

WORK SHEET FOR STEPWISE CALCULATION
(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

Form C-122E
Adopted 6-1-65

COMPANY Union Oil Co. of California LEASE Pip line Federal WELL NO. 1 DATE 8-11-70

LOCATION: Unit M Section 4 Township 19 South Range 34 East

L 13325 H 13325 L/H 100 G 0.9375 % CO₂ 0.6 % N₂ 0.6 % H₂S Source

d 2895 F_i 2019231 Q_m 7.0 M₂eld (L/H) (F_iQ_m)² 0.01645 P_{cr} 2835 T_{cr} 469

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6663		13325						
2	GH		0	6660		12517						
3	37.5GH		0	234746		469256						
4	P _c or P _n		3563	4839	4826	6088	6068					
5	P _i		536	728	726	915	912					
6	T		546	603	603	660	660					
7	T _r		116	129	129	141	141					
8	Z		0.761	0.913	0.911	1.071	1.069					
9	P/T ₂	48	4942	5300	5297	5684	5676					
10	P/T ₂	96	905	879	879	861	860					
11	(P/T ₂) ² /1000	1042, 104	0.08190	0.07245	0.07218	0.07412	0.07396					
12	L/H(T _r Q _m) ²		0.01641	0.01641	0.01641	0.01641	0.01641					
13		11+12	0.09835	0.09870	0.09863	0.09902	0.09891					
14	I _n	10+13	92.02	93.81	93.82	95.01	95.12					
15	M=P _n -P _{n-1}			1276	1263	1262	1242					
16	N=I _n +I _{n-1}		18	18503	18590	18609	18700					
17	M x N	15x16			234742		234738					
18	Σ (M x N)	Σ 17					469, 530					