

WORK SHEET FOR STEPWISE CALCULATION

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COMPANY AMINOIL USA, INC. LEASE FEDERAL 19-1 WELL NO. 1 DATE 2/24/83

LOCATION: Unit Section 19 Township 19S Range 33E

13089 H 13089 L/H 1.000 G .7319 % CO₂ 5.002 % N₂ .607 % H₂S

d 2.441 F₁ 010762 Q_m .232 M²-cfd (L/H) (F₁Q_m)² .000006 P_{Cr} 689 T_{Cr} 392

TABLE 12 B 2

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	6545		13089						
2	GH		0	4789.9		9580						
3	37.5GH		0	179622		359244						
4	P _e or P _n		2243.2	2808.1	2795.8	3346.6	3323.2					
5	P _r		3.26	4.08	4.06	4.86	4.82					
6	T		534	599.5	599.5	665	665					
7	T _r		1.36	1.53	1.53	1.70	1.70					
8	Z		.668	.778	.777	.873	.872					
9	P/Z P/Z	4÷8	3358.1	3609.3	3598.2	3833.4	3811.0					
10	P/TZ	9÷6	6.2885	6.0206	6.0019	5.7646	5.7308					
11	(P/TZ) ² /1000	(10) 2/1000	.039546	.036247	.036023	.033236	.032848					
12	L/H(F ₁ Q _m) ²		.000006	.000006	.000006	.000006	.000006					
13		11÷12	.039552	.036253	.036029	.033236	.032842					
14	I _n	10÷13	158.994	166.071	166.586	173.444	174.465					
15	M=P _n -P _{n-1}			565	553	551	527					
16	N=I _n +I _{n-1}			325.066	325.581	340.030	341.051					
17	M x N	15×16			179906		179876					
18	Σ (M x N)	Σ 17			179337							

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O.C.D.
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