

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

JAN 05 1984

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/22/83		O. C. D. ARTESIA, OFFICE	
Company ELK OIL COMPANY V			Connection Air		
Pool Bloom Ranch Pre-Permian Undersignated			Formation Perm Jusselman		Unit
Completion Date 2-22-83		Total Depth 6150		Plug Back TD 6120	
				Elevation 3814' GA	
Farm or Lease Name Ailman St Com			Well No.		
Ceq. Size A 1 1/2		Wt. d		Set At 6150 TD	
Perforations: From 6008 To 6034		Perforations: From Open To Ended		Unit Sec. Twp. Rye.	
Thq. Size 2 3/8		Wt. 4.7		1.995 5928	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 5928		County Chaves
Producing Thru Tubing		Reservoir Temp. °F 105 @ 6000		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 13.2	
State New Mexico		L		H	
Cg .63		% CO ₂		% N ₂	
% H ₂ S		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	
SI							1981		Packer		
1.	2	X	3/8	675		33	1555				1 hr
2.	2	X	3/8	748		66	761				"
3.	2	X	1/2	430		65	564				"
4.	2	X	5/8	305		67	350				"
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	2.373		487.2	1.027	1.2599	1.0567	1584
2	2.373		761.2	.994	1.2599	1.0715	2429
3	4.279		443.2	.995	1.2599	1.0405	2474
4	6.473		318.2	.993	1.2599	1.0282	2650
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2393.2 P _e 5727					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.046$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.054$	
NO.	P _t	P _w	P _c	P _c - P _w				
1		1921.2	3691	2036				
2		821.2	674	5053				
3		686.2	474	5254				
4		499.2	249	5478				
5								

Absolute Open Flow 2763 Mcfd @ 15.025 Angle of Slope @ 40 Slope, n 1.19

Remarks: Bottom hole pressures recorded with Ameraca type gauge

Approved By Division Conducted By: Calculated By: Checked By:

ELK OIL COMPANY

RECEIVED BY
JAN 05 1984
O. C. D.
ARTESIA OFFICE
Aikman St. Com #1

46 7400

$P^2 - P^2(0000)$

K_{ES} LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

$P^2 = 5727$

0.01

0.40

m = 1.1918

Q
MSCFPD