

DEC 12 1983

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

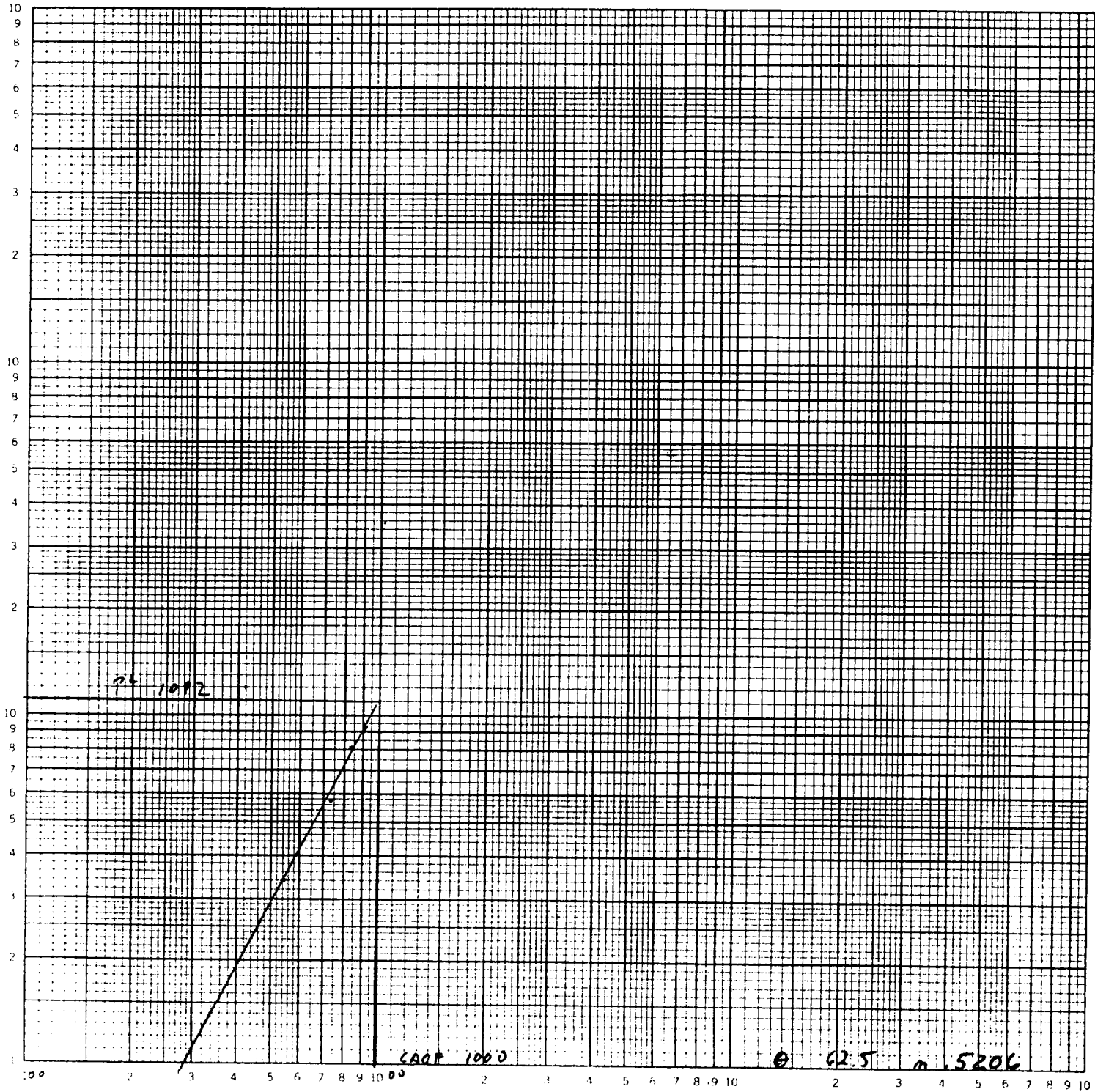
BUREAU RECEIVED
NOV 30 1983
DIST 6 N. M.
NEW MEXICO

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10/25/83		ARTESIA, OFFICE	
Company McCellan Oil Corp. ✓		Connection AIR			
Pool South Pecos Slope Abo		Formation ABO		Unit	
Completion Date 10/20/83		Total Depth 4550		Plug Back TD 4434	
Elevation 3702		Farm or Lease Name RJ F.S. Conn.		Well No. 2	
Cas. Size 4 1/2	Wt. 10.5	d	Set At 4500	Perforations: From 4189 To 4336	Well No. 2
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 4125	Perforations: From OPEN To ENDED	Unit B
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 92 @ 4000		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico			
L	H	G _g .638	% CO ₂	% N ₂	% H ₂ S
Prover.		Meter Run 3		Taps PIPE	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	3		1.375	200	7
2.	3		1.375	200	14
3.	3		1.375	200	18
4.	3		1.375	200	22
5.					
TUBING DATA					
				Press. p.s.i.g.	Temp. °F
CASING DATA					
				Press. p.s.i.g.	Temp. °F
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	10.49	38.632	213.2	1.009	1.252
2	10.49	54.633	213.2	1.002	1.252
3	10.49	61.949	213.2	.993	1.252
4	10.49	68.486	213.2	.993	1.252
5					
Super Compress. Factor, F _{pv}					
Rate of Flow Q, Mcfd					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R
P_c 1045 P_c^2 1092 (1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1987$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0989$ $AOF = Q \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1000$					
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	
1		866	750	342	
2		718	516	577	
3		530	281	811	
4		452	181	911	
5					
Absolute Open Flow 1000 Mcfd @ 15.025		Angle of Slope @ 62.5		Slope, n .5203	
Remarks: Bottom hole pressures recorded with Amerada type gauge					
Approved By Division					
Conducted By: Keltic Services		Calculated By: M. Kelly		Checked By:	

46 / 400

$P^2 - P^2 (000's)$

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Q
MSCFPD

KELTIC SERVICES INC

COMPANY McCLELLAN OIL CORP
 LEASE P J.
 FIELD PECOS SLOPE
 DEPTH 4351 FEET
 TUBING PRESSURE 925 PSIG
 BOMB NUMBER 192

DATE OCT 27-31 1983
 WELL NUMBER #2
 FORMATION ABO
 CASING PRESSURE 0 PSIG
 OPERATOR CHUCK

TIME	HOURS	PRESSURE	PSIA
0.00		419.20	
.25		596.20	
.50		664.20	
.75		774.20	
1.00		811.20	
1.25		858.20	
1.50		895.20	
1.75		920.20	
2.00		942.20	
2.25		958.20	
2.50		968.20	
2.75		975.20	
3.00		986.20	
3.25		989.20	
3.50		999.20	
3.75		1005.20	
4.00		1010.20	
4.25		1016.20	
4.50		1017.20	
4.75		1020.20	
5.00		1022.20	
6.00		1026.20	
7.00		1037.20	
8.00		1039.20	
9.00		1041.20	
10.00		1042.20	
15.00		1047.20	
20.00		1048.20	
30.00		1049.20	
40.00		1050.20	
50.00		1052.20	
60.00		1052.20	
70.00		1053.20	
80.00		1054.20	
90.00		1054.20	

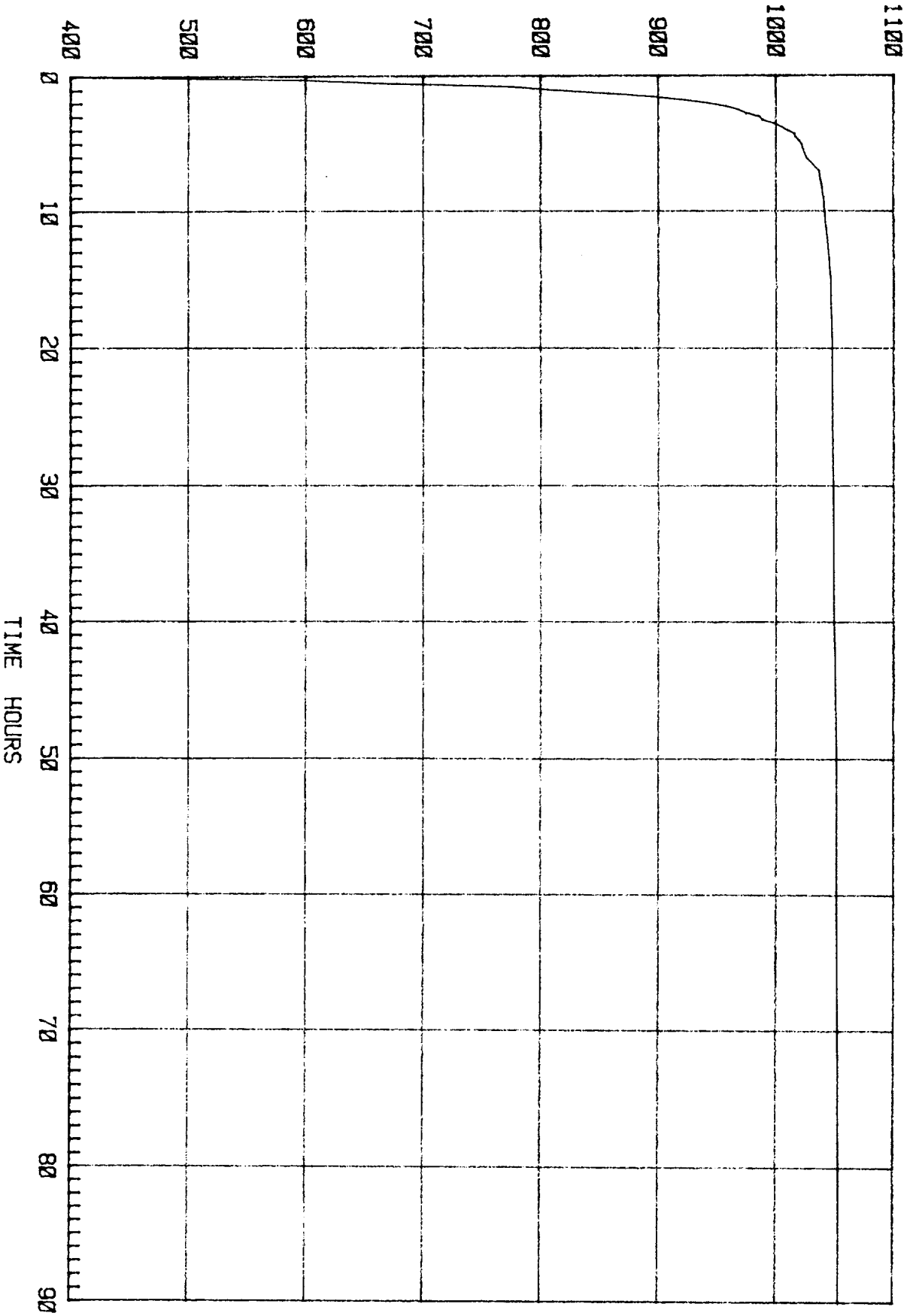
THANK YOU

McCLELLAN OIL CORP

P J. #2

OCT 27-31 1983

PRESSURE PSIA



KELTIC SERVICES