

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

Form C-122E

Pt #1, Pg #1

Company Unocal Lease Red Hills Well no. 28-2 Date: 11/1/95

Location: Unit Section: 28 Township: 25 S Range: 33 E

L : 13521 G : 0.76137 d : 2.323
 H : 13521 %CO₂ : 0.2 Fr : 0.01194 (equation C-23)
 L/H : 1.00 %N₂ : 1.9 Qm : 0.782
 %H₂S : 0.0 (L/H)(FrQm)² : 0.00009
 Pcr : 664
 Tcr : 405 0.00783

 T @ 0' : 532 deg R
 T @ mid point : 589 deg R
 T @ H : 646 deg R

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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		6923.2	7981.2	7960.7	7960.5	8997.8	8959.2	8958.5
5	Pr		10.43	12.02	11.99	11.99	13.55	13.49	13.49
6	T		532	589.0	589.0	589	646	646	646
7	Tr		1.31	1.45	1.45	1.45	1.60	1.60	1.60
8	Z	Table 11	1.188	1.286	1.283	1.283	1.372	1.368	1.368
9	P/Z	4/8	5827.6	6206.2	6204.7	6204.6	6558.2	6549.1	6548.6
10	P/TZ	9/6	10.9542	10.5368	10.5343	10.5342	10.1520	10.1380	10.1372
11	(P/TZ) ² /1000	10 ² /1000	0.11999	0.11102	0.11097	0.11097	0.10306	0.10278	0.10276
12	L/H*FrQm ²		0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
13		11+12	0.12008	0.11111	0.11106	0.11106	0.10315	0.10287	0.10285
14	ln	10/13	91.223	94.831	94.853	94.855	98.420	98.555	98.563
15	M = Pn-P(n-1)			1058.0	1037.5	1037.3	1037.3	998.69	997.984
16	N = ln+I(n-1)			186.054	186.077	186.08	193.27	193.4	193.4
17	M x N	15*16				193,023			193,028
18	sum of (MxN)	sum of 17				193,023			386,051

Pt =	6923.2
delta P =	2034.6
Ps = Pt + dP	Ps = 8957.85

