

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		9-29-82	
Company				Connection							
Caulkins Oil Company											
Pool				Formation				Unit			
Basin Dakota				Dakota				D			
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
9-22-82		7475		7475		6572		Breech E			
Coq. Size	Wt. 17#	d	4.950	Set At	Perforations:		Well No.				
5 1/2"	15.5#	d	4.892	7475	From 7452 To 7262		50 E				
Trq. Size	Wt.	d		Set At	Perforations:		Unit Sec. Twp. Rge.				
2 1/16"	3.25	d	1.750	7400	From 7400 To		D 5 26N 6W				
Type Well - Single - Brdenhead - G.G. or G.O. Multiple						Packer Set At		County			
Gas Gas Multiple						5615		Rio Arriba			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State			
Tubing		8						New Mexico			
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
FLOW DATA											
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	Duration of Flow
51							1810		PKR		7 Days
1.							197		PKR		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 _{sp}	Rate of Flow Q, Mcf/d				
1	14.1605		209	1.000	1.000	1.000	2,959				
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _t	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						
$P_c = 1822$ $P_c^2 = 3,319,684$ (1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.137$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.10$ $AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3,259$											
NO.	P _t	P _w	P _w ²	P _t ² - P _w ²							
1											
2	43,681	633	400,914	2,918,770							
3											
4											
5											
Absolute Open Flow					3,259		Mcf @ 15.025		Angle of Slope		75
Slope, n											
Remarks:											
Approved By Division											
Conducted By:											
Calculated By:											
Checked By:											