

c/sf

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-27-90		30-005-62763 RECEIVED DEC 08 1995 OIL CON. DIV. DIST 2	
Company ELK OIL COMPANY				Connection AIR		Pool FUSSELMAN			
Completion Date				Total Depth		Plug Back TD		Elevation	
Csq. Size 5-1/2		Wt. d		Set At TD		Perforations: From 6253 To 6258		Unit IAN	
Tsq. Size 2-7/8		Wt. d		Set At 6197		Perforations: From OPEN To ENDED		Unit K 36 8S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 6197		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 6		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L		H		G _g .629		% CO ₂		% H ₂	
						% H ₂ S		Prover	
								Meter Run 3	
								Taps FLANGE	

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							1770		PACKER		
1.	3	x	1.25	600	8	48	1505		"		1 hr
2.	3	x	1.25	580	13	70	1290		"		"
3.	3	x	1.25	610	29	65	1138		"		"
4.	3	x	1.25	670	48	65	837		"		"
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, Mcfd
1	7.577	70.3999	613.2	1.0117	1.213	1.077	702
2	7.577	87.8157	593.2	.9905	1.213	1.063	850
3	7.577	134.4351	623.2	.9952	1.213	1.069	1314
4	7.577	181.0900	683.2	.9952	1.213	1.076	1782
5							

NO.	P _t	Temp. °R	T _r	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 2365.2 P _c ² 5593.2				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2207.2	4870.8	722
2		2022.2	4088.4	1505
3		1692.4	2869.6	2724
4		1267.2	1605.2	3988
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.40$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2312$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.30$

Absolute Open Flow 2312	Mcfd @ 15.025	Angle of Slope 52.5	Slope, n .77
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Remarks: _____

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: MIKE KELLY	Checked By:
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