NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

OIL CON. COM.
DIST. 3

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 9/29/70	
Company: SOUTHERN UNION PRODUCTION CO.		Connection: EL PASO NATURAL GAS COMPANY			
Pool: OTERO		Formation: GALLUP		Unit	
Completion Date: 9/4/70	Total Depth: 7060	Plug Back TD: 7022	Elevation: 6675	Farm or Lease Name: JICARILLA "N"	
Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 7059		Perforations: From 5852 To 5896		Well No.: 2	
Tbg. Size: 2.0625 / Wt.: 3.25 / d: / Set At: 6001		Perforations: From 5993 To 6001		Unit: N / Sec.: 3 / Twp.: 24N / Rge.: 5W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL – GAS-OIL		Packer Set At: 6770		County: RIO ARRIBA	
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
5983		0.700						

	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"				932		1024		15 DAYS
1.						45	59°	334		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		57	1.0010	0.9258	1.000	653
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	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 1036 P_c^2 1,073,296

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		346	119,716	953,580
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1255$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0927$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 714$

Absolute Open Flow 714 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	KENNETH E. RODDY	KENNETH E. RODDY	KENNETH E. RODDY