STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

RECEIVED BY
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ARTESIA, OFFICE

Form C-122
Revised 10-1-78

NOV 6 1986

d/sr file

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-29-86	
Company: McCLELLAN OIL CORP.	Connection: AIR			Unit
Pool: Pecos Slope Abo	Formation: ABO			
Completion Date: 10-21-86	Total Depth: 4200'	Plug Back TD: 4115'	Elevation: 3793'	Farm or Lease Name: McClellan MOC Fed.
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: 4115'		Perforations: From 3721 To 3844		Well No.: 9
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3850'		Perforations: From OPEN To ENDED		Unit: H / Sec.: 29 / Twp.: 5S / Rge.: 25E
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: .685	% CO_2:	% N_2:	% H_2S:
Prover:	Meter Run: 3"	Taps: PIPE		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							956				
1.	3	x	1	200	23		939		927		1 hr.
2.	3	x	1	200	67		919		910		"
3.	3	x	1.5	200	44		873		873		"
4.	3	x	1.5	300	84		782		820		"
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	5.118	70.026	213.2	1.027	1.2082	1.0275	457
2.	5.118	19.517	213.2	1.031	1.2082	1.0283	784
3.	12.94	78.631	213.2	1.0312	1.2082	1.0283	1304
4.	12.94	62.200	313.2	1.0198	1.2082	1.0346	2688
5.							

NO.	P_t	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 1069.2 P_c^2 1144

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1054.	1110	34
2		1035.	1072	72
3		995.	990	155
4		880.	774	340
5				

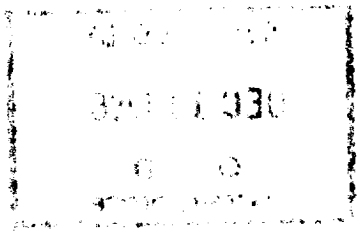
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.38$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.82$

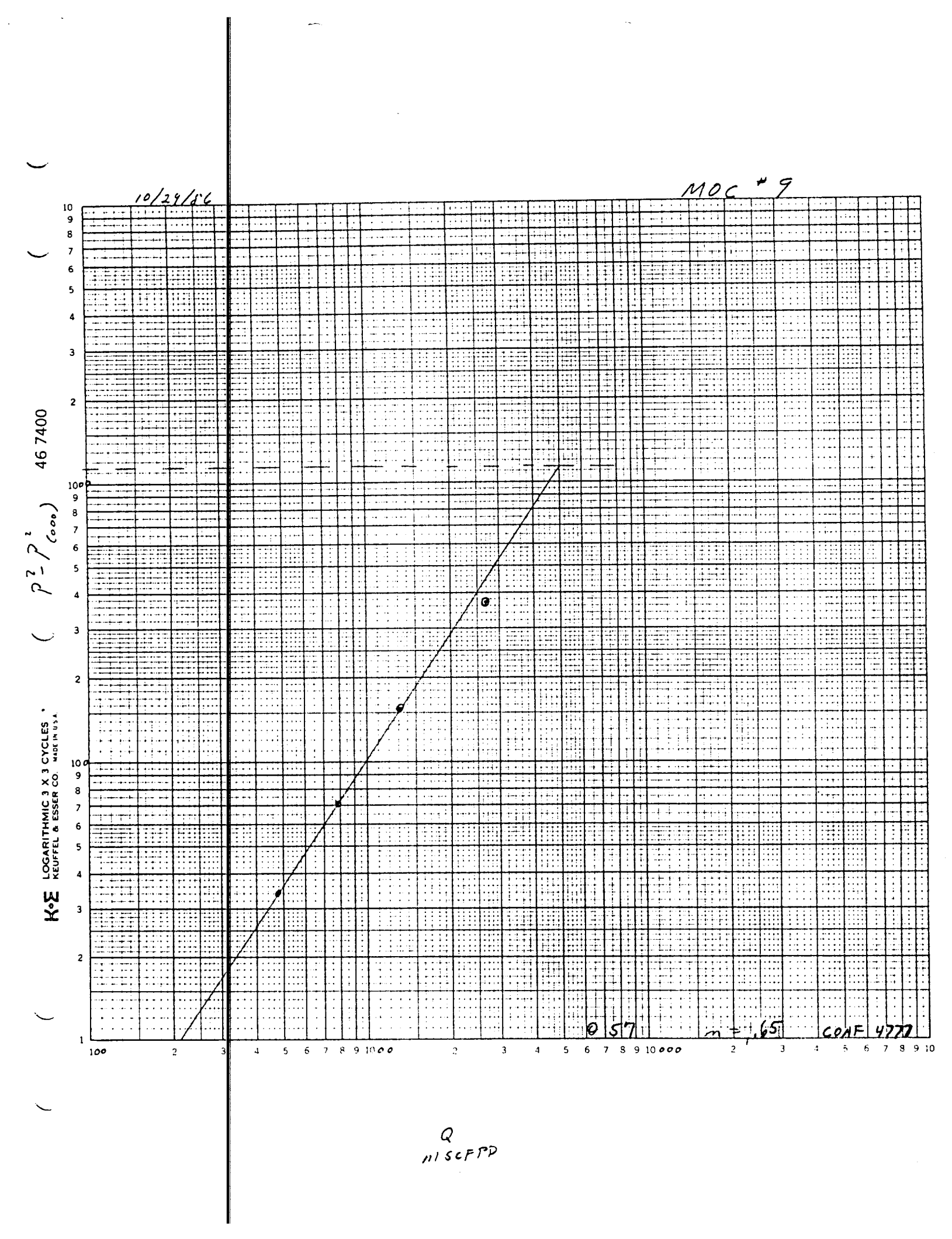
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5000$

Absolute Open Flow 5000 Mcfd @ 15.025 Angle of Slope θ 56 Slope, n .66

Remarks:

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




10/24/86
MOC #9
46 7400
$P^2 - P^2_{(000)}$
KE LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.
0.57
n = .65
COAF 4777
Q
MSCFPD

"Let Your Interest in Measurement be our Concern"

PRECISION SERVICE INC.

Flow Measurement Engineers
Analysis Results Summary
Casper, WY 82601

Run No. 1106-1
Date Run 11/06/86
Date Sampled 11/04/86

Analysis For: McCLELLAN OIL CORP.
Lease: McClellan MOC #9
Location Red Bluff
Purpose New Well
Sampling Temp. 49 °F
Volume/day
Pressure on Bomb 965

Producer McClellan Oil Corp.
County Chaves State New Mexico
Sampled By Keltic Services
Atmos Temp. °F
Formation
PSIG: Line Pressure 978.2 PSIA PSIG

Gas Component Analysis Press. Base: 14.65

	Mol. %	Liq. %	GPM Per MCF
Carbon Dioxide CO_2	.124		
Oxygen O_2			
Nitrogen N_2	6.665		
Hydrogen Sulfide H_2S			
Methane C1	83.706		14.111
Ethane C2	4.721		1.256
Propane C3	2.035		.558
Iso-Butane IC4	.415		.135
Nor-Butane NC4	.926		.290
Iso-Pentane IC5	.400		.145
Nor-Pentane NC5	.498		.179
Hexanes plus	.511		.234
Hexanes C6			
Heptanes			
Heptanes Plus C7+			
Total	100.000		16.909
Pentane + G.P.M.			.559
Propane + GPM			1.542
6-lb Gasoline			.844

BTU Dry 1087
BTU Wet 1068
Calc. Specific Gravity .678

@ Std. Press. 14.696
BTU Dry 1091
BTU Wet 1072

Calc. Vap. Press. #/Sq.In.
Reid Vap. Press. #/Sq.In.

Z Factor .9974
N Value 1.2982
Ave Mol Wt 19.6061
Ave Cu Ft/Gal

Run by Jeffrey A. Propp
Calculated By Jeffrey A. Propp

Ethane + GPM 2.798

Remarks:

Distribution:

KELTIC SERVICES INC

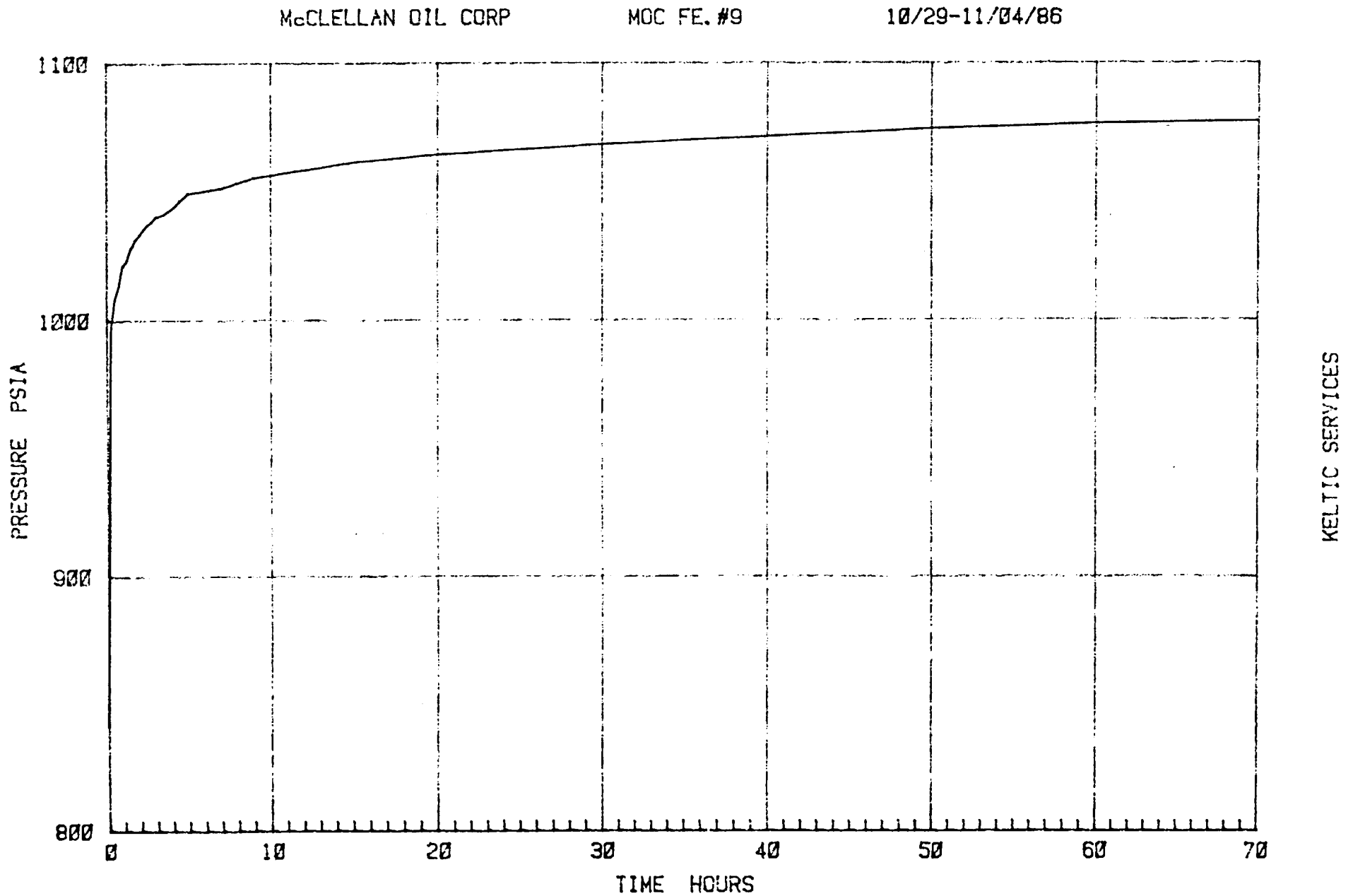
COMPANY McCLELLAN OIL CORP
LEASE MOC FE.
FIELD PECOS SLOPE
DEPTH 3800 FEET
TUBING PRESSURE 965 PSIG
BOMB NUMBER 033
TIME IN 10/29 1600

DATE 10/29-11/04/86
WELL NUMBER #9
FORMATION ABO

CASING PRESSURE 950 PSIG
OPERATOR CHUCK
TIME OUT 11/04 1200

TIME HOURS	PRESSURE PSIA
0.00	841.20
.25	995.20
.50	1008.20
.75	1013.20
1.00	1021.20
1.25	1023.20
1.50	1028.20
1.75	1031.20
2.00	1033.20
2.25	1035.20
2.50	1037.20
2.75	1038.20
3.00	1040.20
3.50	1041.20
4.00	1043.20
4.50	1046.20
5.00	1049.20
6.00	1050.20
7.00	1051.20
8.00	1053.20
9.00	1055.20
10.00	1056.20
15.00	1061.20
20.00	1064.20
30.00	1068.20
40.00	1071.20
50.00	1074.20
60.00	1076.20
70.00	1077.20

THANK YOU


McCLELLAN OIL CORP
MOC FE. #9
10/29-11/04/86
1100
1000
900
800
PRESSURE PSIA
0
10
20
30
40
50
60
70
TIME HOURS
KELTIC SERVICES