

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw)

C-122D

DATE: 05/02/2002

COMPANY Fasken Oil and Ranch, Ltd. LEASE Cameron "31" Federal WELL NO. 2

LOCATION: Unit H Section 31 Township 20S Range 25E

L 9356 H 9354 L / H 1.000214 G 0.591 %CO2 0.41 %N2 0.87 %H2S 0

d 1.995 Fr 0.018231 GH 5528.214 Pcr 673 Tcr 351

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	0.312				
2 Tw(W.H.DegR)	540				
3 Ts(B.H.DegR)	628				
4 T = (Tw+Ts) / 2	584				
5 Z (Est.)	0.985				
6 TZ	575.2				
7 GH / TZ	9.610				
8 e^s(Table XIV)	1.434				
9 1-e^s(Table XIV)	0.303				
10 Pt	68.2				
11 Pt ² / 1000	4.7				
12 Fr (Table XV)	0.018231				
13 Fc = FrTZ	10.487				
14 FcQm	3.272				
15 L / H(FcQm) ²	10.708				
16 Fw = L / H(FcQm) ² (1-e^s)	3.240				
17 Pw ² = Pt ² +Fw	7.9				
18 Ps ² = e^sPw ²	11.3				
19 Ps	106.4				
20 P = (Pt+Ps) / 2	87.3				
21 Pr = (P / Pcr)	0.130				
22 Tr = (T / Tcr)	1.664				
23 Z (Table XI)	0.985				