

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-10-84		RECEIVED SEP 13 1984 OIL CON. DIV. DIST. 3			
Company Southern Union Exploration Co					Connection					
Pool Blanco					Formation Mesa Verde		Unit			
Completion Date 8-28-84		Total Depth 6110		Plug Back TD 6082		Elevation		Farm or Lease Name Jicarilla		
Csq. Size 4.500	Wt. 10.5	d 4052	Set At 6103	Perforations: From 5692 To 5946		Well No. 115				
Tsq. Size 2.0625	Wt. 3.25	d 1.751	Set At 6016	Perforations: From To		Unit Sec. Twp. Rye. J 36 26 4				
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single-Gas					Packer Set At		County Rio Arriba			
Producing Thru TB		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico		
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover Choke		Meter Run		Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI							1215		1230		10 days
1.			.750				170	82	750		3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		182	.9795	.9393	1.018	2108
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas .680 EST. X X X X X X X X	
3.					Specific Gravity Flowing Fluid X X X X X	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

$P_c = 1242$ $P_c^2 = 1542564$

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1		762	580644	961920
2				
3				
4				
5				

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6036$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4250$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3004$

Absolute Open Flow 3004 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
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Remarks: Well was slugging a heavy to medium mist of Frac Water during test.

Approved By Division	Conducted By: <i>[Signature]</i>	Calculated By: <i>[Signature]</i>	Checked By:
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