

WORKSHEET FOR CALCULATION OF ST C COLUMN WELLHEAD PRESSURE (P_w)

C-122D
ed 9-1-65

COMPANY BTP Oil Producers LEASE 8046-JV-P-Middle Fed B WELL NO. 1 DATE 6-8-53

LOCATION: Unit E Section 35 Township 22S Range 34E

L 12758 H 13284 L/H 0.56 G 0.756 % CO₂ 0.23 % N₂ 1.29 % H₂S 0

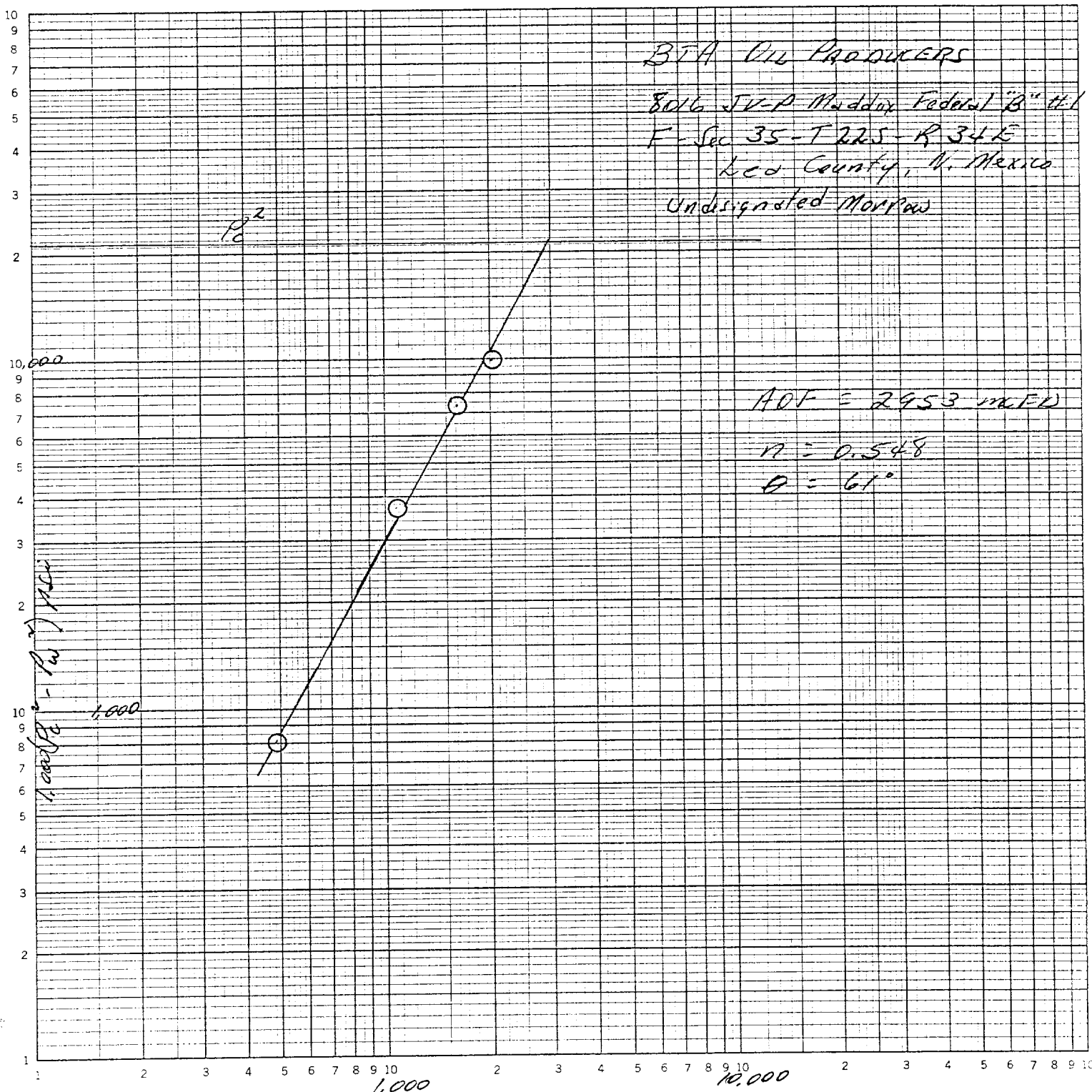
D 2.441 F₁ 0.010763 GH 19443 P_{cr} 666 T_{cr} 400

TABLE IX & X

LINE	1	1	2	2	3	3	4		
1 Q _m	0.486	0.486	1.084		1.636		2.036		
2 T _w (W.H. °R)	520	-	-	-	-	-	-		
3 T _s (B.H. °R)	640	-	-	-	-	-	-		
4 T = ($\frac{1}{2}T_w + \frac{1}{2}T_s$)	580	-	-	-	-	-	-		
5 Z (Est.)	.968	.996	.948	.955	.889	.902	.855		
6 T _z	561	578	550	554	516	523	496		
7 GH/T _z	17.88	17.38	18.26	18.13	19.478	19.197	20.25		
8 e ^s (Table XIV)	1.4568	1.4142	1.4837	1.4737	2.0759	2.0542	2.137		
9 1-e ^s (Table XIV)	.4889	0.4790	0.4459	0.4433	0.5183	0.5132	.5320		
10 P ₁	4547.2	-	4234.2	-	3772.2	-	3403.2		
11 P ₁ 2/1000	20557	-	17928	-	14229	-	11582		
12 F ₁ (Table XV)	0.010763	-	-	-	-	-	-		
13 F _c = F ₁ 12	6.038	6.22	5.92	5.96	5.55	5.63	5.34		
14 F _c Q _m	2.93	3.02	6.42	6.46	9.085	9.209	10.87		
15 L/H (F _c Q _m) ²	2.82	8.78	39.5	40.11	79	81	113.4		
16 F _w = L/H (F _c Q _m) ² (1-e ^s)	1.379	4.20	19.6	19.78	41	42	60		
17 P _w ² = P ₁ ² + F _w	20558	20561	17948	17947	14270	14271	11642		
18 P _s ² = e ^s P _w ²	40229	39462	35602	35424	29623	29315	24880		
19 P _s	6342	6282	5966	5952	5442	5414	4988		
20 P = ($\frac{1}{2}P_s + \frac{1}{2}P_w$)	5445	5414	5100	5093	4607	4593	4195		
21 P _r = (P/P _{cr})	8.17	8.13	7.66	7.65	6.92	6.90	6.30		
22 T _r = (T/T _{cr})	1.43	-	-	-	-	-	-		
23 Z (Table XI)	0.996	.993	.955	.955	.902	.901	.859		

46 7400

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Rate (mcFD)