

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Adopted 9-1-65

COMPANY

YPC

LEASE *hedugulla Canyon Unit* WELL NO. 6

DATE 11-10-77

LOCATION: Unit

1C

Section

4

Township

24-S

Range

24-E

L 9696

H 9696

L/H 1.000

G 0.576

%CO₂ 0.76

%N₂ 0.48

%H₂S

N.I.

4.892
1.993
1.003

d 2.0439

F₁ 1.01667

GH 5555

P_{CT} 675

T_{CT} 346

TABLE IX B X

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LINE	S1	1	2	3	4	S1	1	2	3	4
1 Q _m	—	.890	1.386	2.083	2.478		.890	1.386	2.083	2.478
2 T _w (W.H. °R)	512	517	522	526	530		517	522	526	530
3 T _s (B.H. °R)	636	635	634	633	632		635	634	633	632
4 T = ($\frac{T_w + T_s}{2}$)	574	576	578	579.5	581		576	578	579.5	581
5 Z (Est.)	.872	.861	.854	.846	.847		.8545	.8465	.8465	.848
6 T _Z	499.517	495.936	493.612	490.257	492.107		493.901	490.547	492.685	
7 GH/T _Z	11.1808	11.2615	11.315	11.392	11.349		11.308	11.385	11.336	
8 e ^s (Table XIV)	1.5209	1.5255	1.5285	1.5330	1.5305		1.5281	1.5326	1.5297	
9 1-e ^s (Table XIV)		0.3445	0.3458	0.3477	0.3466		0.3456	0.3475	0.3463	
10 P _t	3108	2925.2	2740.2	2408.2	2198.2		2740.2	2408.2	2198.2	
11 P _t 2/1000	9660	8556.8	7508.7	5799.4	4832.1		7508.7	5799.4	4832.1	
12 F _t (Table XIV) $\frac{4H}{5} = .0325 \frac{4H}{5}$	.41928	.42231	.42430	.42720	.42559		.42405	.42695	.42509	
3 F _c = F _t T _Z		8.2673	8.2285	8.1723	8.2034		8.2233	8.1974	8.2131	
14 F _c Q _m		7.358	11.405	17.023	20.328		11.411	17.034	20.352	
15 L/H (F _c Q _m) ²		54.14	130.07	289.78	413.23		130.22	290.14	414.21	
16 F _w = L/H (F _c Q _m) ² (1-e ^s)		18.65	45.0	100.76	143.23		45.0	100.8	143.44	
17 P _w ² = P _t ² + F _w		8575.4	7553.7	5900.2	4975.3		7553.7	5900.2	4975.5	
18 P _s ² = e ^s P _w ²	14692	13081.8	11545.8	9045.0	7614.7		11542.8	9042.0	7611.1	
19 P _s	3833	3616.9	3397.9	3007.5	2759.5		3397.5	3007.1	2758.8	
20 P = ($\frac{P_t + P_s}{2}$)	3471	3271	3069.1	2707.8	2478.8		3068.8	2707.6	2478.5	
21 P _t = (P/P _{cr})	5.141	4.846	4.547	4.012	3.672		4.546	4.011	3.672	
22 T _t = (T/T _{cr})	1.659	1.665	1.670	1.675	1.679		1.670	1.675	1.679	
23 Z (Table XI)	.870	.861	.8545	.8465	.848		.8545	.8465	.848	

$$Fe^{+} \frac{1.63290}{(15.1652 + 0.0001) d^2}$$

$$1.63290 \quad 0.1667$$

$$1.63290 \quad 0.1667 \quad 1.5125$$