NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special			Test Date: 4/11/78	
Company: Robert C. Anderson	Connection: New Well			
Pool: Straight Canyon	Formation: Dakota		Unit:	
Completion Date: 10/3/75	Total Depth: 2.521	Plug Back TD:	Elevation: 5686	Farm or Lease Name: Ute Mountain Ute
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 2521	Perforations: From 2262 To 2279			Well No.: #1
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2297	Perforations: From To			Unit: SW/SW / Sec.: 14 / Twp.: 31 / Rge.: 16
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Single		Packer Set At: None		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.60				2"		

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	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	Duration of Flow
SI						760		762		SIP
1.	2"	1/8"	536		58°	536		555		2 hr.
2.	2"	3/16"	343		60°	343		361		2 hr.
3.	2"	7/32"	268		62°	268		287		2 hr.
4.	2"	1/4"	213		52°	213		241		2 hr.
5.	2"	1/4"	187		59°	187		211		12 hr.

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	0.2648		548	1.002	1.291	1.053	198
2.	0.6082		355	1.000	1.291	1.030	287
3.	0.8393		280	.998	1.291	1.025	310
4.	1.087		225	1.008	1.291	1.022	325
5.	1.087		199	1.001	1.291	1.016	284

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 774 P_c^2 599076

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		567	321489	277587
2		373	139129	459947
3		299	89401	509675
4		253	64009	535067
5		223	49729	549347

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

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

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Absolute Open Flow 320 Mcfd @ 15.025 Angle of Slope θ 35° Slope, n .78

Remarks: This well has not been fraced. Well showed very small trace of oil.

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

BJB/aa