

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-29-80	
Company George E. Coleman			Connection El Paso Natural Gas Company		
Pool Bisti			Formation Gallup		Unit
Completion Date 12-15-79		Total Depth 5393'		Plug Back TD 5368'	
Elevation 6807' G1		Farm or Lease Name Dry Creek			
Csg. Size 4.500	Wt. 11.5#	d 4.000	Set At 5391'	Perforations: From 5215' To 5245'	
Thq. Size 2.375	Wt. 4.7#	d 1.995	Set At 5243'	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F @	
Baro. Press. - P _a		State New Mexico			
L	H	G _g 0.650	% 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
1.	2"		0.625						348		
2.									12	54	3 hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	8.550		24	1.0058	0.9608	1.004	199
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 _____ 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 360	P _c ² 129600			
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1	576	27	729	127881
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0314}{1.0314 - 1.0101}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 201$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0101}{1.0314 - 1.0101}$$

Absolute Open Flow	201	Mcfd @ 15.025	Angle of Slope @	.75
Remarks: The well stabilized after 50 minutes.				

Approved By Commission	Conducted By H. E. McAnally	Calculated By H. E. McAnally	Checked By
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