

WORK SHEET FOR STEPWISE CALCULATION

~~ISUBSURFACE~~ PRESSURE (P_c & P_w)

Form C-122-E
Adopted 9-1-65

COMPANY Adobe Oil Company LEASE Smith Federal WELL NO. 1 DATE 10/21/72

LOCATION: Unit G Section 14 Township 23 S Range 24 E

L 9874 H 9874 L/H 1.000 G .587 % CO₂ .0011 % N₂ .0029 % H₂S .09 Gr/CCF

d Annulus $F_r \cdot 0.0046007 Q_m$ 3.128 M²-cfd (L/H) (F_rQ_m)² .000207 P_{CI} 672 T_{CI} 350

P = $\frac{652,050}{2198.539}$ = 296.5 P_w = 1524.1 - 296.5 = 1227.6

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	II		9874	4937		0						
2	GH		5796	2898		0						
3	37.5GH		217,350	108,675		0						
4	P _c or P _n		1524.1	1381.1	1378.4	1233.0	1227.0					
5	P _r		2.27	2.06	2.05	1.83	1.83					
6	T		635	577.5	577.5	520	520					
7	T _r		1.81	1.65	1.65	1.49	1.49					
8	Z		.912	.875	.875	.831	.831					
9	P/Z P/Z	4÷8	1671.2	1578.4	1575.3	1483.8	1476.5					
10	P/TZ	9÷6	2.6318	2.7332	2.7278	2.8535	2.8394					
11	(P/TZ) ² /1000	(10 ²)/1000										
12	L/H(F _r Q _m) ²											
13		11 + 12										
14	I _n	10÷13	379.968	365.872	366.596	350.447	352.187					
15	M=P _n -P _{n-1}			143.0	145.7	145.4	151.4					
16	N=I _n + I _{n-1}			745.840	746.564	717.043	718.783					
17	M x N	15 x 16			108,774		108,824					
18	Σ (M x N)	Σ 17			108,576		217,400					