STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-13-87	
Company: McCLELLAN OIL CORP.	Connection: AIR			
Pool: Pecos Slope Abo	Formation: ABO			Unit
Completion Date: 10/11/87	Total Depth: 4680'	Plug Back TD: 4650'	Elevation: 3732'	Farm or Lease Name: PENJACK
Csg. Size: 4½" / Wt.: 10.5 / d: / Set At: 4650'		Perforations: From 4333 To 4475		Well No.: 4
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: / Set At: 4300		Perforations: From OPEN To ENDED		Unit: K / Sec.: 6 / Twp.: 10S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F:	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.649					3	PIPE

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						915		925		
1.	3	1.75	146	205	26	860		865		1 hr.
2.	3	1.75	149	45	28	800		835		"
3.	3	1.75	148	55	38	731		822		"
4.	3	1.75	153	85	40	650		790		"
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	15.50	57.13	159.2	1.0344	1.2413	1.02	1249
2.	15.50	85.43	162.2	1.0323	1.2413	1.02	1853
3.	15.50	94.16	161.2	1.0218	1.2413	1.02	2034
4.	15.50	118.86	166.2	1.0198	1.2413	1.02	2563
5.							

NO.	P_r	Temp. °R	T_r	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 1023.2 P_c^2 1046.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		985.2	970.6	76.3
2		952.2	906.9	140.4
3		939.2	881.9	165.0
4		907.2	823.0	223.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.68$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.94$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7544$

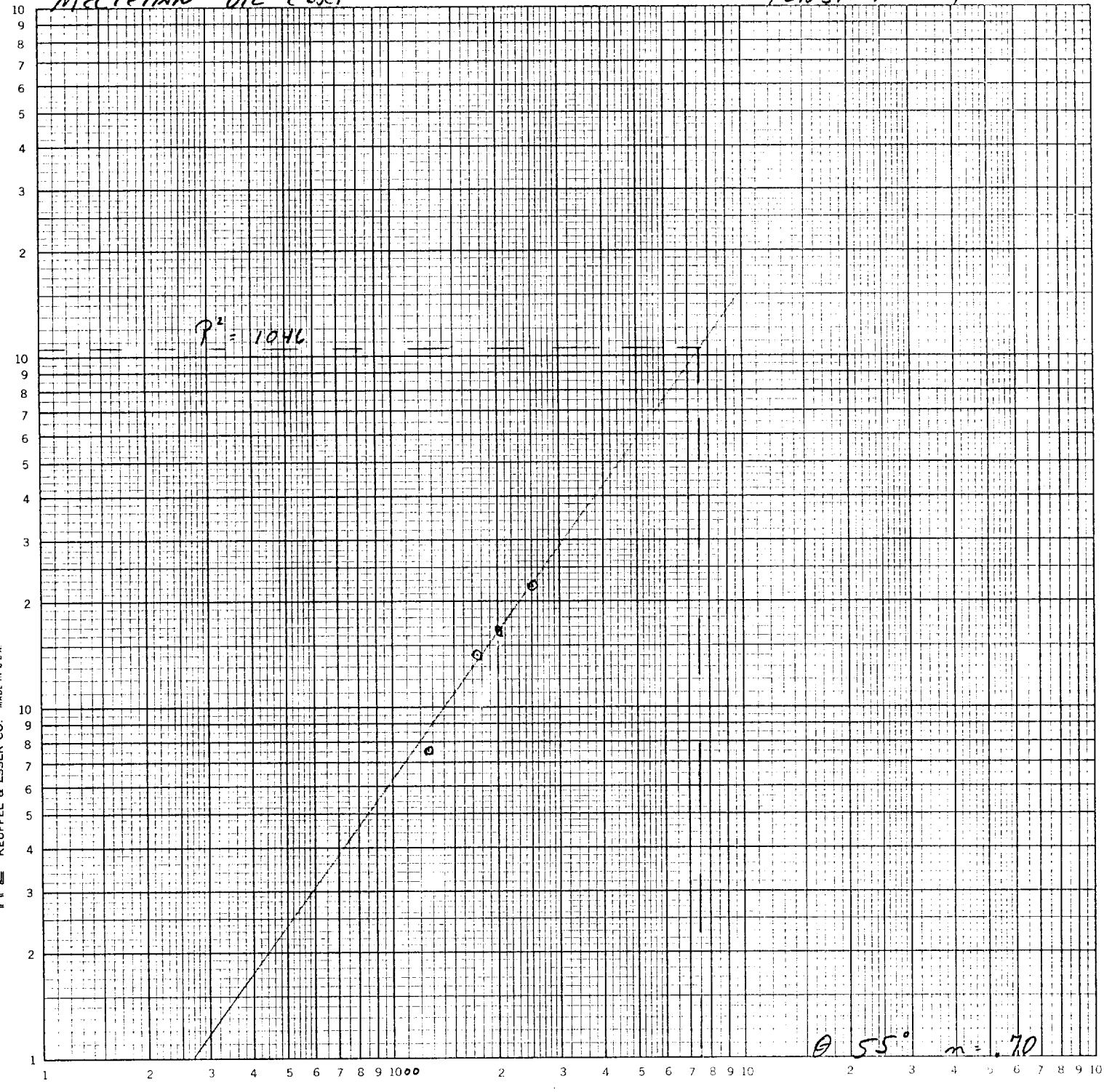
Absolute Open Flow 7544 Mcfd @ 15.025 | Angle of Slope θ 55 | Slope, n .70

Remarks: BOTTOM HOLE PRESSURES RECORDED W/AMERADA TYPE GAUGE.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	M. KELLY	

McClellan Oil Corp

Penjack #4



$P^2 - P^2_{(corr)}$ 7400

Q
MSCFPD

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

KELTIC SERVICES INC

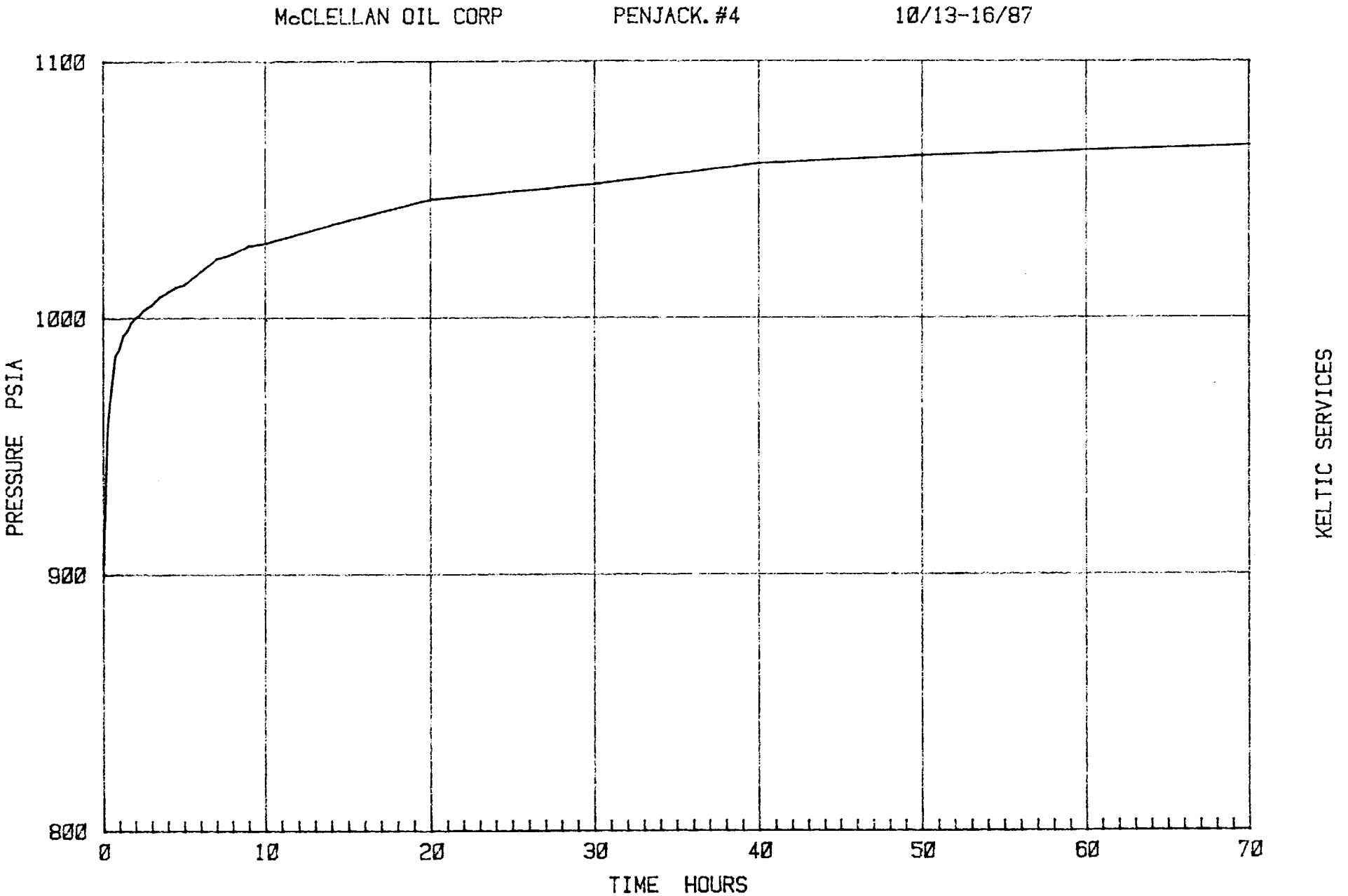
COMPANY McCLELLAN OIL CORP
LEASE PENJACK
FIELD NA
DEPTH 4300 FEET
TUBING PRESSURE 915 PSIG
BOMB NUMBER 033
TIME IN 10/13 1500

DATE 10/13-16/87
WELL NUMBER .#4
FORMATION ABO

CASING PRESSURE 910 PSIG
OPERATOR MIKE
TIME OUT 10/16 1300

TIME HOURS	PRESSURE PSIA
0.00	904.20
.25	957.20
.50	972.20
.75	985.20
1.00	988.20
1.25	993.20
1.50	995.20
1.75	998.20
2.00	1000.20
2.25	1001.20
2.50	1003.20
2.75	1004.20
3.00	1005.20
3.50	1008.20
4.00	1010.20
4.50	1012.20
5.00	1013.20
6.00	1018.20
7.00	1023.20
8.00	1025.20
9.00	1028.20
10.00	1029.20
15.00	1038.20
20.00	1046.20
30.00	1052.20
40.00	1060.20
50.00	1063.20
60.00	1065.20
70.00	1067.20

THANK YOU


McCLELLAN OIL CORP
PENJACK. #4
10/13-16/87
1100
1000
900
800
PRESSURE PSIA
0
10
20
30
40
50
60
70
TIME HOURS
KELTIC SERVICES