0+6-NMOCD-Artesia
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1st File

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

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7/24/84	
Company: Getty Oil Company ✓		Connection: None			
Pool: Pecos Slope Abo		Formation: ABO			Unit
Completion Date: 7-21-84	Total Depth: 4200'	Plug Back TD: ~~4155'~~ 4113		Elevation: 3641' GR	Farm or Lease Name: Getty PS 17 Fed Com
Csg. Size: 4½" / Wt.: 10.5# / d: 4.052 / Set At: ~~4155'~~ 4200		Perforations: From 3702' To 3980'			Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 3664'		Perforations: From Open End To			Unit: A / Sec.: 17 / Twp.: 6S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None			County: Chaves
Producing Thru: Tbg	Reservoir Temp. °F: 98° @ 4200'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3664	3664	0.7411	10.60	5.78	---	---		

	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					930		915		
1.	3" x 1 1/8	300	10	50	880	50	870	50	0.50
2.	3" x 1 1/8	300	20	50	820	50	835	50	0.25
3.	3" x 1 1/8	300	40	50	720	50	805	50	0.50
4.	3" x 1 1/8	300	82	50	630	50	735	50	0.75
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	6.116	55.96	313.2	1.010	1.162	1.031	414.1
2	6.116	79.15	313.2	1.010	1.162	1.031	585.7
3	6.116	111.9	313.2	1.010	1.162	1.031	828.1
4	6.116	160.3	313.2	1.010	1.162	1.031	1186.0
5							

NO.	P_t	Temp. °R	T_t	Z
1	0.446	510	1.38	0.941
2	0.446	510	1.38	0.941
3	0.446	510	1.38	0.941
4	0.446	510	1.38	0.941
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.7411 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 702 P.S.I.A. _____ P.S.I.A.
Critical Temperature 370 R _____ R

P_c 943.2 P_c^2 889.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		883.2	780.0	109.6
2		848.2	719.4	170.2
3		818.2	669.5	220.1
4		747.2	558.3	331.3
5				

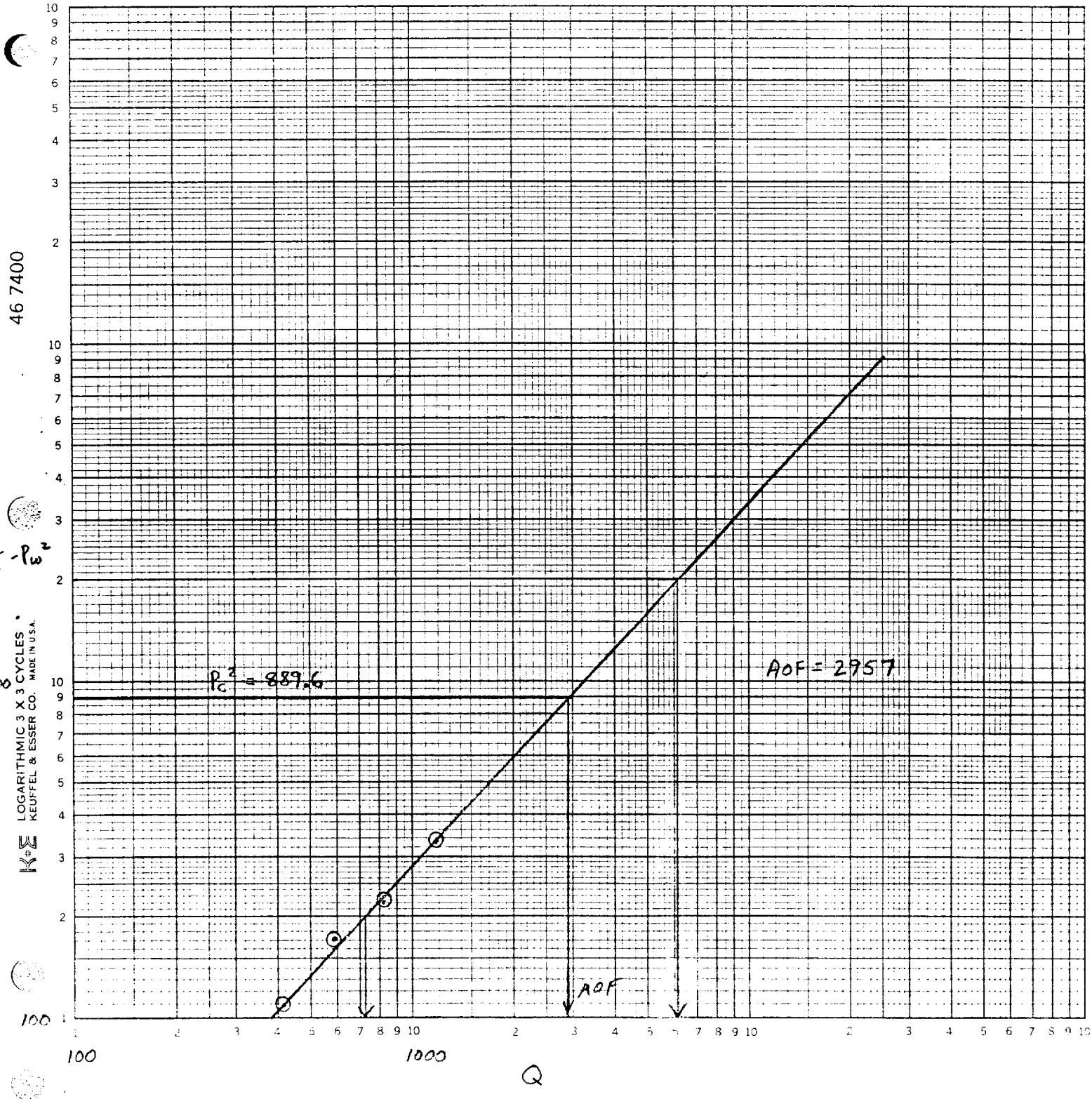
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.685$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.493$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2957$

Absolute Open Flow 2957 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.925

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Paul Mitchell	Lee Martin LM	Don Steinmetz



$Q_2 = 725$ $\quad \text{Log } Q_2 = 2.860$

$Q_1 = 6100$ $\quad \text{Log } Q_1 = 3.785$

$n = 0.925$