

PACIFIC SURVEYS

CALIPER BOREHOLE VOLUME

Job No. 15100
 Company U.S. GEOLOGICAL SURVEY
 Well SDCC
 Field CHULA VISTA
 County SAN DIEGO State CA

Location: SAN DIEGO COUNTRY CLUB
 GPS: N32°37.000' W117°03.572'
 Sec. Twp. Rge.

Permanent Datum G.L.
 Log Measured From G.L. 0'
 Drilling Measured From G.L.
 Other Services: ELOG GR/L3 SONIC/VDL
 Elevation K.B. D.F. G.L.

Date	2/22/2010		
Run Number	ONE		
Depth Driller	1720'		
Depth Logger	1725'		
Bottom Logged Interval	1725'		
Top Log Interval	0'		
Casing Driller	N/A		
Casing Logger	N/A		
Bit Size	8 3/4" @ 0-1040'	8 1/2" @ 1040'-1700'	6 " @ 1700'-1725'
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	4.6 @ 77F		
Rmf @ Meas. Temp	5.1 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:15 PM		
Max. Recorded Temperature	N/A		
Equipment Number	PS-1		
Location	L.A.		
Recorded By	ABREAU/NELSON		
Witnessed By	A. BROWN		

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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

Calibration Report

Database File: 15100.db
 Dataset Pathname: CAL.1
 Dataset Creation: Mon Feb 22 23:46:02 2010 by Calc Open-Cased 090629

Temperature Calibration Report

Serial Number: GRPH_SHORT
 Tool Model: GRPH_CAL
 Performed: Wed Dec 09 10:44:45 2009

	Reference	Reading
Low Reference:	4.00 degF	973.65 cps
High Reference:	7.00 degF	1529.02cps
Gain:	0.01	
Offset:	-1.46	
Delta Spacing	1	

XY Caliper Calibration Report

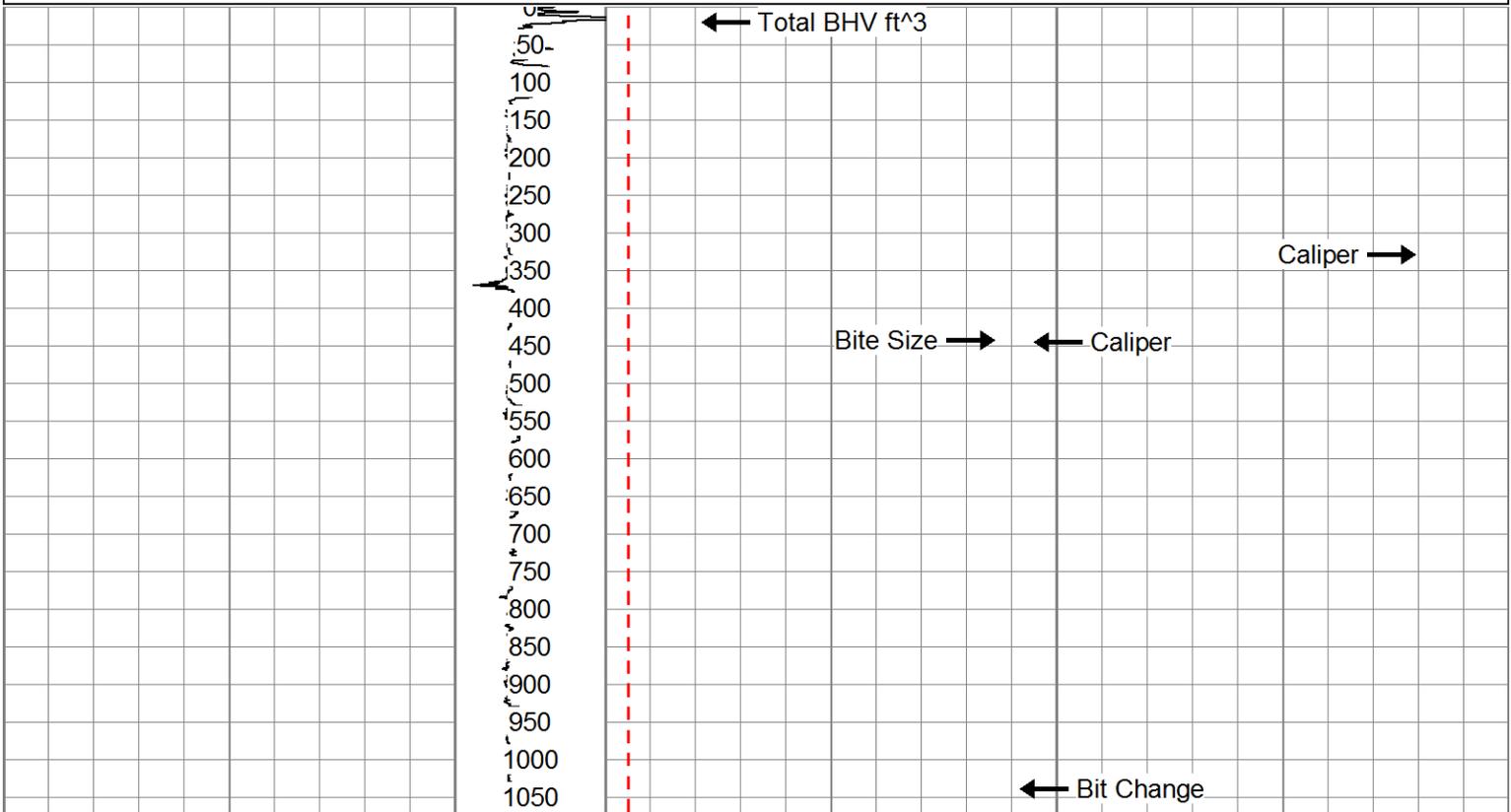
Serial Number: Short
 Tool Model: Comprobe
 Performed: Wed Dec 09 10:45:29 2009

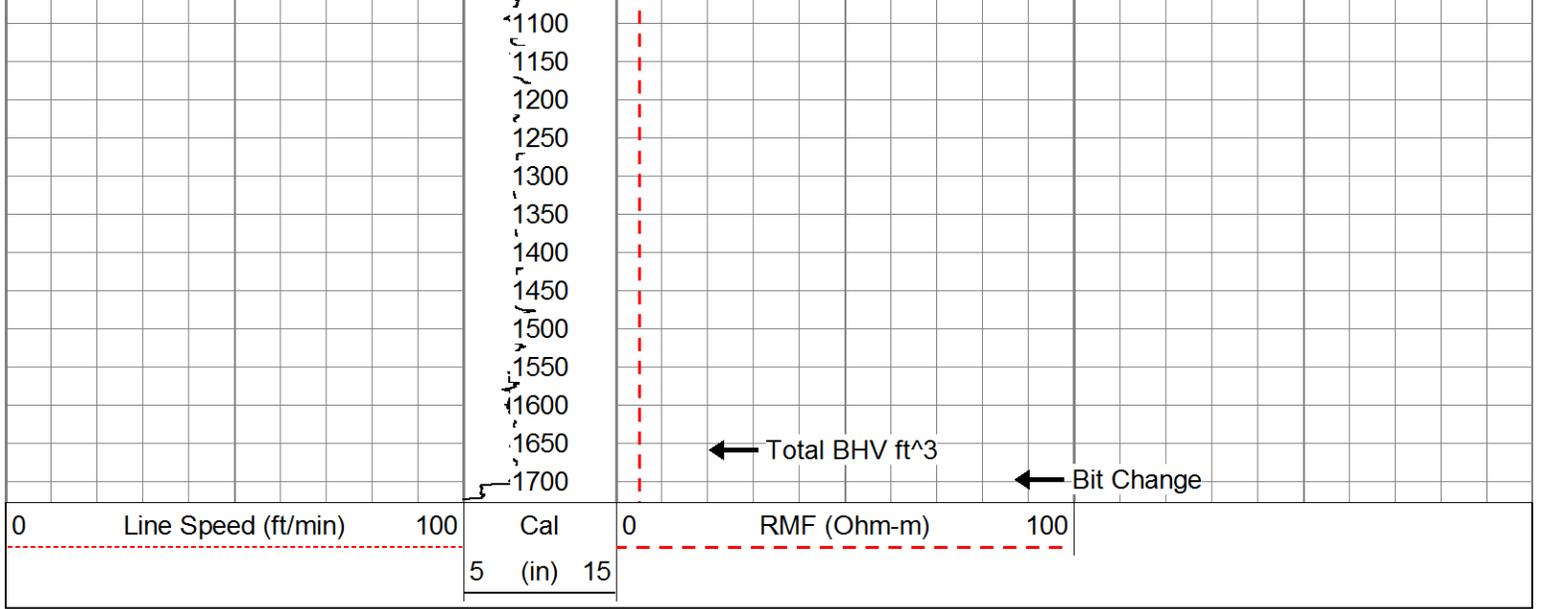
Small Ring: 8 in
 Large Ring: 14 in

	X Caliper	Y Caliper	
Reading with Small Ring:	973.65	973.65	cps
Reading with Large Ring:	1529.02	1529.02	cps
Gain:	0.0108036	0.0108036	
Offset:	-1.41893	-1.41893	

Database File: 15100.db
 Dataset Pathname: CAL.1
 Presentation Format: elog
 Dataset Creation: Mon Feb 22 23:46:02 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:3000

0	Line Speed (ft/min)	100	Cal	0	RMF (Ohm-m)	100
			5 (in) 15			





Cal
5 (in) 15