

WORK SHEET FOR CALCULATING EQUIVALENT STATIC WELLHEAD PRESSURE

LEASE SPIKES WELL NO. 1-26 FIELD FRANK, NW (TOPEKA) COUNTY BACA DATE 7-16-73
 % CO₂ 1.05 G_m 1755 P_{cr} 624 T_{cr} 324 FLOW STRING 2 7/8
 % N₂ 28.14 H 3126 G_mH 2360 L/H 1.000 I.D. 2.441

RATE											
LINE	TRIAL										
1	Q _m , M ² cfd	<u>165</u>									
2	T _w	<u>520</u>									
3	T _s	<u>560</u>									
4	T _e	<u>540</u>									
5	Z _e	<u>.985</u>									
5a	T _e Z _e	<u>532.0</u>									
6	G _m H / T _e Z _e	<u>4.437</u>									
7	e ^s	<u>1.181</u>									
8	(1 - e ^{-s})	<u>.153</u>									
9	P _t or P _c	<u>122.4</u>									
10	P _t ² or P _c ² (thous.)	<u>15.0</u>									
11	F _c	<u>5.667</u>									
12	F ₁ = F _c T _e Z _e / 540	<u>5.583</u>									
13	F ₁ Q _m	<u>.921</u>									
14	Y = (F ₁ Q _m) ² L/H	<u>.849</u>									
15	R ² = Y (1 - e ^{-s})	<u>.130</u>									
16	P _w ² = P _t ² + R ²	<u>15.1</u>									
17	P _s ² = e ^s P _w ² (thous.)	<u>17.8</u>									
17a	P _f ² = e ^s P _c ² (thous.)										
18	P _s or P _f	<u>133.6</u>									
19	P _e	<u>128.0</u>									
20	P _r	<u>.21</u>									
21	T _r	<u>1.67</u>									
22	Z _e	<u>.985</u>									

