AGAT Laboratories

CALGARY — EDMONTON — GRANDE PRAIRIE

OIL ANALYSIS

CONTAINER IDENTIFICATION: PB 7

LABORATORY NUMBER: 017120C

OPERATOR NAME: PARAMOUNT RESOURCES LTD.

UNIQUE WELL IDENTIFIER:

WELL NAME: PARA et al CAMERON C75 60 10'N 117 15'W

ELEVATIONS KB m: 788.47 GRD m: 783.62

FIELD OR AREA: CAMERON

POOL OR ZONE: SULPHUR POINT

NAME OF SAMPLER:

COMPANY: SAME

TEST TYPE: DST NO: 2

TEST RECOVERY:

SAMPLING POINT: SURFACE

AMT & TYPE OF CUSHION:

MUD RESISTIVITY/ Ω m @25° C:

TEST INTERVAL OR PERFS: 1423.30-1439.00 mKB

	SEPARATOR	TREATER	RESERVOIR	SOURCE	SAMPLED	RECEIVED
GAUGE PRESSURE kPa						
TEMPERATURE ° C						

DATE SAMPLED (Y-M-D): 94-03-14

DATE RECEIVED (Y-M-D): 94-03-15

DATE REPORTED (Y-M-D): 94-03-18

ANALYST: A,C,S NCO

OTHER INFORMATION: DRILL PIPE 588m

SAMPLE PROPERTIES

B.S. & W. (VOLUME FRACTION)

COLOUR OF CLEAN OIL	WATER	SEDIMENT	TOTAL
DARK BROWN	0.060	0.006	0.066

COLOUR NUMBER ASTM D-155: D8 A.S.T.M.

DENSITY

RELATIVE		ABSOLUTE ρ/kg*m^{-3}	
AS RECEIVED	AFTER CLEANING	AS RECEIVED	AFTER CLEANING
	0.8618		861.0

API GRAVITY @ 15° C: 32.70

TOTAL SULPHUR (MASS FRACTION)	TOTAL SALT g*m^{-3}	POUR POINT / ° C U.S.B.M.	POUR POINT / ° C A.S.T.M.
0.00800			3

RVP/kPa	CARBON RESIDUE (MASS FRACTION) CONRADSON	CARBON RESIDUE (MASS FRACTION) RAMSBOTTOM

DISTILLATION

VOLUME FRACTION	TEMP. / °C
0.05	146.4
0.10	180.9
0.15	210.2
0.20	233.5
0.25	252.8
0.30	272.0
0.35	288.2
0.40	306.5
0.45	319.7
0.50	336.9
0.55	353.1
0.60	370.3
0.65	384.5
0.70	394.6
0.75	402.7
0.80	405.8
0.85	
0.90	
0.95	
1.00	
F.B.P	405.8
CRACKED	

METHOD: A.S.T.M.-D86*

INITIAL BOILING POINT: 100.8

ABS BAROM PRESS/kPa: 86.8

ROOM TEMP./°C: 22.0

DISTILLATION SUMMARY (VOLUME FRACTION)

200° C NAPHTHA	275° C KEROSENE	350° C LIGHT GAS OIL
0.14	0.32	0.55

RECOVERED	RESIDUE	DISTILLATION LOSS
0.82	0.16	0.02

CHARACTERIZATION FACTOR: 12.0

VISCOSITY

TEMP / °C	ABSOLUTE/mPa*s	KINEMATIC/mm^2*s^{-1}
25	9.51	11.13
38	6.25	7.38
50	4.47	5.33

REMARKS: * THE DISTILLATION TEMPERATURES HAVE BEEN CORRECTED TO 101.3 KPA(ABS).