

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

Form C-122
 Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 4/26/78	
Company Robert C. Anderson		Connection New Well	
Pool Straight Canyon		Formation Dakota	
Completion Date June 5, 1977		Total Depth 2559	
Csg. Size 4.500		Elevation 5715	
Well No. #3		Farm or Lease Name Ute Mountain Ute	
Perforations: From 2292 To 2312		Unit F 14 31 16	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Single		Packer Set At None	
Producing Thru Tubing		Baro. Press. - P _a 12.0	
Reservoir Temp. *F .60		State New Mexico	
Mean Annual Temp. *F .60		County San Juan	
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
1.	2"	x	3/32"	589		62°	589	607	771	774	SIP
2.	2"	x	1/8"	421		68°	421	513			2 hrs.
3.	2"	x	3/16"	228		64°	228	389			2 hrs.
4.	2"	x	1/4"	147		60°	147	305			2 hrs.
5.	2"	x	1/4"	132		60°	132	303			12 hrs.

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.	0.1410		601	.998	1.291	1.056	115
2.	0.2648		433	.992	1.291	1.037	152
3.	0.6082		240	.996	1.291	1.016	191
4.	1.087		159	1.000	1.291	1.012	226
5.	1.087		144	1.000	1.291	1.012	205

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature R
1.										
2.										
3.										
4.										
5.										

NO.	P _c	P _w	P _c ² - P _w ²	Q
1.	786	619	383161	234635
2.		525	275625	342171
3.		401	160801	456995
4.		317	100489	517307
5.		315	99225	518571

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

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

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

Absolute Open Flow	235	Mcfd @ 15.025	Angle of Slope	38°
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Remarks: Well has not been fraced.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: Fred S. Hamrick	Checked By: B.J. Broughton
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