HR Vertilog

BAKER HUGHES

Magnetic Flux Leakage Inspection

Advanced Analysis

Company	Inergy Midstream
Well	#45
Field	US Salt
County	Schyuler
State	New York
Location:	

Section N/A	Township Reading	Range N/A	

Date	Dec. 1, 2011
Service Order	618785
Recorded by	Grant Riffle
Witnessed by	Barry Moon
API Serial No.	31-097-61-200-00-01

Permanent Datum:	G.L.	Elevation: 537.000 ft.		Depth	2366.000
Log Measured From:	M.G.	4.000 ft. above Perm. Datum		Btm. Log Interval	2350.000
Drilling Measured From:	K.B.	0.000 ft. above Perm. Datum		Top Log Interval	-4.000
				Fluid Type	Brine

Casing Data

Size	Weight	Grade	From	To	Length
8 5/8 inch	32.0 lb/ft	J-55	0	2362	2362.0

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
Telemetery	MUX-DB
Software Version	5.1.0.0

Calibration Data

Calibration File Name	4997-8-001-PB11669776-QB11669777.CAL
Date of Calibration	03/29/2011 18:08
Calibration Identifier	DAC90591-927E-4428-9B31-BA90F05DD5DF
Tool Number	4997-00
Calibrator Number	4997-8-001
Calibrator Size	(8-5/8 In - 219 mm)
Calibration Source File	20110329_173058_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: M. Marsh and S. McCourt.
The Jcgr size ran was 7.54" it was ran to 2350'.
N/A = Unknow at the time of the log.

Interpretation

15.00 ft Collar elongated due to tool stick and release.
15.14 ft Hardware - Top of Ext. CSG - Size Unknown
209.63 ft Hardware - Bottom of Ext. CSG - Size Unknown
2203.11 ft Metal Loss Call Box - Probable External corrosion with total or near total Body Wall Penetration

Joint Interpretation Summary

Joint	From	To	Length	Class	Max Depth	Position	ID/OD
1	8.61	15.00	6.39	Class 1	-	-	-
2	15.00	43.21	28.21	Class 1	-	-	-
3	43.21	75.36	32.15	Class 1	-	-	-
4	75.36	107.30	31.94	Class 1	-	-	-
5	107.30	137.38	30.08	Class 1	-	-	-
6	137.38	169.82	32.44	Class 1	-	-	-
7	169.82	202.30	32.48	Class 1	-	-	-
8	202.30	233.80	31.50	Class 2	24.0%	233.34	OD
9	233.80	265.56	31.76	Class 2	37.0%	244.90	OD
10	265.56	297.61	32.05	Class 2	28.0%	292.25	OD
11	297.61	328.94	31.33	Class 1	-	-	-
12	328.94	360.59	31.65	Class 1	-	-	-
13	360.59	385.89	25.30	Class 1	-	-	-
14	385.89	415.60	29.71	Class 1	-	-	-
15	415.60	444.21	28.61	Class 1	-	-	-
16	444.21	475.18	30.97	Class 1	-	-	-
17	475.18	507.21	32.03	Class 2	28.0%	487.97	OD
18	507.21	539.70	32.49	Class 1	-	-	-
19	539.70	570.30	30.60	Class 4	88.0%	553.47	OD
20	570.30	599.05	28.75	Class 3	55.0%	576.36	OD
21	599.05	626.51	27.46	Class 2	32.0%	616.34	OD
22	626.51	657.31	30.80	Class 2	23.0%	646.84	OD
23	657.31	690.22	32.91	Class 2	25.0%	686.37	OD
24	690.22	721.75	31.53	Class 1	-	-	-
25	721.75	750.31	28.56	Class 1	-	-	-
26	750.31	783.74	33.43	Class 1	-	-	-
27	783.74	813.75	30.01	Class 1	-	-	-
28	813.75	845.99	32.24	Class 1	-	-	-
29	845.99	870.48	24.49	Class 1	-	-	-
30	870.48	899.81	29.33	Class 1	-	-	-
31	899.81	931.99	32.18	Class 1	-	-	-
32	931.99	963.85	31.86	Class 1	-	-	-
33	963.85	992.53	28.68	Class 1	-	-	-
34	992.53	1024.74	32.21	Class 1	-	-	-
35	1024.74	1058.44	33.70	Class 1	-	-	-
36	1058.44	1089.40	30.96	Class 1	-	-	-
37	1089.40	1123.16	33.76	Class 1	-	-	-
38	1123.16	1153.73	30.57	Class 1	-	-	-
39	1153.73	1183.16	29.43	Class 1	-	-	-
40	1183.16	1211.11	27.95	Class 1	-	-	-
41	1211.11	1242.46	31.35	Class 1	-	-	-
42	1242.46	1274.19	31.73	Class 1	-	-	-
43	1274.19	1305.12	30.93	Class 1	-	-	-
44	1305.12	1337.63	32.51	Class 1	-	-	-
45	1337.63	1371.07	33.44	Class 1	-	-	-
46	1371.07	1402.29	31.22	Class 1	-	-	-
47	1402.29	1433.46	31.17	Class 1	-	-	-
48	1433.46	1465.07	31.61	Class 1	-	-	-
49	1465.07	1497.20	32.13	Class 1	-	-	-
50	1497.20	1529.33	32.13	Class 1	-	-	-
51	1529.33	1559.98	30.65	Class 1	-	-	-
52	1559.98	1592.96	32.98	Class 1	-	-	-
53	1592.96	1624.28	31.32	Class 1	-	-	-
54	1624.28	1655.69	31.41	Class 1	-	-	-
55	1655.69	1688.96	33.27	Class 1	-	-	-
56	1688.96	1721.35	32.39	Class 1	-	-	-
57	1721.35	1751.61	30.26	Class 1	-	-	-
58	1751.61	1783.47	31.86	Class 1	-	-	-
59	1783.47	1815.35	31.88	Class 1	-	-	-
60	1815.35	1845.53	30.18	Class 1	-	-	-
61	1845.53	1874.71	29.18	Class 1	-	-	-
62	1874.71	1905.48	30.77	Class 1	-	-	-
63	1905.48	1936.76	31.28	Class 1	-	-	-
64	1936.76	1969.95	33.19	Class 1	-	-	-
65	1969.95	2000.84	30.89	Class 1	-	-	-
66	2000.84	2032.64	31.80	Class 1	-	-	-
67	2032.64	2065.65	33.01	Class 1	-	-	-
68	2065.65	2098.95	33.30	Class 1	-	-	-
69	2098.95	2131.04	32.09	Class 2	32.0%	2116.50	ID
70	2131.04	2160.56	29.52	Class 3	51.0%	2149.89	ID
71	2160.56	2192.62	32.06	Class 1	-	-	-
72	2192.62	2225.84	33.22	Class 4	84.0%	2203.11	ID
73	2225.84	2259.16	33.32	Class 2	24.0%	2249.37	OD
74	2259.16	2286.82	27.66	Class 2	25.0%	2277.32	ID
75	2286.82	2319.28	32.46	Class 1	-	-	-
76	2319.28	2341.20	21.92	Class 1	-	-	-

Inergy Midstream #45

Files 20111201_114738_PHR.MVL

Main Log
5"/100'

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

Inergy Midstream #45

Files 20111201_114738_PHR.MVL

Inergy Midstream #45

Files 20111201_114738_PHR.MVL

Expanded Scale - top of well

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

Inergy Midstream #45

Files 20111201_114738_PHR.MVL