Western Wireline

60Mac Multifinger Caliper Log

Company	So Cal Gas		
Well	Porter 69 J		
Field	Aliso Canyon		
County	Los Angeles		
State	Ca	Country U.S.A.	

Company So Cal Gas
Well Porter 69 J
Field Aliso Canyon
County Los Angeles
State Ca Country U.S.A.

Location: API #: 037-24224

SEC 28 TWP 3N RGE 16W

Other Services

Permanent Datum	29	Elevation	Elevation K.B. 29 D.F. G.L. 2366
Log Measured From	K.B.		
Drilling Measured From	K.B.		

Date	2-April-2016
Run Number	one
Depth Driller	7521
Depth Logger	7521
Bottom Logged Interval	7521
Top Log Interval	K.B.
Open Hole Size	
Type Fluid	
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	10:00
Time Logger on Bottom	12:00
Equipment Number	208
Location	
Recorded By	Kai Haughton
Witnessed By	

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625	47	29	7676
Prot. String				
Production String				
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

Objective to log 60 Mac for casing inspection.
Used a K.B. of 29' added -4.83 to put on depth with correlation log.
Small pit found at 4650.

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gasco_porter69j_60mac_2-apr-16.db
Dataset field/well/run1/pass4/_vars_

Top - Bottom

BOREID	BOTTEMP	CASEID	CASEOD	CASETHCK	MinAPIWall	PERFS	RM_MEAS_R
in	degF	in	in	in	in		Ohm-m
7.875	151	8.681	9.625	0.472	0.413	0	0.1

RM_MEAS_T	SRFTEMP	TDEPTH
degF	degF	ft
75	0	0

Variable Description

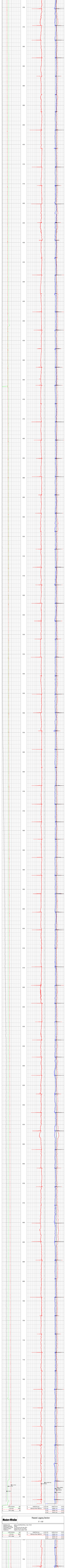
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEID : Casing I.D.
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
MinAPIWall : Minimum API Wall Thickness
PERFS : Perforation Flag
RM_MEAS_R : Mud Resistivity Measured
RM_MEAS_T : Mud Temperature Measured
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Western Wireline — Min Max Main Logging Section

5" = 100'

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	mmmain
Presentation Format	1b_mac_60_min max minrc
Dataset Creation	Sat Apr 02 16:14:43 2016
Charted by	Depth in Feet scaled 1:240

0	LSPD (ft/min)	100
0	LTEN (lb)	3000
0	DEVI (deg)	90
0	NOMTHK (in)	0.5
0	Minimum Rem Wall (in)	0.5
8.181	NOM ID (in)	9.181
8.181	IDMNC (in)	9.181
8.181	IDMXC (in)	9.181
8.181	IDAVC (in)	9.181



Mazen Kinder

Project Logging Section

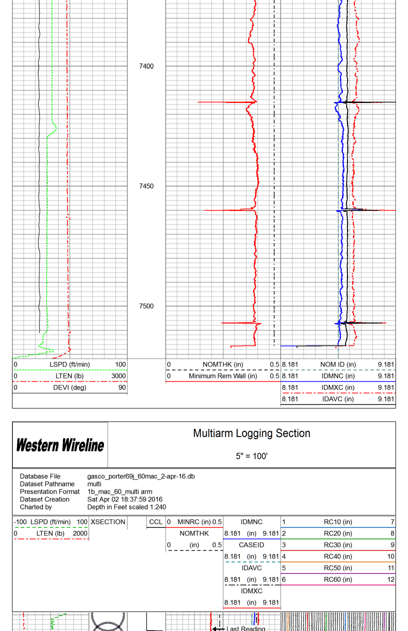
Well Name: Mazen Kinder

Location: Mazen Kinder

Comments: Well Log Data Not Available
Well Log Data Not Available
Well Log Data Not Available

Start Depth	0 m
Stop Depth	0 m

Depth Scale	1:240	
Log Interval	Field Print	
Depth Scale	1:240	
Log Interval	Field Print	



0	LSPD (ft/min)	100	0	NOMTHK (in)	0.5
0	LTEN (lb)	3000	0	Minimum Rem Wall (in)	0.5
0	DEVI (deg)	90			

8.181	NOM ID (in)	9.181
8.181	IDMNC (in)	9.181
8.181	IDMXC (in)	9.181
8.181	IDAVC (in)	9.181

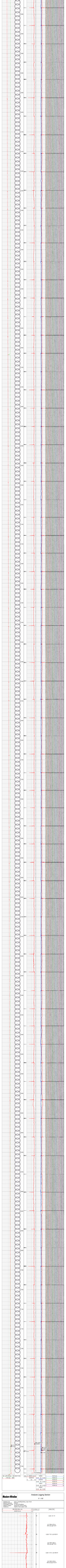
Western Wireline

Multiarm Logging Section

5" = 100'

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	multi
Presentation Format	1b_mac_60_multi arm
Dataset Creation	Sat Apr 02 18:37:59 2016
Charted by	Depth in Feet scaled 1:240

-100 LSPD (ft/min) 100	XSECTION	CCL	0 MINRC (in) 0.5	IDMNC 8.181 (in) 9.181	1 RC10 (in) 7
0 LTEN (lb) 2000			NOMTHK 0 (in) 0.5	CASEID 8.181 (in) 9.181	2 RC20 (in) 8
				IDAVC 8.181 (in) 9.181	3 RC30 (in) 9
				IDMXC 8.181 (in) 9.181	4 RC40 (in) 10
					5 RC50 (in) 11
					6 RC60 (in) 12


Analysis Logging Section
Metro Rodas
Analysis Logging Section
Date: 2011-07-14
Operator: Metro Rodas
Operation: Analysis Logging
Tool: Analysis Logging
Depth Reference: Ground Level
Depth Offset: 0.00 m
Depth Unit: m
Scale: 1:50
Analysis Logging Section
Depth (m)
Gamma Ray
Density
Caliper
Neutron
Resistivity
Gamma Ray (API units)
Density (g/cm³)
Caliper (cm)
Neutron (%)
Resistivity (Ohm-m)
Gamma Ray (API units)
Density (g/cm³)
Caliper (cm)
Neutron (%)
Resistivity (Ohm-m)

#91 RW=0.394 in 17% loss @ 4163.2 ft
<Joint> 4201.7, Len=46.9 ft
#92 RW=0.372 in 21% loss @ 4224.5 ft
<Joint> 4249.1, Len=47.4 ft
#93 RW=0.357 in 24% loss @ 4260.9 ft
<Joint> 4294.2, Len=45.1 ft
#94 RW=0.378 in 20% loss @ 4317.7 ft
<Joint> 4338.8, Len=44.7 ft
#95 RW=0.381 in 19% loss @ 4340.8 ft
<Joint> 4382.9, Len=44.1 ft
#96 RW=0.362 in 23% loss @ 4423.2 ft
<Joint> 4430.5, Len=47.6 ft
#97 RW=0.368 in 22% loss @ 4432.9 ft
<Joint> 4476.9, Len=46.3 ft
#98 RW=0.385 in 18% loss @ 4487.6 ft
<Joint> 4523.4, Len=46.5 ft
#99 RW=0.382 in 19% loss @ 4525.8 ft
<Joint> 4570.9, Len=47.5 ft
#100 RW=0.369 in 22% loss @ 4600.3 ft
<Joint> 4618.3, Len=47.4 ft
#101 RW=0.329 in 30% loss @ 4648.0 ft
<Joint> 4664.3, Len=46.0 ft
#102 RW=0.372 in 21% loss @ 4709.5 ft
<Joint> 4711.3, Len=47.0 ft
#103 RW=0.370 in 22% loss @ 4735.9 ft
<Joint> 4757.5, Len=46.2 ft
#104 RW=0.371 in 21% loss @ 4776.7 ft
<Joint> 4804.1, Len=46.6 ft
#105 RW=0.372 in 21% loss @ 4808.4 ft
<Joint> 4850.9, Len=46.8 ft
#106 RW=0.376 in 20% loss @ 4886.2 ft
<Joint> 4897.2, Len=46.3 ft
#107 RW=0.389 in 18% loss @ 4901.8 ft
<Joint> 4943.8, Len=46.7 ft
#108 RW=0.374 in 21% loss @ 4986.7 ft
<Joint> 4990.6, Len=46.8 ft
#109 RW=0.361 in 23% loss @ 5030.1 ft
<Joint> 5037.1, Len=46.5 ft
#110 RW=0.373 in 21% loss @ 5046.8 ft
<Joint> 5082.2, Len=45.1 ft
#111 RW=0.372 in 21% loss @ 5091.7 ft
<Joint> 5128.2, Len=46.0 ft
#112 RW=0.372 in 21% loss @ 5139.9 ft
<Joint> 5173.4, Len=45.2 ft
#113 RW=0.371 in 21% loss @ 5214.9 ft
<Joint> 5220.4, Len=47.0 ft
#114 RW=0.382 in 19% loss @ 5263.6 ft
<Joint> 5265.3, Len=44.9 ft
#115 RW=0.375 in 21% loss @ 5295.9 ft
<Joint> 5311.6, Len=46.3 ft
#116 RW=0.365 in 23% loss @ 5324.8 ft
<Joint> 5357.8, Len=46.3 ft
#117 RW=0.381 in 19% loss @ 5377.4 ft
<Joint> 5405.2, Len=47.4 ft
#118 RW=0.372 in 21% loss @ 5417.9 ft
<Joint> 5452.2, Len=46.9 ft
#119 RW=0.386 in 18% loss @ 5493.4 ft
<Joint> 5499.4, Len=47.3 ft
#120 RW=0.369 in 22% loss @ 5503.3 ft
<Joint> 5545.8, Len=46.4 ft
#121 RW=0.393 in 17% loss @ 5591.4 ft
<Joint> 5593.0, Len=47.2 ft
#122 RW=0.386 in 18% loss @ 5606.4 ft
<Joint> 5638.9, Len=45.9 ft
#123 RW=0.394 in 17% loss @ 5646.8 ft
<Joint> 5685.4, Len=46.5 ft
#124 RW=0.383 in 19% loss @ 5712.7 ft
<Joint> 5732.8, Len=47.4 ft
#125 RW=0.382 in 19% loss @ 5757.0 ft
<Joint> 5777.8, Len=45.0 ft
#126 RW=0.376 in 20% loss @ 5788.9 ft
<Joint> 5822.1, Len=44.3 ft
#127 RW=0.383 in 19% loss @ 5833.5 ft
<Joint> 5868.6, Len=46.5 ft
#128 RW=0.385 in 18% loss @ 5911.7 ft
<Joint> 5914.4, Len=45.8 ft
#129 RW=0.386 in 18% loss @ 5954.3 ft
<Joint> 5961.1, Len=46.8 ft
#130 RW=0.368 in 22% loss @ 6004.3 ft
<Joint> 6008.2, Len=47.1 ft
#131 RW=0.373 in 21% loss @ 6039.0 ft
<Joint> 6053.5, Len=45.3 ft
#132 RW=0.376 in 20% loss @ 6074.1 ft
<Joint> 6099.9, Len=46.5 ft
#133 RW=0.379 in 20% loss @ 6135.3 ft
<Joint> 6147.5, Len=47.6 ft
#134 RW=0.374 in 21% loss @ 6191.5 ft
<Joint> 6194.9, Len=47.4 ft
#135 RW=0.360 in 24% loss @ 6210.9 ft
<Joint> 6240.7, Len=45.7 ft
#136 RW=0.395 in 16% loss @ 6258.9 ft
<Joint> 6288.0, Len=47.3 ft
#137 RW=0.373 in 21% loss @ 6316.8 ft
<Joint> 6334.4, Len=46.4 ft
#138 RW=0.365 in 23% loss @ 6354.7 ft
<Joint> 6378.0, Len=43.6 ft
#139 RW=0.377 in 20% loss @ 6392.2 ft
<Joint> 6424.7, Len=46.7 ft
#140 RW=0.355 in 25% loss @ 6469.6 ft
<Joint> 6472.0, Len=47.4 ft
#141 RW=0.372 in 21% loss @ 6474.6 ft
<Joint> 6519.3, Len=47.3 ft
#142 RW=0.361 in 24% loss @ 6563.0 ft
<Joint> 6566.3, Len=47.0 ft
#143 RW=0.327 in 31% loss @ 6579.2 ft
<Joint> 6613.8, Len=47.5 ft
#144 RW=0.376 in 20% loss @ 6658.9 ft
<Joint> 6661.2, Len=47.3 ft
#145 RW=0.384 in 19% loss @ 6697.5 ft
<Joint> 6708.5, Len=47.3 ft
#146 RW=0.372 in 21% loss @ 6720.0 ft
<Joint> 6755.7, Len=47.1 ft
#147 RW=0.360 in 24% loss @ 6791.7 ft
<Joint> 6801.6, Len=45.9 ft
#148 RW=0.338 in 28% loss @ 6818.5 ft
<Joint> 6848.5, Len=46.9 ft
#149 RW=0.368 in 22% loss @ 6850.2 ft
<Joint> 6895.9, Len=47.4 ft
#150 RW=0.381 in 19% loss @ 6940.0 ft
<Joint> 6943.2, Len=47.4 ft
#151 RW=0.375 in 21% loss @ 6981.5 ft
<Joint> 6990.6, Len=47.4 ft
#152 RW=0.387 in 18% loss @ 6993.3 ft
<Joint> 7037.8, Len=47.2 ft
#153 RW=0.373 in 21% loss @ 7079.0 ft
<Joint> 7084.5, Len=46.7 ft
#154 RW=0.372 in 21% loss @ 7106.1 ft
<Joint> 7131.4, Len=46.9 ft
#155 RW=0.373 in 21% loss @ 7169.9 ft
<Joint> 7178.2, Len=46.8 ft
#156 RW=0.384 in 19% loss @ 7183.7 ft
<Joint> 7225.5, Len=47.3 ft
#157 RW=0.392 in 17% loss @ 7252.0 ft
<Joint> 7272.8, Len=47.3 ft
#158 RW=0.366 in 22% loss @ 7317.8 ft
<Joint> 7320.1, Len=47.3 ft
#159 RW=0.375 in 21% loss @ 7364.6 ft
<Joint> 7367.5, Len=47.3 ft
#160 RW=0.349 in 26% loss @ 7369.6 ft
<Joint> 7414.8, Len=47.4 ft
#161 RW=0.366 in 22% loss @ 7419.4 ft
<Joint> 7460.0, Len=45.1 ft
#162 RW=0.379 in 20% loss @ 7465.5 ft
<Joint> 7506.9, Len=46.9 ft

0 MIN REM WALL (in) 0.5	-3 CCLC 3	ANALYSIS
0 NOMTHK (in) 0.5		

Company:
Well:

Western Wireline

No.	Depth	Length	Remaining Wall 0.000 0.500	in
1	27.1	46.9		0.375
2	74.0	46.9		0.382
3	121.0	47.0		0.378
4	168.0	46.2		0.382
5	214.1	46.7		0.375
6	260.8	47.0		0.378
7	307.8	46.9		0.389
8	354.7	44.7		0.382
9	399.4	43.9		0.387
10	443.3	45.1		0.362
11	488.3	42.5		0.372
12	530.8	45.1		0.375
13	575.9	46.4		0.373
14	622.3	42.2		0.371
15	664.5	46.2		0.377
16	710.7	46.4		0.379
17	757.1	44.6		0.382
18	801.7	46.9		0.389
19	848.6	46.6		0.367
20	895.2	43.7		0.375
21	938.9	45.6		0.384
22	984.5	46.8		0.375
23	1031.3	46.3		0.371
24	1077.6	46.3		0.394
25	1123.8	45.8		0.368

No.	Depth	Length	Remaining Wall 0.000 0.500	in
26	1169.6	45.8		0.371
27	1215.3	45.6		0.360
28	1261.0	44.0		0.391
29	1305.0	47.4		0.381
30	1352.4	47.4		0.381
31	1399.9	46.5		0.363
32	1446.4	47.4		0.385
33	1493.8	45.2		0.373
34	1539.0	46.1		0.378
35	1585.1	45.8		0.379
36	1630.9	45.3		0.368
37	1676.2	45.8		0.384
38	1722.0	46.9		0.388
39	1768.9	46.6		0.370
40	1815.5	47.1		0.369
41	1862.6	45.8		0.379
42	1908.4	46.9		0.369
43	1955.3	46.8		0.378
44	2002.0	46.4		0.384
45	2048.5	44.5		0.364
46	2093.0	42.2		0.391
47	2135.2	45.0		0.363
48	2180.2	45.9		0.370
49	2226.1	46.7		0.379
50	2272.8	46.5		0.374

Log Date:

Sheet: 1 of 4

Company:
Well:

Western Wireline

No.	Depth	Length	Remaining Wall 0.000 0.500	in
51	2319.2	46.2		0.382
52	2365.4	46.9		0.366
53	2412.3	46.7		0.392
54	2459.0	46.8		0.369
55	2505.8	46.6		0.375
56	2552.4	44.4		0.366
57	2596.8	46.4		0.373
58	2643.2	46.8		0.390
59	2690.0	44.0		0.386
60	2734.0	45.8		0.384
61	2779.8	47.0		0.385
62	2826.8	47.2		0.375
63	2874.0	46.8		0.373
64	2920.8	45.1		0.387
65	2966.0	48.8		0.385
66	3014.8	46.1		0.380
67	3060.8	47.4		0.382
68	3108.3	45.8		0.369
69	3154.1	43.0		0.370
70	3197.1	47.0		0.372
71	3244.0	45.8		0.380
72	3289.8	46.8		0.380
73	3336.6	46.9		0.388
74	3383.5	46.8		0.373
75	3430.3	44.4		0.380

No.	Depth	Length	Remaining Wall 0.000 0.500	in
76	3474.7	45.5		0.369
77	3520.2	46.9		0.376
78	3567.1	45.9		0.376
79	3613.0	46.9		0.383
80	3659.9	43.8		0.381
81	3703.6	42.8		0.355
82	3746.5	37.3		0.364
83	3783.8	45.0		0.372
84	3828.8	46.8		0.371
85	3875.6	47.2		0.368
86	3922.8	43.5		0.367
87	3966.2	46.9		0.383
88	4013.2	46.8		0.377
89	4060.0	47.4		0.387
90	4107.4	47.3		0.379
91	4154.7	46.9		0.394
92	4201.7	47.4		0.372
93	4249.1	45.1		0.357
94	4294.2	44.7		0.378
95	4338.8	44.1		0.381
96	4382.9	47.6		0.362
97	4430.5	46.3		0.368
98	4476.9	46.5		0.385
99	4523.4	47.5		0.382
100	4570.9	47.4		0.369

Log Date:

Sheet: 2 of 4

Company:
Well:

Western Wireline

No.	Depth	Length	Remaining Wall 0.000 0.500	in
101	4618.3	46.0		0.329
102	4664.3	47.0		0.372
103	4711.3	46.2		0.370
104	4757.5	46.6		0.371
105	4804.1	46.8		0.372
106	4850.9	46.3		0.376
107	4897.2	46.7		0.389
108	4943.8	46.8		0.374
109	4990.6	46.5		0.361
110	5037.1	45.1		0.373
111	5082.2	46.0		0.372
112	5128.2	45.2		0.372
113	5173.4	47.0		0.371
114	5220.4	44.9		0.382
115	5265.3	46.3		0.375
116	5311.6	46.3		0.365
117	5357.8	47.4		0.381
118	5405.2	46.9		0.372
119	5452.2	47.3		0.386
120	5499.4	46.4		0.369
121	5545.8	47.2		0.393
122	5593.0	45.9		0.386
123	5638.9	46.5		0.394
124	5685.4	47.4		0.383
125	5732.8	45.0		0.382

No.	Depth	Length	Remaining Wall 0.000 0.500	in
126	5777.8	44.3		0.376
127	5822.1	46.5		0.383
128	5868.6	45.8		0.385
129	5914.4	46.8		0.386
130	5961.1	47.1		0.368
131	6008.2	45.3		0.373
132	6053.5	46.5		0.376
133	6099.9	47.6		0.379
134	6147.5	47.4		0.374
135	6194.9	45.7		0.360
136	6240.7	47.3		0.395
137	6288.0	46.4		0.373
138	6334.4	43.6		0.365
139	6378.0	46.7		0.377
140	6424.7	47.4		0.355
141	6472.0	47.3		0.372
142	6519.3	47.0		0.361
143	6566.3	47.5		0.327
144	6613.8	47.3		0.376
145	6661.2	47.3		0.384
146	6708.5	47.1		0.372
147	6755.7	45.9		0.360
148	6801.6	46.9		0.338
149	6848.5	47.4		0.368
150	6895.9	47.4		0.381

Log Date:

Sheet: 3 of 4

Company:
Well:

Western Wireline

No.	Depth	Length	Remaining Wall 0.000 0.500	in
151	6943.2	47.4		0.375
152	6990.6	47.2		0.387
153	7037.8	46.7		0.373
154	7084.5	46.9		0.372
155	7131.4	46.8		0.373
156	7178.2	47.3		0.384
157	7225.5	47.3		0.392
158	7272.8	47.3		0.366
159	7320.1	47.3		0.375
160	7367.5	47.4		0.349
161	7414.8	45.1		0.366
162	7460.0	46.9		0.379
163	7506.9	0.0		0.000

No.	Depth	Length	Remaining Wall 0.000 0.500	in

Log Date:

Sheet: 4 of 4

Western Wireline

3D Hi Low Logging Section

5" =100'

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	3D
Presentation Format	xi56_3d
Dataset Creation	Sat Apr 02 18:46:19 2016
Charted by	Depth in Feet scaled 1:240

8.181	IDMXC (in)	9.181	Cross Section	IMGMAPC 7.737 9.625	IMGMAPC 7.737 9.625
8.181	IDMNC (in)	9.181			
8.181	IDAVC (in)	9.181			
0	LSPD (ft/min)	100			

8.181	IDMXC (in)	9.181
8.181	IDMNC (in)	9.181
8.181	IDAVC (in)	9.181
0	LSPD (ft/min)	100
0	RB (deg)	360
4	CASEOD (in)	10
8.181	CASEID (in)	9.181

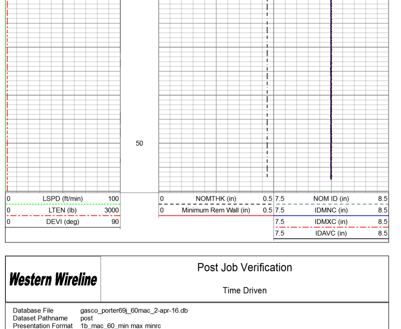
Western Wireline

Prejob Verification

Time Driven

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	prejob
Presentation Format	1b_mac_60_min max minrc
Dataset Creation	Sat Apr 02 16:12:45 2016
Charted by	Time scaled 360/hour

0	LSPD (ft/min)	100
0	LTEN (lb)	3000
0	DEVI (deg)	90
0	NOMTHK (in)	0.5
0	Minimum Rem Wall (in)	0.5
7.5	NOM ID (in)	8.5
7.5	IDMNC (in)	8.5
7.5	IDMXC (in)	8.5
7.5	IDAVC (in)	8.5



0	LSPD (ft/min)	100
0	LTEN (lb)	3000
0	DEVI (deg)	90
0	NOMTHK (in)	0.5
0	Minimum Rem Wall (in)	0.5
7.5	NOM ID (in)	8.5
7.5	IDMNC (in)	8.5
7.5	IDMXC (in)	8.5
7.5	IDAVC (in)	8.5

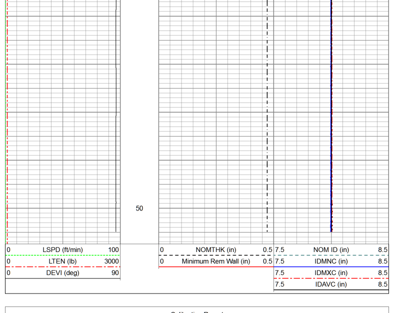
Western Wireline

Post Job Verification

Time Driven

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	post
Presentation Format	1b_mac_60_min max minrc
Dataset Creation	Sat Apr 02 16:16:35 2016
Charted by	Time scaled 360/hour

0	LSPD (ft/min)	100
0	LTEN (lb)	3000
0	DEVI (deg)	90
0	NOMTHK (in)	0.5
0	Minimum Rem Wall (in)	0.5
7.5	NOM ID (in)	8.5
7.5	IDMNC (in)	8.5
7.5	IDMXC (in)	8.5
7.5	IDAVC (in)	8.5



0	LSPD (ft/min)	100
0	LTEN (lb)	3000
0	DEVI (deg)	90
0	NOMTHK (in)	0.5
0	Minimum Rem Wall (in)	0.5
7.5	NOM ID (in)	8.5
7.5	IDMNC (in)	8.5
7.5	IDMXC (in)	8.5
7.5	IDAVC (in)	8.5

Calibration Report

Database File	gasco_porter69j_60mac_2-apr-16.db
Dataset Pathname	pass4
Dataset Creation	Sat Apr 02 11:40:19 2016

60 Arm Multi Sensor Caliper Calibration Report

Serial Number:	111249
Tool Model:	60_INCL
Performed:	Sat Apr 02 10:40:05 2016

Ref ID	5.00	6.00	7.00	8.00	9.00	in
Arm1	2.46	2.96	3.46	3.97	4.46	
Arm2	2.66	3.15	3.65	4.16	4.66	
Arm3	2.57	3.09	3.61	4.13	4.61	
Arm4	2.49	2.99	3.50	4.01	4.51	
Arm5	2.46	2.96	3.56	3.96	4.39	
Arm6	2.60	3.10	3.60	4.11	4.57	
Arm7	2.66	3.15	3.65	4.16	4.66	
Arm8	2.66	3.13	3.66	4.07	4.54	
Arm9	2.21	2.70	3.20	3.70	4.19	
Arm10	2.59	3.17	3.67	4.16	4.66	
Arm11	2.51	3.05	3.55	4.06	4.56	
Arm12	2.59	3.09	3.59	4.09	4.59	
Arm13	2.62	3.11	3.62	4.12	4.62	
Arm14	2.22	2.72	3.21	3.73	4.24	
Arm15	2.59	3.09	3.59	4.09	4.59	
Arm16	2.24	2.73	3.23	3.73	4.23	
Arm17	2.45	2.93	3.42	3.91	4.40	
Arm18	2.59	3.09	3.59	4.09	4.59	
Arm19	2.20	2.68	3.17	3.67	4.19	
Arm20	2.45	2.95	3.45	3.95	4.45	
Arm21	2.43	2.91	3.39	3.88	4.36	
Arm22	2.62	3.12	3.61	4.11	4.59	
Arm23	2.56	3.06	3.56	3.85	4.39	
Arm24	2.63	3.13	3.65	4.13	4.65	
Arm25	2.69	3.19	3.69	4.18	4.67	
Arm26	2.41	2.91	3.41	3.91	4.42	
Arm27	2.41	2.91	3.41	3.92	4.42	
Arm28	2.56	3.11	3.63	4.34	4.83	
Arm29	2.25	2.75	3.26	3.75	4.27	
Arm30	2.63	3.13	3.62	4.13	4.61	

* Bad

Ref ID	5.00	6.00	7.00	8.00	9.00	in
Arm31	2.71	3.19	3.68	4.16	4.64	
Arm32	2.81	3.31	3.79	4.27	4.75	
Arm33	2.69	3.16	3.63	4.11	4.59	
Arm34	2.73	3.21	3.69	4.16	4.64	
Arm35	2.73	3.22	3.72	4.22	4.11	
Arm36	2.52	3.39	3.85	4.31	4.75	
Arm37	2.75	3.23	3.70	4.18	4.69	
Arm38	2.69	3.17	3.64	4.12	4.14	
Arm39	2.69	3.17	3.74	4.22	4.70	
Arm40	2.44	2.92	3.42	3.92	4.42	
Arm41	2.71	3.21	3.69	4.19	4.68	
Arm42	2.69	3.17	3.64	4.12	4.61	
Arm43	2.70	3.18	3.66	4.17	4.63	
Arm44	2.40	2.99	3.50	4.03	4.53	
Arm45	2.69	3.19	3.69	4.19	4.69	
Arm46	2.58	3.10	3.63	4.17	4.68	
Arm47	2.64	3.14	3.63	4.14	4.62	
Arm48	2.78	3.26	3.73	4.22	4.69	
Arm49	2.69	3.17	3.65	4.13	4.61	
Arm50	2.57	3.15	3.63	4.12	4.62	
Arm51	2.49	2.98	3.48	4.00	4.49	
Arm52	2.55	3.05	3.54	4.05	4.53	
Arm53	2.69	3.17	3.65	4.13	4.62	
Arm54	2.70	3.17	3.65	4.15	4.62	
Arm55	2.48	2.99	3.51	4.05	4.54	
Arm56	2.69	3.19	3.69	4.19	4.69	
Arm57	2.60	3.10	3.60	4.10	4.56	
Arm58	2.30	2.79	3.29	3.80	4.30	
Arm59	2.21	2.69	3.20	3.70	4.23	
Arm60	2.65	3.14	3.64	4.15	4.64	

* Bad

PROBE verifications Calibration Report

Performed	Pre Verification: Sat Apr 02 10:37:40 2016	Post Verification: Thu Mar 31 11:39:31 2016	Casing Check
Ref ID	8.00	8.00	in
Min	7.98	7.97	0.00
Max	8.00	8.01	0.00
Avg	7.99	7.99	0.00
Dat1	7.99	8.00	0.00
Dat2	7.99	8.00	0.00
Dat3	7.99	8.00	0.00
Dat4	7.99	7.99	0.00
Dat5	7.98	7.99	0.00
Dat6	7.98	7.99	0.00
Dat7	7.99	7.99	0.00
Dat8	7.98	7.99	0.00
Dat9	7.98	8.00	0.00
Dat10	8.00	8.01	0.00
Dat11	7.99	7.98	0.00
Dat12	7.99	8.00	0.00
Dat13	7.99	8.00	0.00
Dat14	7.99	7.99	0.00
Dat15	7.99	7.99	0.00
Dat16	7.98	7.98	0.00
Dat17	7.99	8.00	0.00
Dat18	7.99	7.99	0.00
Dat19	7.99	7.98	0.00
Dat20	7.99	7.98	0.00
Dat21	7.98	7.97	0.00
Dat22	7.99	7.98	0.00
Dat23	7.99	7.99	0.00
Dat24	7.99	7.99	0.00
Dat25	7.99	7.99	0.00
Dat26	7.99	7.99	0.00
Dat27	7.99	7.98	0.00
Dat28	7.98	7.99	0.00
Dat29	7.99	7.99	0.00
Dat30	7.99	8.01	0.00

Inclinometer Calibration Report

Performed	(Not Performed)				
	Low Read	High Read	Low Ref	High Ref	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-ETNDHD Standard Cable Head	1.00	1.44	5.00
			CENT-2_75OSB 1st Bottom Centralizer	2.69	2.75	20.00
ACCZ ACCY ACCX	7.69 7.69 7.69		Probe_MFCAL-60_INCL (111249) Probe 60 Arm Caliper	9.00	3.62	
ETEMP	5.19					
Meas	4.35					
			CENT-2_75OSB 1st Bottom Centralizer	2.69	2.75	20.00

Dataset: gasco_portertbl_60max_2-apr-16.db: fieldwellrun1pass4
Total length: 15.38 ft
Total weight: 43.00 lb
O.D.: 3.62 in

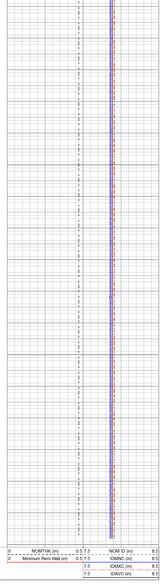
8 5/8 Surface Check

Time Driven

Database File: gasco_portertbl_60max_2-apr-16.db
Dataset Pathname: 5 GZI
Presentation Format: 1b_mac_60_min max mmc
Dataset Creation: Sat Apr 02 10:37:20 2016
Charted by: Time scaled 300ft/hour

0	LSPD (ft/min)	100	0	NOMTHK (in)	0.5 7.5
0	LTEN (lb)	3000	0	Minimum Rem Wall (in)	0.5 7.5
0	DEVI (deg)	90			7.5

0	NOMID (in)	8.5			
7.5	IDMIC (in)	8.5			
7.5	IDAVC (in)	8.5			



9 5/8 Surface Check

Time Driven

Database File: gasco_portertbl_60max_2-apr-16.db
Dataset Pathname: 5 GZI
Presentation Format: 1b_mac_60_min max mmc
Dataset Creation: Sat Apr 02 10:18:14 2016
Charted by: Time scaled 300ft/hour

0	LSPD (ft/min)	100	0	NOMTHK (in)	0.5 8.181
0	LTEN (lb)	3000	0	Minimum Rem Wall (in)	0.5 8.181
0	DEVI (deg)	90			8.181

0	NOMID (in)	9.181			
8.181	IDMIC (in)	9.181			
8.181	IDAVC (in)	9.181			

Company	So Cal Gas
Well	Porter 60 2
Field	Aliso Canyon
County	Los Angeles
State	Ca
Country	U.S.A.