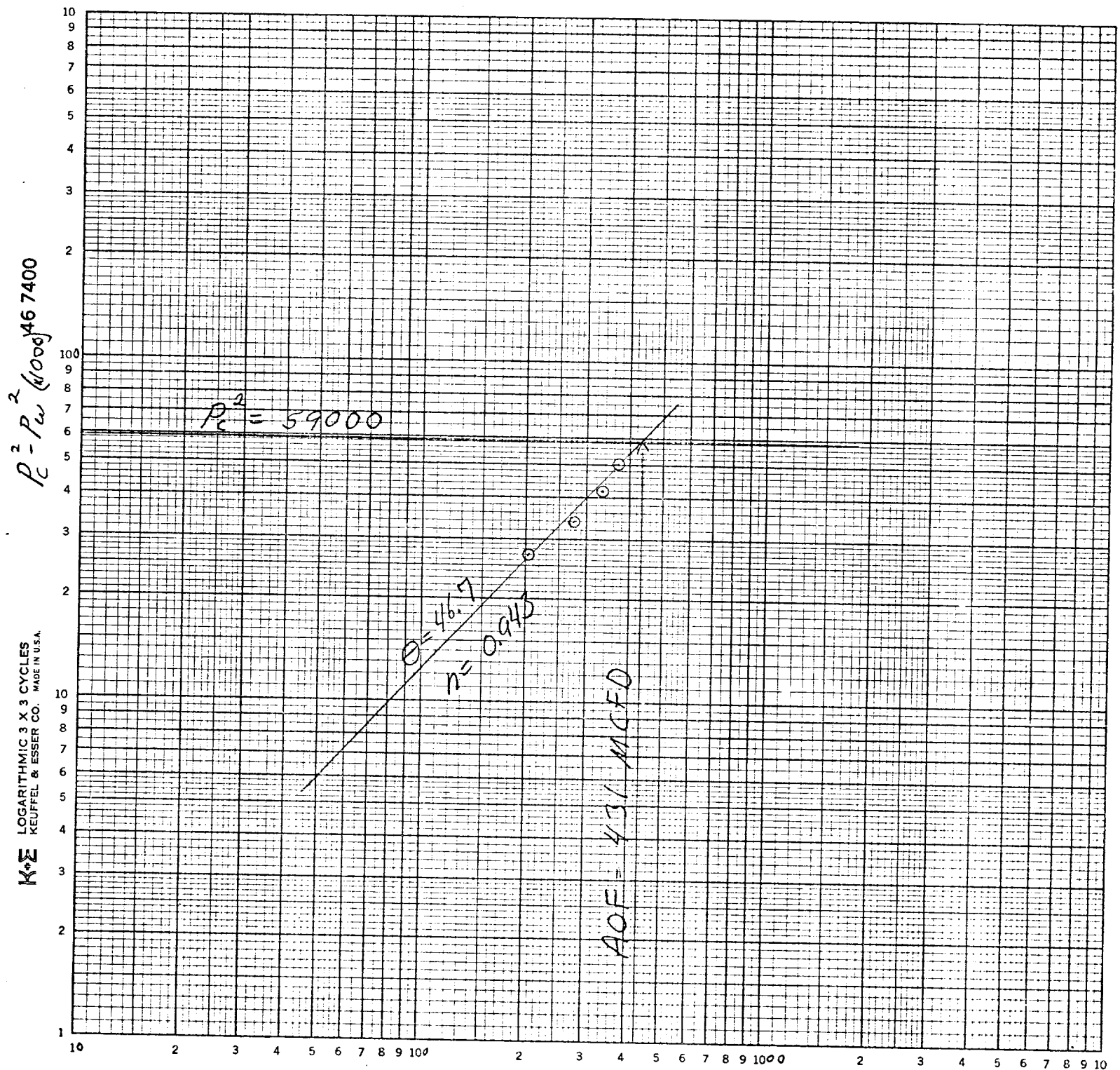


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND () POINT BACK PRESSURE TEST FC GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-6-78									
Company Amoco Production Company		Connection Northern Natural Gas Company									
Pool Langlie Mattix		Formation Queen									
Completion Date 2-5-78		Total Depth 3600.	Plug Back TD 3600.								
		Elevation 3245.	Farm or Lease Name Myers A Federal								
Csq. Size 5.500	Wt. 14.0	d 5.012	Set At 3600.								
		Perforations: From 3176. To 3252.									
Thq. Size 2.375	Wt. 4.6	d 1.995	Set At 3164.								
		Perforations: From 0. To 0.									
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 0.	Well No. 8								
Producing Thru Tubing		Reservoir Temp. *F 88. # 3214.	Mean Annual Temp. *F 60.0								
		Baro. Press. - P _g 13.2	Unit Soc. Twp. Rpt. 22 24S 37E								
L 3214.	H 3214.	G _g 0.696	% CO ₂ 2.57								
		% N ₂ 1.11	% H ₂ S 0.								
		Prover 0.	Meter Run 4.0								
			Taps Flange								
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. *F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	
SI							230.	69.			24.0
1.	4.00 x 1.500			66.	10.0	54.	70.	74.	0.	0.	1.0
2.	4.00 x 1.500			66.	8.0	54.	111.	79.	0.	0.	1.0
3.	4.00 x 1.500			66.	5.5	58.	142.	85.	0.	0.	1.0
4.	4.00 x 1.500			66.	3.0	59.	166.	86.	0.	0.	1.0
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	10.85	28.14	79.2	1.0058	1.1987	1.0088	371.				
2	10.85	25.17	79.2	1.0058	1.1987	1.0088	332.				
3	10.85	20.87	79.2	1.0019	1.1987	1.0085	274.				
4	10.85	15.41	79.2	1.0010	1.1987	1.0085	202.				
5.											
NO.	P _t	Temp. *R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	
1.	0.12	514.	1.35	0.983	0.	0.	0.696	XXXXXXX	677.	381.	
2.	0.12	514.	1.35	0.983							
3.	0.12	518.	1.36	0.983							
4.	0.12	519.	1.36	0.983							
5.											
NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²							
1	7.	93.	9.	50.							
2	15.	129.	17.	42.							
3	24.	158.	25.	34.							
4	32.	180.	32.	27.							
5											
Absolute Open Flow	431.	Mcf @ 15.025	Angle of Slope θ	46.7	Slope, n	0.943					
Remarks:											
Approved By Commission:		Conducted By: John West Engineering		Calculated By: CJT (Amoco)		Checked By: RMB (Amoco)					

Miners "A" Federal No. 8
Langlic Mathix Field
Initial AOF test



Q (MCFD)

FIELD SHEET

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-6-78						
Company Amoco Production Co.		Connection N N G Co.						
Pool Langlie Mattix		Formation Queen						
Completion Date 2-5-78		Total Depth 3600	Plug Back TD 3600					
Elevation 3245.3 Gr.		Farm or Lease Name Myers "A" Fad.						
Csg. Size 5 1/2"	Wt. 4.6 #	Set At 3600	Perforations: From 3176 To 3252'					
Well No. 8	Unit B		Sec. Twp. Rge. 22 24S 37E					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	County Lea					
Producing Thru Tubing	Reservoir Temp. °F 88 @ 3150'	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2					
L	H	G _g .6959	% CO ₂ 2.57					
		% N ₂ 1.11	% H ₂ S -0-					
Prover		Meter Run 4"	Taps Flange					
TIME	D.W. psig	Amb. °F	W.H. °F	LINE psi	LINE °F	Diff.	Csg. Choke	Tank Gauge Notes
9:15 AM	230	71°	69°				250	Shut-in 24 hrs.
9:20	230	71	69				250	open well, back test
9:30	75	71	69		52		235	
9:45	67	72	70	66	52	10	225	1.5" orifice plate
10:00	69	73	71	66	53	10	225	
10:15	69	74	72	66	54	10	225	
10:30 AM	70	76	74	66	54	10	225	End Rate I
10:45	122	76	74	66	54	2	230	
11:00	114	77	75	66	54	2	230	
11:15	110	78	76	66	54	2	230	
11:30 AM	111	81	79	66	54	8	230	End Rate II
11:45 AM	153	82	80	66	54	6	235	
12:00 Noon	143	83	82	66	54	5.5	230	
12:15 PM	142	86	84	66	58	5.5	230	
12:30 PM	142	87	85	66	58	5.5	230	Field Rate III
12:45	178	87	85	66	58	3	235	Tank Gauge
1:00	178	88	86	66	59	3	235	End 4'-7"
1:15	166	88	86	66	59	3	230	
1:30 PM	166	88	86	66	59	3	230	End 4'-7"