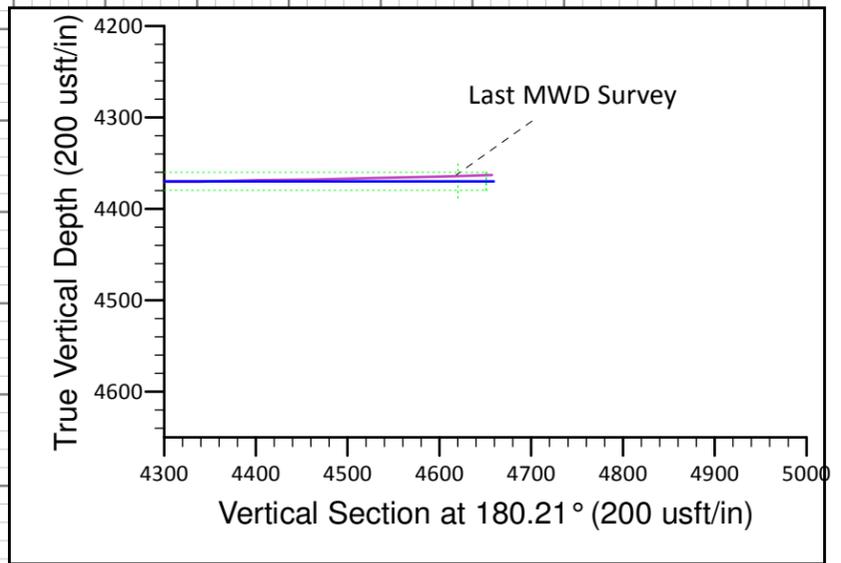
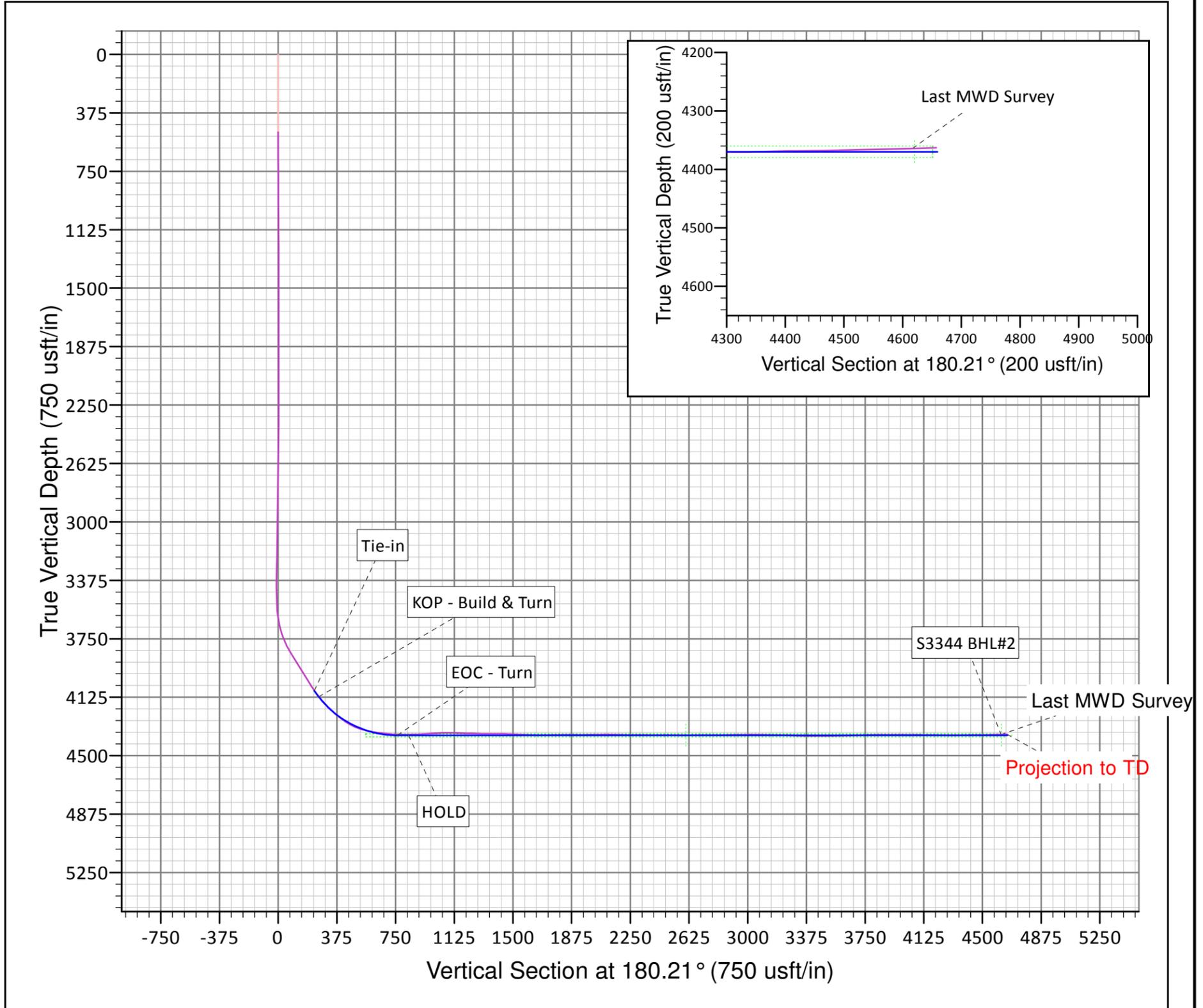




Project: Sumner County, Kansas  
 Site: Schmidt Lease  
 Well: Schmidt 3-34-4 #1H  
 Wellbore: Lateral #1  
 Design: Plan #2



Well Details	
Chesapeake Operating	
Schmidt 3-34-4 #1H Sumner County, Kansas	
GL Elev: 1224.0	
Trinidad 205 RKB @ 1239.0usft (Trinidad 205)	

ANNOTATIONS								
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
4083.2	4143.0	34.20	184.20	-230.8	-22.1	230.9	0.0	Tie-in
4122.1	4191.0	37.50	184.20	-258.8	-24.2	258.9	28.1	KOP - Build & Turn
4369.9	4771.3	90.00	182.42	-760.5	-51.3	760.7	530.6	EOC - Turn
4369.9	4845.0	90.00	180.21	-834.2	-53.0	834.4	604.2	HOLD
4369.9	8670.0	90.00	180.21	-4659.2	-67.0	4659.4	4429.2	TD at 8670'

Operator: Chesapeake  
 Lease Name: Schmidt 3-34-4 1H  
 Job Number: 21256  
 Survey Company: Intrepid-DDS



Target KBTVD: 4370  
 Target Angle: 90.0  
 Section Plane: 180.2  
 Total Declination Correction: 4.04

#	Survey Depth	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/-S (Ft.)	+E/-W (Ft.)	BUR	DLS	KBTVD	+Above -Below Target
Tie in	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	100	0.2	207.3	100	100.0	0.2	-0.2	-0.1	0.2	0.2	100.0	4270.0
2	200	0.2	315.5	100	200.0	0.2	-0.2	-0.3	0.0	0.3	200.0	4170.0
3	300	0.3	128.4	100	300.0	0.3	-0.3	-0.2	0.1	0.4	300.0	4070.0
4	400	0.2	64.5	100	400.0	0.3	-0.3	0.2	-0.1	0.3	400.0	3970.0
5	500	0.2	64.5	100	500.0	0.2	-0.2	0.6	0.0	0.0	500.0	3870.0
6	599	0.3	134.6	99	599.0	0.2	-0.3	0.9	0.1	0.3	599.0	3771.0
7	662	0.1	163.4	63	662.0	0.4	-0.4	1.1	-0.3	0.3	662.0	3708.0
8	757	0.2	133.9	95	757.0	0.6	-0.6	1.2	0.1	0.1	757.0	3613.0
9	852	0.4	127.6	95	852.0	0.9	-0.9	1.6	0.2	0.2	852.0	3518.0
10	947	0.4	162.2	95	947.0	1.4	-1.5	2.0	0.0	0.3	947.0	3423.0
11	1042	0.5	167.0	95	1042.0	2.2	-2.2	2.2	0.1	0.1	1042.0	3328.0
12	1136	0.2	156.2	94	1136.0	2.7	-2.7	2.3	-0.3	0.3	1136.0	3234.0
13	1231	0.1	229.7	95	1231.0	2.9	-2.9	2.3	-0.1	0.2	1231.0	3139.0
14	1326	0.1	242.9	95	1326.0	3.0	-3.0	2.2	0.0	0.0	1326.0	3044.0
15	1422	0.2	184.5	96	1422.0	3.2	-3.2	2.1	0.1	0.2	1422.0	2948.0
16	1517	0.2	191.1	95	1517.0	3.5	-3.5	2.0	0.0	0.0	1517.0	2853.0
17	1612	0.2	264.2	95	1612.0	3.7	-3.7	1.8	0.0	0.3	1612.0	2758.0
18	1708	0.0	209.5	96	1708.0	3.7	-3.7	1.7	-0.2	0.2	1708.0	2662.0
19	1803	0.3	166.4	95	1803.0	4.0	-4.0	1.7	0.3	0.3	1803.0	2567.0
20	1897	0.1	11.4	94	1897.0	4.1	-4.1	1.8	-0.2	0.4	1897.0	2473.0
21	1993	0.2	316.5	96	1993.0	3.9	-3.9	1.7	0.1	0.2	1993.0	2377.0
22	2089	0.3	351.9	96	2089.0	3.6	-3.6	1.6	0.1	0.2	2089.0	2281.0
23	2184	0.1	125.1	95	2184.0	3.4	-3.4	1.6	-0.2	0.4	2184.0	2186.0
24	2280	0.2	85.4	96	2280.0	3.4	-3.4	1.8	0.1	0.1	2280.0	2090.0
25	2375	0.3	46.4	95	2375.0	3.2	-3.2	2.2	0.1	0.2	2375.0	1995.0
26	2470	0.5	15.5	95	2470.0	2.6	-2.7	2.5	0.2	0.3	2470.0	1900.0
27	2564	0.8	358.5	94	2564.0	1.6	-1.6	2.6	0.3	0.4	2564.0	1806.0
28	2654	1.0	339.4	90	2654.0	0.2	-0.2	2.3	0.2	0.4	2654.0	1716.0
29	2754	1.0	340.1	100	2753.9	-1.4	1.4	1.7	0.0	0.0	2753.9	1616.1
30	2849	1.0	342.9	95	2848.9	-3.0	3.0	1.1	0.0	0.1	2848.9	1521.1
31	2943	0.7	334.7	94	2942.9	-4.3	4.3	0.7	-0.3	0.3	2942.9	1427.1
32	3038	0.7	354.6	95	3037.9	-5.4	5.4	0.3	0.0	0.3	3037.9	1332.1
33	3134	1.0	16.2	96	3133.9	-6.8	6.8	0.5	0.3	0.5	3133.9	1236.1
34	3229	0.9	345.9	95	3228.9	-8.3	8.3	0.6	-0.1	0.5	3228.9	1141.1
35	3324	0.9	353.9	95	3323.9	-9.8	9.7	0.3	0.0	0.1	3323.9	1046.1
36	3419	1.0	339.4	95	3418.9	-11.3	11.3	-0.1	0.1	0.3	3418.9	951.1
37	3571	5.0	179.1	152	3570.7	-5.9	5.9	-0.4	2.6	3.9	3570.7	799.3

Operator: Chesapeake  
 Lease Name: Schmidt 3-34-4 1H  
 Job Number: 21256  
 Survey Company: Intrepid-DDS



Target KBIVD: 4370  
 Target Angle: 90.0  
 Section Plane: 180.2  
 Total Declination Correction: 4.04

#	Survey Depth	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/S (Ft.)	+E/W (Ft.)	BUR	DLS	KBIVD	+Above -Below Target
38	3666	13.0	175.0	95	3664.5	8.9	-8.9	0.6	8.4	8.4	3664.5	705.5
39	3761	21.9	186.3	95	3755.0	37.2	-37.2	-0.4	9.4	10.0	3755.0	615.0
40	3856	31.5	188.3	95	3839.8	79.5	-79.5	-6.0	10.1	10.1	3839.8	530.2
41	3951	32.4	186.0	95	3920.4	129.4	-129.4	-12.2	0.9	1.6	3920.4	449.6
42	4047	31.4	185.0	96	4001.9	179.9	-179.9	-17.1	-1.0	1.2	4001.9	368.1
43	4111	31.9	185.2	64	4056.4	213.4	-213.3	-20.1	0.8	0.8	4056.4	313.6
44	4143	34.2	184.2	32	4083.2	230.8	-230.7	-21.5	7.2	7.4	4083.2	286.8
45	4175	38.0	183.0	32	4109.1	249.6	-249.5	-22.7	11.9	12.1	4109.1	260.9
46	4206	40.2	183.5	31	4133.1	269.1	-269.1	-23.8	7.1	7.2	4133.1	236.9
47	4238	42.0	183.9	32	4157.2	290.1	-290.0	-25.1	5.6	5.7	4157.2	212.8
48	4270	43.9	184.4	32	4180.6	311.9	-311.8	-26.7	5.9	6.0	4180.6	189.4
49	4301	45.9	184.5	31	4202.6	333.7	-333.6	-28.4	6.5	6.5	4202.6	167.4
50	4333	48.0	184.6	32	4224.4	357.0	-356.9	-30.3	6.6	6.6	4224.4	145.6
51	4365	50.4	184.1	32	4245.4	381.2	-381.1	-32.1	7.5	7.6	4245.4	124.6
52	4397	53.3	184.7	32	4265.1	406.3	-406.2	-34.0	9.1	9.2	4265.1	104.9
53	4429	56.0	184.0	32	4283.6	432.3	-432.2	-36.0	8.4	8.6	4283.6	86.4
54	4461	61.0	183.2	32	4300.3	459.5	-459.4	-37.7	15.6	15.8	4300.3	69.7
55	4492	65.9	182.8	31	4314.2	487.2	-487.1	-39.2	15.6	15.7	4314.2	55.8
56	4524	71.0	182.5	32	4326.0	516.9	-516.8	-40.5	16.1	16.1	4326.0	44.0
57	4556	76.1	182.4	32	4335.0	547.6	-547.4	-41.9	15.9	15.9	4335.0	35.0
58	4588	78.2	182.5	32	4342.1	578.8	-578.6	-43.2	6.6	6.6	4342.1	27.9
59	4620	80.1	182.7	32	4348.2	610.2	-610.0	-44.6	5.9	6.0	4348.2	21.8
60	4652	82.2	182.7	32	4353.1	641.8	-641.6	-46.1	6.6	6.6	4353.1	16.9
61	4683	83.4	183.1	31	4357.0	672.5	-672.3	-47.7	3.9	4.1	4357.0	13.0
62	4715	84.4	182.5	32	4360.4	704.3	-704.1	-49.2	3.1	3.6	4360.4	9.6
63	4747	86.6	182.4	32	4362.9	736.1	-736.0	-50.6	6.9	6.9	4362.9	7.1
64	4778	88.1	181.8	31	4364.3	767.1	-766.9	-51.7	4.8	5.2	4364.3	5.7
65	4809	89.9	181.1	31	4364.9	798.1	-797.9	-52.5	5.8	6.2	4364.9	5.1
66	4841	90.9	181.0	32	4364.6	830.1	-829.9	-53.1	3.1	3.1	4364.6	5.4
67	4873	91.5	180.9	32	4364.0	862.1	-861.9	-53.6	1.9	1.9	4364.0	6.0
68	4904	92.0	180.8	31	4363.0	893.0	-892.8	-54.1	1.6	1.6	4363.0	7.0
69	4999	93.8	181.0	95	4358.2	987.9	-987.7	-55.6	1.9	1.9	4358.2	11.8
70	5031	94.4	180.8	32	4355.9	1019.8	-1019.6	-56.1	1.9	2.0	4355.9	14.1
71	5062	92.0	180.1	31	4354.2	1050.8	-1050.6	-56.3	-7.7	8.1	4354.2	15.8
72	5094	91.0	179.8	32	4353.4	1082.8	-1082.6	-56.3	-3.1	3.3	4353.4	16.6
73	5125	88.3	179.0	31	4353.6	1113.7	-1113.5	-56.0	-8.7	9.1	4353.6	16.4
74	5157	87.4	178.8	32	4354.8	1145.7	-1145.5	-55.3	-2.8	2.9	4354.8	15.2
75	5188	88.0	179.1	31	4356.0	1176.7	-1176.5	-54.8	1.9	2.2	4356.0	14.0

Operator: Chesapeake  
 Lease Name: Schmidt 3-34-4 1H  
 Job Number: 21256

Survey Company: Intrepid-DDS



Target KBTVD: 4370  
 Target Angle: 90.0  
 Section Plane: 180.2  
 Total Declination Correction: 4.04

#	Survey Depth	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/-S (Ft.)	+E/-W (Ft.)	BUR	DLS	KBTVD	+Above -Below Target	
76	5220	88.2	178.9	32	4357.1	1208.7	-1208.5	-54.2	0.6	0.9	4357.1	12.9	
77	5252	88.6	178.9	32	4357.9	1240.6	-1240.4	-53.6	1.2	1.3	4357.9	12.1	
78	5283	89.0	178.9	31	4358.6	1271.6	-1271.4	-53.0	1.3	1.3	4358.6	11.4	
79	5314	89.0	178.8	31	4359.1	1302.6	-1302.4	-52.4	0.0	0.3	4359.1	10.9	
80	5346	89.5	178.7	32	4359.6	1334.6	-1334.4	-51.7	1.6	1.6	4359.6	10.4	
81	5377	90.1	178.7	31	4359.7	1365.6	-1365.4	-51.0	1.9	1.9	4359.7	10.3	
80	5409	90.5	178.7	32	4359.5	1397.6	-1397.4	-50.3	1.3	1.3	4359.5	10.5	
81	5441	88.3	179.6	32	4359.8	1429.6	-1429.4	-49.8	-6.9	7.4	4359.8	10.2	
82	5473	87.3	179.8	32	4361.1	1461.5	-1461.4	-49.6	-3.1	3.2	4361.1	8.9	
83	5504	87.7	179.7	31	4362.4	1492.5	-1492.3	-49.5	1.3	1.3	4362.4	7.6	
84	5536	87.6	181.1	32	4363.7	1524.5	-1524.3	-49.7	-0.3	4.4	4363.7	6.3	
85	5568	87.8	181.2	32	4365.0	1556.4	-1556.3	-50.4	0.6	0.7	4365.0	5.0	
86	5599	88.2	181.5	31	4366.1	1587.4	-1587.2	-51.1	1.3	1.6	4366.1	3.9	
87	5631	88.0	181.3	32	4367.2	1619.4	-1619.2	-51.9	-0.6	0.9	4367.2	2.8	
88	5662	88.0	181.0	31	4368.2	1650.4	-1650.2	-52.5	0.0	1.0	4368.2	1.8	
89	5694	90.2	181.4	32	4368.7	1682.4	-1682.2	-53.2	6.9	7.0	4368.7	1.3	
90	5725	91.0	181.5	31	4368.4	1713.3	-1713.2	-53.9	2.6	2.6	4368.4	1.6	
91	5757	91.2	181.3	32	4367.8	1745.3	-1745.1	-54.7	0.6	0.9	4367.8	2.2	
92	5789	91.3	181.0	32	4367.1	1777.3	-1777.1	-55.4	0.3	1.0	4367.1	2.9	
93	5820	92.0	180.8	31	4366.2	1808.3	-1808.1	-55.8	2.3	2.3	4366.2	3.8	
94	5852	89.5	180.4	32	4365.8	1840.3	-1840.1	-56.2	-7.8	7.9	4365.8	4.2	
95	5884	89.3	180.1	32	4366.1	1872.3	-1872.1	-56.3	-0.6	1.1	4366.1	3.9	
96	5916	89.3	179.7	32	4366.5	1904.3	-1904.1	-56.3	0.0	1.2	4366.5	3.5	
97	5947	90.1	179.6	31	4366.7	1935.3	-1935.1	-56.1	2.6	2.6	4366.7	3.3	
98	5979	90.8	179.4	32	4366.4	1967.3	-1967.1	-55.8	2.2	2.3	4366.4	3.6	
99	6011	91.0	179.2	32	4365.9	1999.3	-1999.1	-55.4	0.6	0.9	4365.9	4.1	
100	6042	91.4	179.3	31	4365.3	2030.3	-2030.1	-55.0	1.3	1.3	4365.3	4.7	
101	6074	91.6	179.1	32	4364.4	2062.2	-2062.1	-54.6	0.6	0.9	4364.4	5.6	
102	6106	89.8	179.5	32	4364.0	2094.2	-2094.1	-54.2	-5.6	5.8	4364.0	6.0	
103	6138	88.9	181.5	32	4364.4	2126.2	-2126.0	-54.4	-2.8	6.9	4364.4	5.6	
104	6169	88.4	181.8	31	4365.1	2157.2	-2157.0	-55.3	-1.6	1.9	4365.1	4.9	
105	6201	88.6	181.8	32	4366.0	2189.2	-2189.0	-56.3	0.6	0.6	4366.0	4.0	
106	6233	89.0	181.7	32	4366.6	2221.2	-2221.0	-57.3	1.3	1.3	4366.6	3.4	
107	6264	89.3	181.9	31	4367.1	2252.2	-2252.0	-58.3	1.0	1.2	4367.1	2.9	
108	6296	89.5	181.8	32	4367.4	2284.1	-2283.9	-59.3	0.6	0.7	4367.4	2.6	
109	6327	89.6	181.8	31	4367.7	2315.1	-2314.9	-60.3	0.3	0.3	4367.7	2.3	
110	6390	89.4	180.9	63	4368.2	2378.1	-2377.9	-61.8	-0.3	1.5	4368.2	1.8	
111	6453	89.6	180.7	63	4368.8	2441.1	-2440.9	-62.7	0.3	0.4	4368.8	1.2	

Operator: Chesapeake  
 Lease Name: Schmidt 3-34-4 1H  
 Job Number: 21256  
 Survey Company: Intrepid-DDS



Target KBTVD: 4370  
 Target Angle: 90.0  
 Section Plane: 180.2  
 Total Declination Correction: 4.04

#	Survey Depth	Drift (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/S (Ft.)	+E/W (Ft.)	BUR	DLS	KBTVD	+Above -Below Target
112	6516	89.7	180.6	63	4369.2	2504.1	-2503.9	-63.4	0.2	0.2	4369.2	0.8
113	6579	89.6	180.5	63	4369.6	2567.1	-2566.9	-64.0	-0.2	0.2	4369.6	0.4
114	6643	90.1	180.7	64	4369.7	2631.1	-2630.9	-64.7	0.8	0.8	4369.7	0.3
115	6706	90.4	180.5	63	4369.4	2694.1	-2693.9	-65.3	0.5	0.6	4369.4	0.6
116	6769	90.5	180.3	63	4369.0	2757.1	-2756.9	-65.8	0.2	0.4	4369.0	1.0
117	6832	91.0	180.2	63	4368.1	2820.1	-2819.9	-66.0	0.8	0.8	4368.1	1.9
118	6896	90.8	179.6	64	4367.1	2884.1	-2883.9	-65.9	-0.3	1.0	4367.1	2.9
119	6960	90.9	179.3	64	4366.2	2948.1	-2947.8	-65.3	0.2	0.5	4366.2	3.8
120	7023	91.2	179.0	63	4365.0	3011.0	-3010.8	-64.4	0.5	0.7	4365.0	5.0
121	7084	88.9	179.7	61	4365.0	3072.0	-3071.8	-63.7	-3.8	3.9	4365.0	5.0
122	7147	88.0	179.9	63	4366.7	3135.0	-3134.8	-63.5	-1.4	1.5	4366.7	3.3
123	7210	88.4	179.8	63	4368.6	3198.0	-3197.7	-63.3	0.6	0.7	4368.6	1.4
124	7274	88.4	179.5	64	4370.4	3261.9	-3261.7	-62.9	0.0	0.5	4370.4	-0.4
125	7337	88.3	178.9	63	4372.3	3324.9	-3324.7	-62.0	-0.2	1.0	4372.3	-2.3
126	7400	89.1	179.4	63	4373.7	3387.9	-3387.7	-61.1	1.3	1.5	4373.7	-3.7
127	7464	90.3	180.3	64	4374.0	3451.9	-3451.7	-60.9	1.9	2.3	4374.0	-4.0
128	7527	90.6	180.7	63	4373.5	3514.9	-3514.7	-61.5	0.5	0.8	4373.5	-3.5
129	7590	91.1	180.4	63	4372.6	3577.9	-3577.6	-62.1	0.8	0.9	4372.6	-2.6
130	7654	91.5	180.3	64	4371.1	3641.8	-3641.6	-62.5	0.6	0.6	4371.1	-1.1
131	7717	91.3	179.6	63	4369.6	3704.8	-3704.6	-62.4	-0.3	1.2	4369.6	0.4
132	7780	92.0	179.3	63	4367.8	3767.8	-3767.6	-61.8	1.1	1.2	4367.8	2.2
133	7844	91.2	180.3	64	4366.0	3831.8	-3831.6	-61.6	-1.3	2.0	4366.0	4.0
134	7907	89.1	181.6	63	4365.8	3894.7	-3894.5	-62.6	-3.3	3.9	4365.8	4.2
135	7971	90.2	181.8	64	4366.2	3958.7	-3958.5	-64.5	1.7	1.7	4366.2	3.8
136	8034	90.2	181.5	63	4366.0	4021.7	-4021.5	-66.3	0.0	0.5	4366.0	4.0
137	8097	89.3	181.1	63	4366.3	4084.7	-4084.5	-67.8	-1.4	1.6	4366.3	3.7
138	8160	88.8	180.8	63	4367.3	4147.7	-4147.4	-68.8	-0.8	0.9	4367.3	2.7
139	8224	88.3	180.1	64	4368.9	4211.6	-4211.4	-69.3	-0.8	1.3	4368.9	1.1
140	8287	88.7	178.9	63	4370.6	4274.6	-4274.4	-68.8	0.6	2.0	4370.6	-0.6
141	8350	91.9	178.9	63	4370.3	4337.6	-4337.4	-67.6	5.1	5.1	4370.3	-0.3
142	8414	90.7	179.9	64	4368.8	4401.6	-4401.3	-66.9	-1.9	2.4	4368.8	1.2
143	8477	90.9	179.9	63	4367.9	4464.5	-4464.3	-66.8	0.3	0.3	4367.9	2.1
144	8540	91.6	180.3	63	4366.6	4527.5	-4527.3	-66.9	1.1	1.3	4366.6	3.4
145	8603	91.3	180.4	63	4365.0	4590.5	-4590.3	-67.3	-0.5	0.5	4365.0	5.0
146	8629	91.7	180.9	26	4364.3	4616.5	-4616.3	-67.6	1.5	2.5	4364.3	5.7
EOW	8670	91.7	180.9	41	4363.1	4657.5	-4657.3	-68.2	0.0	0.0	4363.1	6.9