

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 11/1/82	
Company Union Texas Petroleum Corp.				Connection Gas Company of New Mexico	
Pool Basin				Formation Dakota	
Completion Date 9/17/82		Total Depth 8450		Plug Back TD 8360	
Elevation 7275		Farm or Lease Name Jicarilla "G"		Well No. 5-M	
Csg. Size 9.625 7.000	Wt. 40.00 26.00	d 8.835 6.276	Set At 5499 5302-8444	Perforations: From 8148 To 8336	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 8268	Perforations: No Perforations From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 6330	
Producing Thru Tubing		Reservoir Temp. °F 0		Mean Annual Temp. °F 12	
Baro. Press. - P _a 12		State New Mexico		County Rio Arriba	
L 8256	H	Gg 0.700	% CO ₂	% N ₂	% H ₂ S
Prover		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	2"		3/4"				2237				7 Days
1.							71	52 ⁰			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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		83	1.0078	0.9258	1.000	958
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ 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 2249		P _c ² 5,058,001		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0069$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0051$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1			34,716	5,023,285			
2							
3							
4							
5							

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 963$$

Absolute Open Flow	963	Mcfd @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks:

Approved By Division	Conducted By: Steve Stevenson	Calculated By: Ken Roddy	Checked By:
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