

WORKSHEET FOR CALCULATION OF SURFACE COLUMN WELLHEAD PRESSURE (F)

C-122D
Revised 5-1-55

COMPANY SKELLY OIL CO. LEASE MEXICO FEB "D" WELL NO. 1 DATE 7-21-69

LOCATION: Unit F Section 21 Township 26S Range 35E

DATE 7-21-69 H 15565 LH 1.000 G 0.621 %CO₂ 0.68 %N₂ 0.64 %H₂S -

d 2.195 F_i 0.03578 GH 9661 P_{ct} 6.73 T_{ct} 36.2

1ST RATE 2ND RATE 3RD RATE 4TH RATE

	1ST TRIAL	2ND TRIAL	1ST TRIAL	2ND TRIAL	1ST TRIAL	2ND TRIAL	1ST TRIAL	2ND TRIAL
1 Qm	3.265	3.265	4.727	4.727	6.356	6.356	8.248	8.248
2 T _w (W.H. °F)	541	541	541	541	540	540	540	540
3 T _g (B.H. °K)	650	650	650	650	650	650	650	650
4 T = (T _w + T _g)	595.5	595.5	595.5	595.5	595	595	595	595
5 Z (Est.)	1.429	1.435	1.416	1.418	1.371	1.372	1.343	1.340
6 T _Z	851.0	854.5	843.2	844.4	815.7	816.3	799.1	797.3
7 GH/T _Z	11.358	11.312	11.463	11.447	11.850	11.841	12.096	12.123
8 e ^s (Table XIV)	1.531	1.528	1.535	1.536	1.560	1.559	1.574	1.576
9 1-e ^s (Table X V)	0.347	0.346	0.349	0.349	0.359	0.359	0.365	0.365
10 P ₁ 2/1000	8813.2	8813.2	8683.2	8113.2	8113.2	7763.2	7163.2	7163.2
11 P ₁ 2/1000	77622.5	77672.5	74532.1	74532.1	65824.0	65824.0	60267.3	60267.3
12 P ₁ (Table XV)	0.03442	0.03442	0.03442	0.03442	0.03442	0.03442	0.03442	0.03442
13 P ₁ = F ₁ T _Z	11.439	11.486	11.334	11.350	10.965	10.973	10.742	10.717
14 Q _m	37.35	37.50	53.58	53.65	69.69	69.74	88.60	88.39
15 1/4 (F ₁ Q _m) ²	1395.0	1406.3	2870.8	2878.3	4866.7	4868.7	7830.0	7812.8
16 1/4 (H(F ₁ Q _m) ²)(1-e ^s)	484.07	485.58	1001.9	1004.5	1743.6	1746.1	2865.3	2851.7
17 1/4 = P ₁ ² 4 T _w	78186.6	78189.1	75534.0	75536.6	67579.1	67579.1	63159.6	63190
18 1/4 = e ^s P _w ²	119657.8	119427.1	115944.2	116024.2	105665.8	105666.1	99370.7	99475.5
19 1/4	119338.5	10928.3	10767.8	10771.4	10266.7	10266.6	9968.5	9973.7
20 1/4 (F ₁ s)	9976.0	9576.5	9760.5	9702.3	9190.0	9183.4	8858.9	888.5
21 1/4 (F ₁ cp)	14.67	14.67	14.41	14.42	13.61	13.65	13.07	13.12
22 1/4 = (T ₁ T _{ct})	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64
23 (Table XI)	1.435	1.435	1.418	1.418	1.372	1.371	1.340	1.340

TABLE 12 C X