NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 13 1971
OIL CON. COM.
DIST. 3

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 10/11/71	
Company: Southern Union Production Co.			Connection: Southern Union Gas Company		
Pool: Basin			Formation: Dakota		Unit
Completion Date	Total Depth: 8000		Plug Back TD: 7956	Elevation: 6892	Farm or Lease Name: Jicarilla "A"
Csg. Size: 7.625 / 4.500 — Wt: 26.40 / 10.50 — d: 6.969 / 4.052 — Set At: 3727 / 3670-7992			Perforations: From 7746 To 7941		Well No.: 13
Tbg. Size: 1.900 — Wt: 2.90 — d: 1.610 — Set At: 7709			Perforations: From 7701 To 7709		Unit: E — Sec.: 13 — Twp.: 26N — Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas			Packer Set At: 7701		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. – P_a: 12		State: New Mexico
L: 7693	H	Gg: 0.700	% CO_2	% N_2	% H_2S — Prover — Meter Run — Taps

	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"				2070				8 Days
1.						130	60°			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		142	1.0000	0.9258	1.016	1652
2.							
3.							
4.							
5.							

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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2082 P_c^2 4,334,724

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			259,731	4,074,993
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0637$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0473$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1730$

Absolute Open Flow 1730 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n 75

Remarks: _____

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