

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 5-1-80			
Company Jerome P. McHugh				Connection					
Pool Basin				Formation Dakota				Unit	
Completion Date 4-18-80		Total Depth 6000'		Plug Back TD 5912'		Elevation 6371' GL		Farm or Lease Name Colket	
Csg. Size 4-1/2"	Wt. 10.5#	d	Set At 6008' RKB	Perforations: From 5748 To 5808		Well No. 1E			
Tbg. Size 1-1/2"	Wt. 2.9#	d	Set At 5790' KB	Perforations: From Open To End		Unit Sec. Twp. Rye. K 15 25N 11W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru tbg		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .65 est	% 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							1915		1915		7 days
1.											
2.											
3.	3/4" pos choke			317		70 ⁰			1383		3 hrs
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							
2.							
3.	12.365		329	.9905	.9608	1.030	3988
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.
5.					Critical Temperature _____ R

P _c 1927	P _c ² 3,713,329	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.1011$	(2) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.7452$
NO.	P _r ²	P _w	P _w ²
1			
2			
3	1395	1946025	1767305
4			
5			

Absolute Open Flow _____ 6960 _____ Mcfd @ 15.025		Angle of Slope θ _____		Slope, n _____ .75 _____	
Remarks: _____					

Approved By Division	Conducted By Jacobs	Calculated By Jacobs	Checked By Sink
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