

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

95F
File
Form C-122
Revised 9-1-65

Type of Test ☒ Initial ☐ Annual ☐ Special				Test Date 9/8/82	
Company TRANSWESTERN GAS SUPPLY CO.				Connection AIR	
Well no. 1/10				Formation ABO	
Completion Date 8/20/82		Total Length 3600		Flag back To 3456	
Elevation 4175' EL		Form or Lease Name MIDDLE FORK FED.			
Csg. Size 4 1/2	wt.	d	Set At 3498 3456	Perforations: From 3030 To 3066	
Trg. Size 2 3/8	wt.	d	Set At 2950	Perforations: From To	
Type Well - Single - Protthead - G.C. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TBG.		Reservoir Temp. °F 102 @ 3048		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 3048	H 3048	Gg .6301	% CO ₂ .170	% N ₂ 6.394	% H ₂ S 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.		Temp. °F
51							975		975		72 HRS.
1.	2 X 1/4			288		62	930		940		1 HR.
2.	2 X 1/4			288		60	855		855		1 HR.
3.	2 X 5/16			510		60	760		760		1 HR.
4.	2 X 5/16			547		62	670		670		1 HR.
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	1.087		301.2	.9981	1.260	1.025	422
2.	1.087		801.2	1.000	1.260	1.068	1172
3.	1.672		523.2	1.000	1.260	1.044	1151
4.	1.672		560.2	.9981	1.260	1.046	1232
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Met/cbl.
1.	.46	522	1.49	.952	DRY	
2.	1.22	520	1.48	.876	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
3.	.79	520	1.48	.917	Specific Gravity Separator Gas	.6301
4.	.85	522	1.49	.914	Specific Gravity Flowing Fluid	X X X X X X X X
5.					Critical Pressure	659 P.S.I.A.
					Critical Temperature	351 °R

NO.	P _e	P _w	P _e ²	P _w ²	P _e ² - P _w ²
1	988.2	976.5			
1		953.2	908.6	67.9	
2		868.2	753.8	222.7	
3		773.2	597.8	378.7	
4		683.2	466.8	509.7	
5					

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.916$

AOIF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.731$

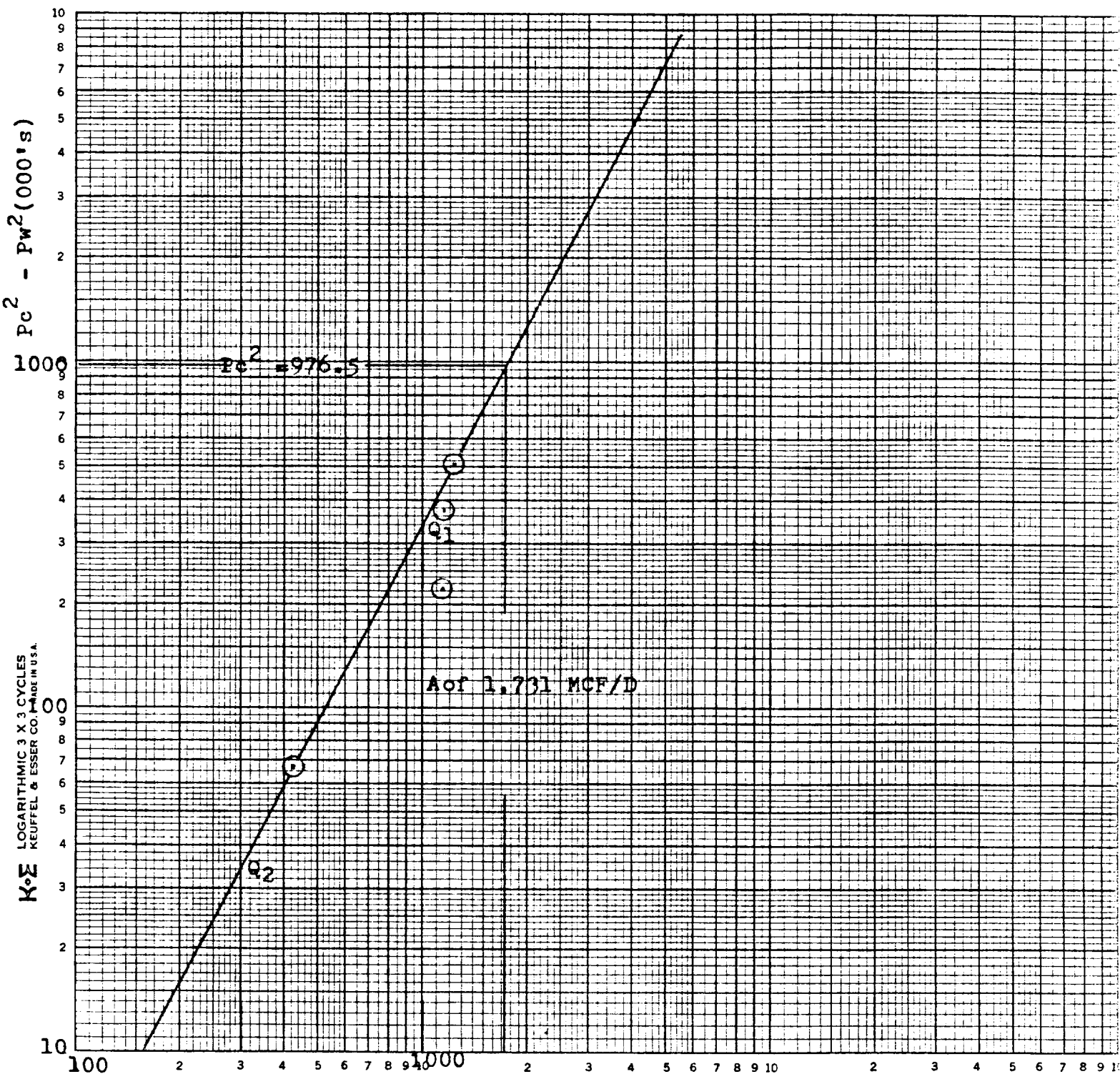
(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.405$

Post ID-2
10-15-82
Camp & BK

Absolute Open Flow	1,731	Mcf @ 15.025	Angle of Slope	62.5°	Slope, n	.523
Remarks:						

Approved By Connection:	Conducted By: DAVIS SERVICES, INC.	Calculated By: RICK PAGAN	Checked By:
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COMPANY : TRANSWESTERN GAS & OIL COMPANY
 LEASE : MIDDLE FORK FEDERAL
 WELL # : 1
 UNIT : SEC.8/TWSP 6 S /RGE. 23 E
 COUNTY : CHAVES
 STATE : NEW MEXICO
 DATE : AUGUST 20, 1982



$Q = \text{MCF/DAY}$
 $Q_1 \text{ LOG } 1000 = 3.000000$
 $Q_2 \text{ LOG } 300 = 2.477121$
 $N = .523$
 $\theta = 62.5^\circ$