

95
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-23-87			
Company McCLELLAN OIL CORP				Connection AIR		NOV 04 '87	
Pool PECOS SLOPE ABO				Formation ABO		Unit O. C. D. ARTESIA, OFFICE	
Completion Date 10-23-87		Total Depth 3620		Plug Back TD 3180 3614		Elevation 3870	
Casing Size 4 1/2		Well No. 11.6		Perforations: From 3086 To 3123		Farm or Lease Name Toles FED.	
Tub. Size 2-3/8		Set At 3045		Perforations: From OPEN To ENDED		Well No. 4	
Type Well - Single - Blindhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Unit Sec. Twp. Rge. H 15 8S 23E	
Producing Thru TUBING		Reservoir Temp. °F 60		Baro. Press. - P _a 13.2		County CHAVES	
L		H		G _g .65		State NM	
				% CO ₂		% H ₂ S	
				% N ₂		Prover 2"	
						Meter Run	
						Taps	

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.	
SI							946			
1.	2		3/32	896		55	896			1 hr.
2.	2		1/8	835		55	828			"
3.	2		7/32	590		55	577			"
4.	2		3/8	300		55	300			"
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.1410		909.2	1.0048	1.2403	1.1006	175
2	.2648		848.2	1.0048	1.2403	1.0930	305
3	.8393		590.2	1.0048	1.2403	1.0633	656
4	1.378		313.2	1.0048	1.2403	1.0328	957
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/nbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2					Specific Gravity Separator Gas	XXXXXX
3					Specific Gravity Flowing Fluid	XXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²
1		978.2	956	106
2		904.2	817	246
3		636.2	404	659
4		345.2	119	944
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1261$

AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1050$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0972$

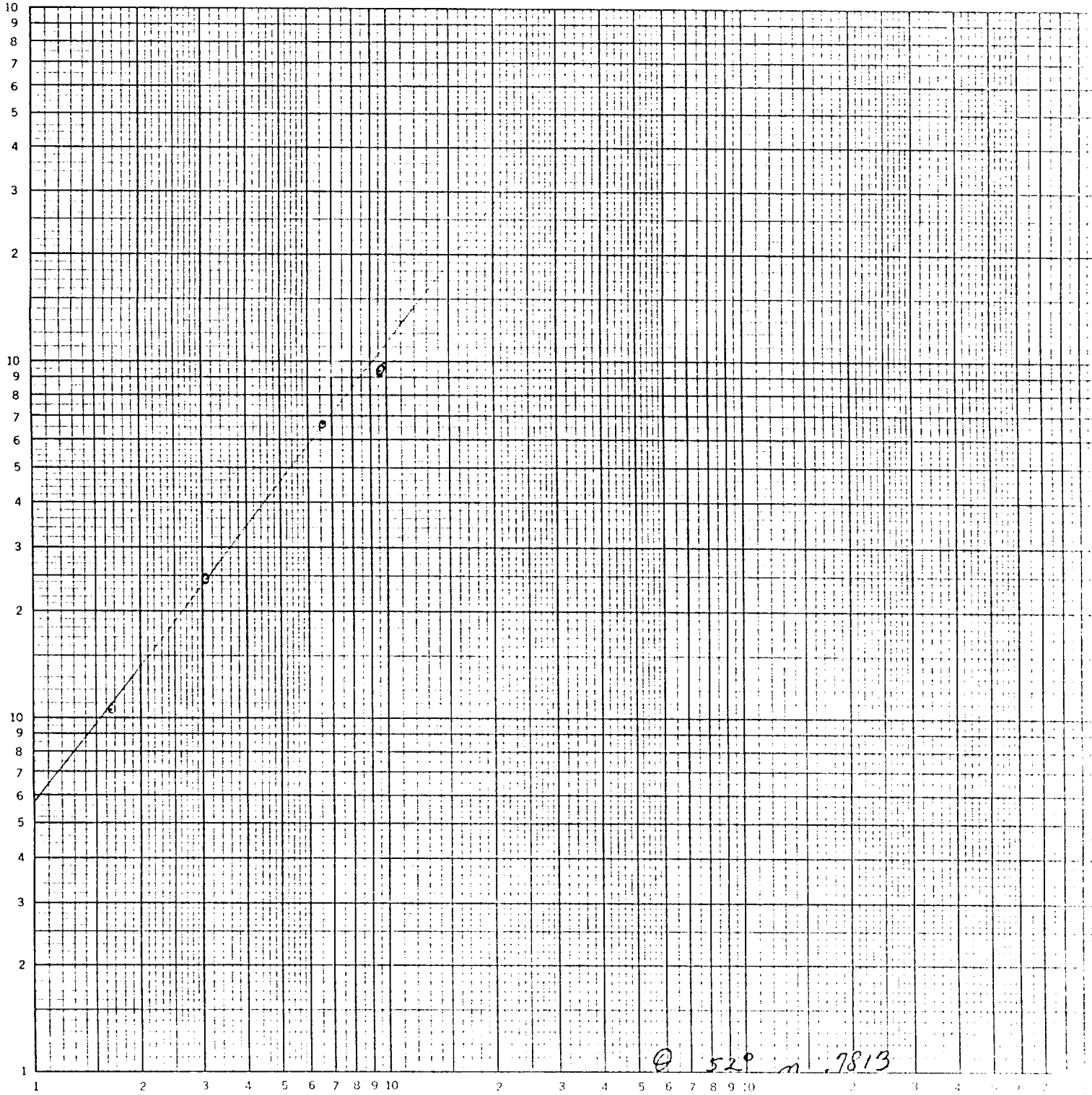
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11-20-87
comp & RBY

Absolute Open Flow	1050	Mcf @ 15.025	Angle of Slope @	52°	Slope, n	7813
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Remarks: ALL BOTTOM HOLE PRESSURES DONE WITH AMERADA TYPE GAUGE

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	MIKE KELLY	

46 7400



@ 529 m 7813

KELTIC SERVICES INC

COMPANY McCLELLAN OIL CORP
LEASE TOLES.
FIELD PECOS SLOPE
DEPTH 3045 FEET
TUBING PRESSURE 947 PSIG
BOMB NUMBER 033
TIME IN 10/23 1400

DATE 10/23-26/87
WELL NUMBER #4
FORMATION ABO
CASING PRESSURE 925 PSIG
OPERATOR MIKE
TIME OUT 10/26 1500

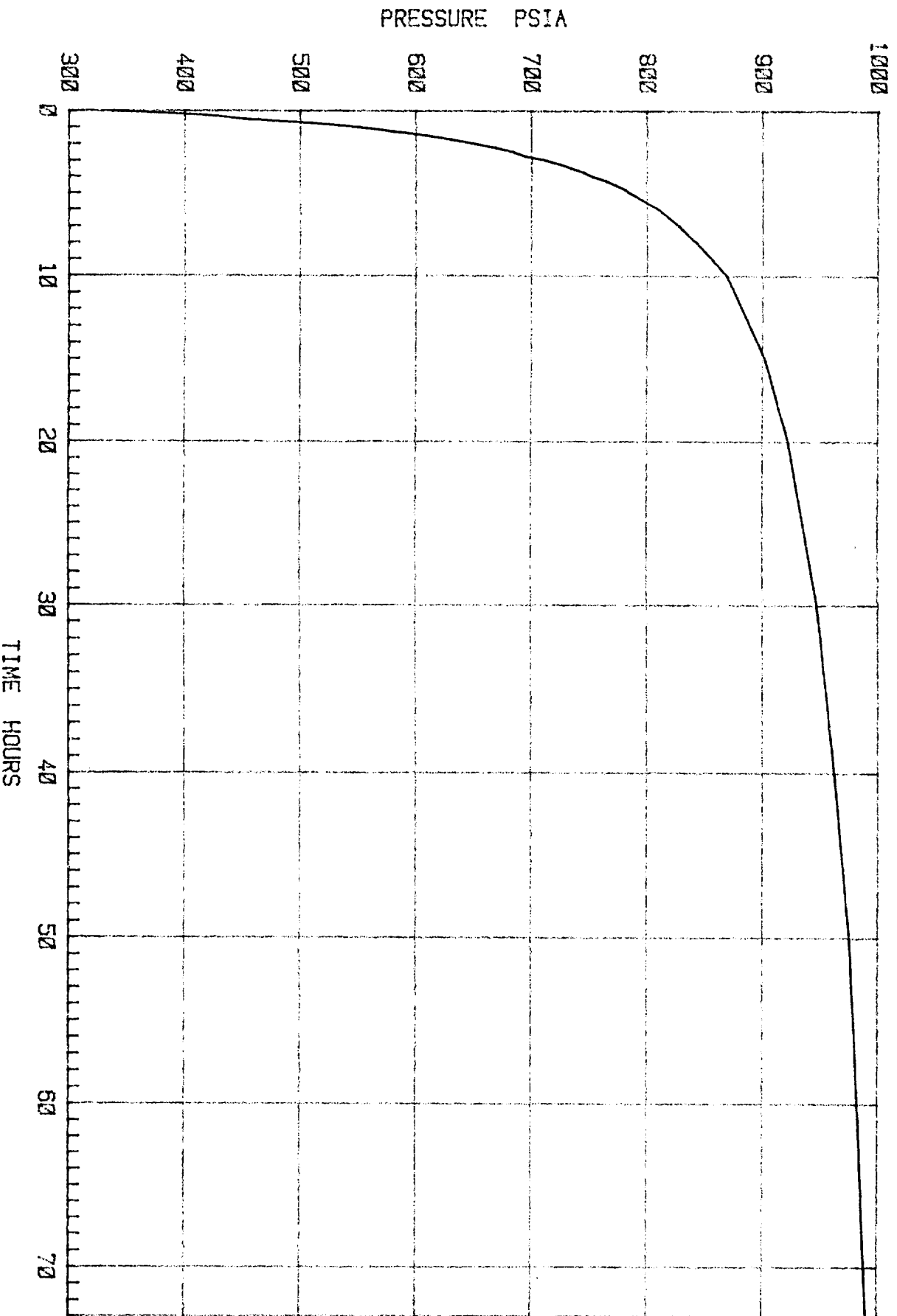
TIME	HOURS	PRESSURE	PSIA
0.00		337.20	
.25		418.20	
.50		451.20	
.75		509.20	
1.00		550.20	
1.25		580.20	
1.50		608.20	
1.75		630.20	
2.00		651.20	
2.25		669.20	
2.50		684.20	
2.75		694.20	
3.00		712.20	
3.25		724.20	
3.50		734.20	
3.75		745.20	
4.00		752.20	
4.25		764.20	
4.50		772.20	
4.75		780.20	
5.00		785.20	
6.00		810.20	
7.00		828.20	
8.00		843.20	
9.00		856.20	
10.00		869.20	
15.00		902.20	
20.00		922.20	
30.00		947.20	
40.00		962.20	
50.00		975.20	
60.00		982.20	
70.00		988.20	
73.00		990.20	

THANK YOU

McCLELLAN OIL CORP

TOLES. #4

10/23-26/87



KELTIC SERVICES

KELTIC SERVICES INC

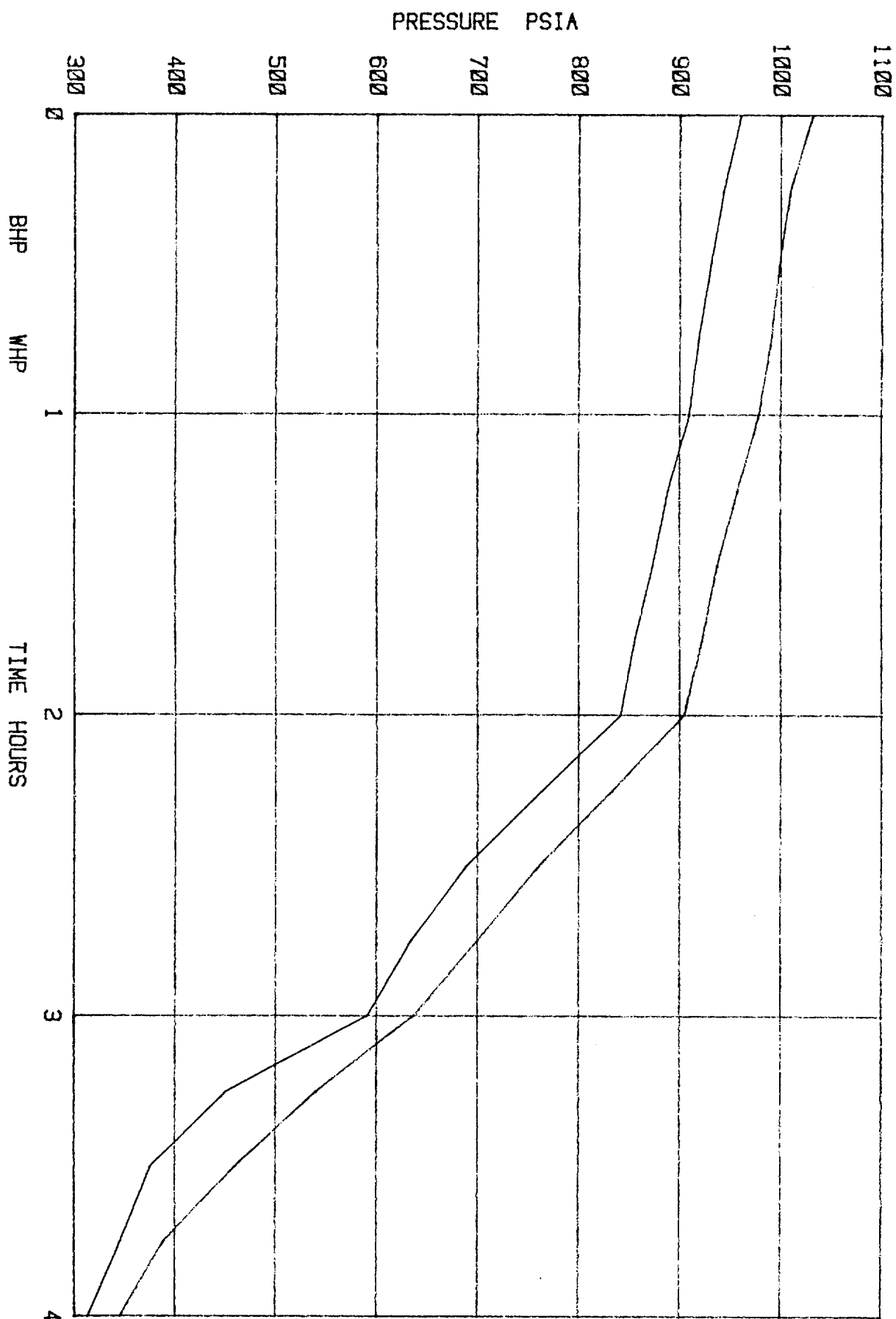
COMPANY	McCLELLAN OIL CORP	DATE	10/23/87
LEASE	TOLES.	WELL NUMBER	#4
FIELD	PECOS SLOPE	FORMATION	ABO
SHUT IN TUBING PRESSURE	947 PSIG	CASING PRESSURE	925 PSIG
BOMB NUMBER	033	OPERATOR	MIKE
		DEPTH	3045 FEET

POINT	TIME HOURS	PRESSURE B. H.	PSIA W. H.	FLOW RATE MSCFPD
01	0.00	1031.20	960.20	
02	.25	1009.20	943.20	
03	.50	998.20	930.20	
04	.75	990.20	918.20	
05	1.00	978.20	909.20	175
06	1.25	957.20	888.20	
07	1.50	937.20	873.20	
08	1.75	922.20	855.20	
09	2.00	904.20	841.20	305
10	2.25	833.20	763.20	
11	2.50	760.20	688.20	
12	2.75	699.20	633.20	
13	3.00	636.20	590.20	656
14	3.25	540.20	450.20	
15	3.50	459.20	375.20	
16	3.75	388.20	375.20	
17	4.00	345.20	313.20	957

THANK YOU

McCLELLAN OIL CORP

TOLES, #4



KELTIC SERVICES