Western Wireline

60 Arm Multifinger Caliper Log

Company	Southern California Gas Company
Well	Porter 26C
Field	Aliso Canyon
County	Los Angeles
State	California
Country	U.S.A.

Company: Southern California Gas Company
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Location: API #: 037-21353-02
SEC 28 TWP 3N RGE 16W

Other Services

Permanent Datum	2505'	Elevation 2505'	Elevation
Log Measured From	12' K.B.		K.B. 12'
Drilling Measured From	12' K.B.		D.F. 2517'
			G.L. 2505'

Date	9-July-2016
Run Number	One
Depth Driller	7873'
Depth Logger	7873'
Bottom Logged Interval	
Top Log Interval	Surface
Open Hole Size	
Type Fluid	H2O
Density / Viscosity	8.5# Lb/Gal
Max. Recorded Temp.	
Estimated Cement Top	
Time Well Ready	7:00 a.m.
Time Logger on Bottom	9:30 a.m.
Equipment Number	208
Location	
Recorded By	Kai Haughton
Witnessed By	Ben Kohner

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13.375"	48#	0'	801'
Prot. String	8.625"	36#	0'	7574'
Production String	7"	26#	4968'	7950'
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 is to Log 60mac in 8.625" and 7" casing for inspection.
Used a K.B. of 12' as per program. Tied into 2009 USIT log Between 4964'-4712'
Added 1' to put on depth .Found Liner Top @4963'
8.625" 40# casing time drive was logged at surface as per client request for log QC purposes

Log Variables

Databasec:\programdata\warrior\data\southerncaliforniagascompanyporter26c_60mac_7-9-2016.db
Dataset field/well/run1/pass3/_vars_

Top - 4968.00 ft

BOREID	BOTTEMP	CASEID	CASEOD	CASETHCK	MinAPIWall	PERFS	RM_MEAS_R
in	degF	in	in	in	in		Ohm-m
13.625	100	7.825	8.625	0.4	0.35	0	0.1

RM_MEAS_T	SRFTEMP	TDEPTH
degF	degF	ft
75	75	0

4968.00 ft - Bottom

CASEID	CASEOD	CASETHCK	MinAPIWall
in	in	in	in
6.276	7	0.362	0.317

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

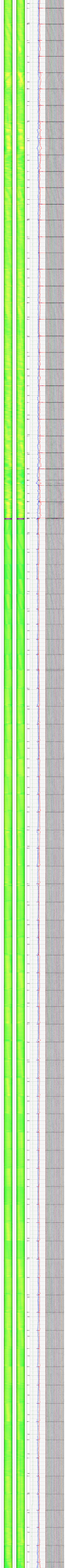
Western Wireline

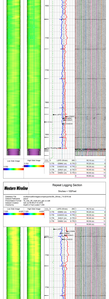
60 MAC Main Logging Section

5Inches = 100Feet

Database File	southerncaliforniagascompanyporter26c_60mac_7-9-2016.db
Dataset Pathname	mergedepth
Presentation Format	1b_mac_60_mu
Dataset Creation	Tue Jul 12 10:43:36 2016
Charted by	Depth in Feet scaled 1:240

Low Side Image	High Side Image	CCL	Curves	RC
7.025 – 8.625	7.025 – 8.625		0 LSPD (ft/min) 200	1 RC10 (in) 7
			7.325 IDMNC (in) 8.325	2 RC20 (in) 8
			7.325 CASEID (in) 8.325	3 RC30 (in) 9
			7.325 IDAVC (in) 8.325	4 RC40 (in) 10
			7.325 IDMXC (in) 8.325	5 RC50 (in) 11
				6 RC60 (in) 12



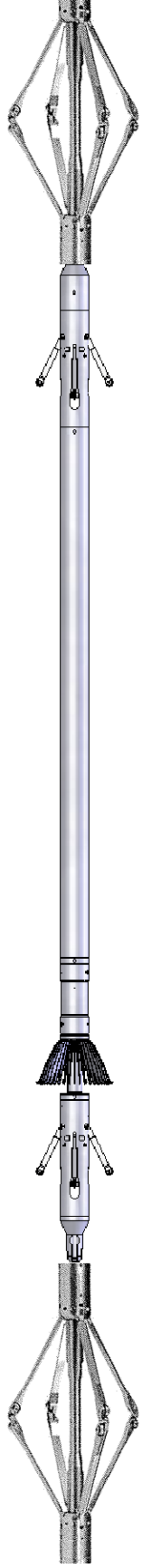


Repeat Logging Section

Section / Vertical

Weatherford

Operator: Petrobras
Well: 7-BRSA-1-RJS
Field: Tupi
Location: Santos Basin, Brazil
Date: 2009-07-20
Time: 08:00 - 20:00
Depth Reference: Rotary Table
Elevation: 0.00 m
Log Date: 2009-07-20
Log Time: 08:00 - 20:00
Log Depth: 5,000 - 5,500 m
Log Speed: 18 m/min
Log Interval: 0.1 m
Log Type: Repeat Logging Section
Tool Type: Caliper, Gamma Ray
Tool Serial: 0
Tool Length: 0.00 m
Tool Offset: 0.00 m
Tool Position: Centered
Tool Speed: 0 m/min
Tool Temperature: 0 °C
Tool Pressure: 0 bar
Tool Status: Normal
Tool Error: None
Tool Calibration: Factory
Tool Calibration Date: 2009-07-20
Tool Calibration Time: 08:00
Tool Calibration Temperature: 0 °C
Tool Calibration Pressure: 0 bar
Tool Calibration Status: Normal
Tool Calibration Error: None
Tool Calibration Type: Factory
Tool Calibration Serial: 0
Tool Calibration Length: 0.00 m
Tool Calibration Offset: 0.00 m
Tool Calibration Position: Centered
Tool Calibration Speed: 0 m/min



		CENT-2_75GSB GS Bottom Centralizer	2.69	2.75	20.00
ACCZ	7.69				
ACCY	7.69	Probe_MFCAL-60_INCL (111249) Probe 60 Arm Caliper	9.00	3.62	
ACCX	7.69				
ETEMP	5.19				
Meas	4.35				
		CENT-2_75GSB GS Bottom Centralizer	2.69	2.75	20.00

Dataset: southerncaliforniagascompanyporter26c_60mac_7-9-2016.db: field/well/run1/pass3
Total length: 15.38 ft
Total weight: 45.00 lb
O.D.: 3.62 in

Western Wireline

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Field	Aliso Canyon
County	Los Angeles
State	California
Country	U.S.A.