STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

CP File

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
JUL 05 1983
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6/17/83	
Company: McClellan Oil Corporation ✓			Connection: Air		Unit
Pool: Pecos Slope Abo			Formation: ABO		
Completion Date: 6/14/83	Total Depth: 4128'		Plug Back TD: 4081'	Elevation: 3848'	Farm or Lease Name: MOC FEDERAL
Csg. Size: 4½" / Wt.: 10.5 / d: / Set At: 4128'			Perforations: From 3800' To 3844'		Well No.: 6
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: / Set At: ~~3760'~~ 3951			Perforations: From To		Unit: H / Sec.: 30 / Twp.: 5S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At:		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F:	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
		.65					4.026	FIG

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	4.026	1.875				985		985		
1.	4.026	1.875	205	12	70	900		900		1 hour
2.	4.026	1.875	220	24	76	800		800		1 hour
3.	4.026	1.875	250	48	80	550		550		1 hour
4.	4.026	1.875	260	62	74	355		355		1 hour
5.										

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	22.9	49.60	205	.9905	1,240		1395
2.	22.9	72.66	220	.9850	1,240		2032
3.	22.9	109.54	250	.9813	1,240		3052
4.	22.9	126.96	260	.9868	1,240		3558
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

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

P_c 985 P_c^2 970.22

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		900	810	160
2		800	640	330
3		550	302.5	668
4		355	126.	844
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.15$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.09$

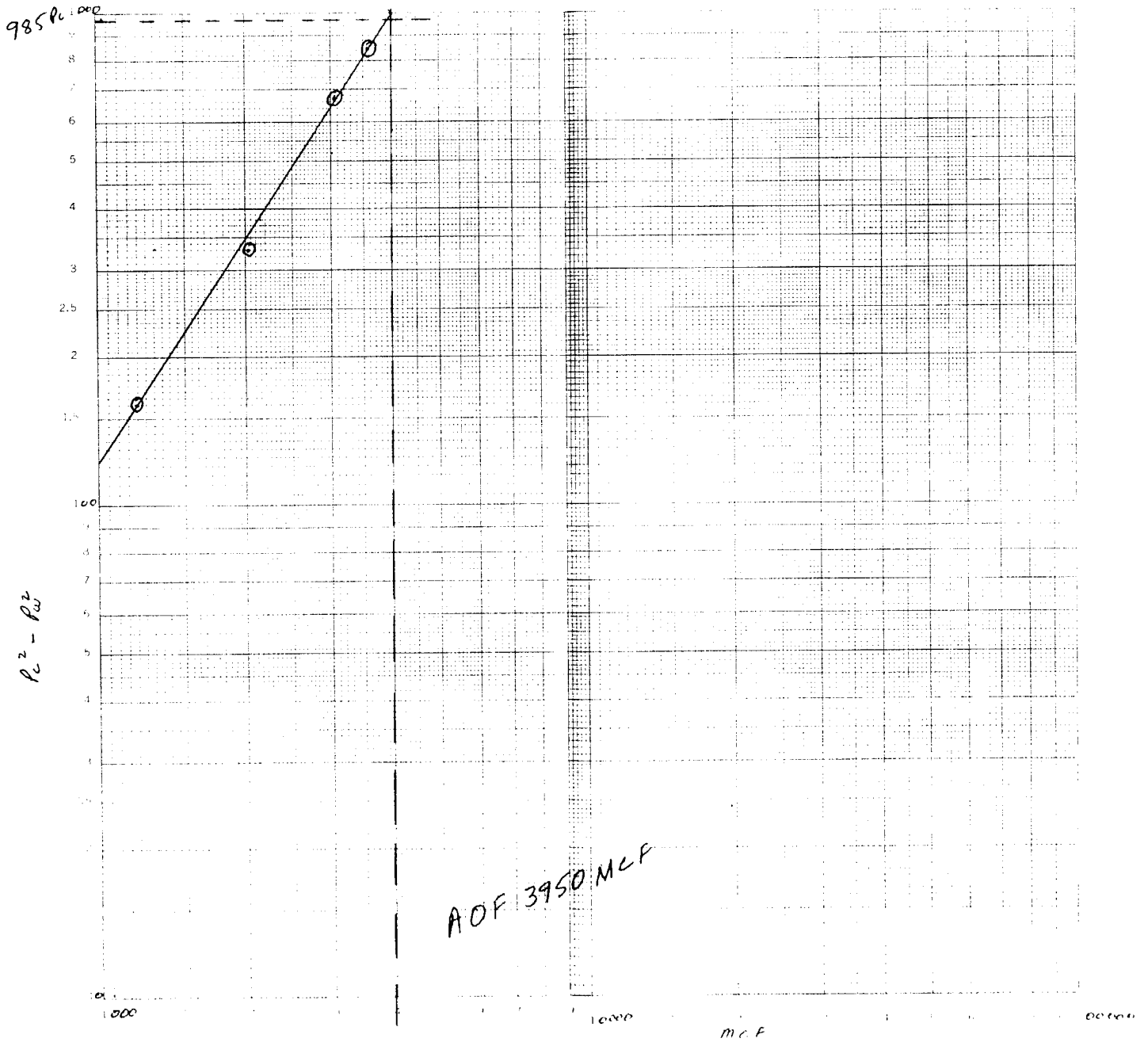
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,950$

Post ID-2
7-8-83
Temp & BH

Absolute Open Flow 3,950 Mcfd @ 15.025 | Angle of Slope θ 57 | Slope, n .649

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
		Rick Hipp	


985 Pc
1000
8
7
6
5
4
3
2.5
2
100
$P_c^2 - P_w^2$
AOF 3950 MCF
1000
10000
MCF

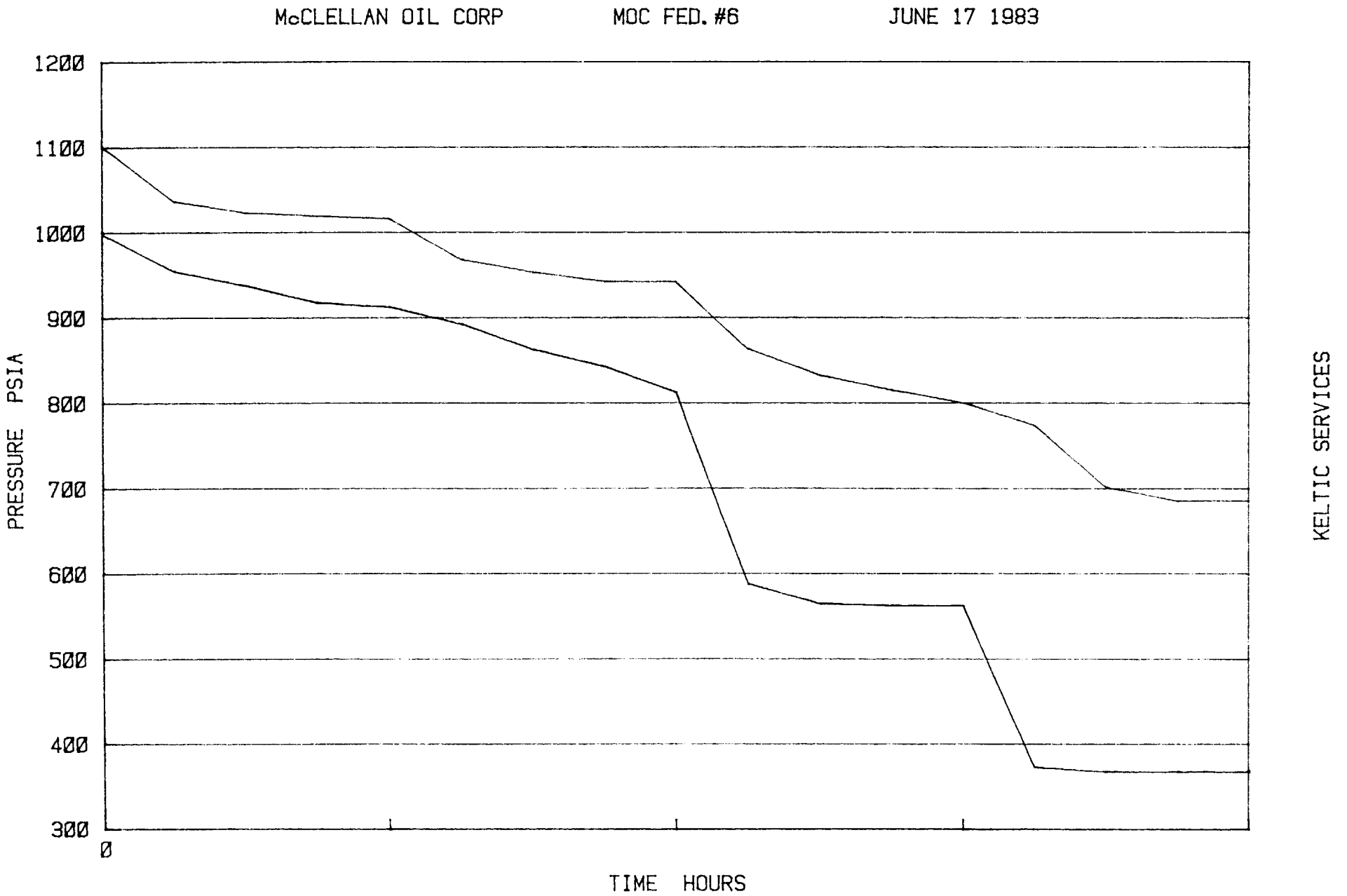
KELTIC SERVICES INC

COMPANY McCLELLAN OIL CORP
LEASE MOC FED.
FIELD PECOS SLOPE
DEPTH 3820 FEET
TUBING PRESSURE 355 PSIG
FLOW RATE 2397 MSCFPD
BOMB NUMBER 792

DATE JUNE 17-18 1983
WELL NUMBER #6
FORMATION ABO
PRODUCTION TIME 3 HOURS
CASING PRESSURE 355 PSIG
TOTAL PRODUCTION 285 MSCF
OPERATOR CHUCK

POINT	TIME HOURS	PRESSURE PSIA	T+T1/T1
1	0.00	685.20	0.0000
2	.25	958.20	12.4143
3	.50	1010.20	6.7071
4	.75	1021.20	4.8048
5	1.00	1031.20	3.8536
6	1.25	1037.20	3.2829
7	1.50	1043.20	2.9024
8	1.75	1047.20	2.6306
9	2.00	1052.20	2.4268
10	2.50	1055.20	2.1414
11	3.00	1058.20	1.9512
12	4.00	1068.20	1.7134
13	5.00	1070.20	1.5707
14	10.00	1076.20	1.2854
15	15.00	1081.20	1.1902
16	20.00	1083.20	1.1427
17	24.00	1085.20	1.1189

THANK YOU


McCLELLAN OIL CORP
MOC FED. #6
JUNE 17 1983
1200
1100
1000
900
800
700
600
500
400
300
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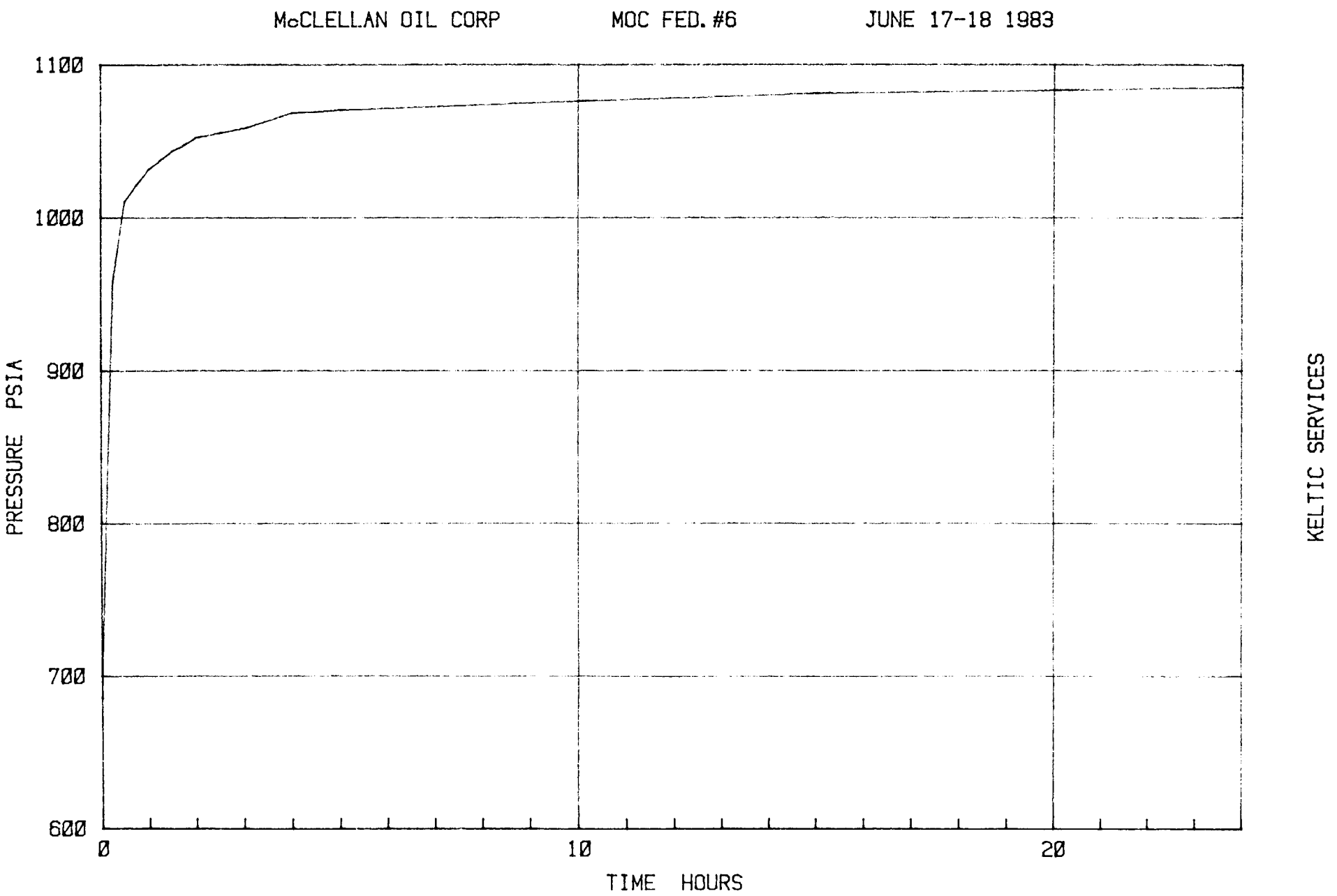
PRESSURE PSIA
TIME HOURS
KELTIC SERVICES


McCLELLAN OIL CORP
MOC FED. #6
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