

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-15-74		JAN 23 1974	
Company Wood & Cockburn, Inc.				Connection None		O.C.C.	
Pool <i>South of Queen</i>				Formation <i>S</i>		Unit ARTESIA, OFFICE	
Completion Date 1-15-74		Total Depth 1968'		Plug Back TD 1950		Elevation 3866 ft	
Casing Size 4 1/2"		Set At 1968'		Perforations: From 1913 To 25		Farm or Lease Name State "A"	
Tubing Size 2 3/8"		Set At 1928'		Perforations: From To		Well No. 1	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Single				Packer Set At		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 1928		H 1928		G _g		% CO ₂ Trace	
				% N ₂ 60.20		% H ₂ S 0	
				Prover Pos. Cks		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							439	60			24:00
1.	Pos. Ck.	8/64					380	65			60 Min
2.	Pos. Ck.	10/64					319	69			60 Min
3.	Pos. Ck.	12/64					305	79			95 Min
4.	Pos. Ck.	16/64					328	75			60 Min
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	.2618		393.2	.9952	1.057	1.080	117
2	.4173		332.2	.9915	1.057	1.070	153
3	.6101		318.2	.9822	1.057	1.067	215
4	1.1120		341.2	.9859	1.057	1.071	423
5							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.578	526	1.156	.857	A.P.I. Gravity of Liquid Hydrocarbons	Dens.
2	.501	529	1.165	.874	Specific Gravity Separator Gas .895	XXXXXXXXXX
3	.480	539	1.187	.879	Specific Gravity Flowing Fluid	XXXXXX
4	.515	535	1.178	.872	Critical Pressure 662	P.S.I.A.
5					Critical Temperature 454	R

P ₁ 618.2 P ₂ 3821		(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 4.559$		(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 2.5647$	
NO.	P ₁ ²	P ₂	P ₂ ²	P ₂ ² - P ₁ ²	
1		606.2	3674	147	
2		593.2	3519	302	
3		601.2	3614	207	
4		546.2	2983	838	
5					

AOF = Q $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1364$

2006100
1-25-74

Absolute Open Flow 1,364 Mcfd @ 15.025

Angle of Slope θ 53

Slope, n .62125

Remarks:

Approved By Commission:	Conducted By: Camp	Calculated By: Spruell	Checked By: Pyle
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