

APACHE CORPORATION

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Bits Summary Report

Legal Well Name: APACHE PARAMOUNT LAC MAUNOIR C-34
 Common Well Name: APACHE PARAMOUNT LAC MAUNOIR C-34
 Event Name: LAND-ORIG DRLG
 Contractor Name: AKITA DRILLING
 Rig Name:

Start: 12/31/2003
 Rig Release: 2/23/2004
 Rig Number: 51

Spud Date: 2/6/2004
 End: 2/23/2004

Bit No/ Run	Size (mm)	Make/ Type	IADC Code	Serial Number	TFA (mm?) JETS (mm)	TMD In/ Out (m)	Total Drilled (m)	Cum./ Tot Rot Hours	ROP	WOB Min/Max (kg)	RPM	Pump Press (kPa)	Pump Output (L/min)	deltaP Bit (kPa)	Nozzle Velocity (m/s)	HHP (kW/cm²)	API Cond. I/O D/L B/G O/R
1/ 1	444.50	HughS RC435	/	E80DJ	1,847.3 28.0/28.0/28.0// ////	/ 23.00	23.00										-- ---
Remarks:																	
2/ 2	311.15	HughS GT-20	/	6019004	1,847.3 28.0/28.0/28.0// ////	23.00/ 62.00	39.00	15.50 15.50	2.52	1,000/ 8,000	40 100	1,300	2,210.2	253	19.9	1.448	-- ---
Remarks:																	
1A/ 1	311.15	Hughes GTS20	/ 517	6019023	721.6 17.5/17.5/17.5// ////	62.00/ 288.00	226.00	51.25 66.75	4.41	3,000/ 10,000	35 43	7,000	1,270.8	513	29.4	1.686	7-3-BT-H 4-1-BT-PN
Remarks:																	
2A/ 2	311.15	Hughes GTS20	/ 517	6019005	721.6 17.5/17.5/17.5// ////	288.00/ 451.00	163.00	36.00 102.75	4.53	5,000/ 14,000	35 40	11,000	2,608.0	2,192	60.2	14.776	4-4-FC-H 5-1-FC-TD
Remarks:																	
1/ 1	215.90	BHI HCM404	/	7002042	760.1 12.7/12.7/12.7/12.7 12.7////	451.00/ 945.00	494.00	44.75 147.50	11.04	3,000/ 6,000	35 40	7,000	1,215.6	433	26.7	1.361	-- ---
Remarks:																	
2/ 1	215.90	Hughes GTX-G3	/	RR00215	//// ////	945.00/		147.50									-- ---
Remarks: CLEAN OUT-CIRC & COND HOLE AT 945m TD																	