NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

CORRECTED TEST

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 7/8/68	
Company: SOUTHERN UNION PRODUCTION CO.		Connection: SOUTHERN UNION GAS COMPANY			Unit
Pool: BLANCO		Formation: MESAVERDE			
Completion Date: 6/15/68	Total Depth: 8036	Plug Back TD: 8020	Elevation: 6933	Farm or Lease Name: JICARILLA "A"	
Csg. Size: 7.625 / 5.500	Wt.: 26.40 / 15.50	d: 6.969 / 4.950	Set At: 3705 / 8034	Perforations: From 5744 To 5826	Well No.: 9
Tbg. Size: 1.900	Wt.: 2.75	d: 1.610	Set At: 5800	Perforations: From 5792 To 5800	Unit: C Sec.: 14 Twp.: 26N Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - GAS - GAS			Packer Set At: 7660		County: RIO ARRIBA
Producing Thru: TUBING	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. – P_a: 12		State: NEW MEXICO
L: 5780	H	Gg: .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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	2"		3/4"				1137		1132		7 DAYS
1.							205	52°	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		217	1.0078	.9258	1.027	2571
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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P_c 1149 P_c^2 1,320,201

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		798	636,804	683,397
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9318$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6386$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4,213$

Absolute Open Flow 4213 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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

NEW MEXICO OIL CONSERVATION COMMSSION

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Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 7/8/68	
Company: SOUTHERN UNION PRODUCTION CO.	Connection: SOUTHERN UNION GAS COMPANY			
Pool: BLANCO	Formation: MESAVERDE		Unit	
Completion Date: 6/15/68	Total Depth: 8036	Plug Back TD: 8020	Elevation: 6933	Farm or Lease Name: JICARILLA "A"
Csg. Size: 7.625 / 5.500 — Wt.: 26.40 / 15.50 — d: 6.969 / 4.950 — Set At: 3705 / 8034		Perforations: From 5744 To 5826		Well No.: 9
Tbg. Size: 1.900 — Wt.: 2.75 — d: 1.610 — Set At: 5800		Perforations: From 5792 To 5800		Unit: C — Sec.: 14 — Twp.: 26N — Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - GAS - GAS		Packer Set At: 7660		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
5780		.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"				1137		1132		7 DAYS
1.						205	52°	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		217	1.0078	.9258	1.027	2571
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R
1.		
2.		
3.		
4.		
5.		

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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 1144 P_c^2 1,308,736

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		798	636,804	671,932
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9477$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6487$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4,239$

Absolute Open Flow 4,239 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks: _____

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