

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

COMPANY Continental Oil Co LEASE Vaughn B-1 WELL NO. 6 DATE 11/4/71

LOCATION: Unit E Section 1 Township 24S Range 36

L 3433 H 3433 LH 1000 G 663 (Assumed) % CO₂ 0 % H₂S 0

d 2,441 F_r 0.0763 GH 2276 P_{CF} 620 T_{CF} 328

LINE	15	2ND	3RD	4TH	
1 Q _m	147	194	257	330	414
2 T _w (W.H. °R)	534	534	534	534	534
3 T _s (B.H. °R)	568	568	568	568	568
4 T = $(\frac{T_w + T_s}{2})$	551	551	551	551	551
5 Z (Est.)	944	944	947	952	951
6 TZ	520	521	522	525	524
7 GH/TZ	4.376	4.366	4.357	4.339	4.344
8 e ^s (Table XIV)	1.000	1.000	1.000	1.000	1.000
9 1-e ^s (Table XIV)	0.00164	0.00164	0.00163	0.00163	0.00163
10 P _t	320.2	312.2	299.2	279.2	270.2
11 P _t ² /1000	102.5	97.5	89.5	74.09	74.09
12 F _r (Table XV)	0.0763	0.0763	0.0763	0.0763	0.0763
13 F _c = F _r TZ	5.598	5.610	5.622	5.616	5.646
14 F _c Q _m	823	1,088	1,445	1,443	1,861
15 L/H (F _c Q _m) ²	1677	1,185	2,088	2,083	3,464
16 F _w = L/H (F _c Q _m) ² (1-e ^s)	600.11	600.154	600.341	600.341	600.514
17 P _w ² = P _t ² + F _w	109.6	105.4	98.7	98.7	85.07
18 P _s ² = e ^s P _w ²	109.6	105.3	98.7	98.7	85.07
19 P _s	331.1	324.6	314.2	314.1	291.7
20 P = $(\frac{P_t + P_s}{2})$	325.6	318.4	306.7	306.7	281.9
21 P _r = (P/P _{CF})	49	149	46	46	42
22 T _r = (T/T _{CF})	1.45	1.45	1.45	1.45	1.45
23 Z (Table XI)	943	944	947	947	951

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NOV 14 1974

**OIL CONSERVATION COMM.
HOBBS, N. M.**