

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

Form C-122
Revised 9-1-65

157
1-2-78

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5/7/78		MAY 12 1978	
Company MONSANTO COMPANY ✓					Connection ROGER C. HANKS			
Pool Cemetery Morrow					Formation Morrow		Unit O. C. C. ARTERIA, OFFICE	
Completion Date 8/25/77		Total Depth 9550		Plug Back TD 9490		Elevation GR 3600		Form or Lease Name MAYER COM.
Csg. Size 5 1/2"	Wt. 17	d 4.892	Set At 9550	Perforations: From 9334 To 9352		Well No. 1		
Tbg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 9132	Perforations: From --- To ---		Unit C	Soc. 24	Twp. 20S
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 9131		County EDDY		
Producing Thru Tubing		Reservoir Temp. °F 154 @ 9550		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO
L 9343	H 9343	Gg .59	% CO ₂ 0.00	% N ₂ 0.00	% H ₂ S 0.00	Prover X	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.	
1.	This well produces 515 MCFPD at 450 psig FTP. Shut in tubing pressure was 3050 psig. Due to the well's low productivity it is not capable of producing at various rates for a multi-point back pressure test.									
2.										
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.							
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °F	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

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.						
2.						
3.						
4.						
5.						

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

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: See above

Approved By Commission:	Conducted By: <i>J. M. Nichols</i>	Calculated By:	Checked By:
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