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NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test: ☐ Initial ☐ Annual ☒ Special						Test Date: 8-3-76			
Company: Belco Petroleum Corporation				Connection: Llano, Inc.					
Pool: So. Carlsbad - Morrow (Gas)				Formation: Morrow				Unit: [illegible]	
Completion Date: 7-8-75		Total Depth: 11726'		Plug Back TD: 11638'		Elevation: 3136.5' GL		Farm or Lease Name: Martin Com	
Csg. Size: 5½"	Wt.: 17#	d: 4.892	Set At: 11726'	Perforations: From 11356 To 11364				Well No.: 1	
Tbg. Size: 2 7/8"	Wt.: 6.5#	d: 2.259	Set At: 11297	Perforations: From 11393 To 11396; 11404 To 11427				Unit: F	Sec.: 20	Twp.: 22S	Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: 11297'				County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 192° @ 11000'		Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2				State: New Mexico	
L: 11297	H:	Gg: .582	% CO_2:	% N_2:	% H_2S:	Prover:	Meter Run: 4"	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI											
1.	4"	x	1.750"	820	75	65	2250	65	Packer		24 hr.
2.											
3.											
4.											
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	14.93	250.0	833.2	.9952	1.311	1.065	5186
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1	1.24	525	1.50	.881
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .582 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 350 R ____ R

P_c ____ P_c^2 ____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2263.2	5122.1	7220.5
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.709$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.709$

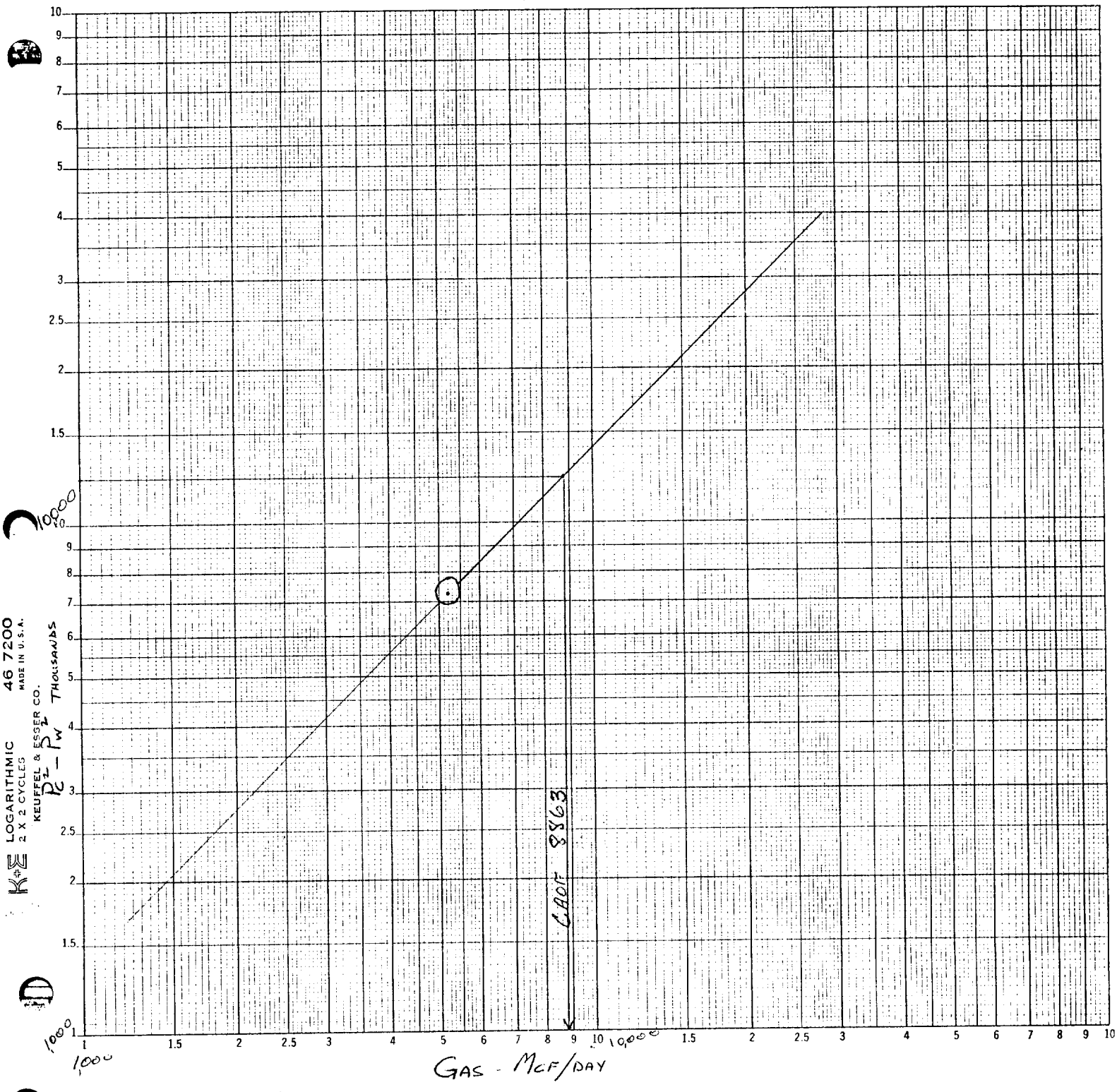
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8863$

Absolute Open Flow: 8863 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		C. W. Byrd	C. W. Byrd

BELCO PETROLEUM CORPORATION
MARTIN COM #1
SO. CARLSBAD-MORROW
8-3-76 TEST DATE
CAOF 8863 MCF/DAY



Q = 5186
$P_c^2 - P_w^2 = 7220.5$