

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

Form C-122
Revised 9-1-65

RECEIVED

FEB 15 1983

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 12/14/82 C. C. D.		
Company ELK OIL COMPANY			Connection Air		
Pool <i>Und. Perm</i>			Formation Fusselman		
Completion Date 12/10/82 1-27-83		Total Depth 6150	Plug back TD 6120-6150		Elevation 3815
Csg. Size 4 1/2		Wt. 10.5	d	Set At 6150	Perforations: From 5948 To 5990
Tub. Size 2 3/8		Wt. 4.7	d 1.995	Set At 5871 5862	Perforations: From Open To Ended
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single				Packer Set At 5871 5862	
Producing Thru Tubing		Reservoir Temp. °F 101 @ 5900	Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2
L		H	G _g .8	% CO ₂	% N ₂
				% H ₂ S	Prover 2 th
					Meter Run
					Taps
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
				Temp. °F	Temp. °F
SI					
1.	2	X	5/16	252	41
2.	2	X	5/16	504	58
3.	2	X	3/8	387	60
4.	2	X	7/16	297	60
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 Compress. Factor, F _{pv}
					Rate of Flow Q, Mgd
1	1.672		265.2	1.0187	1.118
2	1.672		517.2	1.0002	1.118
3	2.378		400.2	1.0000	1.118
4	3.408		310.2	1.0000	1.118
5					
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Cub.
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____ X X X X X X X X X
2.					Specific Gravity Flowing Fluid _____ X X X X X
3.					Critical Pressure 662 _____ P.S.I.A. _____ P.S.I.A.
4.					Critical Temperature 420 _____ R _____ R
5.					
$P_c = 2309$ $P_c^2 = 5331$					
NO.	P_c^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.092$	
1	1289	1662	3669	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.172$	
2	867	752	4580		
3	767	588	4743		
4	675	451	4880	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1500$	
5					
Absolute Open Flow 1500			Mcf @ 15,025	Angle of Slope @ 29	Slope, n 1.8
Remarks: Bottom hole pressures recorded with Amerada type gauge.					
Approved by Commission:		Conducted by: KREITIC SERVICES		Checked by: M. Kelly	

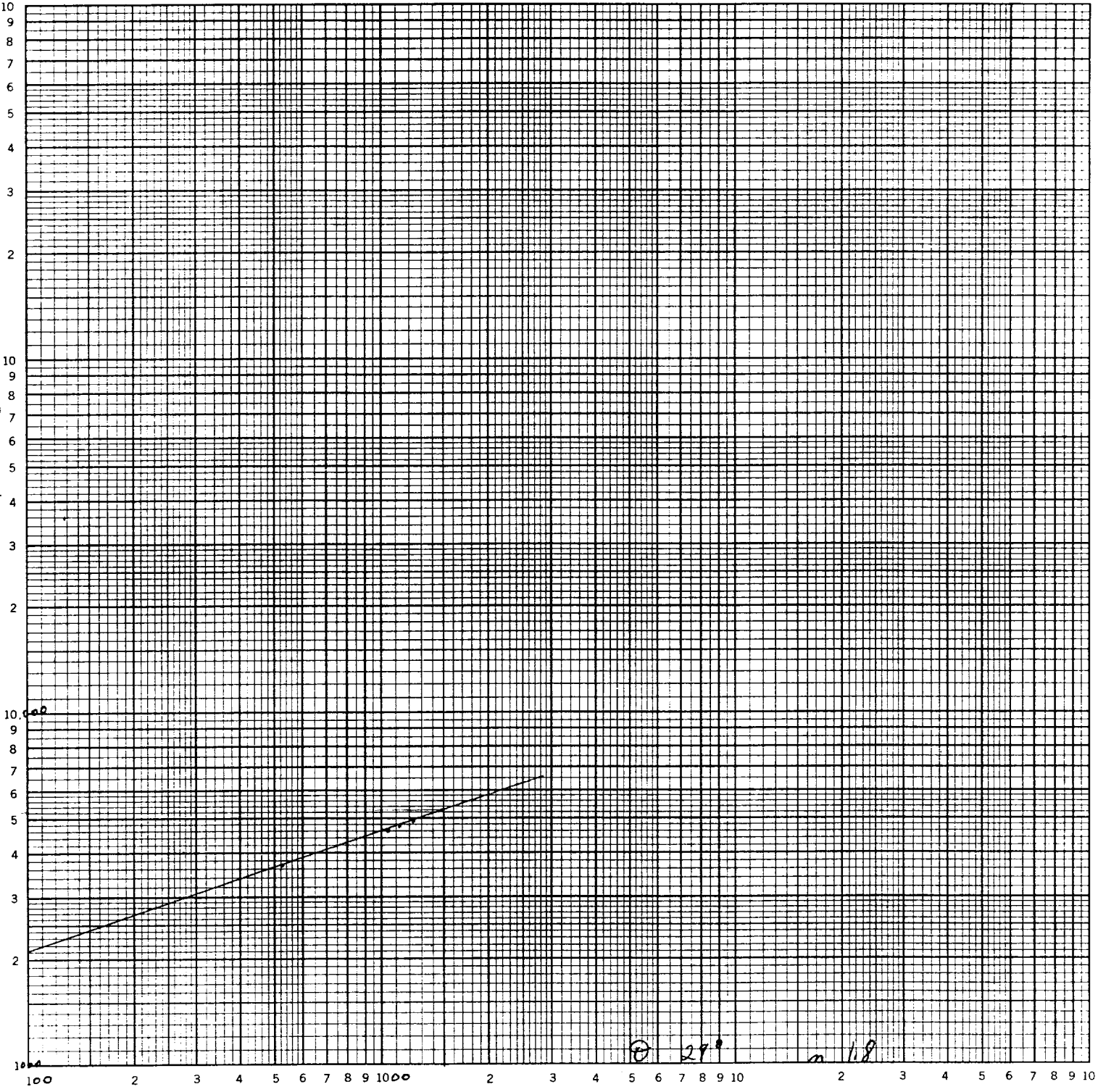
ELK OIL COMPANY

Meredith St Comm #1

Dec 14, 82

46 7400
 $P^2 - P^2 (000)$

LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Q
MSCFPD