

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE ()

C-122D
Adopted 9-1-85

COMPANY YPC LEASE Murphy Nat Gas WELL NO. 185 DATE 3-12-81

LOCATION: Unit L Section 3 Township 18S Range 25E

L 8300 H 8300 L/H 1.000 G 6.64 % CO₂ 0.31 % N₂ 0.40 % H₂S 1.17

2 844 (1340) = 32745
4 1605 = 960
3 300 (4608) = 33735
d 2.0166 F_r 0.016218 GH 5137.2 P_{cr} 752.5 T_{cr} 392.5
TABLE IX & X

LINE	51	1	2	3	4	51	1	2	3	4
1 Q _m	—	0.492	0.326	0.326			0.492	0.326		
2 T _w (W.H. °R)	513	525	525	525						
3 T _s (B.H. °R)	603	602	601	601						
4 T = $\frac{(T_w + T_s)}{2}$	558	563.5	563	563			563.5	563		
5 Z (Eq. 1)	0.7225	0.795	0.868	0.868			0.796	0.864		
6 T ₂	463.155	447.98	433.624	433.125			448.546	434.247		
7 Q _H TZ	12.744	11.4685	10.5133	10.012			11.454	10.5012		
8 e ^s (Table XIV)	1.6127	1.5324	1.48327	1.4556			1.5365	1.4836		
9 1-e ^s (Table XIV)		0.3495	0.3253	0.3130			0.3492	0.3255		
10 P ₁	2026.2	1273.2	773.2	512.2			1273.2	773.2		
11 P ₁ ² 1000	4105.0	1621.04	597.84	265.43			1621.04	597.84		
12 F _r (Table XV) 0.525 $\frac{F_H}{F_2}$	0.47784	0.43007	0.39425	0.37544			0.42953	0.39380		
13 F _c = F _r TZ		7.2653	7.9255	8.327			7.2745	7.9246		
14 F _c Q _m		3.5745	2.5837	2.7137			3.579	2.5822		
15 L/H (F _c Q _m) ²		12.777	6.675	7.3614			12.81	6.691		
16 F _w = L/H (F _c Q _m) ² (1-e ^s)		4.46	2.17	2.130			4.47	2.18		
17 P _w ² = P ₁ ² + F _w		1625.5	598.01	267.73			1625.51	598.02		
18 P _s ² = e ^s P _w ²	66220.8	24990	9870	384.7			24976	826.6		
19 P _s	2573.2	1580.5	941.8	624.3			1580.4	941.6		
20 P = $\frac{P_1 + P_s}{2}$	2294.7	1427.0	857.5	569.2			1426.8	857.4		
21 P _r = (P/P _{cr})	3.056	1.896	1.140	0.757			1.896	1.140		
22 T _r = (T/T _{cr})	1.4217	1.435	1.434	1.434			1.437	1.434		
23 Z (Table XI)	0.7995	0.745	0.760	0.760			0.745	0.760		

COUNTY **EDDY** FIELD **Undesignated** STATE **NM**
 OPR **YATES PETROLEUM CORP.** API **30-015-23506**
 NO **1** LEASE **Murphy "NW" Federal** MAP
 Sec 3, T18S, R25E CO-ORD
 1980 FSL, 990 FWL of Sec **1-5-11 NM**
 5 mi W/Atoka SPD **11-10-80** CMP **1-26-81**

CSC

13 3/8-344-349 SX
 8 5/8-1160-1050 SX
 4 1/2-8626-719 SX

WELL CLASS: INIT D FIN SUS LSE CODE

FORMATION	DATUM	FORMATION	DATUM
TD	8630 (PMPV)	PBD	8626

SUSPENDED OPERATIONS

CONR Captain 8-4

OPRSELEV 3520 GL

PD 8570 RT

12-10-80

12-10-80

1-26-81

1-26-81

12-10-80; 1000 VSP

12-10-80; 1000 VSP

12-10-80; 1000 VSP; 1000 VSP; 1000 VSP; 1000 VSP

12-10-80; 1000 VSP

12-10-80; 1000 VSP; 1000 VSP; 1000 VSP; 1000 VSP

1-5-11 NM

IC 30-015-23506-80