

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 10 18-84		RECEIVED OCT 24 1984 OIL DIV.	
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 10-11-84		Total Depth 6835'		Plug Back TD 6835'		Elevation 6149 Gr		Farm or Lease Name Breech	
Csq. Size 5 1/2"	Wt. 15.5 & 17#	d 4.950	Set At 6835'	Perforations From 6676' To 6824'		Well No. 854			
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 6720'	Perforations From 6720' To		Unit Sec. Twp. Rge. H 24 26N 7W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas - Gas Multiple						Packer Set At 4864'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State New Mexico	
L	H	G _g	% 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
51							1943		PKR		7 Days
1.							87		PKR		3 Hours
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		99	1.000	1.000	1.000	1,402
2.							
3.							
4.							
5.							

NO.	R ₁	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1955 P _c ² 3,822,025				
NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²
1	9,801	592	338,638	3,483,387
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_2^2 - P_w^2} = 1.097$$

$$(2) \left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.072$$

$$AOF = Q \left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.503$$

Absolute Open Flow	1503	Mcf @ 15.025	Angle of Slope @	75	Slope, n
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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