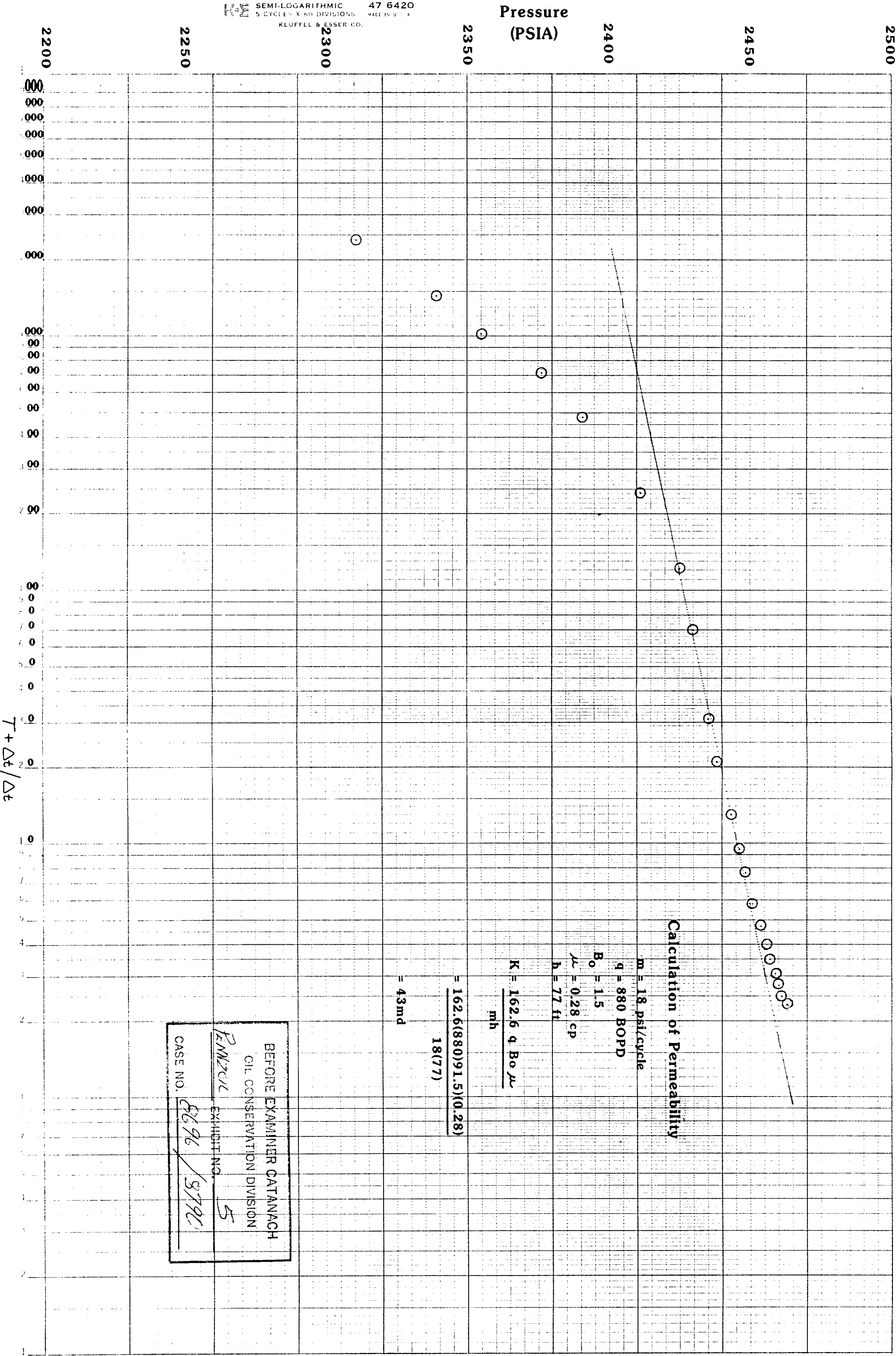


EXHIBIT

Average Reservoir Parameters
Shipp Field

Permeability:	k	45 md
Formation Volume Factor:	Bo	1.50 Reservoir Barrel Stock Tank Barrel
Porosity:	ϕ	8%
Water Saturation:	Sw	15% 12-25%
Recovery Factor:	R.F.	25%
Reservoir Temp:	T	160°F
Oil Viscosity:	μ	.28 cp (Res. Cond.)
Oil Gravity:	γ	45° API (Corr.)

BEFORE EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
<u>PENNYZOL</u>	EXHIBIT NO. <u>4</u>
CASE NO. <u>8696 / 8790</u>	



BEFORE EXAMINER CATANACH

OIL CONSERVATION DIVISION

PENNZOIL EXHIBIT NO. 6

ROTARY ENGINEERS LABORATORIES

WHOLE CORE ANALYSIS TABULAR DATA NO. 8696/8790

COMPANY Pennzoil Company	WELL Virson #2	FIELD Shipp
COUNTY Lea	STATE New Mexico	DATE 11-18-85
FORMATION Strawn	TYPE ANALYSIS Whole Core - Vertical Permeabilities	ANALYST DRM
REMARKS 2 Sets of Slabs * Plug Vertical Permeability	ELEVATION 3773.9' G.L.	JOB NO. R-7495

SAMPLE NUMBER	DEPTH	RATING	DENSITY GRAIN	PORO-SITY	VERT. PERM.	WHOLE CORE PERMEABILITY MAX. 90°	FLUIDS SW	FLUIDS SO	FLO.	REMARKS
										Core # (1) 11,068-11,098', Cut & Recovered 30'
1	11068-11069	F	2.71	8.7	0.66	1.46 0.62	29.6	8.8	100	Limestone, Vugs, Fr.
2	11069-11070	F	2.71	9.2	4.11	57.21 8.33	31.1	10.1	100	Limestone, Vugs, Fr.
3	-71	F	2.71	9.8	12.75	7.40 6.54	27.9	11.0	100	Limestone, Vugs
4	-72	F	2.70	7.4	0.54	1.56 1.00	28.0	10.3	100	Limestone, Vugs
5	-73	F	2.70	5.7	2.83	27.56 8.14	31.7	2.5	100	Limestone, Vugs
6	-74	F	2.71	7.9	64.28	140.89 63.07	32.7	9.9	100	Limestone, Vugs, Fr.
7	11074-11075	F	2.71	7.9	1.18	2.57 1.68	34.3	9.9	100	Limestone, Vugs, Fr.
8	-76	F	2.70	10.5	1.34	58.40 45.28	32.0	10.4	100	Limestone, Vugs, Fr.
9	-77	F	2.70	9.5	0.50	22.41 4.22	28.1	9.4	100	Limestone, Vugs, Fr.
10	-78	F	2.70	10.9	30.17	48.55 35.20	26.3	10.3	100	Limestone, Vugs, Fr.
11	-79	F	2.71	8.5	1203.07	539.59 472.62	33.3	13.3	100	Limestone, Vugs, Fr.
12	11079-11080	F	2.70	13.4	604.99	673.51 516.82	34.4	10.1	100	Limestone, Vugs
13	-81	F	2.72	10.8	4.31	191.95 171.19	32.4	9.9	100	Limestone, Vugs
14	-82	F	2.70	10.8	11.75	48.37 39.71	34.8	11.7	100	Limestone, S/P, Vugs
15	-83	F	2.70	10.8	18.57	22.03 16.34	37.7	11.5	100	Limestone, S/P, Vugs
16	-84	F	2.71	9.4	0.20	289.30 168.08	41.6	9.5	100	Limestone, S/P, Vugs, Fr.
17	11084-11085	F	2.63	7.5	* 0.40	0.07 Plug	39.7	10.8	100	Limestone, Vugs, Fr.
18	-86	F	2.74	11.3	* 0.76	7.38 Plug	32.6	10.4	100	Limestone, Stylolites, Vugs, Fr.
19	-87	F	2.76	11.1	* 0.16	2.80 Plug	40.0	13.3	100	Limestone, Vugs, Fr.
20	-88	F	2.70	10.6	6.48	262.65 209.50	38.3	12.5	100	Limestone, Vugs
21	-89	F	2.70	9.4	1.67	10.04 2.59	35.8	11.3	100	Limestone, Vugs
22	11089-11090	F	2.71	8.9	1.02	42.52 38.25	36.8	8.4	100	Limestone, Vugs
23	-91	F	2.71	13.1	40.20	393.07 81.28	37.4	10.8	Sp.	Limestone, Vugs
24	-92	F	2.70	11.7	9.71	71.93 63.44	35.8	10.5	Sp.	Limestone, Vugs
25	-93	F	2.70	10.1	3.87	20.33 18.92	33.0	8.5	Sp.	Limestone, Vugs
26	-94	F	2.70	7.4	11.02	42.50 32.65	32.8	8.9	Sp.	Limestone, Vugs
27	11094-11095	F	2.68	6.3	0.38	0.61 0.58	32.6	8.1	Sp.	Limestone, Vugs
28	-96	F	2.71	8.9	0.93	69.67 12.23	28.7	10.7	Sp.	Limestone, Vugs
29	-97	F	2.71	10.0	6.32	8.93 7.09	26.8	8.3	Sp.	Limestone, S/P, Vugs
30	11097-11098	F	2.73	9.5	8.03	18.85 10.55	29.5	9.1	Sp.	Limestone, Vugs

LITHOLOGICAL ABBREVIATIONS

Fr.-----Fracture

S/P-----Shale Partings

Sp.-----Spotty

FLUIDS Sw-----Total Water Saturation %P.V.

FLUIDS So-----Residual Oil Saturation %P.V.

EXHIBIT

Economic Comparison of 40 and 80 Acre Spacing

	<u>40 Acre</u>	<u>80 Acre</u>
Number of Wells	2	1
Total Well Cost	1400 M\$	700 M\$
Gross Oil Reserves	500 MB	500 MB
Gross Gas Reserves	582 MMCF	582 MMCF
Total Producing Life	4 Years	9 Years
Initial Oil Rate	640 BOPD	445 BOPD
Payout Time	0.5 Years	0.5 Years
Cash Flow/Investment	2.05 \$/\$	5.87 \$/\$
Present Value/Investment	1.73 \$/\$	3.99 \$/\$
Capital Investment/Equiv. Barrel	2.93 \$/Bbl	1.47 \$/Bbl

BEFORE EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
PENNZOIL	EXHIBIT NO. <u>7</u>
CASE NO. <u>8696/8790</u>	