

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

Form 2-1-65
Adopted 9-1-65

COMPANY MERIDIAN OIL LEASE S.R. COOPER "H" WELL NO. 1 DATE 5-25-93

LOCATION: Unit _____ Section 123 Township 24 Range 36

L 2650 H 2650 L/H 1.000 G .723 % CO₂ .18 % N₂ 21.6 % H₂S _____

d 2.441 F_i .010763 GH 1944.87

P_{cr} 632 T_{cr} 340

LINE	1st	2nd	1st	2nd	1st	2nd	1st	2nd
1 Q _m	1.195	1.195	1.431	1.431	1.755	1.755	1.755	1.755
2 T _w (W.H. °R)	534	534	534	534	534	534	534	534
3 T _g (B.H. °R)	555	555	555	555	555	555	555	555
4 T = $(\frac{L_w + 1}{2})$	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
5 Z (Est.)	.890	.890	.899	.896	.923	.921	.939	.940
6 T _Z	484.6	482.9	485.5	487.9	502.5	521.5	511.3	511.8
7 GH/T _Z	4.013	4.026	3.973	3.986	3.869	3.898	3.803	3.799
8 e ⁵ (Table XIV)	1.162	1.163	1.160	1.161	1.157	1.156	1.153	1.153
9 1-e ⁵ (Table XIV)	.139	.140	.138	.138	.135	.135	.132	.132
10 P _i	941.2	941.2	843.2	843.2	633.2	633.2	475.2	475.2
11 P _i 2/1000	885.9	885.9	711.0	711.0	400.9	400.9	225.8	225.8
12 F _i (Table XV)	.010763	.010763	.010763	.010763	.010763	.010763	.010763	.010763
13 F _i = F _i T _Z	5.215	5.198	5.268	5.251	5.409	5.397	5.503	5.508
14 F _i Q _m	1.017	1.013	2.271	2.263	4.084	4.075	4.154	4.159
15 L/H (F _i Q _m) ²	1.034	1.027	5.156	5.122	16.478	16.406	17.261	17.298
16 F _i L/H (F _i Q _m) ² (1-e ⁻⁵)	.144	.144	.714	.711	2.252	2.247	2.294	2.299
17 P _w ² = P _i ² + F _w	886.0	886.0	711.7	711.7	403.2	403.2	228.1	228.1
18 P _s ² = e ⁵ P _w ²	1029.9	1030.4	826.0	826.1	466.2	466.3	263.1	263.1
19 P _s	1014.8	1015.1	908.5	909.1	682.8	682.9	512.9	512.9
20 P = $(\frac{P_i + P_s}{2})$	978.0	978.1	876.0	876.1	657.9	658.0	494.1	494.0
21 P _i = (P _i P _{cr})	1.54	1.54	1.38	1.38	1.04	1.04	.78	.78
22 T _i = (T/T _{cr})	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
23 Z (Table XI)	.887	.887	.896	.896	.921	.921	.940	.940

RECEIVED

JUN 06 1995

U.S. MARSHALS
SERVICE