

6700.5
13485.7
117450.5

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

WORK SHEET FOR STEPWISE CALCULATION

COMPANY Lower & Oil Co., Inc. LEASE Madison Field Comm. WELL NO. 1 DATE 2-15-74

LOCATION: Unit C Section 11 Township 24-S Range 34-E

L 12-14 H 13405 L/H 1.082 Gm³ = 0.77667 % CO₂ 0.45 % N₂ 1.22 % H₂S 0.46 / 100.

d 1.945 F_r 0.0231 Q_m 1.173 M² cfd (L/H) (F_r Q_m)² 0.00457 P_{cr} 666 T_{cr} 408

TABLE IX & X

Continued from page 1

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6700.5			13405					
2	CH		0	5410.8			10281.6			At =	3(385561)	
3	37.5GH		0	192481			38556.1			145278 + 4(145886) + 15278		
4	P _c or P _n		2283.2	2946.7	2939.2	2938.2	3594.2	3580.2	3579.2		892.880	
5	P _f		3.43	4.42	4.41	4.41	5.40	5.38	5.37			
6	T		530	587	587	587	644	644	644			
7	T _r		130	144	144	144	158	158	158			
8	Z		632	754	753	753	856	855	854			
9	P/Z P/Z	4÷8	3612.7	3708.1	3703.3	3702.0	4198.8	4187.4	4194.1			
10	P/TZ	9÷6	6.8163	6.6577	6.6496	6.6473	6.5199	6.5021	6.5079			35787
11	(P/TZ) ² /1000 (10) 2/1000		0.46462	0.44325	0.44217	0.44187	0.42509	0.42278	0.42353			
12	L/H(F _r Q _m) ²		0.00457	0.00457	0.00457	0.00457	0.00457	0.00457	0.00457			
13		11÷12	0.46719	0.44782	0.44674	0.44644	0.42966	0.42735	0.42810			
14	I _n	10÷13	145.278	148.669	148.847	148.896	151.746	152.149	152.018			
15	M=P _n -P _{n-1}			663.5	656	655	656	642	641			
16	N=I _n +I _{n-1}			293.947	294.125	294.176	300.642	301.045	300.914			
17	M x N	15x16				192684			192886			
18	Σ (M x N)	Σ 17				192684			385570			