PACIFIC SURVEYS

ELECTRIC LOG
LATEROLOG 3
GAMMA RAY

Job No.
15538

File No.

Company U.S. GEOLOGICAL SURVEY
Well SDSY
Field SAN DIEGO
County SAN DIEGO State CA

Location:

GPS:N33o05.240' W116o58.492'

Sec. Twp. Rge.

Other Services:

GR/LL3
SONIC/VDL
CALIPER

Permanent Datum	G.L.	Elevation above perm. datum	Elevation
Log Measured From	G.L. 0'		K.B.
Drilling Measured From	G.L.		D.F.
			G.L.

Date	10/16/2010		
Run Number	ONE		
Depth Driller	350'		
Depth Logger	350'		
Bottom Logged Interval	350'		
Top Log Interval	30'		
Casing Driller	N/A		
Casing Logger	N/A		
Bit Size	7.875"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	4.8 @ 77F		
Rmf @ Meas. Temp	5.3 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEASURE		
Rm @ BHT	N/A		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	7:30 PM		
Max. Recorded Temperature	N/A		
Equipment Number	PS-1		
Location	L.A.		
Recorded By	ABREAU		
Witnessed By			

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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: 15538.db
Dataset Pathname: elog
Dataset Creation: Sat Oct 16 19:30:16 2010 by Log Open-Cased 090629

ELOG Calibration Report

Serial:	D1
Model:	DTQ
Shop Calibration Performed:	Wed Apr 14 08:31:16 2010
Before Survey Verification Performed:	Wed Jul 28 14:39:06 2010
After Survey Verification Performed:	Tue Nov 20 10:45:24 2001

Shop Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	10.542	102.356		10.200	102.200	Ohm-m	1.002	-0.363
Long	12.899	101.908		10.200	102.200	Ohm-m	1.034	-17.132
IEE	220.700	7403.940	counts	0.242	8.103	A		
VSN	109.100	8420.260	counts	2.081	160.606	V		
VLN	71.300	2136.020	counts	1.360	40.742	V		

Before Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	23.831	101.318		43.999	101.225	Ohm-m	0.739	26.400
Long	114.753	102.199		102.713	102.713	Ohm-m	0.980	2.529
IEE	218.420	7514.180	counts	0.239	8.224	A		
VSN	58.480	8553.520	counts	1.115	163.148	V		
VLN	70.400	2156.980	counts	1.343	41.142	V		

After Survey Verification

	Readings			References			Results	
	Zero	Cal		Zero	Cal		Gain	Offset
Short	0.000	99.861		0.000	99.853	Ohm-m	1.000	0.000
Long	0.000	102.069		102.055	102.055	Ohm-m	1.000	0.000
IEE	129.370	6528.851	counts	0.142	7.145	A		
VSN	142.833	7325.000	counts	2.724	139.715	V		
VLN	114.778	1871.738	counts	2.189	35.701	V		

After Survey Verification compared to Before Survey Calibration

	Zero			Cal		
	Before	After		Before	After	
Short	43.999	0.000	Ohm-m	101.225	99.853	Ohm-m
Long	115.019	0.000	Ohm-m	102.713	102.055	Ohm-m

Gamma Ray Calibration Report

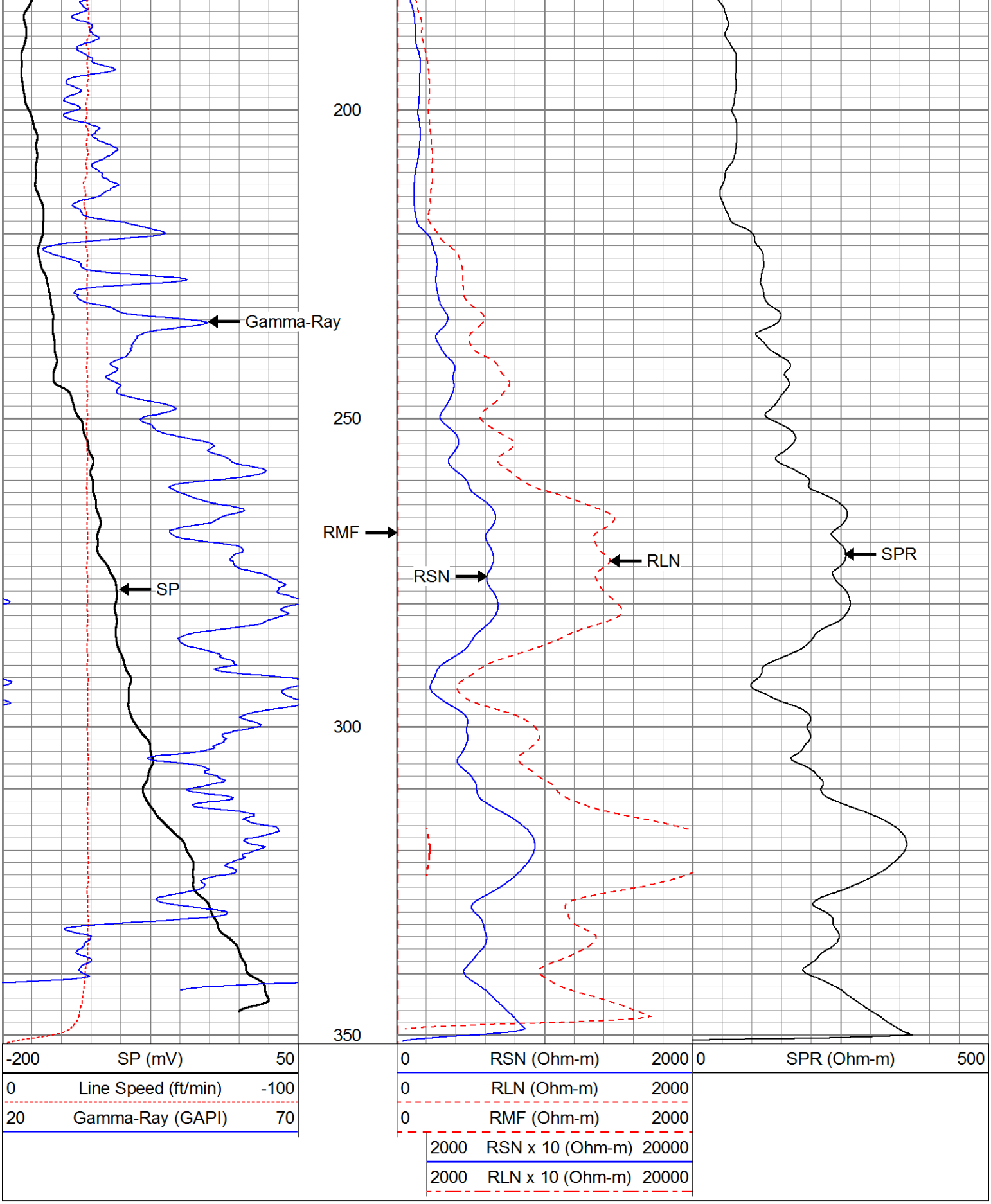
Serial Number:	D4	
Tool Model:	ELOG	
Performed:	Sat Jun 26 17:33:07 2010	
Calibrator Value:	162.0	GAPI
Background Reading:	172.5	cps
Calibrator Reading:	717.9	cps
Sensitivity:	0.2970	GAPI/cps

Database File: 15538.db
Dataset Pathname: elog
Presentation Format: elog
Dataset Creation: Sat Oct 16 19:30:16 2010 by Log Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

-200	SP (mV)	50
0	Line Speed (ft/min)	-100
20	Gamma-Ray (GAPI)	70

0	RSN (Ohm-m)	2000
0	RLN (Ohm-m)	2000
0	RMF (Ohm-m)	2000
2000	RSN x 10 (Ohm-m)	20000
2000	RLN x 10 (Ohm-m)	20000

0	SPR (Ohm-m)	500


200
250
300
350
Gamma-Ray
SP
RMF
RSN
RLN
SPR
-200 SP (mV) 50
0 Line Speed (ft/min) -100
20 Gamma-Ray (GAPI) 70
0 RSN (Ohm-m) 2000
0 RLN (Ohm-m) 2000
0 RMF (Ohm-m) 2000
2000 RSN x 10 (Ohm-m) 20000
2000 RLN x 10 (Ohm-m) 20000
0 SPR (Ohm-m) 500