NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

C/S1 File

Form C-122
Revised 9-1-65

RECEIVED
NOV 18 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 11/13/82	
Company: Perry R. Bass	Connection: Air		
Pool: Dos Tom Morrow	Formation: Morrow		
Completion Date: 11/12/82	Total Depth: 14459	Plug Back T.D.: 14415	Elevation:
Farm or Lease Name: Poker Lake			
Csg. Size: 4 1/2 Liner	Wt.:	d:	Set At: 14459
Perforations: From 14297 To 14325	Well No.: 59		
Tbg. Size: 2 3/8	Wt.:	d:	Set At: 13962
Perforations: From To	Unit: V	Sec.: 8	Twp.: 24S Rge.: 30E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: 13962	County: Eddy
Producing Thru: Tbg	Reservoir Temp. °F: 214 @ 13962	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13962	13962	.5737	1.500	.553			4"	Flg.

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI					3282				
1.	4 X 2.000	500	2.0	114	3032				1 hr
2.	4 X 2.000	500	5.0	106	2882				1 hr
3.	4 X 2.000	500	10.0	90	2682				2 hrs
4.	4 X 2.000	500	19.0	90	2390				1 hr
5.	4 X 2.000	500	30.0	90	2250				4 hrs

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	19.81	32.04	513.2	.9518	1.320	1.027	819
2	19.81	50.66	513.2	.9585	1.320	1.028	1305
3	19.81	71.64	513.2	.9723	1.320	1.032	1880
4	19.81	98.75	513.2	.9723	1.320	1.032	2591
5	19.81	124.08	513.2	.9723	1.320	1.032	3256

NO.	P_t	Temp. °R	T_r	Z
1	.76	574	1.66	.949
2	.76	566	1.64	.946
3	.76	550	1.59	.939
4	.76	550	1.59	.939
5	.76	550	1.59	.939

Gas Liquid Hydrocarbon Ratio: dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .5737 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 346 R R

P_c 3295.2 P_c^2 10,858.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3050.3	9304.3	1554.0
2		2908.0	8456.5	2401.8
3		2721.4	7406.0	3452.3
4		2457.3	6038.3	4820.0
5		2350.8	5526.3	5332.0

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.253$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.209$

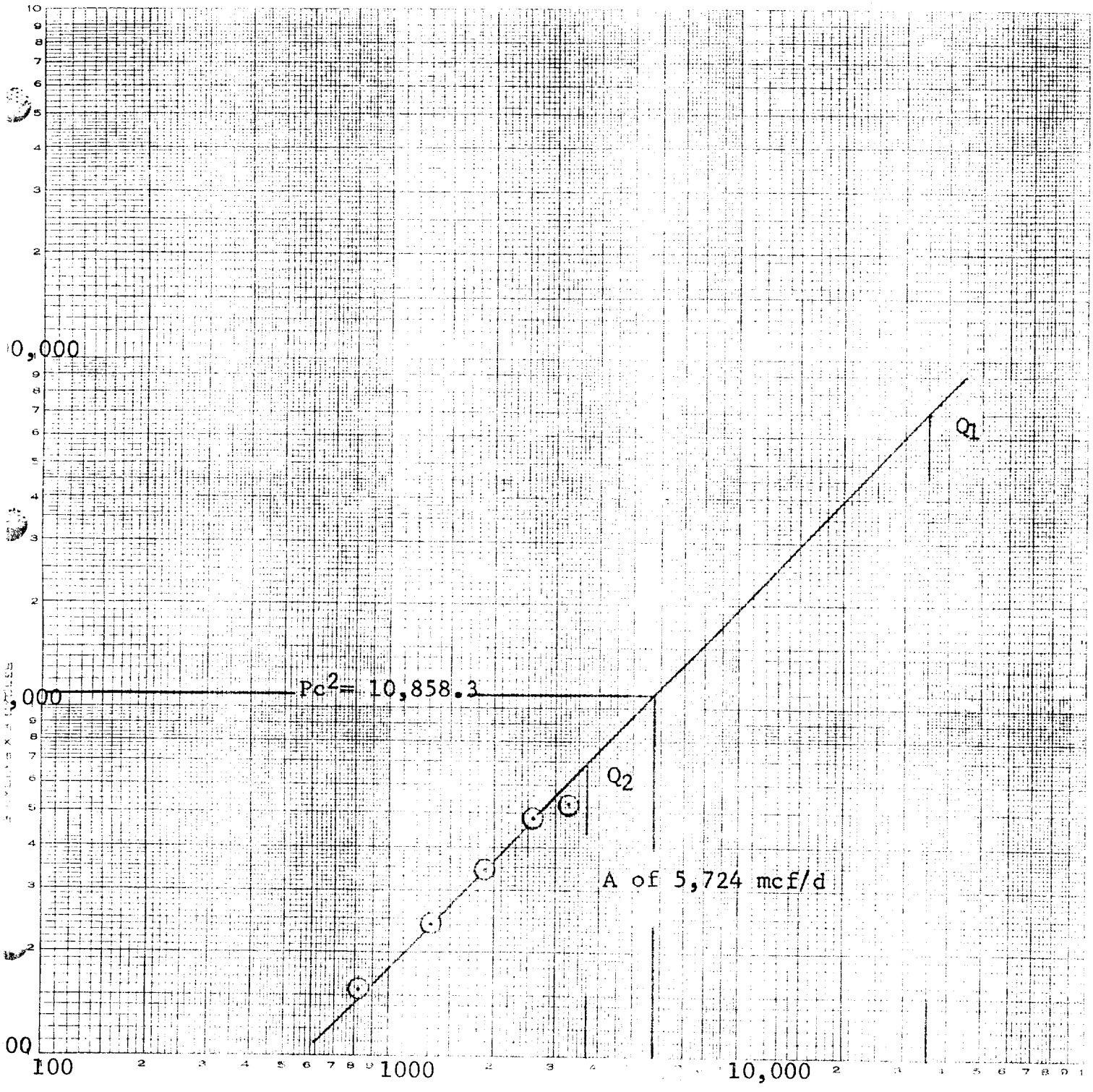
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.724$

Absolute Open Flow: 5.724 Mcfd @ 15.025 | Angle of Slope θ: 45.75° | Slope, n: .976

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Davis Services, Inc.	Rick Pagan	

COMPANY : Perry R. B.
LEASE : POKER LAKE UNIT
WELL # : 59
UNIT : SEC 8/TWP24S/RGE 30E
COUNTY : EDDY
STATE : NEW MEXICO
DATE : 11/13/82



Q	=	MCF/D
Q1 LOG 35,000	=	4.544068
Q2 LOG 3,700	=	3.568202
N	=	.976
θ	=	45.75°

NEW-TEX LAB

PHONE 505/393-3561 • P. O. BOX 1161 • 611 W. SNYDER • HOBBS, NEW MEXICO 88240

ANALYSIS CERTIFICATE

CLIENT: [illegible]
ADDRESS: [illegible]
CITY STATE: [illegible]

SAMPLE IDENT: Perry R. Bass
SAMPLING PRESS: [illegible]

[illegible]

[illegible]

	MOLE PERCENT	GPM
NITROGEN	[illegible]	
CARBON DIOXIDE	[illegible]	
METHANE	97.321	
ETHANE	[illegible]	[illegible]
PROPANE	[illegible]	[illegible]
ISO-BUTANE	[illegible]	[illegible]
NORMAL BUTANE	[illegible]	[illegible]
ISO-PENTANE	[illegible]	[illegible]
NORMAL PENTANE	[illegible]	[illegible]
HEXANES	[illegible]	[illegible]
HEPTANES PLUS	[illegible]	[illegible]
TOTAL	100.000	[illegible]

PROPANE GPM [illegible] [illegible]
ETHANE GPM [illegible] [illegible]

SPECIFIC GRAVITY [illegible] [illegible]
MOLE WEIGHT [illegible]

HHV-BTU/CU FT	PRESSURE PSIA	AT	BY
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]

ANALYZED BY: _____

APPROVED BY [signature]

WORK SHEET FOR STEPWISE CALCULATION ~~(SUBSURFACE)~~ (SURFACE) PRESSURE ~~(XXXXX)~~ (P_c & P_w) 1st

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11/13/82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018230 Q_m 0 M^2cfd $(L/H)(F_rQ_m)^2$ 0 P_{cr} 672 (TABLE 12 & 13) T_{cr} 346 (TABLE 12 & 13)

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13962	6981		0						
	GH		8010	4005		0						
3	37.5GH		300375	150187		0						
4	P_c or P_n		4049.7	3583.1	3566.7	3085.4	3046.1	3048.3		PW = 3050.3		
5	P_r		6.03	5.33	5.31	4.59	4.53	4.54				
6	T		674	604	604	534	534	534				
7	T_r		1.95	1.75	1.75	1.54	1.54	1.54				
8	Z		.967	.890	.889	.794	.791	.791				
9	P/Z P/Z	$\bar{4}\div\bar{8}$	4187.9	4026.0	4012.1	3885.9	3850.9	3853.7				
10	P/TZ	$\bar{9}\div\bar{6}$	6.2135	6.6655	6.6425	7.2769	7.2114	7.2167				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
1	$L/H(F_rQ_m)^2$											
13		$\bar{11}+\bar{12}$										
14	I_n	$\bar{10}\div\bar{13}$	160.940	150.026	150.546	137.421	138.670	138.568				
15	$M=P_n-P_{n-1}$			467	483	481	521	518				
16	$N=I_n+I_{n-1}$			310.966	311.486	287.967	289.215	289.114				
17	M x N	$\bar{15}\times\bar{16}$			150438			149885				
18	$\sum$(M x N)	$\sum\bar{17}$			149937							

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) ~~(SURFACE)~~ PRESSURE (P_f & P_s) ~~(P_c & P_w)~~ 1st

Form C-122-E
Adopted 9-1-65

OMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11-13-82

OCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018230 Q_m .819 M^2ctd (L/H) $(F_rQ_m)^2$ .000223 P_{cr} 672 TABLE IX & X T_{cr} 346 TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	.6981		13962						
2	GH		0	4005		8010						
3	37.5GH		0	150187		300375						
4	P_c or P_n		3045.2	3588.9	3567.9	4088.7	4053.7			PS = 4049.7		
5	P_r		4.53	5.34	5.31	6.08	6.03					
6	T		534	604	604	674	674					
7	T_r		1.54	1.75	1.75	1.95	1.95					
8	Z		.791	.891	.889	.969	.968					
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3849.8	4027.9	4013.4	4219.5	4187.7					
10	P/TZ	$\bar{9}\div\bar{6}$	7.2094	6.6688	6.6447	6.2604	6.2133					
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$	.051975	.044473	.044152	.039192	.038605					
12	$L/H(F_rQ_m)^2$		.000223	.000223	.000223	.000223	.000223					
13		$\bar{11}+\bar{12}$	.052198	.044696	.044375	.039415	.038828					
14	I_n	$\bar{10}\div\bar{13}$	138.116	149.203	149.740	158.832	160.020					
15	$M=P_n-P_{n-1}$			544	523	521	486					
16	$N=I_n+I_{n-1}$			287.319	287.856	308.572	309.760					
17	M x N	$\bar{15}\times\bar{16}$			150468		150484					
18	$\sum$(M x N)	$\sum\bar{17}$			149907							

WORK SHEET FOR STEPWISE CALCULATION ~~(SUBSURFACE)~~ (SURFACE) PRESSURE ~~(XXXXX)~~ (P_c & P_w) 2nd

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11/13/82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .01823 Q_m 0 M^2cfd (L/H) $(F_rQ_m)^2$ 0 P_{cr} 672 TABLE 13 & 14 T_{cr} 346 TABLE 13 & 14

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13962	6981		0						
	GH		8010	4005		0						
3	37.5GH		300375	150187		0						
4	P_c or P_n		3871.0	3420.3	3405.1	2940.8	2903.6	2906.1		PW = 2908.0		
5	P_r		5.76	5.09	5.07	4.38	4.32	4.32				
6	T		674	604	604	534	534	534				
7	T_r		1.95	1.75	1.75	1.54	1.54	1.54				
8	Z		.957	.882	.881	.786	.784	.784				
9	P/Z P/Z	$\bar{4}\div\bar{8}$	4044.9	3877.9	3865.1	3741.4	3703.6	3706.7				
10	P/TZ	$\bar{9}\div\bar{6}$	6.0014	6.4204	6.3991	7.0064	6.9356	6.9414				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
	$L/H(F_rQ_m)^2$											
13		$\bar{11}+\bar{12}$										
14	I_n	$\bar{10}\div\bar{13}$	166.627	155.754	156.273	142.727	144.184	144.064				
15	$M=P_n-P_{n-1}$			451	466	464	501	499				
16	$N=I_n+I_{n-1}$			322.381	322.900	299.000	300.457	300.337				
17	M x N	$\bar{15}\times\bar{16}$			150429			149886				
18	$\sum$(M x N)	$\sum\bar{17}$			149946							

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) ~~(SURFACE)~~ PRESSURE (P_f & P_s) ~~XXXXXXX~~ 2nd

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11-13-82

LOCATION: Unit N Section 8 Township 24S Range 30E

. 13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018230 Q_m 1.305 M^2cfd $(L/H)(F_rQ_m)^2$ .000566 P_{cr} 672 (TABLE 1X & X) T_{cr} 346 (TABLE 1X & X)

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	.6981		13962						
	GH		0	4005		8010						
3	37.5GH		0	150187		300375						
4	P_c or P_n		2895.2	3420.7	3401.7	3906.4	3874.6			PS = 3871.0		
5	P_r		4.31	5.09	5.06	5.81	5.77					
6	T		534	604	604	674	674					
7	T_r		1.54	1.75	1.75	1.95	1.95					
8	Z		.784	.882	.880	.959	.958					
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3692.9	3878.3	3865.5	4073.5	4044.4					
10	P/TZ	$\bar{9}\div\bar{6}$	6.9155	6.4210	6.3999	6.0437	6.0006					
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$	.047824	.041229	.040958	.036526	.036008					
1	$L/H(F_rQ_m)^2$		.000566	.000566	.000566	.000566	.000566					
13		$\bar{11}+\bar{12}$	.048390	.041795	.041524	.037092	.036574					
14	I_n	$\bar{10}\div\bar{13}$	142.911	153.631	154.125	162.938	164.068					
15	$M=P_n-P_{n-1}$			525	506	505	473					
16	$N=I_n+I_{n-1}$			296.542	297.036	317.063	318.193					
17	M x N	$\bar{15}\times\bar{16}$			150437		150473					
18	$\sum(M\times N)$	$\sum\bar{17}$			149938							

WORK SHEET FOR STEPWISE CALCULATION ~~(SUBSURFACE)~~ (SURFACE) PRESSURE ~~(XXXXX)~~ (P_c & P_w) 3rd

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11/13/82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018231 Q_m 0 M^2cfd $(L/H)(F_rQ_m)^2$ 0 P_{cr} 672 T_{cr} 346

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13962	6981		0						
	GH		8010	4005		0						
3	37.5GH		300375	150187		0						
4	P_c or P_n		3634.9	3206.8	3192.2	2751.5	2717.7	2719.9		PW = 2721.4		
5	P_r		5.41	4.77	4.75	4.09	4.04	4.05				
6	T		674	604	604	534	534	534				
7	T_r		1.95	1.75	1.75	1.54	1.54	1.54				
8	Z		.946	.870	.870	.779	.777	.777				
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3842.4	3686.0	3669.2	3532.1	3497.7	3500.5				
10	P/TZ	$\bar{9}\div\bar{6}$	5.7009	6.1026	6.0749	6.6144	6.5499	6.5553				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
	$L/H(F_rQ_m)^2$											
13		$\bar{11}+\bar{12}$										
14	I_n	$\bar{10}\div\bar{13}$	175.410	163.865	164.611	151.185	152.675	152.549				
15	$M=P_n-P_{n-1}$			428	443	441	475	472				
16	$N=I_n+I_{n-1}$			339.275	340.021	315.797	317.287	317.160				
17	M x N	$\bar{15}\times\bar{16}$			150518			149798				
18	$\sum$(M x N)	$\sum\bar{17}$			149857							

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) ~~(SURFACE)~~ PRESSURE (P_f & P_s) ~~(P_c & P_w)~~ 3rd

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11-13-82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018230 Q_m 1.880 M^2cfd (L/H) $(F_rQ_m)^2$ .001174 P_{cr} 672 TABLE IX B 7 T_{cr} 346 TABLE IX B 7

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	.6981		13962						
2	GH		0	4005		8010						
3	37.5GH		0	150187		300375						
4	P_c or P_n		2695.2	3197.2	3181.4	3665.3	3637.9			PS = 3634.9		
5	P_r		4.01	4.76	4.73	5.45	5.41					
6	T		534	604	604	674	674					
7	T_r		1.54	1.75	1.75	1.95	1.95					
8	Z		.776	.870	.870	.947	.946					
9	P/Z P/Z	$\overline{4}\div\overline{8}$	3473.2	3674.9	3656.8	3870.4	3845.6					
10	P/TZ	$\overline{9}\div\overline{6}$	6.5041	6.0843	6.0543	5.7424	5.7056					
11	$(P/TZ)^2/1000$	$(\overline{10})^2/1000$	.042303	.037018	.036654	.032975	.032554					
12	$L/H(F_rQ_m)^2$		.001174	.001174	.001174	.001174	.001174					
13		$\overline{11}+\overline{12}$	.043477	.038192	.037828	.034149	.033728					
14	I_n	$\overline{10}\div\overline{13}$	149.599	159.308	160.047	168.158	169.164					
15	$M=P_n-P_{n-1}$			502	486	484	457					
16	$N=I_n+I_{n-1}$			308.907	309.646	328.205	329.211					
17	M x N	$\overline{15}\times\overline{16}$			150546		150288					
18	$\sum$(M x N)	$\sum\overline{17}$			149829							

WORK SHEET FOR STEPWISE CALCULATION ~~(SUBSURFACE)~~ (SURFACE) PRESSURE ~~XXXXX~~ (P_c & P_w) 4th

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11/13/82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .01823 Q_m 0 M^2cfd $(L/H)(F_rQ_m)^2$ 0 P_{cr} 672 TABLE 1A & B T_{cr} 346 TABLE 1A & B

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13962	6981		0						
	GH		8010	4005		0						
3	37.5GH		300375	150187		0						
4	P_c or P_n		3292.4	2898.8	2886.7	2482.6	2453.8	2455.9		PW = 2457.3		
5	P_r		4.90	4.31	4.30	3.69	3.65	3.65				
6	T		674	604	604	534	534	534				
7	T_r		1.95	1.75	1.75	1.54	1.54	1.54				
8	Z		.932	.861	.861	.772	.771	.771				
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3532.6	3366.8	3352.7	3215.8	3182.6	3185.4				
10	P/TZ	$\bar{9}\div\bar{6}$	5.2413	5.5742	5.5509	6.0222	5.9599	5.9651				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
	$L/H(F_rQ_m)^2$											
13		$\bar{11}+\bar{12}$										
14	I_n	$\bar{10}\div\bar{13}$	190.791	179.397	180.150	166.052	167.787	167.642				
15	$M=P_n-P_{n-1}$			394	406	404	433	431				
16	$N=I_n+I_{n-1}$			370.188	370.941	346.202	347.937	347.792				
17	M x N	$\bar{15}\times\bar{16}$			150493			149820				
18	$\sum$(M x N)	$\sum\bar{17}$			149882							

WORK SHEET FOR STEPWISE CALCULATION (SUBSURFACE) (~~SURFACE~~) PRESSURE (P_f & P_s) (~~P_c & P_w~~) 4th

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11-13-82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018230 Q_m 2.591 M^2cfd (L/H) $(F_rQ_m)^2$ .002231 P_{CT} 672 (TABLE 15 & 2) T_{CT} 346 (TABLE 15 & 2)

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		0	.6981		13962						
2	GH		0	4005		8010						
3	37.5GH		0	150187		300375						
4	P_s or P_n		2403.2	2870.2	2859.1	3313.9	3294.3			PS = 3292.4		
5	P_r		3.58	4.27	4.25	4.93	4.90					
6	T		534	604	604	674	674					
7	T_r		1.54	1.75	1.75	1.95	1.95					
8	Z		.771	.860	.859	.933	.932					
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3117.0	3337.5	3328.4	3551.8	3534.6					
10	P/TZ	$\bar{9}\div\bar{6}$	5.8371	5.5256	5.5106	5.2698	5.2442					
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$	.034071	.030532	.030366	.027771	.027502					
12	$L/H(F_rQ_m)^2$		.002231	.002231	.002231	.002231	.002231					
13		$\bar{11}+\bar{12}$	.036302	.032763	.032597	.030002	.029733					
14	I_n	$\bar{10}\div\bar{13}$	160.792	168.654	169.051	175.648	176.378					
15	$M=P_n-P_{n-1}$			467	456	455	435					
16	$N=I_n+I_{n-1}$			329.446	329.843	344.699	345.429					
17	M x N	$\bar{15}\times\bar{16}$			150368		150325					
18	Σ(M x N)	$\Sigma\bar{17}$			150007							

WORK SHEET FOR STEPWISE CALCULATION ~~(SUBSURFACE)~~ (SURFACE) PRESSURE ~~(P_t & P_b)~~ (P_c & P_w) 5th

Form C-122-E
Adopted 9-1-65

COMPANY Perry R. Bass LEASE Poker Lake UNIT WELL NO. 59 DATE 11/13/82

LOCATION: Unit N Section 8 Township 24S Range 30E

13962 H 13962 L/H 1.000 G .5737 % CO_2 1.500 % N_2 .553 % H_2S

d 1.995 F_r .018236 Q_m 0 M^2cfd (L/H) $(F_rQ_m)^2$ 0 P_{cr} 672 TABLE IX & X T_{cr} 346 TABLE IX & X

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		13962	6981		0						
	GH		8010	4005		0						
3	37.5GH		300375	150187		0						
4	P_c or P_n		3153.4	2774.4	2763.0	2374.2	2347.5	2349.8		PW = 2350.8		
5	P_r		4.69	4.13	4.11	3.53	3.49	3.50				
6	T		674	604	604	534	534	534				
7	T_r		1.95	1.75	1.75	1.54	1.54	1.54				
8	Z		.927	.857	.857	.771	.771	.771				
9	P/Z P/Z	$\bar{4}\div\bar{8}$	3401.7	3237.3	3224.0	3079.3	3044.8	3047.7				
10	P/TZ	$\bar{9}\div\bar{6}$	5.0471	5.3598	5.3378	5.7666	5.7018	5.7073				
11	$(P/TZ)^2/1000$	$(\bar{10})^2/1000$										
1	$L/H(F_rQ_m)^2$											
13		$\bar{11}+\bar{12}$										
14	I_n	$\bar{10}\div\bar{13}$	198.133	186.575	187.344	173.411	175.384	175.215				
15	$M=P_n-P_{n-1}$			379	390	389	415	413				
16	$N=I_n+I_{n-1}$			384.707	385.476	360.755	362.728	362.559				
17	M x N	$\bar{15}\times\bar{16}$			150487			149818				
18	$\sum$(M x N)	$\sum\bar{17}$			149888							