

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 9/3/82	
Company M. J. BRANNON				Connection None	
Pool Basin Dakota				Formation Dakota	
Completion Date 8/18/82		Total Depth 6550'		Plug Back TD 6511'	
		Elevation 6673'G.L.		Farm or Lease Name Federal 28	
Csg. Size 4.500	Wt. 10.50	d 4.000	Set At 6550'	Perforations: From 6375' To 6419'	
Tbg. Size 2.375	Wt. 4.70	d 1.990	Set At 6348'	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F 147 @ 6550		Mean Annual Temp. °F 60°	
		Baro. Press. - P _a 12.0		State New Mexico	
L 6348	H 6348	Gg 0.60	% 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							1500		1520		7 days
1.	3/4" THC						60	60°	370		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		72	1.000	1.000	1.000	890
2.							
3.							
4.							
5.							

NO.	P _r	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 1532	P _c ² 234,024	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.066$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0491$
NO.	P _t ²	P _w	P _w ²
1		382	145,924
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 934$	
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Absolute Open Flow	934	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: