

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
~~XXXXXXXXXX~~
~~XXXXXXXXXX~~

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

RATE NO. 4

COMPANY Purac Oil Corporation LEASE Dero Federal WELL NO. 1 DATE 1/10/73

LOCATION: Unit P Section 35 Township 19 S Range 28 E

L 10,700 H 10,700 L/H 1.000 G .609 % CO₂ - % N₂ - % H₂S -

d 1.995 $P_f - 0.18231 Q_m$.980 $M^2 \text{ cfd}$ (L/H) ($F_r Q_m$)² .000319 P_{CT} 671 T_{CT} 358
TABLE IX & X TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	5390			10700					
2	GH		0	3258			6516					
3	37.5GH		0	122,175			244,350					
4	$P_c \text{ or } P_n$		1339.2	1550.6	1542.6	1542.1	1744.9	1736.8	$P = 1339.2 + 733.050 = 1733.8$			
5	P_r		2.00	2.31	2.30	2.30	2.60	2.59		1857.619		
6	T		510	582	582	582	634	634				
7	T_r		1.42	1.63	1.63	1.63	1.77	1.77				
8	Z		.780	.858	.858	.858	.893	.893				
9	$P/Z \text{ or } P/Z$		1716.9	1807.2	1797.9	1797.3	1954.0	1944.9				
10	P/TZ		3.3665	3.1052	3.0892	3.0881	3.0820	3.0677				
11	$(P/TZ)^2 / 1000$		.011333	.009642	.009543	.009536	.009499	.009411				
12	$L/H(F_r Q_m)^2$		.000319	.000319	.000319	.000319	.000319	.000319				
13			.011652	.009961	.009862	.009855	.009818	.009750				
14	I_n		288.920	311.736	313.243	313.354	313.913	315.283				
15	$M = P_n - P_{n-1}$			211.4	203.4	202.9	202.8	194.7				
16	$N = I_n + I_{n-1}$			600.656	602.163	602.274	627.267	628.637				
17	$M \times N$					122,201		122,396				
18	$\Sigma (M \times N)$		$\Sigma 17$					244,597				