

SUMMARY OF PRESSURE DATA ANALYSIS - PELICAN 4

TABLE 4

Pressure Test No.	Depth K.B. (ft)	Depth K.B. (ft)	Final B/U Pressure MP (psig)	Final B/U Pressure RFT/FIT (psig)	p* Cylindrical (psig)	p* Spherical (psig)	m Cylindrical (psi cycle)	m ^l Spherical (psi sec)	kh cyl. (md ft)	k spn. (md)	h ₁ (ft)	1st Chamber	2nd Chamber	1st Chamber	2nd Chamber	k _{dd} (md)	β logs	S _{wo} SW logs	Assumed Fluid	h ₂ khcyl kdd
												Flowing Press (psig)	Flowing Press (psig)	Flowrate (cc/sec)	Flowrate (cc/sec)					
2	8970	8888	4035.6	4027	-	-	-	-	rel.good	rel.good		3950/3930	3800/3790	0.42	1.43	11/13	.17	.52 .33	FILTR GAS	?
3	8876	8794	3917.1	3908	3917.6	3917.2	2.15	8.6	13	1.3	10	3690/3680	3380/3360	0.42	1.43	4/6	.18	.75 .85	FILTR WATER	2.6
4	8832	8750	3897.6	3903	3897.7	3897.6	1.65	10	17	1.6	10.6	3700/3710	3450/3440	0.42	1.43	5/7	.18	.66 .79	FILTR WATER	2.8
5	8672	8590	3828.1	3833	3828.2	3828.2	1.34	3.6	21	2.5	8.4	3810/3810	3770/3770	0.42	1.43	51/54	.21	.80 .95	FILTR WATER	0.4
6	8445	8363	3735.9	3742	3736.1	3736.0	1.95	6.5	15	1.5	10	3650/3650	3550/3550	0.42	1.43	11/17	.14	.75 1.14	FILTR WATER	1.0
7	9376	9294	4495.9	4490	4522	4510	5270 700	28400 9000	0.002 0.0009	0.003 0.002	0.7 0.5	0/0	0/0	0.23	0.1	.13	.66 .36	FILTR GAS	0.02	
8	9265	9183	4255.9	4253	4260	4255.0 ?	12.4 ?	55 ?	0.14	0.4	1.5	3240/3210	2300/2100	0.42	1.43	0.9/1.5	.14	.56 .50	FILTR GAS?	2.0
9	8467.5	8385.5	3766.8	3783	3772	3770	760 90	2900 74	0.04 0.02	0.02 0.08	2 0.3	3000/3200	1600/1600	0.42	1.43	1.2/1.4	.13	.53 1.16	FILTR WATER?	0.03 (GAS)
10	8988	8902	4004.7 4001.6	4000	?	?	175 ?	310 ?	2.1 ?	1.2 ?	1.8	3700/3850		M/C 135.5	-	45	.18	.48 .33	FILTR GAS	.05
11	9164	9082	4005.4 4054.1	4250	4226	4170	370	10400	0.69	0.20	3.5	292 317/300	-	5.78	-	2.5	.14	.80 .70	FILTR WATER?	.28
12	9342	9260	-	-	NA	NA	NA	NA	NA	NA	NA	54 105/200	-	0.15	-	.06	.11	.80 .80	WATER WATER	-
13	9238	9156	- 4206.3	4550	4211	4210	340 33	3150 750	3.8 2.3	.31 .21	12.1 10.9	578/500	-	29.16	-	13	.15	.82 .85	FILTR WATER	.23
14	9081	8999	4089.2	4087	4089.8	4090.4	1730 15.4	5200 32	0.16 0.11	0.17 0.11	1 0.61	2000/2000	300/200	.42	1.43	0.4/0.8	.14	.77 .68	FILTR GAS ?	.03
15	8778	8696	3899.8	3796	3910	3910	3100 12.8	53000 3600 ?	0.002 0.03	0.001 0.002	2 15	0/10	0/0	0.14	0.08	used 0.10	-	- high	FILTR GAS ?	.03
16	8592.5	8510.5	3795.8	3694	3796	3796	1.52	3.3	19	2.5	7.6	3760/3664	3730/3620	0.42	1.43	77/21 *	.17 1.01	.76 1.01	FILTR WATER	0.4
17	8511	8429	3766.9	-	3772	3769	240	1320	0.12	0.04	3	/-	126/-	0.645	0.3	.12	1.00 1.42	FILTR WATER ?	0.4	
18	9261	9179	4255.6	4146	4256	4255.8	12.6	60	0.14	0.09	1.6	2560/2560	1250/1240	0.42	1.43	0.3/1.0	.14	.56 .50	FILTR GAS ?	3.3
19	9922	9840	6136.7	6128	6168	6165	14200 440	175000 17600	0.0002 0.00045	.0004 .00037	0.5 1.2	0/0	0/0	0.075	0.03	.10	.68 .32	FILTR ? GAS ?	.01	
20	9920	9838	6154.7	6143	6165	6157	3290 100	7400 460	0.009 0.017	0.014 0.018	0.6 1.0	0/0	0/0	0.645	0.2	.10	.68 .32	FILTR GAS ?	.05	
21	9746	9664	4887.4	4882	4888	4888	13.7	36	0.12	0.11	1.1	4100/4140	3000/2800	0.42	1.43	1.2/1.7	.13	.73 .14	FILTR GAS	1.4
22	9500	9418	4405.7	4404	4407	4407	60	390	0.5	0.09	5.3	3700/3500	2400/2000	0.42	1.43	0.05/.06	.13	.54 .28	GAS ? GAS ?	9
23	9164	9082	4268.5	4271	4290	4280	4570 130	32000 2700	0.0018 0.0038	0.0022 0.0029	0.8 1.3	0/0	0/0	0.185	0.09	.14	.86 .69	FILTR GAS ?	0.02	
24	9174	9092	4233.9	4233	4236	4236	6090	35200 2360	0.0020 0.0030	0.0027 0.0042	0.7 0.7	0/0	0/0	0.27	0.14	.14	.80 .70	FILTR GAS ?	0.01	
25	9464	9382	4396.0	4388	4396.5	4396.2	6	24	.29	.16	1.8	4094/4090	3595/3590	0.42	1.43	.14/.18	.14	.51 .24	GAS ? GAS ?	1.4
26	9478	9396	4409.2	4386	4415	4411	2264 105	4250 730	0.013 0.016	0.019 0.015	0.7 1.0	3300/3500	2650/1700	0.42	1.43	0.62/0.87	.121	.50 .25	FILTR GAS	0.02

RESERVOIR AND FLUID PROPERTIES USED IN ANALYSING THE PRESSURE TESTS WERE AS FOLLOWS :-

res	=	(extrapolated pretest)	Tres	=	230°F
w	=	0.8 cp	g	=	0.03 cp
Cg	=	$\frac{1}{res}$	w	=	$3 \times 10^{-6} \text{ psi}^{-1}$
c	=	637 psi	Tc	=	426 psi
(g	=	1)			