

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-31-84		AUG 08 1984 OIL CON. DIV. DIST. 3			
Company Caulkins Oil Company				Connection					
Pool Basin Dakota				Formation Dakota					
Completion Date 7-24-84		Total Depth 7600		Plug Back TD 7600		Elevation		Farm or Lease Name Breech	
Csq. Size 5.500	Wt. 15.5&17#	d 4.892	Set At 7600	Perforations From 7278 To 7506		Well No. 58-M			
Thq. Size 1 1/2"	Wt. 2.9	d 1.900	Set At 7380	Perforations From 7380 To		Unit P		Sec. 3	Twp. 26N
Type Well - Single - Mrdenhead - G.G. or G.O. Multiple Gas Gas Multiple				Packer Set At 5580		County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% 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							1242		PKR		7 Days
1.							77		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 Fg	Super. Comp. Factor, Fpv	Rate of Flow Q, Mcfd
1	14,1605		89	1.000	1.000	1.000	1,260
2.							
3.							
4.							
5.							

NO.	R _i	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 _____ 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 1254 P _c ² 1,572,516			
NO.	P _i ²	P _w	P _i ² - P _w ²
1	7,921	369	136,115
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_i^2 - P_w^2} = 1.095$$

$$(2) \left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.070$$

$$AOF = Q \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1,349$$

Absolute Open Flow	1,349	Mcfd @ 15.025	Angle of Slope @	75	Slope, n
Remarks:					

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