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

File

JUN 09 1983

O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 6/3/83	
Company: McCLELLEN OIL CORP			Connection: Tranwestern		
Pool: S. Pecos Slope Abo			Formation: Abo		Unit:
Completion Date: 3-18-83	Total Depth: ~~4435~~ 4510		Plug Back TD: ~~4399~~ 4464	Elevation: 3690 GR	Farm or Lease Name: Leeman Fed
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: ~~TD~~ 4510			Perforations: From ~~4259~~ 4256 To 4337		Well No.: ~~1~~ 2
Tbg. Size: 3 3/8 / Wt.: 4.7 / d: 1.995 / Set At: ~~4220~~ 4244			Perforations: From Open To ended		Unit: P / Sec.: 12 / Twp.: 9 / Rge.: 25
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 99 ~~4300~~	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico
L:	H:	Gg: .63	% CO_2:	% N_2:	% H_2S: / Prover: / Meter Run: 3" / Taps: Flange

	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							985		1000		
1.	3	X	1	145	22	60	392		480		1 hr
2.	3	X	1	145	23.8	61	361		469		"
3.	3	X	1	148	26	63	335		465		"
4.	3	X	1	165	45	64	207		358		"
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	4.789	58.99	158.2	1.000	1.25	.93	380
2.	4.789	61.36	158.2	.999	1.25	.936	392
3.	4.789	64.74	161.2	.997	1.25	.940	411
4.	4.789	89.55	178.2	.996	1.25	.964	554
5.							

NO.	P_t	Temp. °R	T_f	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 1097.2 P_c^2 1203

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		451.2	203	1001
2		417.2	174	1030
3		389.2	151	1052
4		256.2	65	1138
5				

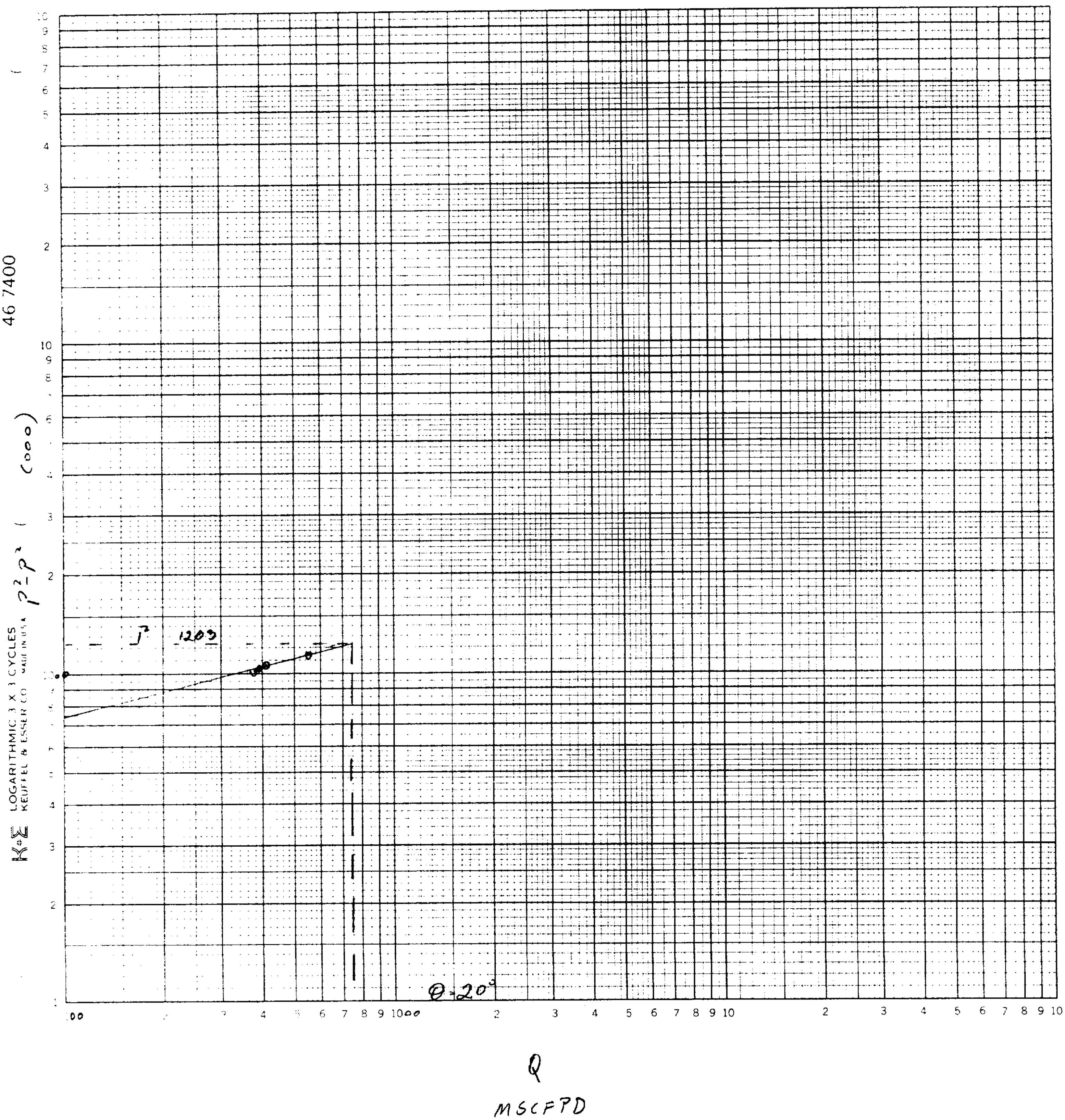
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.057$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.37$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 759$

Absolute Open Flow 759 Mcfd @ 15.025 | Angle of Slope θ 20 | Slope, n 5.67

Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	KELTIC SERVICES	Kelly	



46 7400
K+E LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.
P² - P² (000)
P̄² 1203
θ = 20°
Q
MSCFPD