Company ANADARKO PETROLEUM CORPORATION
Well XCEL 12N-22HZ
Field WATTENBERG
County WELD
State COLORADO Country

PIONEER

56 ARM CALIPER
MIPS Processed w CSG Report

Company	ANADARKO PETROLEUM CORPORATION
Well	XCEL 12N-22HZ
Field	WATTENBERG
County	WELD
State	COLORADO
Country	

Location: API # : 05123383900000

496' FSL & 403' FWL

SEC 27 TWP 1N RGE 67W

Other Services
NONE

Permanent Datum	GL	Elevation	5026'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5042'
D.F. 5042'
G.L. 5026'

Date	2-14-14		2-16-14
Run Number	ONE		
Depth Driller	14685'		
Depth Logger	6944'		
Bottom Logged Interval	6944'		
Top Log Interval	SURFACE		
Open Hole Size	8.75"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	219		
Estimated Cement Top	1160'		
Time Well Ready	ROA		
Time Logger on Bottom	AM		
Equipment Number	75		
Location	FORT MORGAN		Denver
Recorded By	JOHN HOLLIS		Anderson
Witnessed By	MR. RICK DUNFORD		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9-5/8"	36#	SURFACE	1060'
Prot. String				
Production String	7"	26"	SURFACE	7990'
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

CORRECTED TO LINER TOP. CORRECTED 22' FROM KB.

WCR 4 & WCR 19 EAST.2, NORTH .1, WEST INTO

MIPS Processed for 7" 26# Nominal Casing

PROCESSED DATA

161	JOINT COUNT		ANADARKO Xcel 12NhhHz					16-Feb-14
Item no.	Top Body	Bottom Body	Body Length	Max.Pen.(ins)	Min Wall (ins)	Max.Pen. (%)	Max.Pen. Depth	Damage Description 0-9%Low 10-18%Slight 19-27%Moderate >27%Severe
1	36.7	39.3	2.6	6.315	0.342	5.4	38.3	
2	40.6	82.7	42.1	6.323	0.339	6.5	77.7	
3	84.3	125.3	41.0	6.317	0.342	5.7	96.0	
4	127.5	168.6	41.1	6.320	0.340	6.1	132.3	
5	170.9	211.7	40.8	6.328	0.336	7.2	171.2	
6	214.0	255.5	41.5	6.319	0.341	5.9	240.2	
7	257.0	298.5	41.5	6.328	0.336	7.2	280.9	
8	300.1	341.2	41.1	6.316	0.342	5.5	309.2	
9	343.3	384.9	41.6	6.316	0.342	5.5	344.1	
10	386.5	425.4	38.9	6.314	0.343	5.2	393.3	
11	427.0	468.1	41.1	6.315	0.342	5.4	432.4	
12	470.2	511.7	41.5	6.314	0.343	5.2	485.2	
13	513.3	554.6	41.3	6.314	0.343	5.2	551.1	
14	556.2	597.5	41.3	6.312	0.344	5.0	597.3	
15	599.1	640.3	41.2	6.330	0.335	7.5	603.9	
16	642.0	683.3	41.3	6.314	0.343	5.2	644.8	
17	685.0	726.9	41.9	6.305	0.348	4.0	694.1	
18	728.5	770.1	41.6	6.317	0.342	5.7	752.1	
19	771.8	812.8	41.0	6.331	0.335	7.6	810.4	
20	815.0	856.3	41.3	6.318	0.341	5.8	841.9	
21	857.9	898.8	40.9	6.325	0.338	6.8	892.0	
22	900.3	941.8	41.5	6.319	0.341	5.9	902.2	
23	943.5	984.4	40.9	6.311	0.345	4.8	978.2	
24	986.5	1028.0	41.5	6.313	0.343	5.1	1005.1	
25	1029.5	1071.4	41.9	6.314	0.343	5.2	1048.2	
26	1073.1	1114.8	41.7	6.313	0.343	5.1	1111.6	
27	1116.5	1158.2	41.7	6.324	0.338	6.6	1150.9	
28	1159.7	1201.4	41.7	6.315	0.342	5.4	1194.5	
29	1203.0	1244.5	41.5	6.310	0.345	4.7	1244.3	
30	1246.2	1287.3	41.1	6.323	0.339	6.5	1249.7	
31	1289.0	1330.7	41.7	6.323	0.339	6.5	1329.0	
32	1332.2	1373.0	40.8	6.318	0.341	5.8	1337.4	
33	1375.4	1413.2	37.8	6.309	0.345	4.6	1391.8	
34	1415.4	1456.7	41.3	6.313	0.343	5.1	1454.4	
35	1458.9	1500.3	41.4	6.317	0.342	5.7	1491.6	
36	1502.0	1543.5	41.5	6.315	0.342	5.4	1542.2	
37	1545.0	1586.0	41.0	6.333	0.333	7.9	1546.0	
38	1588.2	1629.8	41.6	6.349	0.326	10.1	1627.8	Slight Wear
39	1631.5	1672.9	41.4	6.319	0.341	5.9	1666.6	

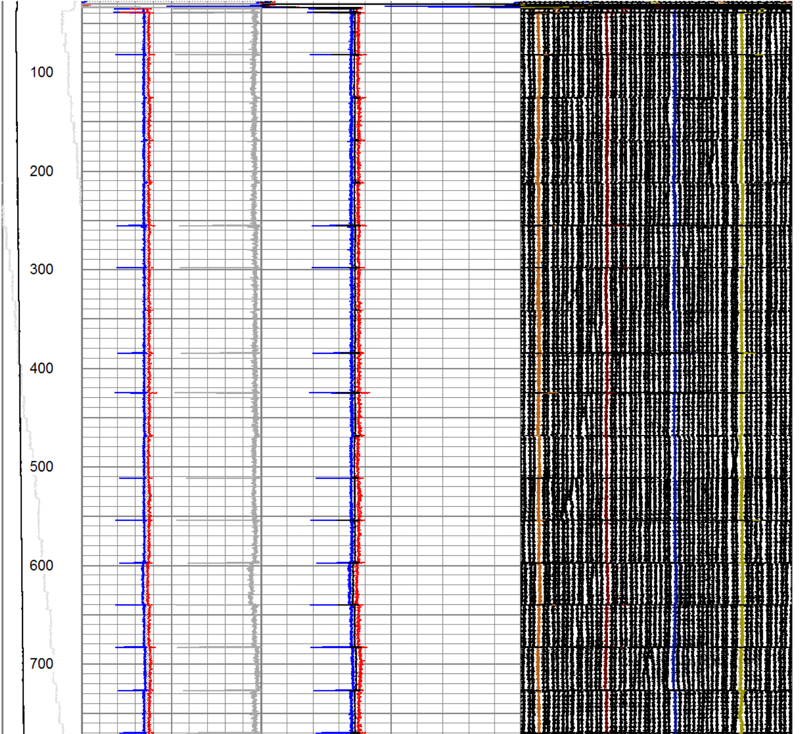
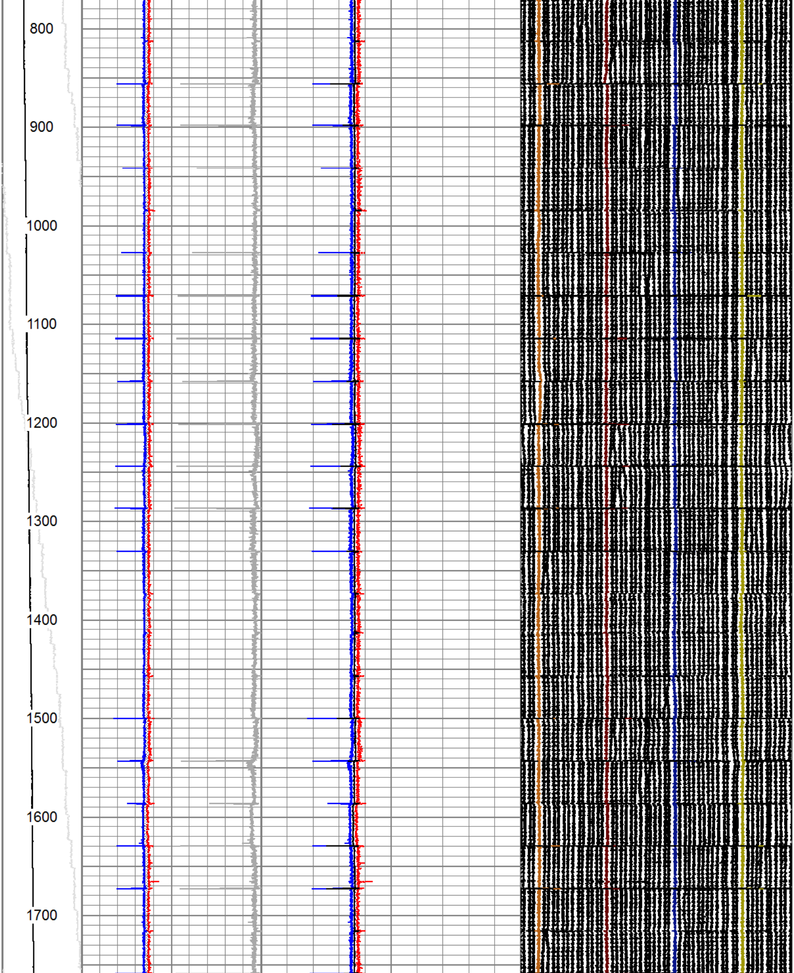
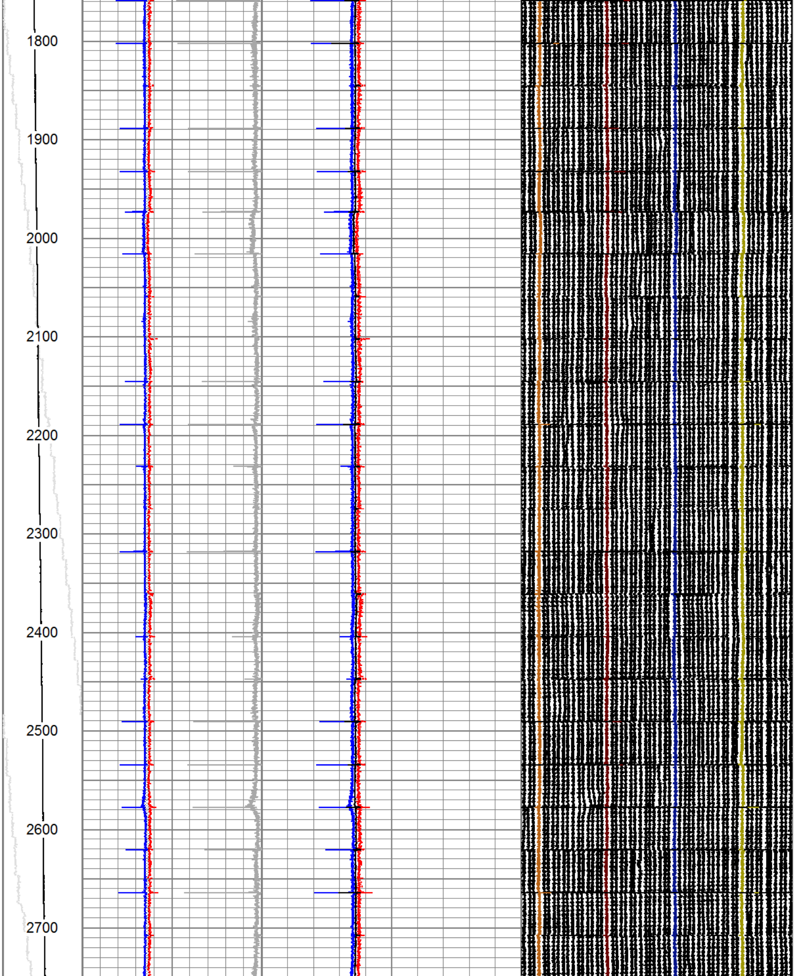
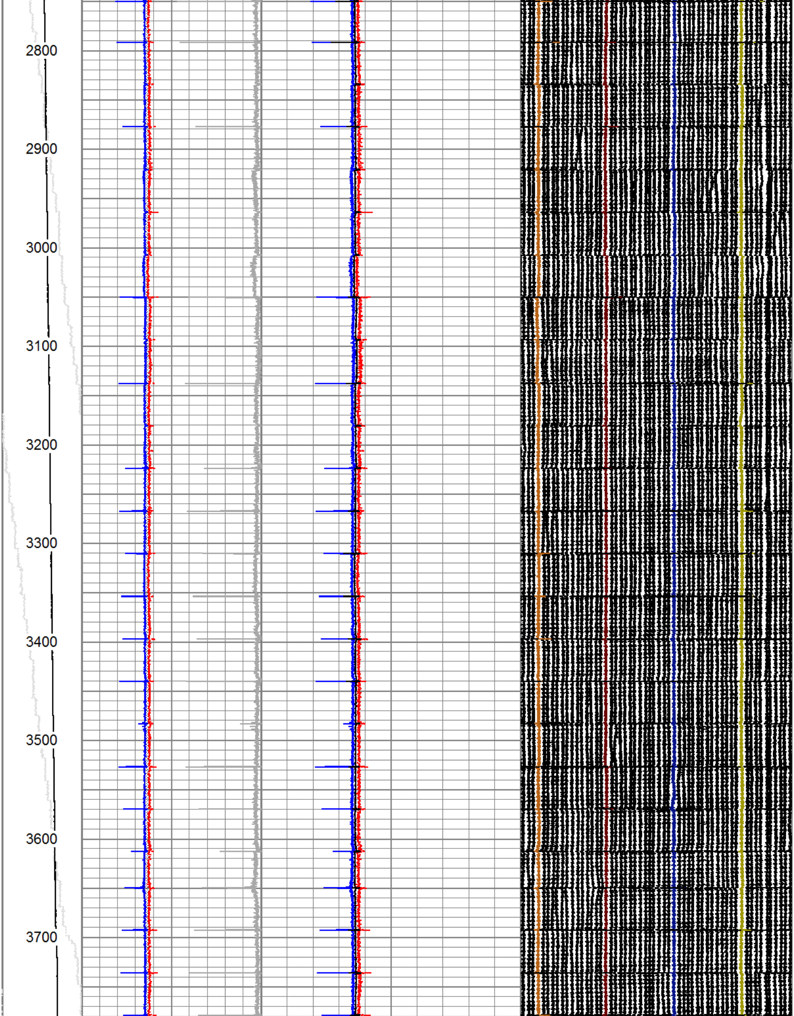
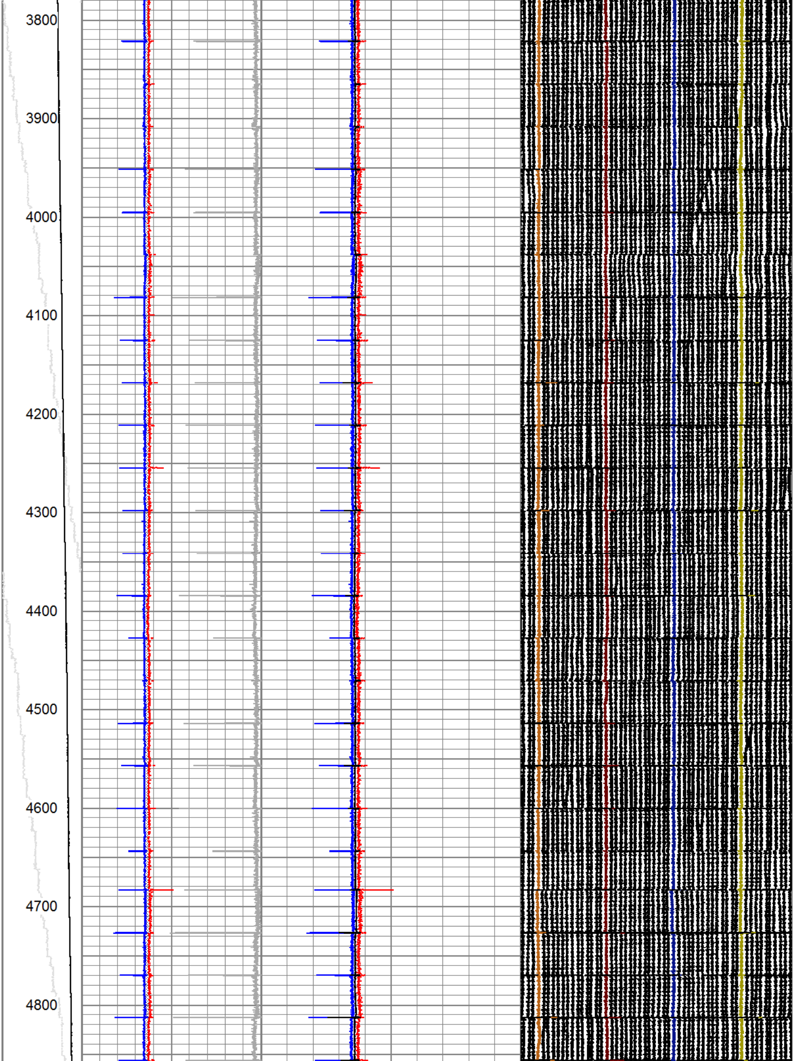
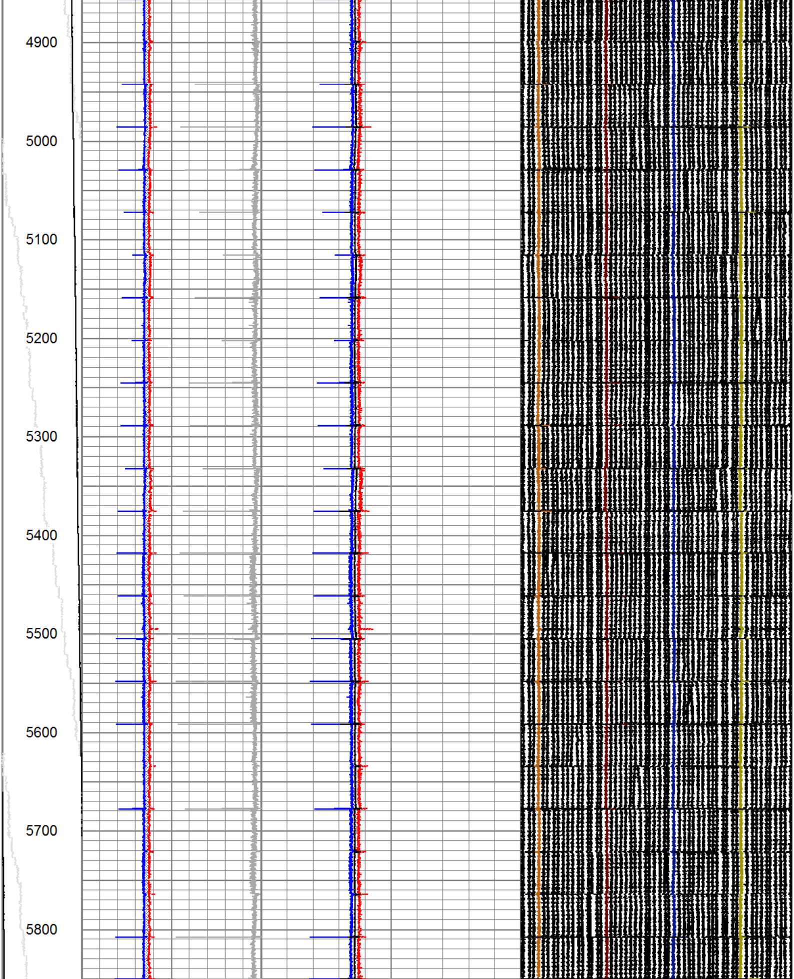
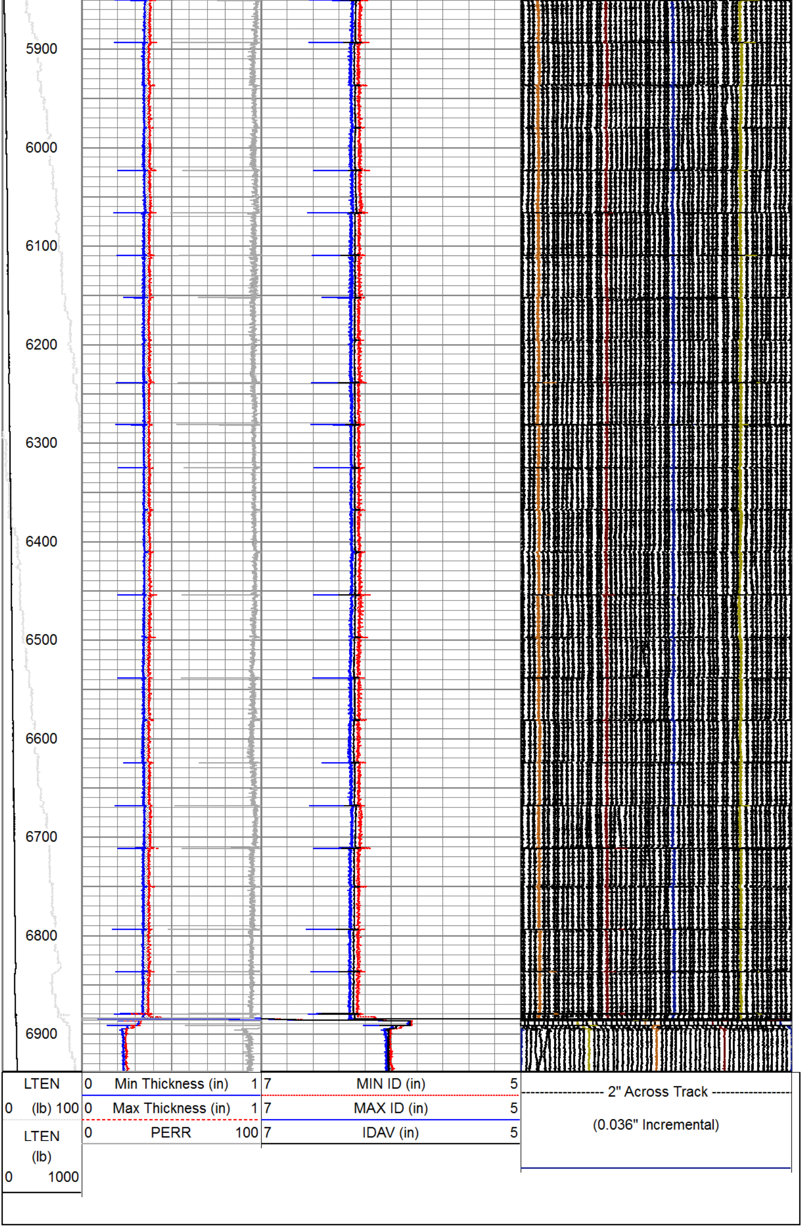
40	1674.5	1715.3	40.8	6.324	0.338	6.6	1707.4	
41	1717.5	1759.0	41.5	6.317	0.342	5.7	1725.5	
42	1760.7	1802.3	41.6	6.314	0.343	5.2	1782.4	
43	1804.0	1845.5	41.5	6.321	0.339	6.2	1837.3	
44	1847.4	1889.0	41.6	6.310	0.345	4.7	1855.3	
45	1890.5	1932.3	41.8	6.314	0.343	5.2	1930.0	
46	1933.9	1973.5	39.6	6.311	0.345	4.8	1973.3	
47	1975.1	2016.3	41.2	6.332	0.334	7.7	2015.2	
48	2018.0	2059.0	41.0	6.315	0.342	5.4	2049.5	
49	2061.2	2102.1	40.9	6.328	0.336	7.2	2085.7	
50	2104.3	2146.0	41.7	6.308	0.346	4.4	2109.8	
51	2147.5	2189.1	41.6	6.316	0.342	5.5	2184.4	
52	2190.6	2232.1	41.5	6.313	0.343	5.1	2193.1	
53	2233.8	2274.6	40.8	6.313	0.343	5.1	2235.7	
54	2276.9	2318.2	41.3	6.312	0.344	5.0	2317.8	
55	2319.7	2360.6	40.9	6.306	0.347	4.1	2320.8	
56	2362.9	2404.4	41.5	6.309	0.345	4.6	2403.7	
57	2406.0	2447.0	41.0	6.312	0.344	5.0	2407.8	
58	2449.4	2491.1	41.7	6.316	0.342	5.5	2482.8	
59	2492.7	2534.4	41.7	6.311	0.345	4.8	2511.5	
60	2536.1	2577.7	41.6	6.339	0.330	8.7	2577.3	
61	2579.4	2621.2	41.8	6.317	0.342	5.7	2580.9	
62	2622.7	2664.4	41.7	6.324	0.338	6.6	2664.1	
63	2666.1	2707.0	40.9	6.307	0.346	4.3	2699.4	
64	2709.3	2750.4	41.1	6.315	0.342	5.4	2746.1	
65	2752.0	2791.8	39.8	6.307	0.346	4.3	2784.0	
66	2793.4	2834.1	40.7	6.306	0.347	4.1	2795.3	
67	2836.4	2878.0	41.6	6.308	0.346	4.4	2872.7	
68	2879.6	2920.5	40.9	6.305	0.348	4.0	2919.6	
69	2922.7	2963.7	41.0	6.312	0.344	5.0	2928.9	
70	2966.1	3007.0	40.9	6.308	0.346	4.4	2972.3	
71	3009.4	3050.6	41.2	6.318	0.341	5.8	3024.9	
72	3052.4	3093.4	41.0	6.301	0.349	3.5	3086.7	
73	3095.5	3137.6	42.1	6.302	0.349	3.6	3097.6	
74	3139.2	3180.4	41.2	6.305	0.348	4.0	3141.1	
75	3182.6	3224.3	41.7	6.312	0.344	5.0	3224.0	
76	3226.0	3267.5	41.5	6.306	0.347	4.1	3267.3	
77	3269.0	3310.8	41.8	6.302	0.349	3.6	3304.2	
78	3312.5	3354.1	41.6	6.308	0.346	4.4	3344.9	
79	3355.8	3397.3	41.5	6.305	0.348	4.0	3361.6	
80	3399.0	3440.4	41.4	6.301	0.349	3.5	3433.0	
81	3442.0	3483.6	41.6	6.313	0.343	5.1	3483.3	
82	3485.2	3526.8	41.6	6.317	0.342	5.7	3487.2	
83	3528.5	3569.9	41.4	6.308	0.346	4.4	3563.7	
84	3571.5	3613.2	41.7	6.310	0.345	4.7	3585.7	
85	3614.9	3650.1	35.2	6.338	0.331	8.6	3649.8	

86	3651.7	3692.9	41.2	6.313	0.343	5.1	3653.5	
87	3694.5	3735.9	41.4	6.299	0.351	3.2	3730.4	
88	3737.5	3779.0	41.5	6.302	0.349	3.6	3751.1	
89	3780.8	3822.1	41.3	6.312	0.344	5.0	3804.2	
90	3823.8	3864.7	40.9	6.309	0.345	4.6	3861.7	
91	3867.0	3908.0	41.0	6.311	0.345	4.8	3906.2	
92	3910.3	3952.0	41.7	6.308	0.346	4.4	3911.7	
93	3953.5	3995.4	41.9	6.303	0.349	3.7	3985.7	
94	3997.1	4038.2	41.1	6.306	0.347	4.1	4030.3	
95	4040.5	4082.2	41.7	6.305	0.348	4.0	4078.9	
96	4083.8	4125.3	41.5	6.310	0.345	4.7	4120.4	

161	JOINT COUNT		ANADARKO Xcel 12NhhHz					16-Feb-14
Item no.	Top Body	Bottom Body	Body Length	Max.Pen.(ins)	Min Wall (ins)	Max.Pen. (%)	Max.Pen. Depth	Damage Description 0-9%Low 10-18%Slight 19-27%Moderate >27%Severe
97	4127.0	4168.6	41.6	6.304	0.348	3.9	4139.9	
98	4170.2	4211.9	41.7	6.302	0.349	3.6	4205.5	
99	4213.6	4255.2	41.6	6.308	0.346	4.4	4236.5	
100	4256.7	4298.4	41.7	6.305	0.348	4.0	4269.1	
101	4300.0	4341.5	41.5	6.321	0.339	6.2	4309.7	
102	4343.4	4384.7	41.3	6.320	0.340	6.1	4373.6	
103	4386.4	4427.7	41.3	6.316	0.342	5.5	4398.7	
104	4429.5	4470.5	41.0	6.308	0.346	4.4	4433.8	
105	4472.8	4514.2	41.4	6.305	0.348	4.0	4474.0	
106	4515.9	4557.4	41.5	6.316	0.342	5.5	4549.3	
107	4559.0	4600.5	41.5	6.307	0.346	4.3	4600.5	
108	4602.3	4643.5	41.2	6.309	0.345	4.6	4610.1	
109	4645.6	4683.6	38.0	6.304	0.348	3.9	4679.4	
110	4685.1	4726.8	41.7	6.300	0.350	3.3	4720.1	
111	4728.5	4770.1	41.6	6.314	0.343	5.2	4742.1	
112	4771.8	4813.1	41.3	6.312	0.344	5.0	4772.1	
113	4814.8	4856.3	41.5	6.312	0.344	5.0	4838.7	
114	4857.9	4898.9	41.0	6.314	0.343	5.2	4893.7	
115	4901.2	4942.7	41.5	6.313	0.343	5.1	4906.9	
116	4944.3	4986.0	41.7	6.307	0.346	4.3	4952.8	
117	4987.6	5029.5	41.9	6.316	0.342	5.5	5029.3	
118	5031.2	5072.7	41.5	6.312	0.344	5.0	5066.6	
119	5074.3	5116.0	41.7	6.311	0.345	4.8	5108.3	
120	5117.5	5159.1	41.6	6.311	0.345	4.8	5158.9	
121	5160.8	5202.3	41.5	6.323	0.339	6.5	5187.9	
122	5204.0	5245.5	41.5	6.317	0.342	5.7	5209.6	
123	5247.2	5289.1	41.9	6.312	0.344	5.0	5251.1	
124	5290.7	5332.4	41.7	6.316	0.342	5.5	5298.5	
125	5333.9	5375.7	41.8	6.319	0.341	5.9	5375.2	
126	5377.3	5418.6	41.3	6.313	0.343	5.1	5381.1	
127	5420.2	5461.9	41.7	6.321	0.339	6.2	5461.2	
128	5463.5	5505.3	41.8	6.331	0.335	7.6	5469.7	
129	5507.0	5548.6	41.6	6.317	0.342	5.7	5524.4	
130	5550.2	5591.7	41.5	6.332	0.334	7.7	5565.0	
131	5593.3	5634.1	40.8	6.312	0.344	5.0	5629.6	
132	5636.5	5678.2	41.7	6.312	0.344	5.0	5643.9	
133	5679.9	5720.6	40.7	6.316	0.342	5.5	5681.0	
134	5722.8	5763.9	41.1	6.321	0.339	6.2	5752.7	
135	5766.1	5807.6	41.5	6.312	0.344	5.0	5802.8	
136	5809.2	5850.8	41.6	6.325	0.338	6.8	5850.5	
137	5852.4	5893.9	41.5	6.312	0.344	5.0	5882.0	
138	5895.6	5936.4	40.8	6.328	0.336	7.2	5908.2	

139	5938.6	5979.5	40.9	6.314	0.343	5.2	5951.8	
140	5982.0	6023.6	41.6	6.323	0.339	6.5	5999.3	
141	6025.3	6066.7	41.4	6.318	0.341	5.8	6054.2	
142	6068.3	6109.7	41.4	6.328	0.336	7.2	6068.4	
143	6111.3	6152.0	40.7	6.324	0.338	6.6	6143.2	
144	6154.4	6195.0	40.6	6.325	0.338	6.8	6187.6	
145	6197.4	6239.0	41.6	6.322	0.339	6.4	6200.5	
146	6240.6	6282.1	41.5	6.318	0.341	5.8	6243.9	
147	6283.8	6325.3	41.5	6.315	0.342	5.4	6289.5	
148	6326.9	6367.4	40.5	6.314	0.343	5.2	6332.1	
149	6369.8	6410.6	40.8	6.315	0.342	5.4	6398.1	
150	6412.9	6454.7	41.8	6.315	0.342	5.4	6420.9	
151	6456.3	6497.0	40.7	6.317	0.342	5.7	6485.6	
152	6499.3	6538.3	39.0	6.322	0.339	6.4	6532.0	
153	6539.9	6581.0	41.1	6.324	0.338	6.6	6575.4	
154	6583.3	6625.0	41.7	6.331	0.335	7.6	6619.1	
155	6626.7	6668.4	41.7	6.327	0.336	7.0	6660.2	
156	6670.0	6711.5	41.5	6.315	0.342	5.4	6711.1	
157	6713.2	6750.1	36.9	6.324	0.338	6.6	6739.0	
158	6752.4	6793.9	41.5	6.327	0.336	7.0	6755.0	
159	6795.5	6837.0	41.5	6.327	0.336	7.0	6809.9	
160	6838.6	6880.1	41.5	6.328	0.336	7.2	6872.3	
161	6881.3	6884.1	2.8	6.320	0.340	6.1	6883.7	

Database File:	apc xcel_12n_22hz_xipe.db
Dataset Pathname:	runm/@00001068
Presentation Format:	756x1200
Dataset Creation:	Sun Feb 16 11:43:08 2014
Charted by:	Depth in Feet scaled 1:1200

LTEN 0 (lb) 100 LTEN (lb) 0 1000	0 Min Thickness (in) 1 0 Max Thickness (in) 1 0 PERR 100	7 MIN ID (in) 5 7 MAX ID (in) 5 7 IDAV (in) 5	2" Across Track (0.036" Incremental)