Core Lab
PETROLEUM SERVICES

WATER ANALYSIS

008 - 9		1861	52136-2003-0125
CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER

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Para et al Fort Liard I-46 — WELL NAME — LOCATION (UWI) — KB ELEV (m): 543.0 — GR ELEV (m): 537.5

Fort Liard — FIELD OR AREA — Upper Mattson — POOL OR ZONE — Opsco Energy — SAMPLER

TEST TYPE AND NO. — TEST RECOVERY

Manifold — POINT OF SAMPLE — CORE LAB SAMPLE POINT ID

1616.0 - 1619.0 — TEST INTERVAL or PERFS (meters)

PUMPING — FLOWING — GAS LIFT — SWAB

WATER m³/d — OIL m³/d — GAS m³/d

SEPARATOR — RESERVOIR — OTHER — @ °C CONTAINER WHEN SAMPLED — @ °C CONTAINER WHEN RECEIVED — SEPARATOR — OTHER

Pressures, kPa (gauge) — Temperatures, °C

at 20:00 hrs					
2003 01 08	2003 01 16	2003 01 22	SB		@ °C
DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY

CATIONS

ION	mg/L	mg Fraction	meq/L
Na	216	0.0739	9.4
K	1,028	0.3517	26.3
Ca	29	0.0100	1.5
Mg	4.3	0.0015	0.4
Ba			
Sr			
Fe	N.D.		
Mn			

ANIONS

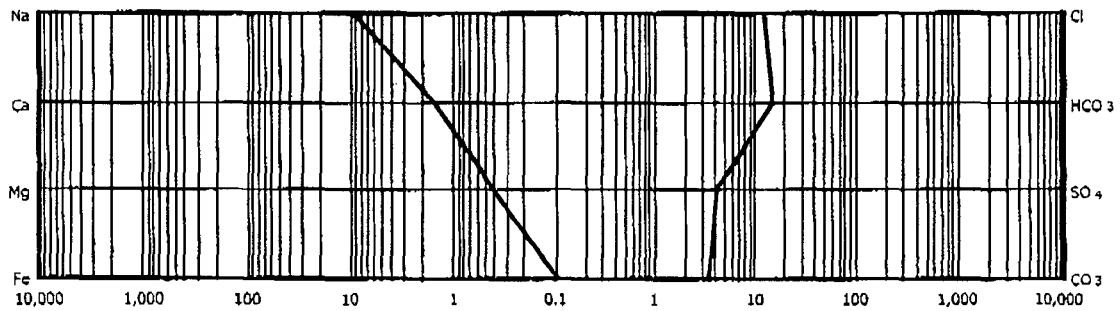
ION	mg/L	mg Fraction	meq/L
Cl	447	0.1528	12.6
Br			
I			
HCO_3	894	0.3057	14.6
SO_4	199	0.0681	4.1
CO_3	106	0.0363	3.5
OH	0.00	0.0000	0.0
H_2S	N.D.		

Total Dissolved Solids (mg/L)

By Evaporation @ 110 °C	By Evaporation @ 180 °C
At Ignition	2923 Calculated
1.0036 @ 15.6 °C Specific Gravity	1.3346 @ 19 °C Refractive Index
8.7 pH	2.710 @ 25 °C Resistivity (Ohm-Meters)

LOGARITHMIC PATTERNS OF DISSOLVED IONS

meq/L



REMARKS: N.D.- Not Detected.