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: 11/28/73	
Company: Southern Union Production Co.	Connection: Southern Union Gas Company			
Pool: Tapacito	Formation: Pictured Cliffs		Unit	
Completion Date: 11/9/73	Total Depth: 5870	Plug Back TD: 5834	Elevation: 6897	Farm or Lease Name: Jicarilla "A"
Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 5869		Perforations: From 3605 To 3634		Well No.: 15
Tbg. Size: 1.900 / Wt.: 2.75 / d: 1.610 / Set At: 3610		Perforations: From 3602 To 3610		Unit: G / Sec.: 14 / Twp.: 26N / Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas		Packer Set At: 5554		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
		0.620						

	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"				844		843		16 Days
1.						179	53°	629		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		191	1.0068	0.9837	1.018	2381
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 _____ XXXXXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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P_c 856 P_c^2 732,736

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		641	410,881	321,855
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2766$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0123$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4791$

Absolute Open Flow 4791 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
NOV 29 1973	Kenneth E. Roddy	Kenneth E. Roddy	

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: 11/21/73	
Company: Southern Union Production Co.		Connection: Southern Union Gas Company			
Pool: Blanco		Formation: Mesaverde			Unit
Completion Date: 11/9/73	Total Depth: 5870		Plug Back TD: 5834	Elevation: 6897 R.K.B.	Farm or Lease Name: Jicarilla A"
Csg. Size: 5.500 / Wt.: 15.50 / d: 4.950 / Set At: 5869			Perforations: From 5724 To 5792		Well No.: 15
Tbg. Size: 1.900 / Wt.: 2.75 / d: 1.610 / Set At: 3610			Perforations: From 3602 To 3610		Unit: G / Sec.: 14 / Twp.: 26N / Rge.: 4W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual - Gas - Gas			Packer Set At: 5554		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a: 12		State: New Mexico
L: 3591	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	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"				1115				7 Days
1.							95	55°			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		107	1.0048	0.9258	1.000	1231
2							
3							
4							
5							

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 _____ XXXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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P_c 1127 P_c^2 1,270,129

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			80,011	1,190,118
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0672$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0499$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1292$

Absolute Open Flow 1292 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
NOV 27 1973	Kenneth E. Roddy	Kenneth E. Roddy	