

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

JAN 27 1983

c/5F
Form C-122
Revised 9-3-82

Type Test ☒ Initial ☐ Annual		O. C. D. ☐ Special		Test Date 12/13/82	
Company ELK OIL COMPANY			Connection Air		
Pool <i>Wildcat Wolfcamp</i>			Formation Wolfcamp		
Completion Date <i>1-25-83</i>		Total Depth 6126		Plug Back TD 6085	
Casing Size 4 1/2		Set At 6126		Perforations: From 5142 To 5238	
Tubing Size 2 3/8		Set At 5035		Perforations: From Open To Ended	
Type well - Single - Provenhead - G.G. or G.O. Multiple Single				Packoff Set At 5035	
Producing Thru Tubing		Reservoir Temp. °F 101 @ 5200		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico		County Chaves	
L		H		Cg	
				.85	
% CO ₂		% N ₂		% H ₂ S	
				2	
Prover		Meter Run		Days	
2					

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							1145		Packer		
1.	2	X 1/8		974		59	970				1 hr
2.	2	X 3/16		802		57	810				"
3.	2	X 7/32		674		60	675				"
4.	2	X 5/16		398		60	405				"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2648		987.2	1.001	1.0847	1.1775	334
2	.6082		815.2	.997	1.0847	1.1478	615
3	.8393		687.2	1.000	1.0847	1.1202	701
4	1.6720		411.2	1.000	1.0847	1.0705	798
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ 660 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 436 _____ R _____ R

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.278$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.199$
1		1197	1465	438		
2		997	994	882		
3		840	728	1174		
4		630	414	1488		
5						

Absolute Cyclic Flow _____ 1000 _____ Mcf/c 15.625		Angle of Slope _____ 53.5 _____		Slope, n _____ .74 _____	
Remarks: <u>Bottom hole pressures recorded with Amerada type gauge.</u>					
Approved By (Signature): _____		Conducted By: _____		Checked By: _____	

*Post ID-2
2-4-83
Camp BK*