NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 1/5/67	
Company: SOUTHERN UNION PRODUCTION CO.		Connection: EL PASO NATURAL GAS COMPANY		
Pool: BASIN		Formation: DAKOTA		Unit
Completion Date: 12/22/66	Total Depth: 6291	Plug Back TD: 6262	Elevation: 6023	Farm or Lease Name: RICHARDSON
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6290		Perforations: From 6116 To 6236		Well No.: 4
Tbg. Size: 1.900 / Wt.: 2.90 / d: 1.610 / Set At: 6186		Perforations: From 6178 To 6186		Unit: I / Sec.: 3 / Twp.: 27N / Rge.: 13W
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: 6168	H	Gg: .700	% CO_2	% N_2 / % H_2S / Prover / Meter Run / Taps

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI	2"		3/4"			
1.						
2.						
3.						
4.						
5.						

TUBING DATA

NO.	Press. p.s.i.g.	Temp. °F
SI	1979	
1.	320	67°
2.		
3.		
4.		
5.		

CASING DATA

NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	1972		10 DAYS
1.	1201		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		332	.9933	.9258		3,919
2.							
3.							
4.							
5.							

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DIST. 3

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

P_c 1991 P_c^2 3,964,081

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1213	1,471,369	2,492,712
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5903$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4161$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5,550$

Absolute Open Flow 5,550 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Original signed by

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