ERCB Energy Resources Conservation Board

GAS VOLUMES AT 101.325 kPa AND 15°C

DATE SUBMITTED YR/MO/DAY

SUBMITTED BY

FIELD

POOL

ZONE

TOP OF PAY K.B. S.L. POOL MEAN K.B.

TYPE WELL (LOCATION) W

BASE OF GAS PAY K.B. S.L. FORMATION DEPTH S.L.

TYPE OF RESERVE
☐ ASSOCIATED
☐ NONASSOCIATED
☐ SOLUTION

AVERAGE POROSITY SOURCE

CUTOFFS POROSITY SOURCE

PERMEABILITY mD

GAS SATURATION (Sg) = 1 - (S_W + S_O)

S_W SOURCE

S_O SOURCE

INITIAL RESERVOIR PRESSURE, P_i SOURCE

RESERVOIR TEMPERATURE SOURCE

Z P_r SOURCE

T_r

GAS ANALYSIS P_c, kPa Tc, K

P_c', kPa Tc', K

RELATIVE DENSITY SOURCE

RESERVOIR CONSTANT $(m^3/m^3) = Ø \times Sg \times \frac{Pi}{101.325} \times \frac{288.15}{T} \times \frac{1}{Z}$

RECOVERY FACTOR SOURCE

SURFACE LOSS FACTOR SOURCE

RAW GAS COMPOSITION IN MOLE FRACTIONS

N_2	CO_2	H_2S	H_2	H_e	C_1	C_2	C_3	iC_4	nC_4

C_5	C_6	C_7+

SOURCE

GROSS HEATING VALUE OF MARKETABLE GAS, MJ/m^3

SOURCE

STOIP, $10^3m^3 = 10AhØ(1-Sw)\frac{1}{B_{oi}}$

GOR SOURCE

$1/B_{oi}$ SOURCE

STOIP = STOCK TANK OIL IN PLACE

GOR = INITIAL DISSOLVED GAS-OIL RATIO

ADDITIONAL COMMENTS

RESERVE ESTIMATE - INITIAL CONDITIONS

	PROVEN	PROBABLE
G/W, metres SL		
G/O, metres SL		
AREA, hectares		
h, metres		
ROCK VOLUME, 10^4m^3		
Ø, fraction		
GAS SAT, fraction		
P_i, k Pa		
T, K		
Z		
RESERVOIR CONSTANT, m^3/m^3		
IGIP, 10^6m^3		
RECOVERY FACTOR, fraction		
PRODUCIBLE, 10^6m^3		
SURFACE LOSS FACTOR, fraction		
MARKETABLE, 10^6m^3		
INITIAL ESTABLISHED MARKETABLE, 10^6m^3		
MARKETABLE GAS PRODUCED, 10^6m^3		
REMAINING ESTABLISHED MARKETABLE, 10^6m^3		
REMAINING ESTABLISHED MARKETABLE UNDER CONTRACT, 10^6m^3		
EFFECTIVE DATE, YR/MO/DAY		

SOLUTION GAS

STOIP, 10^3m^3	
GOR, m^3/m^3	
GIP, 10^6m^3	
RECOVERY FACTOR, fraction	
PRODUCIBLE, 10^6m^3	
SURFACE LOSS FACTOR, fraction	
MARKETABLE, 10^6m^3	
MARKETABLE GAS PRODUCED, 10^6m^3	
REMAINING ESTABLISHED MARKETABLE, 10^6m^3	
EFFECTIVE DATE YR/MO/DAY	

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