Core Lab
PETROLEUM SERVICES

OIL ANALYSIS

CONTAINER IDENTITY	METER ID	WELL LICENSE NUMBER	LABORATORY FILE NUMBER
494 - 3		1861	52136-2003-0125

OPERATOR: Paramount Resources Ltd.
PAGE: 5

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

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

TEST TYPE AND NO.:
TEST RECOVERY:

POINT OF SAMPLE: Manifold
CORE LAB SAMPLE POINT ID:

TEST INTERVAL or PERFS (meters): 1616.0 - 1619.0

PUMPING | FLOWING | GAS LIFT | SWAB

WATER m³/d | OIL m³/d | GAS m³/d

Pressures, kPa (gauge): SEPARATOR | RESERVOIR | OTHER | CONTAINER WHEN SAMPLED @ °C | CONTAINER WHEN RECEIVED @ °C

Temperatures, °C: SEPARATOR | OTHER

at 09:00 hrs

DATE SAMPLED (Y/M/D)	DATE RECEIVED (Y/M/D)	DATE ANALYZED (Y/M/D)	ANALYST	AMT. AND TYPE CUSHION	MUD RESISTIVITY @ °C
2003 01 10	2003 01 16	2003 01 23	GN		

SAMPLE PROPERTIES

COLOR OF CLEAN OIL	WATER	BS	TOTAL BS & W
Yellow	0.000	0.000	0.000

ABSOLUTE DENSITY kg/m³ @15°C: AS RECEIVED | AFTER CLEANING 727.1

API GRAVITY @15.6°C: AS RECEIVED | AFTER CLEANING 63.0

SULPHUR N.D. grams/kg | SALT kg/m³

POUR POINT °C: -60 A.S.T.M.

REID VAPOUR PRESSURE: kPa

CARBON RESIDUE: CONRADSON | RAMSBOTTOM

VISCOSITY

TEMP °C	DYNAMIC mPa's	KINEMATIC mm²/s
20	0.462	0.639
30	0.418	0.585
40	0.380	0.539

FRACTION DISTILLED	TEMP °C
FBP	
CRACKED	

ASTM D-86 METHOD | BAROM PRESS kPa

ROOM TEMP °C | INITIAL BOIL PT °C

DISTILLATION SUMMARY

204 °C NAPHTHA | 274 °C KEROSENE

343 °C LIGHT GAS/OIL | RECOVERED

RESIDUE | DISTILLATION LOSS

REMARKS: Free water (volume %) = 40
Total Sulphur (Not Detected) = < 0.50 g/kg.
Pour Point Detection Limit = -60°C.