

WORK SHEET FOR STEPWISE CALCULATION

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

Form 100
Approved 1-1-66

COMPANY Sum Oil Co. LEASE Bogal Flats Unit WELL NO. 8 DATE 1-9-66

LOCATION: Unit C Section 5 Township 22S Range 23E

L 6451 H 6500 LH 10 656 2 189 4
d 1005 F 01839 Q 7440 M 41 01839 P 1 670 345

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		C	3450		6960						
2	CH		C	2263.2		11526.4						
3	CHSCH		C	84876		169276						
4												
5			2146.2	2520.8	2523.3	2961.7	2961.76					
6			3201	3762	3766	4330.2	4.338					
7			536	503	503	589	589					
8			1420	1561	1561	1.57	1.57					
9			725	772	772	815	815					
10			2954.8	3568.3	3268.52	3567.1	3575.5					
11			53201	532049	5810.7	605785	607645					
12			103047	1035647	103576	103612	103655					
13			61837	61839	101539	61839	61839					
14			64886	103215	103215	65511	65524					
15			11278	11145	11142	10995	10689					
16			575397	57812	37845	383597	38376					
17			22443	22440	22437	22131						
18			84823									
19			34497									
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WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) PRESSURE (P_f & P_s) (SURFACE) (P_c & P_w)

Form G-1224
Adopted 9-1-65

COMPANY _____ LEASE _____ WELL NO. _____ DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

L _____ H _____ L/H _____ G _____ % CO₂ _____ % N₂ _____ % H₂S _____

d _____ F₁ _____ Q_m 7440 M₂ 40 (L/H) (F₁ Q_m) _____ P_{cr} _____ T_{cr} _____

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		6900	3450		0						
2	GH		4526.4	2263.2		0						
3	37.5GH		169740	84870		0						
4	$P_1 - P_n$		2906.9	2649.3	2649.2	2311.46	2381.95	2390.0				
5	F ₁		4338	3454	345	3569	3567	3567				
6	T		589	563	563	536	536	536				
7	T ₁		157	1501	1501	1429	1429	1429				
8	Z		813	775	775	725	725	725				
9	P/Z	4.8	3375.5	3185	3418.5	3298.56	3296.48	3296.55				
10	P/TZ	9.6	6.07045	6.0773	6.0773	6.1540	6.15014	6.15027				
11	(P/TZ) 2.1000	(10) 2.1000										
12	L ₁ H(F ₁ Q _m) ²											
13		11 + 12										
14	I _n	10 13	164.73	164.55	164.55	162.495	162.597	162.594				
15	M = P _n - P _{n-1}			257.60	257.74	257.481	259.248	259.167	259			
16	N = I _n + I _{n-1}			329.28	329.28	327.045	327.147	327.144				
17	M x N	15 x 16		84.954	84.954							
18	Σ (M x N)	Σ 17	169740	84786								

P₁₀ = 2390.2