

AGAT[®] Laboratories**GAS ANALYSIS**

CONTAINER IDENTIFICATION

AGAT 30545

LABORATORY NUMBER

GF34205F

OPERATOR NAME

PARAMOUNT RESOURCES LTD.

UNIQUE WELL IDENTIFIER

WELL NAME

KB m ELEVATIONS

GRD m

PARAMOUNT et al LIARD F-36

470.30

464.80

FIELD OR AREA

POOL OR ZONE

NAME OF SAMPLER

COMPANY

LIARD

MATTSON

BAKER

TEST TYPE

NO

TEST RECOVERY

DST

4

60 DEG. 5' 46" latitude 123 DEG. 22' 6" longitude

TEST INTERVAL OR PERFS

SAMPLING POINT

1559.7-1565.6

FLARE LINE

mKB

VALVE PRESSURE kPa

TEMPERATURE °C

SEPARATOR

TREATER

RESERVOIR

SOURCE

SAMPLED

RECEIVED

5000

21

DATE SAMPLED (Y-M-D)

DATE RECEIVED (Y-M-D)

DATE REPORTED (Y-M-D)

ANALYST

OTHER INFORMATION

98-12-28

99-01-05

99-01-11

PL

NCO

MIDDLE OF VALVE OPEN

COMP	MOLE FRACTION		PETROLEUM LIQUID CONTENT mg. + m. %
	AIR FREE AS RECEIVED	AIR FREE ACID GAS FREE	
H ₂	TRACE	TRACE	
H ₂	0.0001	0.0001	
N ₂	0.0025	0.0025	
CO ₂	0.0164	0.0000	
H ₂ S	0.0000	0.0000	
C ₁	0.9516	0.9676	
C ₂	0.0219	0.0222	
C ₃	0.0043	0.0044	15.8
iC ₄	0.0013	0.0013	5.5
nC ₄	0.0006	0.0006	2.4
iC ₅	0.0004	0.0004	1.7
nC ₅	0.0001	0.0001	0.6
C ₆	0.0004	0.0004	1.9
C ₇	0.0003	0.0003	1.9
C ₈	0.0001	0.0001	0.8
C ₉	0.0000	0.0000	0.0
C ₁₀₊	0.0000	0.0000	0.0
TOTAL	1.0000	1.0000	30.6

CROSS HEATING VALUE MJ/m³
15° C AND 101.325 kPaMOISTURE AND
ACID GAS FREE

38.90

AIR FREE
AS RECEIVED

38.26

VAPOUR PRESSURE
PENTANES PLUS

63.0

kPa

RELATIVE DENSITY

MOISTURE FREE AS SAMPLED

MEASURED

CALCULATED

0.591

MOISTURE AND ACID GAS FREE

MEASURED

CALCULATED

0.576

PSEUDO CRITICAL PROPERTIES (CALCULATED)

AS SAMPLED

ACID GAS FREE

dP₀ (kPa)

4647 kPa

dP₀

196.3 k

dP₀ (kPa)

4602 kPa

dP₀

194.5 k

RELATIVE MOLECULAR MASS

TOTAL GAS

C₇₊

17.1

103.9

H₂S (gm)

0.00

REMARKS:

DST: 4 BHS: no # OP: 1300 psi
 RECOVERY: HP gas from (BHS), HP gas (FROM BHS)