



Total Directional
Services, LLC

USA Operations

Final MWD Survey Certification

Lea County, NM

Client: DEVON

Well Name: Bell Lake 19-18 State Com 17H

Total Job No: 2019-164-540

API No: 30-025-45455

Start Date: 03/01/2019

End Date: 03/20/2019

Measured Start Depth: 0 feet

Measured End Depth: 19517 feet

Vertical Section from well center at TD: 9925.57 feet

HOBBS OCD

SEP 25 2019

RECEIVED

I, Tristen Fantin, 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: 03/20/19

Signed: *Tristen Fantin*



Bell Lake 19-18 State Com 17H

Directional Survey Report

Start date: 3/1/2019

End date: 3/20/2019

Company Name: Devon Energy

Survey Company: Total Directional Services

Well Name: Bell Lake 19-18 State Com 17H

State/Prov: NM

Job Number: 2019-164-540

Field: New Mexico East

County: Lea County

Proposed Azimuth: 359.67

Rig ID: HP 540

Country: USA

Declination: 6.4

KB: 3580

API/UWI: 30-254-5455

Location: Lea County

North Reference: Grid

Latitude/Longitude: 32.19732 / -103.613612

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	178.00	1.27	259.70	177.99	-0.35	-1.94	-0.34	1.97	259.70	0.71	178.00
2	269.00	1.49	253.02	268.96	-0.88	-4.06	-0.86	4.16	257.80	0.30	91.00
3	360.00	1.54	244.67	359.93	-1.75	-6.30	-1.71	6.54	254.50	0.25	91.00
4	449.00	1.14	237.64	448.90	-2.73	-8.13	-2.69	8.58	251.42	0.49	89.00
5	540.00	0.75	264.45	539.89	-3.27	-9.49	-3.22	10.04	250.96	0.64	91.00
6	629.00	0.48	245.99	628.89	-3.48	-10.41	-3.42	10.98	251.50	0.37	89.00
7	721.00	0.57	257.06	720.88	-3.74	-11.21	-3.68	11.81	251.53	0.15	92.00
8	812.00	0.57	238.69	811.88	-4.08	-12.03	-4.01	12.71	251.28	0.20	91.00
9	904.00	0.75	257.06	903.87	-4.45	-13.01	-4.38	13.75	251.11	0.30	92.00
10	997.00	0.75	273.06	996.86	-4.56	-14.21	-4.47	14.92	252.23	0.22	93.00
11	1,087.00	1.01	246.96	1,086.85	-4.83	-15.53	-4.74	16.27	252.71	0.52	90.00
12	1,115.00	0.70	246.87	1,114.85	-5.00	-15.92	-4.91	16.68	252.57	1.11	28.00
13	1,235.00	0.75	242.65	1,234.84	-5.65	-17.29	-5.55	18.19	251.91	0.06	120.00
14	1,325.00	0.88	232.02	1,324.83	-6.34	-18.35	-6.24	19.42	250.94	0.22	90.00
15	1,416.00	0.18	278.25	1,415.83	-6.75	-19.05	-6.64	20.21	250.48	0.84	91.00
16	1,510.00	0.57	37.60	1,509.83	-6.36	-18.91	-6.25	19.95	251.41	0.72	94.00
17	1,604.00	0.92	43.49	1,603.82	-5.44	-18.10	-5.34	18.90	253.27	0.38	94.00
18	1,698.00	0.62	36.99	1,697.81	-4.49	-17.28	-4.39	17.85	255.44	0.33	94.00
19	1,793.00	0.66	26.18	1,792.80	-3.59	-16.73	-3.49	17.11	257.90	0.13	95.00
20	1,887.00	0.70	28.28	1,886.80	-2.60	-16.22	-2.50	16.42	260.91	0.05	94.00
21	1,981.00	0.48	33.56	1,980.79	-1.76	-15.73	-1.67	15.83	263.61	0.24	94.00
22	2,075.00	0.48	36.81	2,074.79	-1.12	-15.27	-1.03	15.31	265.81	0.03	94.00
23	2,170.00	0.53	34.96	2,169.78	-0.44	-14.78	-0.35	14.79	268.30	0.06	95.00
24	2,264.00	0.40	24.07	2,263.78	0.22	-14.40	0.30	14.40	270.86	0.17	94.00
25	2,358.00	0.35	18.53	2,357.78	0.79	-14.17	0.87	14.20	273.18	0.07	94.00
26	2,452.00	0.31	6.58	2,451.78	1.31	-14.05	1.39	14.12	275.34	0.08	94.00
27	2,547.00	0.18	20.29	2,546.78	1.71	-13.97	1.79	14.08	276.97	0.15	95.00
28	2,641.00	0.13	346.98	2,640.78	1.95	-13.95	2.03	14.08	277.96	0.11	94.00
29	2,735.00	0.13	64.67	2,734.78	2.10	-13.87	2.18	14.03	278.61	0.17	94.00
30	2,830.00	0.66	199.76	2,829.77	1.63	-13.96	1.71	14.06	276.66	0.80	95.00
31	2,924.00	1.41	219.80	2,923.76	0.23	-14.88	0.32	14.89	270.90	0.87	94.00
32	3,018.00	2.55	224.46	3,017.70	-2.15	-17.09	-2.05	17.22	262.84	1.22	94.00
33	3,112.00	3.96	227.88	3,111.55	-5.82	-20.96	-5.70	21.75	254.49	1.51	94.00
34	3,206.00	5.49	226.92	3,205.22	-11.07	-26.65	-10.91	28.86	247.45	1.63	94.00
35	3,301.00	6.99	224.81	3,299.66	-18.27	-34.05	-18.08	38.64	241.78	1.60	95.00
36	3,395.00	7.43	225.42	3,392.92	-26.60	-42.41	-26.35	50.06	237.91	0.48	94.00
37	3,489.00	7.03	225.42	3,486.17	-34.90	-50.83	-34.61	61.66	235.53	0.43	94.00
38	3,583.00	7.30	226.57	3,579.43	-43.04	-59.27	-42.70	73.25	234.01	0.33	94.00
39	3,677.00	6.73	227.09	3,672.73	-50.90	-67.64	-50.51	84.65	233.04	0.61	94.00
40	3,772.00	7.30	229.73	3,767.02	-58.59	-76.32	-58.15	96.22	232.49	0.69	95.00
41	3,866.00	6.99	230.17	3,860.29	-66.11	-85.27	-65.62	107.90	232.21	0.33	94.00
42	3,960.00	7.34	227.01	3,953.56	-73.87	-94.06	-73.33	119.60	231.85	0.56	94.00
43	4,054.00	7.08	226.04	4,046.81	-81.99	-102.62	-81.39	131.35	231.38	0.31	94.00
44	4,149.00	7.52	226.57	4,141.04	-90.32	-111.35	-89.68	143.38	230.95	0.47	95.00
45	4,243.00	7.12	226.74	4,234.28	-98.55	-120.06	-97.85	155.32	230.62	0.43	94.00
46	4,337.00	7.43	228.68	4,327.52	-106.55	-128.86	-105.81	167.21	230.41	0.42	94.00
47	4,431.00	7.21	227.80	4,420.75	-114.53	-137.80	-113.73	179.18	230.27	0.26	94.00
48	4,526.00	7.08	227.88	4,515.01	-122.46	-146.56	-121.61	190.98	230.12	0.14	95.00
49	4,620.00	7.60	232.89	4,608.25	-130.09	-155.81	-129.19	202.98	230.14	0.88	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
50	4,714.00	7.47	231.93	4,701.43	-137.61	-165.58	-136.66	215.30	230.27	0.19	94.00
51	4,809.00	7.12	227.80	4,795.66	-145.37	-174.80	-144.36	227.35	230.25	0.66	95.00
52	4,903.00	7.47	234.56	4,888.91	-152.83	-184.10	-151.77	239.27	230.30	0.99	94.00
53	4,997.00	6.99	235.27	4,982.16	-159.63	-193.77	-158.51	251.06	230.52	0.52	94.00
54	5,045.00	6.68	234.48	5,029.82	-162.92	-198.45	-161.77	256.76	230.62	0.67	48.00
55	5,153.00	7.03	234.30	5,137.04	-170.42	-208.93	-169.22	269.62	230.80	0.32	108.00
56	5,247.00	7.60	235.44	5,230.28	-177.31	-218.72	-176.04	281.56	230.97	0.63	94.00
57	5,341.00	7.25	234.92	5,323.49	-184.24	-228.69	-182.92	293.67	231.14	0.38	94.00
58	5,435.00	6.95	236.06	5,416.77	-190.83	-238.26	-189.45	305.26	231.31	0.35	94.00
59	5,529.00	7.16	230.35	5,510.06	-197.74	-247.49	-196.31	316.79	231.38	0.78	94.00
60	5,624.00	7.12	228.94	5,604.32	-205.38	-256.49	-203.90	328.59	231.31	0.19	95.00
61	5,718.00	6.95	227.80	5,697.62	-213.03	-265.10	-211.50	340.09	231.21	0.23	94.00
62	5,812.00	7.69	232.10	5,790.85	-220.72	-274.27	-219.13	352.05	231.18	0.98	94.00
63	5,906.00	6.90	231.40	5,884.09	-228.10	-283.65	-226.46	363.99	231.19	0.85	94.00
64	6,001.00	7.30	228.76	5,978.36	-235.64	-292.65	-233.95	375.72	231.16	0.54	95.00
65	6,095.00	7.25	229.11	6,071.60	-243.46	-301.62	-241.72	387.62	231.09	0.07	94.00
66	6,189.00	6.95	228.50	6,164.88	-251.11	-310.36	-249.32	399.23	231.02	0.33	94.00
67	6,283.00	6.95	226.48	6,258.19	-258.80	-318.75	-256.96	410.58	230.93	0.26	94.00
68	6,377.00	7.91	228.15	6,351.40	-267.03	-327.69	-265.14	422.71	230.82	1.05	94.00
69	6,471.00	8.13	227.53	6,444.48	-275.83	-337.41	-273.88	435.81	230.73	0.25	94.00
70	6,566.00	7.91	227.53	6,538.55	-284.78	-347.19	-282.78	449.04	230.64	0.23	95.00
71	6,660.00	7.47	227.01	6,631.71	-293.31	-356.43	-291.26	461.60	230.55	0.47	94.00
72	6,754.00	7.65	224.81	6,724.89	-301.92	-365.31	-299.81	473.92	230.43	0.36	94.00
73	6,848.00	7.12	226.21	6,818.11	-310.39	-373.92	-308.23	485.96	230.30	0.60	94.00
74	6,942.00	6.99	226.57	6,911.40	-318.35	-382.28	-316.15	497.48	230.21	0.15	94.00
75	7,036.00	7.25	231.93	7,004.67	-325.94	-391.10	-323.68	509.12	230.19	0.76	94.00
76	7,131.00	7.25	229.55	7,098.91	-333.53	-400.38	-331.22	521.10	230.21	0.32	95.00
77	7,225.00	6.99	227.97	7,192.19	-341.21	-409.15	-338.84	532.75	230.17	0.35	94.00
78	7,319.00	6.95	225.60	7,285.50	-349.01	-417.46	-346.60	544.13	230.10	0.31	94.00
79	7,413.00	7.03	229.64	7,378.80	-356.72	-425.90	-354.26	555.56	230.05	0.53	94.00
80	7,508.00	6.81	228.24	7,473.11	-364.23	-434.54	-361.73	567.00	230.03	0.29	95.00
81	7,602.00	6.46	234.74	7,566.48	-371.00	-443.01	-368.44	577.84	230.06	0.88	94.00
82	7,696.00	7.21	237.11	7,659.81	-377.25	-452.28	-374.64	588.97	230.17	0.85	94.00
83	7,790.00	6.46	236.23	7,753.14	-383.40	-461.63	-380.73	600.08	230.29	0.81	94.00
84	7,885.00	7.21	235.27	7,847.46	-389.76	-470.97	-387.05	611.34	230.39	0.80	95.00
85	7,979.00	7.08	233.51	7,940.73	-396.57	-480.48	-393.80	623.00	230.46	0.27	94.00
86	8,073.00	6.86	232.45	8,034.04	-403.44	-489.59	-400.61	634.39	230.51	0.27	94.00
87	8,167.00	6.42	231.84	8,127.41	-410.11	-498.17	-407.23	645.26	230.54	0.47	94.00
88	8,261.00	5.01	224.02	8,220.94	-416.30	-505.16	-413.39	654.59	230.51	1.71	94.00
89	8,356.00	4.18	219.89	8,315.63	-421.94	-510.26	-419.00	662.12	230.41	0.94	95.00
90	8,450.00	2.99	219.27	8,409.45	-426.47	-514.01	-423.50	667.89	230.32	1.27	94.00
91	8,544.00	1.93	213.03	8,503.36	-429.70	-516.42	-426.71	671.81	230.24	1.16	94.00
92	8,638.00	1.19	218.13	8,597.33	-431.79	-517.89	-428.80	674.28	230.18	0.80	94.00
93	8,732.00	0.40	197.39	8,691.32	-432.87	-518.59	-429.88	675.51	230.15	0.88	94.00
94	8,793.00	0.44	204.86	8,752.31	-433.29	-518.75	-430.29	675.90	230.13	0.11	61.00
95	8,855.00	1.14	341.35	8,814.31	-432.92	-519.05	-429.92	675.89	230.17	2.40	62.00
96	8,884.00	4.22	352.95	8,843.28	-431.59	-519.27	-428.59	675.21	230.27	10.73	29.00
97	8,978.00	15.92	356.20	8,935.67	-415.23	-520.55	-412.23	665.88	231.42	12.46	94.00
98	9,025.00	20.93	358.75	8,980.24	-400.40	-521.16	-397.39	657.22	232.47	10.79	47.00
99	9,072.00	25.41	359.81	9,023.44	-381.91	-521.38	-378.90	646.29	233.78	9.57	47.00
100	9,120.00	30.34	359.19	9,065.86	-359.48	-521.59	-356.47	633.47	235.43	10.29	48.00
101	9,166.00	35.17	358.05	9,104.53	-334.61	-522.20	-331.59	620.21	237.35	10.58	46.00
102	9,261.00	42.38	357.35	9,178.55	-275.20	-524.62	-272.17	592.42	242.32	7.60	95.00
103	9,355.00	49.42	358.67	9,243.93	-207.78	-526.91	-204.74	566.40	248.48	7.56	94.00
104	9,402.00	54.78	359.72	9,272.79	-170.71	-527.42	-167.67	554.36	252.06	11.54	47.00
105	9,449.00	60.32	0.51	9,298.00	-131.07	-527.33	-128.03	543.38	256.04	11.87	47.00
106	9,543.00	71.67	358.58	9,336.18	-45.35	-528.08	-42.30	530.02	265.09	12.22	94.00
107	9,590.00	76.77	358.84	9,348.95	-0.14	-529.10	2.90	529.10	269.98	10.86	47.00
108	9,637.00	82.22	359.11	9,357.52	46.04	-529.92	49.10	531.92	274.97	11.61	47.00
109	9,687.00	87.47	359.11	9,362.01	95.82	-530.69	98.87	539.27	280.23	10.50	50.00
110	9,782.00	87.87	359.37	9,365.87	190.73	-531.95	193.79	565.11	289.73	0.50	95.00
111	9,876.00	89.89	359.54	9,367.71	284.70	-532.85	287.77	604.14	298.12	2.16	94.00
112	9,970.00	89.85	359.63	9,367.92	378.70	-533.53	381.77	654.27	305.37	0.10	94.00
113	10,064.00	89.63	359.37	9,368.35	472.70	-534.35	475.77	713.42	311.50	0.36	94.00
114	10,158.00	90.42	359.54	9,368.31	566.69	-535.24	569.76	779.50	316.63	0.86	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
115	10,253.00	91.12	358.40	9,367.03	661.67	-536.95	664.75	852.12	320.94	1.41	95.00
116	10,347.00	91.91	358.05	9,364.55	755.59	-539.86	758.68	928.63	324.45	0.92	94.00
117	10,441.00	91.30	359.19	9,361.91	849.52	-542.12	852.63	1,007.76	327.46	1.38	94.00
118	10,535.00	91.47	359.37	9,359.64	943.49	-543.30	946.60	1,088.73	330.06	0.26	94.00
119	10,630.00	91.12	359.81	9,357.50	1,038.46	-543.98	1,041.57	1,172.31	332.35	0.59	95.00
120	10,721.00	91.38	359.90	9,355.51	1,129.44	-544.21	1,132.55	1,253.71	334.27	0.30	91.00
121	10,812.00	89.41	359.90	9,354.88	1,220.43	-544.37	1,223.54	1,336.33	335.96	2.16	91.00
122	10,902.00	89.27	359.81	9,355.92	1,310.42	-544.60	1,313.54	1,419.08	337.43	0.18	90.00
123	10,992.00	90.86	359.11	9,355.82	1,400.42	-545.45	1,403.53	1,502.89	338.72	1.93	90.00
124	11,082.00	90.99	358.49	9,354.36	1,490.38	-547.33	1,493.51	1,587.71	339.83	0.70	90.00
125	11,172.00	91.25	358.31	9,352.61	1,580.33	-549.85	1,583.47	1,673.25	340.82	0.35	90.00
126	11,264.00	91.12	359.28	9,350.70	1,672.29	-551.78	1,675.44	1,760.97	341.74	1.06	92.00
127	11,356.00	91.34	359.02	9,348.73	1,764.26	-553.14	1,767.42	1,848.94	342.59	0.37	92.00
128	11,447.00	90.42	0.16	9,347.33	1,855.24	-553.79	1,858.40	1,936.13	343.38	1.61	91.00
129	11,539.00	90.99	359.37	9,346.20	1,947.23	-554.17	1,950.39	2,024.56	344.11	1.06	92.00
130	11,630.00	89.58	0.25	9,345.75	2,038.23	-554.47	2,041.39	2,112.30	344.78	1.83	91.00
131	11,720.00	90.29	0.16	9,345.85	2,128.23	-554.15	2,131.38	2,199.19	345.41	0.80	90.00
132	11,810.00	91.30	0.51	9,344.60	2,218.22	-553.63	2,221.37	2,286.26	345.99	1.19	90.00
133	11,904.00	91.43	0.69	9,342.36	2,312.18	-552.64	2,315.33	2,377.31	346.56	0.24	94.00
134	11,998.00	91.96	0.34	9,339.58	2,406.14	-551.80	2,409.28	2,468.60	347.08	0.68	94.00
135	12,092.00	90.37	0.25	9,337.67	2,500.12	-551.31	2,503.25	2,560.18	347.56	1.69	94.00
136	12,186.00	88.62	0.69	9,338.50	2,594.11	-550.54	2,597.23	2,651.88	348.02	1.92	94.00
137	12,281.00	88.88	1.04	9,340.57	2,689.07	-549.11	2,692.19	2,744.56	348.46	0.46	95.00
138	12,375.00	90.90	0.60	9,340.75	2,783.06	-547.76	2,786.17	2,836.45	348.87	2.20	94.00
139	12,469.00	91.21	0.51	9,339.02	2,877.04	-546.85	2,880.14	2,928.55	349.24	0.34	94.00
140	12,563.00	90.15	0.42	9,337.90	2,971.03	-546.09	2,974.12	3,020.80	349.58	1.13	94.00
141	12,657.00	89.10	358.93	9,338.52	3,065.02	-546.62	3,068.12	3,113.38	349.89	1.94	94.00
142	12,752.00	89.05	358.67	9,340.05	3,159.98	-548.61	3,163.09	3,207.25	350.15	0.28	95.00
143	12,846.00	89.10	358.40	9,341.57	3,253.94	-551.02	3,257.06	3,300.27	350.39	0.29	94.00
144	12,940.00	89.32	358.31	9,342.87	3,347.89	-553.71	3,351.03	3,393.37	350.61	0.25	94.00
145	13,034.00	90.73	359.54	9,342.82	3,441.87	-555.48	3,445.01	3,486.41	350.83	1.99	94.00
146	13,129.00	91.03	359.02	9,341.37	3,536.85	-556.67	3,540.00	3,580.39	351.06	0.63	95.00
147	13,223.00	90.90	0.69	9,339.78	3,630.84	-556.91	3,633.98	3,673.30	351.28	1.78	94.00
148	13,317.00	89.23	1.21	9,339.68	3,724.82	-555.35	3,727.96	3,765.99	351.52	1.86	94.00
149	13,411.00	88.88	1.04	9,341.23	3,818.79	-553.50	3,821.91	3,858.69	351.75	0.41	94.00
150	13,506.00	88.70	0.78	9,343.23	3,913.76	-552.00	3,916.87	3,952.49	351.97	0.33	95.00
151	13,600.00	89.71	359.81	9,344.54	4,007.74	-551.51	4,010.85	4,045.51	352.16	1.49	94.00
152	13,694.00	89.36	359.98	9,345.30	4,101.74	-551.68	4,104.85	4,138.67	352.34	0.41	94.00
153	13,789.00	89.10	359.19	9,346.58	4,196.73	-552.37	4,199.84	4,232.92	352.50	0.88	95.00
154	13,884.00	90.77	359.81	9,346.68	4,291.72	-553.20	4,294.84	4,327.23	352.66	1.88	95.00
155	13,978.00	90.29	1.39	9,345.81	4,385.71	-552.22	4,388.82	4,420.34	352.82	1.76	94.00
156	14,072.00	90.64	0.42	9,345.05	4,479.69	-550.73	4,482.79	4,513.42	352.99	1.10	94.00
157	14,166.00	88.70	359.11	9,345.59	4,573.68	-551.12	4,576.78	4,606.77	353.13	2.49	94.00
158	14,260.00	89.98	358.75	9,346.68	4,667.66	-552.87	4,670.76	4,700.29	353.24	1.41	94.00
159	14,354.00	90.64	359.90	9,346.17	4,761.65	-553.98	4,764.76	4,793.77	353.36	1.41	94.00
160	14,449.00	93.27	1.74	9,342.93	4,856.57	-552.62	4,859.67	4,887.91	353.51	3.38	95.00
161	14,543.00	89.32	0.07	9,340.80	4,950.51	-551.14	4,953.61	4,981.10	353.65	4.56	94.00
162	14,638.00	88.57	359.02	9,342.55	5,045.49	-551.89	5,048.59	5,075.59	353.76	1.36	95.00
163	14,732.00	89.01	358.67	9,344.54	5,139.45	-553.79	5,142.56	5,169.20	353.85	0.60	94.00
164	14,826.00	91.52	358.84	9,344.10	5,233.42	-555.83	5,236.54	5,262.85	353.94	2.68	94.00
165	14,920.00	90.73	359.90	9,342.26	5,327.39	-556.86	5,330.51	5,356.42	354.03	1.41	94.00
166	15,014.00	88.62	359.72	9,342.79	5,421.39	-557.18	5,424.51	5,449.94	354.13	2.25	94.00
167	15,109.00	88.00	358.93	9,345.59	5,516.34	-558.29	5,519.46	5,544.52	354.22	1.06	95.00
168	15,203.00	88.75	357.87	9,348.26	5,610.26	-560.92	5,613.40	5,638.23	354.29	1.38	94.00
169	15,296.00	89.34	358.23	9,349.81	5,703.19	-564.08	5,706.35	5,731.02	354.35	0.74	93.00
170	15,391.00	89.60	358.67	9,350.69	5,798.16	-566.65	5,801.32	5,825.78	354.42	0.54	95.00
171	15,485.00	87.85	357.00	9,352.78	5,892.06	-570.20	5,895.24	5,919.58	354.47	2.57	94.00
172	15,579.00	89.78	358.49	9,354.72	5,985.96	-573.90	5,989.16	6,013.41	354.52	2.59	94.00
173	15,674.00	91.36	359.54	9,353.78	6,080.93	-575.53	6,084.15	6,108.11	354.59	2.00	95.00
174	15,768.00	89.87	359.19	9,352.77	6,174.92	-576.57	6,178.14	6,201.78	354.67	1.63	94.00
175	15,863.00	90.04	0.51	9,352.84	6,269.92	-576.82	6,273.14	6,296.40	354.74	1.40	95.00
176	15,957.00	90.31	0.51	9,352.55	6,363.91	-575.99	6,367.13	6,389.93	354.83	0.29	94.00
177	16,052.00	89.60	359.98	9,352.63	6,458.91	-575.58	6,462.12	6,484.51	354.91	0.93	95.00
178	16,146.00	89.08	0.34	9,353.71	6,552.91	-575.32	6,556.11	6,578.11	354.98	0.67	94.00
179	16,240.00	91.28	359.46	9,353.42	6,646.90	-575.48	6,650.10	6,671.76	355.05	2.52	94.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
180	16,334.00	92.68	359.54	9,350.17	6,740.84	-576.30	6,744.04	6,765.43	355.11	1.49	94.00
181	16,429.00	91.19	359.11	9,346.96	6,835.77	-577.42	6,838.98	6,860.12	355.17	1.63	95.00
182	16,523.00	89.78	359.46	9,346.17	6,929.76	-578.59	6,932.98	6,953.87	355.23	1.55	94.00
183	16,618.00	88.02	359.81	9,347.99	7,024.74	-579.20	7,027.96	7,048.57	355.29	1.89	95.00
184	16,712.00	88.02	359.54	9,351.24	7,118.68	-579.73	7,121.90	7,142.25	355.34	0.29	94.00
185	16,806.00	87.85	359.19	9,354.62	7,212.61	-580.77	7,215.84	7,235.96	355.40	0.41	94.00
186	16,900.00	88.37	359.11	9,357.72	7,306.55	-582.16	7,309.78	7,329.71	355.44	0.56	94.00
187	16,995.00	89.43	358.23	9,359.55	7,401.50	-584.37	7,404.75	7,424.54	355.49	1.45	95.00
188	17,089.00	90.40	357.96	9,359.69	7,495.45	-587.49	7,498.71	7,518.44	355.52	1.07	94.00
189	17,183.00	90.48	358.84	9,358.97	7,589.41	-590.12	7,592.68	7,612.32	355.55	0.94	94.00
190	17,277.00	89.69	1.21	9,358.83	7,683.40	-590.08	7,686.67	7,706.03	355.61	2.66	94.00
191	17,372.00	89.52	0.34	9,359.48	7,778.39	-588.79	7,781.65	7,800.64	355.67	0.93	95.00
192	17,466.00	90.84	0.60	9,359.19	7,872.39	-588.02	7,875.64	7,894.32	355.73	1.43	94.00
193	17,560.00	91.45	0.60	9,357.31	7,966.36	-587.04	7,969.61	7,987.96	355.79	0.65	94.00
194	17,654.00	89.78	0.16	9,356.30	8,060.35	-586.41	8,063.59	8,081.65	355.84	1.84	94.00
195	17,748.00	90.48	359.46	9,356.09	8,154.35	-586.73	8,157.59	8,175.43	355.88	1.05	94.00
196	17,843.00	92.42	359.37	9,353.68	8,249.31	-587.70	8,252.56	8,270.22	355.93	2.04	95.00
197	17,937.00	92.07	0.25	9,350.00	8,343.23	-588.01	8,346.48	8,363.93	355.97	1.01	94.00
198	18,031.00	91.01	1.13	9,347.47	8,437.19	-586.88	8,440.43	8,457.58	356.02	1.47	94.00
199	18,125.00	89.87	1.92	9,346.75	8,531.15	-584.37	8,534.38	8,551.14	356.08	1.48	94.00
200	18,220.00	88.29	1.83	9,348.28	8,626.09	-581.27	8,629.29	8,645.65	356.14	1.67	95.00
201	18,314.00	87.93	1.74	9,351.38	8,719.99	-578.34	8,723.18	8,739.15	356.21	0.39	94.00
202	18,409.00	88.99	0.34	9,353.93	8,814.94	-576.62	8,818.11	8,833.78	356.26	1.85	95.00
203	18,503.00	88.81	0.60	9,355.73	8,908.92	-575.85	8,912.08	8,927.51	356.30	0.34	94.00
204	18,597.00	90.22	0.69	9,356.53	9,002.90	-574.79	9,006.06	9,021.23	356.35	1.50	94.00
205	18,691.00	89.34	358.84	9,356.89	9,096.90	-575.17	9,100.06	9,115.06	356.38	2.18	94.00
206	18,785.00	90.66	358.67	9,356.89	9,190.87	-577.21	9,194.04	9,208.98	356.41	1.42	94.00
207	18,880.00	90.31	358.67	9,356.09	9,285.84	-579.42	9,289.03	9,303.90	356.43	0.37	95.00
208	18,974.00	88.46	357.52	9,357.10	9,379.78	-582.54	9,382.98	9,397.85	356.45	2.32	94.00
209	19,068.00	89.83	358.45	9,358.50	9,473.71	-585.85	9,476.93	9,491.81	356.46	1.76	94.00
210	19,163.00	88.97	358.24	9,359.49	9,568.66	-588.59	9,571.89	9,586.75	356.48	0.93	95.00
211	19,257.00	89.73	358.47	9,360.56	9,662.62	-591.29	9,665.86	9,680.69	356.50	0.84	94.00
212	19,351.00	91.85	358.81	9,359.26	9,756.58	-593.52	9,759.83	9,774.61	356.52	2.28	94.00
213	19,446.00	93.64	359.23	9,354.71	9,851.45	-595.14	9,854.71	9,869.41	356.54	1.94	95.00
PTB	19,517.00	93.64	359.23	9,350.21	9,922.30	-596.10	9,925.57	9,940.19	356.56	0.00	71.00