



Total Directional
Services, LLC

USA Operations

Final MWD Survey Certification

HOEDS CO
JAN 06 2020
RECEIVED

Lea County, New Mexico

Client: Devon Energy

Well Name: Chincoteague 8-5 Fed Com 234H ST01

Total Job No: 2019-445-126

API No: 30-025-45701

Start Date: 07/24/2019

End Date: 08/19/2019

Measured Start Depth: 80 feet

Measured End Depth: 17,876 feet

Vertical Section from well center at TD: 7,381.06 feet (7,436.00 @ PTB)

I, Casey Ross, 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: 19/Aug/2019

Signed: *Casey Ross*



Chincoteague 8-5 Fed Com 234H

Directional Survey Report

Start date: 07/24/2019

End date: 08/19/2019

Company Name: Devon Energy

Well Name: Chincoteague 8-5 Fed Com 234H

Field: Cotton Draw Central

Rig ID: Cactus 126

API/UWI: 30-025-45702

State/Prov: New Mexico

County: Lea County

Country: USA

Location: G-08-25S-32E 2314FNL 2150FEL

Survey Company: Total Directional Services

Job Number: 2019-445-126

Proposed Azimuth: 359.58

Declination: 6.45

KB: 3464.3

North Reference: Grid

Latitude/Longitude: 32.145762 / -103.695459

Svy	TYPE	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		180.00	0.60	349.00	180.00	0.93	-0.18	0.93	0.94	349.00	0.33	180.00
2		272.00	0.80	338.80	271.99	2.00	-0.50	2.00	2.06	345.83	0.26	92.00
3		364.00	0.90	331.10	363.98	3.23	-1.09	3.24	3.41	341.42	0.16	92.00
4		456.00	1.10	329.60	455.97	4.62	-1.88	4.64	4.99	337.85	0.22	92.00
5		546.00	1.30	330.00	545.95	6.25	-2.83	6.27	6.86	335.65	0.22	90.00
6		638.00	1.50	321.50	637.92	8.10	-4.10	8.13	9.08	333.14	0.31	92.00
7		729.00	1.40	318.00	728.89	9.86	-5.59	9.90	11.33	330.46	0.15	91.00
8		799.00	1.50	310.30	798.87	11.08	-6.86	11.13	13.03	328.26	0.31	70.00
9		967.00	1.70	301.20	966.80	13.80	-10.67	13.88	17.44	322.30	0.19	168.00
10		1,061.00	0.80	315.20	1,060.78	14.99	-12.32	15.08	19.40	320.57	1.00	94.00
11		1,152.00	1.50	85.80	1,151.77	15.52	-11.58	15.61	19.37	323.28	2.32	91.00
12		1,242.00	3.30	91.70	1,241.69	15.53	-7.82	15.59	17.39	333.29	2.02	90.00
13		1,334.00	5.60	91.70	1,333.40	15.32	-0.68	15.33	15.34	357.45	2.50	92.00
14		1,424.00	7.70	94.80	1,422.79	14.69	9.72	14.61	17.61	33.49	2.37	90.00
15		1,515.00	9.80	95.90	1,512.73	13.38	23.50	13.21	27.04	60.34	2.31	91.00
16		1,607.00	11.60	99.90	1,603.13	10.98	40.40	10.69	41.87	74.79	2.12	92.00
17		1,701.00	13.00	105.60	1,694.97	6.52	59.89	6.08	60.25	83.79	1.97	94.00
18		1,794.00	13.10	107.60	1,785.57	0.52	80.02	-0.07	80.02	89.63	0.50	93.00
19		1,888.00	13.00	107.50	1,877.14	-5.88	100.25	-6.62	100.42	93.36	0.11	94.00
20		1,983.00	12.70	106.90	1,969.76	-12.13	120.43	-13.02	121.04	95.75	0.35	95.00
21		2,077.00	12.70	106.90	2,061.46	-18.14	140.21	-19.17	141.38	97.37	0.00	94.00
22		2,171.00	12.60	106.70	2,153.18	-24.09	159.91	-25.26	161.72	98.57	0.12	94.00
23		2,265.00	12.40	106.80	2,244.95	-29.95	179.40	-31.27	181.88	99.48	0.21	94.00
24		2,358.00	12.40	106.60	2,335.78	-35.69	198.52	-37.15	201.71	100.19	0.05	93.00
25		2,452.00	12.00	106.00	2,427.66	-41.27	217.59	-42.86	221.47	100.74	0.45	94.00
26		2,546.00	11.90	106.00	2,519.62	-46.63	236.30	-48.37	240.86	101.16	0.11	94.00
27		2,641.00	11.60	106.40	2,612.63	-52.03	254.88	-53.90	260.13	101.54	0.33	95.00
28		2,735.00	11.60	105.30	2,704.71	-57.19	273.06	-59.19	278.98	101.83	0.24	94.00
29		2,829.00	11.40	105.00	2,796.82	-62.09	291.15	-64.22	297.70	102.04	0.22	94.00
30		2,923.00	11.20	104.70	2,889.00	-66.81	308.95	-69.07	316.09	102.20	0.22	94.00
31		3,017.00	10.70	105.20	2,981.29	-71.42	326.20	-73.81	333.93	102.35	0.54	94.00
32		3,111.00	10.20	104.40	3,073.73	-75.77	342.69	-78.28	350.96	102.47	0.55	94.00
33		3,205.00	10.00	105.00	3,166.27	-79.96	358.63	-82.58	367.44	102.57	0.24	94.00
34		3,299.00	10.50	107.70	3,258.77	-84.67	374.67	-87.42	384.12	102.73	0.74	94.00
35		3,393.00	10.30	108.00	3,351.23	-89.87	390.83	-92.74	401.03	102.95	0.22	94.00
36		3,487.00	10.00	107.90	3,443.76	-94.98	406.59	-97.96	417.53	103.15	0.32	94.00
37		3,582.00	9.40	107.70	3,537.40	-99.87	421.82	-102.96	433.49	103.32	0.63	95.00
38		3,676.00	9.90	106.40	3,630.07	-104.49	436.89	-107.69	449.21	103.45	0.58	94.00
39		3,770.00	11.00	104.90	3,722.51	-109.08	453.31	-112.40	466.25	103.53	1.21	94.00
40		3,864.00	11.30	106.00	3,814.74	-113.92	470.83	-117.37	484.41	103.60	0.39	94.00
41		3,958.00	11.20	107.30	3,906.93	-119.17	488.40	-122.75	502.73	103.71	0.29	94.00
42		4,052.00	11.50	108.70	3,999.09	-124.89	505.99	-128.60	521.17	103.87	0.43	94.00
43		4,145.00	11.40	107.40	4,090.24	-130.61	523.54	-134.45	539.59	104.01	0.30	93.00
44		4,240.00	10.50	106.70	4,183.51	-135.91	540.79	-139.87	557.61	104.11	0.96	95.00
45		4,334.00	9.90	108.80	4,276.02	-140.97	556.64	-145.05	574.22	104.21	0.75	94.00
46		4,428.00	10.30	108.20	4,368.57	-146.20	572.28	-150.39	590.66	104.33	0.44	94.00
47		4,522.00	10.50	106.70	4,461.02	-151.29	588.46	-155.60	607.60	104.42	0.36	94.00
48		4,616.00	9.60	108.80	4,553.58	-156.28	604.09	-160.70	623.98	104.50	1.03	94.00
49		4,707.00	8.90	107.60	4,643.40	-160.85	617.98	-165.38	638.57	104.59	0.80	91.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
50		4,801.00	8.80	107.10	4,736.28	-165.16	631.79	-169.79	653.02	104.65	0.13	94.00
51		4,895.00	9.40	106.80	4,829.09	-169.50	646.01	-174.23	667.87	104.70	0.64	94.00
52		4,988.00	9.60	106.30	4,920.82	-173.87	660.72	-178.71	683.21	104.74	0.23	93.00
53		5,083.00	9.80	105.90	5,014.46	-178.31	676.10	-183.26	699.22	104.77	0.22	95.00
54		5,177.00	10.60	105.20	5,106.97	-182.76	692.14	-187.83	715.86	104.79	0.86	94.00
55		5,271.00	11.70	103.60	5,199.20	-187.27	709.74	-192.47	734.04	104.78	1.22	94.00
56		5,365.00	11.80	100.40	5,291.23	-191.25	728.46	-196.58	753.15	104.71	0.70	94.00
57		5,459.00	12.10	100.60	5,383.19	-194.80	747.60	-200.27	772.56	104.60	0.32	94.00
58		5,553.00	11.60	107.20	5,475.19	-199.40	766.31	-205.02	791.83	104.59	1.54	94.00
59		5,647.00	11.70	107.20	5,567.26	-205.02	784.44	-210.76	810.79	104.65	0.11	94.00
60		5,741.00	11.40	102.60	5,659.35	-209.86	802.62	-215.74	829.60	104.65	1.03	94.00
61		5,834.00	11.10	103.70	5,750.57	-213.99	820.28	-219.99	847.74	104.62	0.40	93.00
62		5,928.00	12.00	105.20	5,842.66	-218.69	838.50	-224.83	866.55	104.62	1.01	94.00
63		6,022.00	11.90	108.10	5,934.63	-224.27	857.15	-230.54	886.00	104.66	0.65	94.00
64		6,116.00	11.80	109.20	6,026.62	-230.44	875.44	-236.85	905.26	104.75	0.26	94.00
65		6,210.00	10.60	108.60	6,118.83	-236.36	892.71	-242.89	923.47	104.83	1.28	94.00
66		6,304.00	10.50	109.90	6,211.24	-242.03	908.95	-248.69	940.63	104.91	0.27	94.00
67		6,398.00	11.50	109.70	6,303.52	-248.10	925.83	-254.88	958.50	105.00	1.06	94.00
68		6,492.00	11.50	110.40	6,395.63	-254.53	943.44	-261.44	977.17	105.10	0.15	94.00
69		6,587.00	9.90	109.80	6,488.97	-260.60	960.00	-267.63	994.74	105.19	1.69	95.00
70		6,681.00	11.30	110.20	6,581.37	-266.51	976.24	-273.66	1,011.97	105.27	1.49	94.00
71		6,775.00	11.80	111.90	6,673.46	-273.28	993.80	-280.56	1,030.69	105.38	0.64	94.00
72		6,869.00	10.90	112.50	6,765.62	-280.26	1,010.93	-287.67	1,049.06	105.50	0.97	94.00
73		6,963.00	9.60	113.80	6,858.12	-286.83	1,026.32	-294.34	1,065.64	105.61	1.40	94.00
74		7,057.00	9.60	112.10	6,950.81	-292.94	1,040.75	-300.56	1,081.19	105.72	0.30	94.00
75		7,151.00	8.90	111.70	7,043.58	-298.58	1,054.77	-306.30	1,096.21	105.81	0.75	94.00
76		7,245.00	8.80	114.00	7,136.46	-304.19	1,068.09	-312.01	1,110.57	105.90	0.39	94.00
77		7,339.00	7.90	114.60	7,229.47	-309.81	1,080.54	-317.72	1,124.07	106.00	0.96	94.00
78		7,433.00	7.00	117.00	7,322.67	-315.09	1,091.51	-323.09	1,136.08	106.10	1.01	94.00
79		7,527.00	6.80	120.40	7,415.99	-320.51	1,101.42	-328.58	1,147.10	106.22	0.48	94.00
80		7,621.00	6.20	122.60	7,509.39	-326.06	1,110.49	-334.19	1,157.37	106.36	0.69	94.00
81		7,715.00	5.80	117.90	7,602.87	-331.02	1,118.97	-339.21	1,166.90	106.48	0.67	94.00
82		7,809.00	5.50	115.30	7,696.42	-335.17	1,127.24	-343.42	1,176.01	106.56	0.42	94.00
83		7,904.00	5.80	118.50	7,790.96	-339.40	1,135.57	-347.72	1,185.21	106.64	0.46	95.00
84		7,998.00	5.50	118.90	7,884.50	-343.85	1,143.69	-352.22	1,194.26	106.73	0.32	94.00
85		8,092.00	5.50	121.80	7,978.07	-348.40	1,151.46	-356.83	1,203.01	106.83	0.30	94.00
86		8,186.00	5.40	121.90	8,071.64	-353.11	1,159.05	-361.60	1,211.64	106.94	0.11	94.00
87		8,280.00	4.80	124.50	8,165.27	-357.67	1,166.04	-366.21	1,219.67	107.05	0.68	94.00
88		8,374.00	3.80	130.80	8,259.00	-361.94	1,171.64	-370.52	1,226.27	107.17	1.17	94.00
89		8,468.00	3.70	136.00	8,352.80	-366.15	1,176.11	-374.77	1,231.78	107.29	0.38	94.00
90		8,563.00	3.20	142.00	8,447.63	-370.45	1,179.87	-379.09	1,236.66	107.43	0.65	95.00
91		8,658.00	2.60	152.40	8,542.51	-374.45	1,182.50	-383.11	1,240.37	107.57	0.84	95.00
92		8,752.00	2.10	170.10	8,636.43	-378.03	1,183.78	-386.70	1,242.68	107.71	0.93	94.00
93		8,846.00	1.80	175.00	8,730.38	-381.20	1,184.21	-389.87	1,244.05	107.84	0.36	94.00
94		8,940.00	1.00	173.10	8,824.35	-383.49	1,184.43	-392.16	1,244.97	107.94	0.85	94.00
95		9,034.00	0.80	232.90	8,918.34	-384.70	1,184.01	-393.36	1,244.94	108.00	0.97	94.00
96		9,128.00	2.10	276.10	9,012.31	-384.91	1,181.77	-393.56	1,242.88	108.04	1.72	94.00
97		9,222.00	2.80	274.40	9,106.22	-384.55	1,177.77	-393.17	1,238.96	108.08	0.75	94.00
98		9,317.00	3.50	272.70	9,201.08	-384.23	1,172.56	-392.82	1,233.91	108.14	0.74	95.00
99		9,413.00	4.20	275.00	9,296.86	-383.79	1,166.13	-392.33	1,227.66	108.22	0.75	96.00
100		9,508.00	4.30	281.30	9,391.60	-382.79	1,159.17	-391.28	1,220.74	108.27	0.50	95.00
101		9,602.00	5.20	281.50	9,485.28	-381.25	1,151.54	-389.68	1,213.01	108.32	0.96	94.00
102		9,665.00	5.20	278.40	9,548.02	-380.26	1,145.92	-388.65	1,207.37	108.36	0.45	63.00
103		9,697.00	5.10	277.90	9,579.89	-379.86	1,143.08	-388.22	1,204.54	108.38	0.34	32.00
104		9,792.00	14.70	328.00	9,673.49	-369.01	1,132.47	-377.31	1,191.07	108.05	12.70	95.00
105		9,886.00	25.90	5.50	9,761.85	-338.25	1,128.09	-346.51	1,177.71	106.69	17.72	94.00
106		9,980.00	32.50	9.90	9,843.87	-292.88	1,134.40	-301.19	1,171.60	104.48	7.38	94.00
107		10,075.00	39.00	14.10	9,920.94	-238.68	1,146.09	-247.07	1,170.68	101.76	7.31	95.00
108		10,169.00	43.70	14.90	9,991.49	-178.58	1,161.65	-187.09	1,175.30	98.74	5.03	94.00
109		10,263.00	50.70	13.80	10,055.32	-111.79	1,178.70	-120.43	1,183.99	95.42	7.50	94.00
110		10,357.00	59.20	14.00	10,109.25	-37.16	1,197.17	-45.94	1,197.75	91.78	9.04	94.00
111		10,451.00	67.70	12.90	10,151.23	44.55	1,216.69	35.63	1,217.50	87.90	9.10	94.00
112		10,546.00	76.00	6.30	10,180.83	133.44	1,231.60	124.41	1,238.80	83.82	10.95	95.00
113		10,576.00	76.50	6.40	10,187.96	162.40	1,234.82	153.35	1,245.45	82.51	1.70	30.00
114		10,670.00	73.00	2.80	10,212.69	252.77	1,242.11	243.65	1,267.57	78.50	5.25	94.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
115		10,764.00	76.10	358.40	10,237.73	343.33	1,243.04	334.21	1,289.58	74.56	5.59	94.00
116		10,858.00	86.80	358.70	10,251.69	436.12	1,240.69	427.01	1,315.11	70.63	11.39	94.00
117		10,952.00	93.80	357.80	10,251.20	530.01	1,237.82	520.93	1,346.52	66.82	7.51	94.00
118		10,960.00	93.70	357.10	10,250.67	537.99	1,237.47	528.90	1,349.35	66.50	8.82	8.00
119		11,054.00	86.90	354.80	10,250.18	631.69	1,230.83	622.65	1,383.47	62.83	7.64	94.00
120		11,149.00	86.90	354.10	10,255.32	726.11	1,221.66	717.13	1,421.15	59.27	0.74	95.00
121		11,243.00	89.80	354.60	10,258.03	819.60	1,212.41	810.69	1,463.45	55.94	3.13	94.00
122		11,337.00	90.00	354.40	10,258.19	913.17	1,203.40	904.32	1,510.64	52.81	0.30	94.00
123		11,431.00	89.70	353.50	10,258.44	1,006.64	1,193.49	997.87	1,561.33	49.85	1.01	94.00
124		11,525.00	90.90	355.80	10,257.94	1,100.22	1,184.73	1,091.51	1,616.81	47.12	2.76	94.00
125		11,619.00	91.90	359.00	10,255.65	1,194.09	1,180.46	1,185.40	1,679.09	44.67	3.57	94.00
126		11,713.00	92.50	359.00	10,252.04	1,288.00	1,178.83	1,279.33	1,746.02	42.47	0.64	94.00
127		11,806.00	90.80	359.20	10,249.36	1,380.95	1,177.37	1,372.28	1,814.72	40.45	1.84	93.00
128		11,900.00	90.60	358.80	10,248.21	1,474.93	1,175.72	1,466.27	1,886.20	38.56	0.48	94.00
129		11,995.00	91.80	359.20	10,246.22	1,569.89	1,174.07	1,561.24	1,960.35	36.79	1.33	95.00
130		12,089.00	90.90	0.90	10,244.01	1,663.86	1,174.15	1,655.21	2,036.43	35.21	2.05	94.00
131		12,183.00	88.50	359.80	10,244.50	1,757.85	1,174.72	1,749.19	2,114.24	33.75	2.81	94.00
132		12,277.00	88.90	0.40	10,246.63	1,851.82	1,174.89	1,843.16	2,193.08	32.39	0.77	94.00
133		12,372.00	89.40	359.70	10,248.04	1,946.81	1,174.97	1,938.15	2,273.90	31.11	0.91	95.00
134		12,466.00	89.50	357.90	10,248.95	2,040.78	1,173.00	2,032.13	2,353.88	29.89	1.92	94.00
135		12,560.00	89.80	354.60	10,249.52	2,134.57	1,166.86	2,125.96	2,432.68	28.66	3.53	94.00
136		12,654.00	89.40	2.90	10,250.18	2,228.46	1,164.81	2,219.86	2,514.52	27.60	8.84	94.00
137		12,747.00	89.30	2.40	10,251.23	2,321.35	1,169.11	2,312.72	2,599.13	26.73	0.55	93.00
138		12,841.00	89.50	355.40	10,252.22	2,415.27	1,167.30	2,406.65	2,682.56	25.79	7.45	94.00
139		12,936.00	88.60	0.70	10,253.79	2,510.17	1,164.07	2,501.57	2,766.95	24.88	5.66	95.00
140		13,030.00	89.60	357.60	10,255.27	2,604.14	1,162.68	2,595.54	2,851.90	24.06	3.46	94.00
141		13,124.00	90.10	0.50	10,255.52	2,698.11	1,161.12	2,689.53	2,937.35	23.28	3.13	94.00
142		13,218.00	91.30	358.90	10,254.37	2,792.10	1,160.63	2,783.52	3,023.72	22.57	2.13	94.00
143		13,312.00	92.10	353.90	10,251.58	2,885.84	1,154.73	2,877.30	3,108.29	21.81	5.38	94.00
144		13,406.00	89.80	356.10	10,250.02	2,979.46	1,146.54	2,970.97	3,192.45	21.05	3.39	94.00
145		13,500.00	90.20	354.70	10,250.02	3,073.15	1,139.00	3,064.72	3,277.44	20.34	1.55	94.00
146		13,594.00	90.40	357.30	10,249.53	3,166.92	1,132.44	3,158.53	3,363.30	19.68	2.77	94.00
147		13,688.00	90.70	355.50	10,248.62	3,260.72	1,126.54	3,252.38	3,449.84	19.06	1.94	94.00
148		13,782.00	90.90	356.10	10,247.31	3,354.46	1,119.66	3,346.16	3,536.39	18.46	0.67	94.00
149		13,876.00	90.20	354.80	10,246.41	3,448.16	1,112.20	3,439.91	3,623.09	17.88	1.57	94.00
150		13,970.00	90.90	357.50	10,245.51	3,541.93	1,105.89	3,533.73	3,710.56	17.34	2.97	94.00
151		14,065.00	91.10	356.90	10,243.85	3,636.80	1,101.25	3,628.63	3,799.88	16.85	0.67	95.00
152		14,159.00	90.50	357.50	10,242.54	3,730.68	1,096.66	3,722.54	3,888.53	16.38	0.90	94.00
153		14,253.00	92.00	357.20	10,240.49	3,824.55	1,092.32	3,816.45	3,977.48	15.94	1.63	94.00
154		14,348.00	91.20	359.50	10,237.83	3,919.47	1,089.58	3,911.38	4,068.10	15.54	2.56	95.00
155		14,442.00	89.90	359.40	10,236.93	4,013.46	1,088.68	4,005.37	4,158.50	15.18	1.39	94.00
156		14,536.00	89.80	358.50	10,237.18	4,107.44	1,086.96	4,099.37	4,248.83	14.82	0.96	94.00
157		14,630.00	90.30	359.20	10,237.10	4,201.42	1,085.07	4,193.36	4,339.28	14.48	0.92	94.00
158		14,724.00	89.30	359.60	10,237.42	4,295.42	1,084.09	4,287.35	4,430.11	14.16	1.15	94.00
159		14,818.00	89.50	358.80	10,238.41	4,389.40	1,082.77	4,381.35	4,520.98	13.86	0.88	94.00
160		14,912.00	89.10	359.80	10,239.56	4,483.39	1,081.63	4,475.34	4,612.01	13.56	1.15	94.00
161		15,006.00	89.70	359.90	10,240.54	4,577.38	1,081.38	4,569.33	4,703.38	13.29	0.65	94.00
162		15,100.00	89.40	0.70	10,241.28	4,671.38	1,081.87	4,663.32	4,795.02	13.04	0.91	94.00
163		15,194.00	89.50	0.30	10,242.18	4,765.37	1,082.69	4,757.30	4,886.81	12.80	0.44	94.00
164		15,288.00	88.30	1.20	10,243.99	4,859.34	1,083.92	4,851.26	4,978.76	12.57	1.60	94.00
165		15,383.00	89.10	1.50	10,246.14	4,954.29	1,086.16	4,946.19	5,071.95	12.37	0.90	95.00
166		15,477.00	87.70	2.30	10,248.77	5,048.20	1,089.27	5,040.08	5,164.38	12.18	1.72	94.00
167		15,571.00	87.50	2.10	10,252.70	5,142.04	1,092.88	5,133.89	5,256.90	12.00	0.30	94.00
168		15,665.00	88.30	2.30	10,256.15	5,235.91	1,096.49	5,227.73	5,349.49	11.83	0.88	94.00
169		15,759.00	88.40	2.00	10,258.85	5,329.81	1,100.01	5,321.60	5,442.14	11.66	0.34	94.00
170		15,853.00	89.10	1.50	10,260.90	5,423.74	1,102.88	5,415.51	5,534.73	11.49	0.92	94.00
171		15,947.00	87.40	2.00	10,263.77	5,517.65	1,105.75	5,509.39	5,627.35	11.33	1.89	94.00
172		16,041.00	87.60	2.00	10,267.87	5,611.50	1,109.03	5,603.22	5,720.04	11.18	0.21	94.00
173		16,135.00	87.80	2.10	10,271.65	5,705.36	1,112.39	5,697.06	5,812.80	11.03	0.24	94.00
174		16,229.00	88.00	2.30	10,275.09	5,799.23	1,115.99	5,790.90	5,905.64	10.89	0.30	94.00
175		16,323.00	88.40	2.00	10,278.04	5,893.12	1,119.52	5,884.75	5,998.51	10.76	0.53	94.00
176		16,417.00	89.20	2.30	10,280.01	5,987.03	1,123.04	5,978.64	6,091.45	10.62	0.91	94.00
177		16,511.00	87.70	2.30	10,282.55	6,080.92	1,126.81	6,072.50	6,184.44	10.50	1.60	94.00
178		16,605.00	87.50	2.10	10,286.49	6,174.77	1,130.42	6,166.31	6,277.39	10.37	0.30	94.00
179		16,698.00	87.80	2.00	10,290.30	6,267.63	1,133.74	6,259.15	6,369.34	10.25	0.34	93.00

Svy	TYPE	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
180		16,792.00	88.20	2.70	10,293.59	6,361.49	1,137.60	6,352.98	6,462.41	10.14	0.86	94.00
181		16,886.00	88.70	2.70	10,296.13	6,455.35	1,142.02	6,446.81	6,555.59	10.03	0.53	94.00
182		16,980.00	87.70	0.60	10,299.08	6,549.26	1,144.73	6,540.69	6,648.55	9.91	2.47	94.00
183		17,074.00	88.10	0.60	10,302.53	6,643.19	1,145.71	6,634.62	6,741.27	9.79	0.43	94.00
184		17,167.00	88.60	0.60	10,305.20	6,736.15	1,146.68	6,727.56	6,833.05	9.66	0.54	93.00
185		17,262.00	89.30	0.80	10,306.94	6,831.13	1,147.84	6,822.53	6,926.89	9.54	0.77	95.00
186		17,356.00	91.00	1.70	10,306.70	6,925.10	1,149.90	6,916.48	7,019.92	9.43	2.05	94.00
187		17,450.00	90.20	1.20	10,305.71	7,019.06	1,152.27	7,010.43	7,113.01	9.32	1.00	94.00
188		17,544.00	87.60	1.10	10,307.52	7,113.02	1,154.16	7,104.37	7,206.05	9.22	2.77	94.00
189		17,638.00	88.20	1.30	10,310.96	7,206.93	1,156.13	7,198.26	7,299.08	9.11	0.67	94.00
190		17,732.00	88.70	2.10	10,313.50	7,300.86	1,158.91	7,292.17	7,392.27	9.02	1.00	94.00
191		17,821.00	88.40	1.70	10,315.76	7,389.78	1,161.86	7,381.06	7,480.56	8.94	0.56	89.00
PTB	PTB	17,876.00	88.40	1.70	10,317.29	7,444.73	1,163.50	7,436.00	7,535.10	8.88	0.00	55.00