BAKER HUGHES

HR Vertilog

Magnetic Flux Leakage Inspection

ADVANCED ANALYSIS

Company	Inergy Midstream
Well	#57
Field	US Salt
County	Schuyler
State	New York
Location:	

Section	N/A	Township	Reading	Range	N/A
Date	Nov. 8, 2011			Depth	2296.000
Service Order	596873			Btm. Log Interval	2260.310
Recorded by	Grant Riffle			Top Log Interval	8.030
Witnessed by	Barry Moon			Fluid Type	KCL
API Serial No.	31-097-12858-00-01				
Permanent Datum	G.L.	Elevation	695.000 ft.		
Log Measured From	G.L.	0.000 ft. above Perm. Datum			
Drilling Measured From	K.B.	0.000 ft. above Perm. Datum			

Casing Data

Size	Weight	Grade	From	To	Length
8 5/8 inch	32.0 lb/ft	J-55	0	2296	2296.0

Equipment Data

Tool	7 to 9-5/8 inch HRVRT 96 FL + 96 DIS Tool
Magnetizer	7 to 9-5/8 inch HRVRT 96 FL + 96 DIS Tool
Telemetry	WUX-DB
Software Version	5.0.4.0

Calibration Data

Calibration File Name	4997-7-001-PB11669776-QB11669777.CAL
Date of Calibration	03/29/2011 18:06
Calibration Identifier	CD27E47D-43D9-46ED-99A2-B76E4AC4E14A
Tool Number	4997-00
Calibrator Number	4997-7-001
Calibrator Size	(7 In - 178 mm)
Calibration Source File	20110329_191948_MEM.MVL
Calibration Software Rev	Microvision 32-bit 4.0.4.0
Comment	Microline New Tool Cal

In making interpretations of logs our employees will give customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Remarks

Thank you for using Baker Hughes.
The crew on your location: K. Kelley, M. Cutlip, and D. Will.
The Jcgr size ran was 7.54" o.d.
It was ran to 2275'.
N/A = Unknown at the time of logging.

Engineer's remarks are included above.
While not noted on the field log heading, there is an external casing string in this well. The bottom of this string is at 87.04 ft. The size, weight, and grade of this string are unknown.
See Feature List for depth of centralizers.

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	Type	ID/OD
1	8.03	29.48	21.45	Class 3	49.0%	10.03	ISO	ID
2	29.48	61.51	32.03	Class 1	-	-	-	-
3	61.51	93.70	32.19	Class 1	-	-	-	-
4	93.70	126.12	32.42	Class 3	46.0%	112.85	ISO	ID
5	126.12	158.03	31.91	Class 1	-	-	-	-
6	158.03	190.28	32.25	Class 1	-	-	-	-
7	190.28	223.28	33.00	Class 1	-	-	-	-
8	223.28	255.94	32.66	Class 1	-	-	-	-
9	255.94	287.67	31.73	Class 1	-	-	-	-
10	287.67	320.69	33.02	Class 1	-	-	-	-
11	320.69	352.34	31.65	Class 1	-	-	-	-
12	352.34	384.43	32.09	Class 1	-	-	-	-
13	384.43	417.28	32.85	Class 1	-	-	-	-
14	417.28	449.56	32.28	Class 2	20.0%	422.71	ISO	ID
15	449.56	480.72	31.16	Class 1	-	-	-	-
16	480.72	513.45	32.73	Class 1	-	-	-	-
17	513.45	546.03	32.58	Class 1	-	-	-	-
18	546.03	578.91	32.88	Class 1	-	-	-	-
19	578.91	611.13	32.22	Class 1	-	-	-	-
20	611.13	644.02	32.89	Class 1	-	-	-	-
21	644.02	675.35	31.33	Class 1	-	-	-	-
22	675.35	708.23	32.88	Class 1	-	-	-	-
23	708.23	740.78	32.55	Class 1	-	-	-	-
24	740.78	772.59	31.81	Class 1	-	-	-	-
25	772.59	805.37	32.78	Class 1	-	-	-	-
26	805.37	837.82	32.45	Class 1	-	-	-	-
27	837.82	870.47	32.65	Class 1	-	-	-	-
28	870.47	902.83	32.36	Class 1	-	-	-	-
29	902.83	935.80	32.97	Class 1	-	-	-	-
30	935.80	969.16	33.36	Class 1	-	-	-	-
31	969.16	1001.47	32.31	Class 2	25.0%	992.22	ISO	ID
32	1001.47	1033.79	32.32	Class 2	27.0%	1017.98	ISO	ID
33	1033.79	1066.38	32.59	Class 3	41.0%	1048.26	ISO	ID
34	1066.38	1098.41	32.03	Class 1	-	-	-	-
35	1098.41	1128.97	30.56	Class 2	24.0%	1107.06	ISO	ID
36	1128.97	1162.22	33.25	Class 2	28.0%	1146.84	ISO	ID
37	1162.22	1194.75	32.53	Class 1	-	-	-	-
38	1194.75	1226.41	31.66	Class 1	-	-	-	-
39	1226.41	1258.89	32.48	Class 2	22.0%	1233.79	ISO	ID
40	1258.89	1291.08	32.19	Class 1	-	-	-	-
41	1291.08	1322.36	31.28	Class 1	-	-	-	-
42	1322.36	1353.45	31.09	Class 1	-	-	-	-
43	1353.45	1386.20	32.75	Class 1	-	-	-	-
44	1386.20	1417.87	31.67	Class 2	27.0%	1404.03	ISO	ID
45	1417.87	1449.26	31.39	Class 2	27.0%	1441.53	ISO	ID
46	1449.26	1480.10	30.84	Class 1	-	-	-	-
47	1480.10	1511.19	31.09	Class 1	-	-	-	-
48	1511.19	1543.18	31.99	Class 2	21.0%	1522.68	ISO	ID
49	1543.18	1575.07	31.89	Class 1	-	-	-	-
50	1575.07	1607.70	32.63	Class 1	-	-	-	-
51	1607.70	1640.21	32.51	Class 1	-	-	-	-
52	1640.21	1670.86	30.65	Class 1	-	-	-	-
53	1670.86	1703.17	32.31	Class 1	-	-	-	-
54	1703.17	1736.21	33.04	Class 2	27.0%	1712.19	ISO	ID
55	1736.21	1768.92	32.71	Class 2	29.0%	1759.71	ISO	ID
56	1768.92	1800.84	31.92	Class 1	-	-	-	-
57	1800.84	1831.36	30.52	Class 1	-	-	-	-
58	1831.36	1864.22	32.86	Class 1	-	-	-	-
59	1864.22	1896.26	32.04	Class 2	22.0%	1867.56	ISO	ID
60	1896.26	1928.45	32.19	Class 1	-	-	-	-
61	1928.45	1957.71	29.26	Class 1	-	-	-	-
62	1957.71	1989.76	32.05	Class 1	-	-	-	-
63	1989.76	2021.90	32.14	Class 1	-	-	-	-
64	2021.90	2052.71	30.81	Class 1	-	-	-	-
65	2052.71	2083.67	30.96	Class 1	-	-	-	-
66	2083.67	2115.71	32.04	Class 3	41.0%	2095.97	ISO	ID
67	2115.71	2144.53	28.82	Class 1	-	-	-	-
68	2144.53	2176.77	32.24	Class 1	-	-	-	-
69	2176.77	2208.19	31.42	Class 1	-	-	-	-
70	2208.19	2239.12	30.93	Class 2	26.0%	2212.66	ISO	ID
71	2239.12	2260.31	21.19	Class 1	-	-	-	-

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Files 20111108_08523B_PHR.MVL 20111108_08523A_PHR.MVL

Main Log 5"/100'

Class 1	Class 2	Class 3	Class 4
0 - 20%	20 - 40%	40 - 60%	60 - 100%

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Files 20111108_08523B_PHR.MVL 20111108_08523A_PHR.MVL

Expanded Scale – Top of Well

Class 1	Class 2	Class 3	Class 4
0 - 20%	20 - 40%	40 - 60%	60 - 100%

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Files 20111108_08523B_PHR.MVL 20111108_08523A_PHR.MVL