

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (Pf & Ps)

Form C-122E

Pt #4, Pg #1

Company	Unocal	Lease	Red Hills	Well no.	28-2	Date:	11/1/95
Location: Unit	0	Section:	28	Township:	25-S	Range:	33-E

L : 13521 G : 0.76137 d : 2.323
 H : 13521 %CO₂ : 0.2 Fr : 0.01194 (table XV)
 L/H : 1.00 %N₂ : 1.9 Qm : 2.566
 %H₂S : 0.0 (L/H)(FrQm)² : 0.00094
 Pcr : 664
 Tcr : 405

T @ 0' : 554 deg R
 T @ mid point : 600 deg R
 T @ H : 646 deg R

Line	Item	source	1	2	3	4	5	6	7
1	H		0	6760.5			13521		
2	GH		0	5147.25			10294		
3	37.5 GH		0	193,022			386,044		
4	Pc or Pn		3963.2	4816.6	4809.4	4809.2	5655.3	5642.9	5642.4
5	Pr		5.97	7.25	7.24	7.24	8.52	8.50	8.50
6	T		554	600.0	600.0	600	646	646	646
7	Tr		1.37	1.48	1.48	1.48	1.60	1.60	1.60
8	Z	Table 11	0.879	0.938	0.934	0.934	1.033	1.032	1.032
9	P/Z	4/8	4839.1	5151.4	5149.3	5149.1	5474.6	5467.9	5467.4
10	P/TZ	9/6	8.7348	8.5857	8.5821	8.5818	8.4746	8.4643	8.4635
11	(P/TZ) ² /1000	10 ² /1000	0.07630	0.07371	0.07365	0.07365	0.07182	0.07164	0.07163
12	L/H*FrQm ²		0.00094	0.00094	0.00094	0.00094	0.00094	0.00094	0.00094
13		11 + 12	0.07724	0.07465	0.07459	0.07459	0.07276	0.07258	0.07257
14	ln	10/13	113.093	115.008	115.055	115.059	116.477	116.615	116.625
15	M = Pn-P(n-1)			853.4	846.2	846.0	846.0	833.65	833.147
16	N = ln + I(n-1)			228.100	228.147	228.15	231.54	231.7	231.7
17	M x N	15*16				193,025			193,027
18	sum of (MxN)	sum of 17				193,025			386,052

Pt =	3963.2
delta P =	1678.6
Ps = Pt + dP	Ps = 5641.77

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