PACIFIC SURVEYS

ELECTRIC LOG
LATEROLOG 3
GAMMA RAY

Job No.
13188

Company WATER DEVELOPMENT CORP.
Well MW-24
Field WHITTIER
County LOS ANGELES State CA

Location:
WASHINGTON & LAMBERT
HOME DEPOT PARKING LOT
Sec. Twp. Rge.

Other Services:
GR/LL3
CALIPER

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

Date	6-4-2007		
Run Number	ONE		
Depth Driller	200'		
Depth Logger	200'		
Bottom Logged Interval	200'		
Top Log Interval	20'		
Casing Driller	20'		
Casing Logger	20'		
Bit Size	16"		
Type Fluid in Hole	BENTONITE		
Density / Viscosity	N/A		
pH / Fluid Loss	N/A		
Source of Sample	PIT		
Rm @ Meas. Temp	8.1 @ 77F		
Rmf @ Meas. Temp	8.9 @ 77F		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	MEAS		
Rm @ BHT	N/A		
Time Circulation Stopped	1 HOUR		
Time Logger on Bottom	9:20 AM		
Max. Recorded Temperature	N/A		
Equipment Number	PS-1		
Location	L.A.		
Recorded By	ABREAU		
Witnessed By	J. OCKERMAN		

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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

ELOG Calibration Report

Serial: D1
Model: DTQ

Shop Calibration Performed: Tue Apr 10 15:16:05 2007
Before Survey Verification Performed: Tue Apr 10 10:25:41 2007
After Survey Verification Performed: Tue Apr 10 10:29:37 2007

Shop Calibration

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	9.658	101.397		10.200	102.200	Ohm-m	1.003	0.514
Long	9.725	99.673		10.200	102.200	Ohm-m	1.023	-19.747
IEE	29.852	6297.139	counts	0.033	6.892	A		
VSN	92.639	7135.843	counts	1.767	136.107	V		
VLN	43.509	1781.565	counts	0.830	33.981	V		

Before Survey Verification

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	721.161	100.845		608.444	100.864	Ohm-m	0.818	18.347
Long	1267.030	100.391		100.770	100.770	Ohm-m	0.829	17.532
IEE	13.306	5487.682	counts	0.015	6.006	A		
VSN	107.806	6217.551	counts	2.056	118.592	V		
VLN	47.352	1547.393	counts	0.903	29.515	V		

After Survey Verification

	Readings Zero	Readings Cal		References Zero	References Cal		Results Gain	Results Offset
Short	643.636	100.848		721.161	100.845	Ohm-m	1.143	-14.408
Long	1116.370	100.421		100.391	100.391	Ohm-m	1.148	-14.925
IEE	14.748	5686.417	counts	0.016	6.223	A		
VSN	106.645	6443.833	counts	2.034	122.908	V		
VLN	46.243	1604.565	counts	0.882	30.605	V		

After Survey Verification compared to Before Survey Calibration

	Zero Before	Zero After		Cal Before	Cal After	
Short	608.444	721.161	Ohm-m	100.864	100.845	Ohm-m
Long	1068.080	1267.030	Ohm-m	100.770	100.391	Ohm-m

Gamma Ray Calibration Report

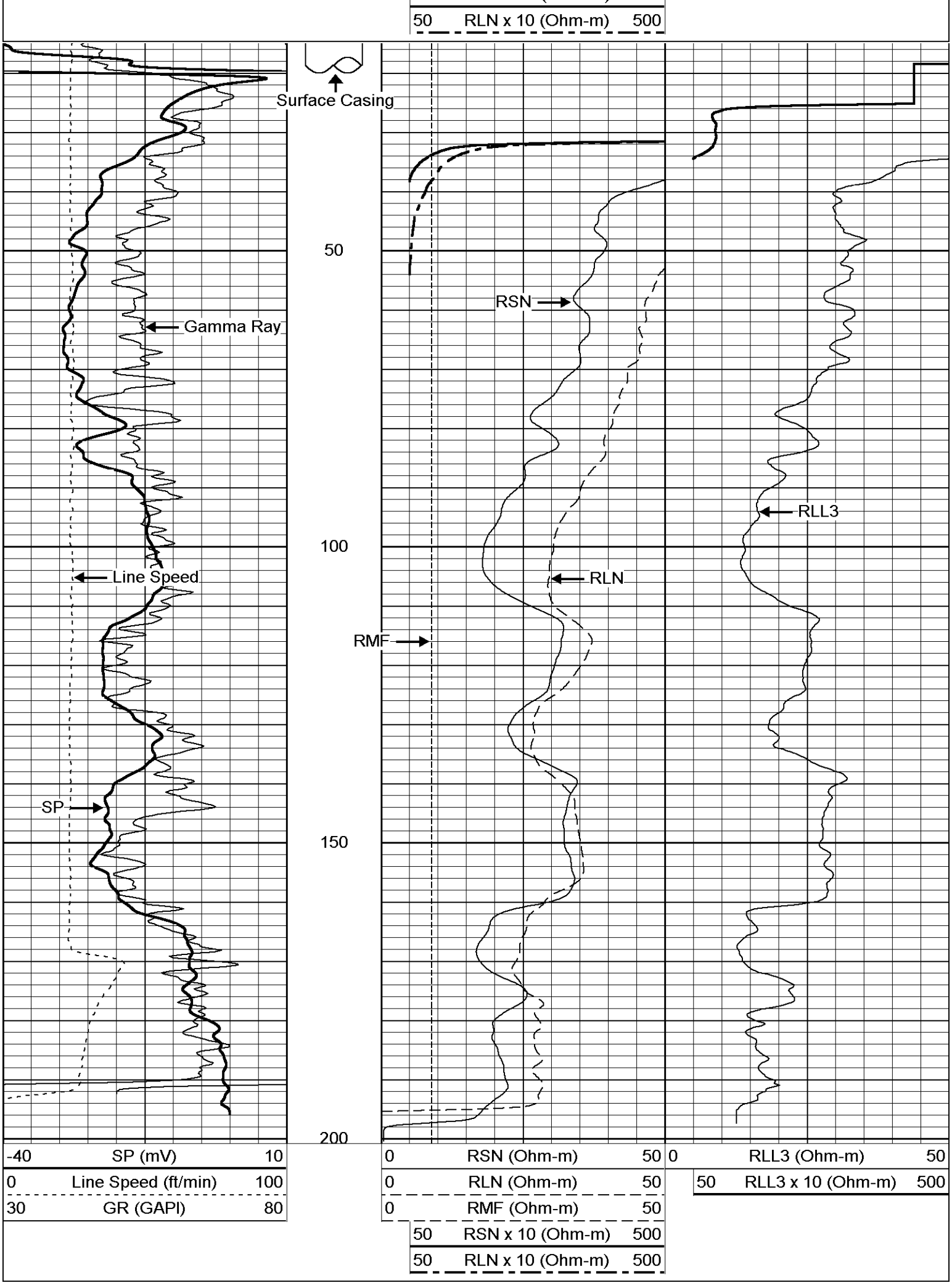
Serial Number:	D1	
Tool Model:	ELOG	
Performed:	Tue Feb 06 12:37:44 2007	
Calibrator Value:	162	GAPI
Background Reading:	170.762	cps
Calibrator Reading:	684.717	cps
Sensitivity:	0.315203	GAPI/cps

Database File:	13188.db
Dataset Pathname:	WDC/MW-24/run1/ELOG
Presentation Format:	ELOG
Dataset Creation:	Mon Jun 04 09:29:46 2007 by Log Warrior Version 6.6
Charted by:	Depth in Feet scaled 1:240

-40	SP (mV)	10
0	Line Speed (ft/min)	100
30	GR (GAPI)	80

0	RSN (Ohm-m)	50
0	RLN (Ohm-m)	50
0	RMF (Ohm-m)	50
50	RSN x 10 (Ohm-m)	500

0	RLL3 (Ohm-m)	50
50	RLL3 x 10 (Ohm-m)	500


50 RLN x 10 (Ohm-m) 500
Surface Casing
50
100
150
200
Gamma Ray
Line Speed
SP
RSN
RLN
RMF
RLL3
-40 SP (mV) 10
0 Line Speed (ft/min) 100
30 GR (GAPI) 80
0 RSN (Ohm-m) 50
0 RLN (Ohm-m) 50
0 RMF (Ohm-m) 50
50 RSN x 10 (Ohm-m) 500
50 RLN x 10 (Ohm-m) 500
0 RLL3 (Ohm-m) 50
50 RLL3 x 10 (Ohm-m) 500