NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1/10/67	
Company: Southern Union Production Co.	Connection: El Paso Natural Gas Company			
Pool: Basin	Formation: Dakota			Unit
Completion Date: 12/23/66	Total Depth: 6890	Plug Back TD: 6856	Elevation: 6399	Farm or Lease Name: Newsom "A"
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6885		Perforations: From 6644 To 6850		Well No.: 3
Tbg. Size: 1.900 / Wt.: 2.90 / d: 1.610 / Set At: 6688		Perforations: From 6680 To 6688		Unit: M / Sec.: 4 / Twp.: 26N / Rge.: 8W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. – P_a: 12	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6670		.700						

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI	2"	3/4"				1941		1938		10 days
1.						191	68°	786		3 hours
2.										
3.										
4.										
5.										

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	12.3650		203	.9924	.9258	1.022	2,357
2.							
3.							
4.							
5.							

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NO.	P_r	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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1,953 P_c^2 3,814,209

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		798	636,804	3,177,405
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2004$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1468$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,703$

Absolute Open Flow 2,703 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Original signed by

Approved By Commission:	Conducted By: Kenneth E. Roddy	Calculated By:	Checked By:
	Kenneth E. Roddy	Kenneth E. Roddy	Kenneth E. Roddy