.92	354.78	4.17	94.00
213	19,625.00	88.57	358.90	12,761.46	6,770.03	-612.06	6,775.12	6,797.64	354.83	4.92	94.00
214	19,719.00	89.14	358.81	12,763.34	6,863.99	-613.94	6,869.09	6,891.40	354.89	0.61	94.00
215	19,814.00	91.08	359.86	12,763.16	6,958.98	-615.04	6,964.08	6,986.11	354.95	2.32	95.00
216	19,908.00	90.46	359.25	12,761.89	7,052.97	-615.77	7,058.07	7,079.80	355.01	0.93	94.00
217	20,002.00	90.51	358.55	12,761.10	7,146.95	-617.58	7,152.07	7,173.58	355.06	0.75	94.00
218	20,097.00	90.99	359.16	12,759.85	7,241.92	-619.47	7,247.05	7,268.37	355.11	0.82	95.00
219	20,191.00	90.99	359.07	12,758.23	7,335.89	-620.93	7,341.03	7,362.13	355.16	0.10	94.00
220	20,285.00	89.58	358.28	12,757.76	7,429.87	-623.10	7,435.02	7,455.95	355.21	1.72	94.00
221	20,379.00	93.01	358.81	12,755.64	7,523.80	-625.49	7,528.97	7,549.75	355.25	3.69	94.00
222	20,460.00	89.89	358.81	12,753.59	7,604.74	-627.17	7,609.93	7,630.56	355.29	3.85	81.00
PTB	20,506.00	89.89	358.81	12,753.68	7,650.73	-628.12	7,655.92	7,676.47	355.31	0.00	46.00