

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 7/26/83	
Company Union Texas Petroleum Corp.		Connection Southern Union Gathering Company	
Pool Basin		Formation Dakota	
Completion Date		Total Depth	
Plug Back TD		Elevation	
Farm or Lease Name McCord "B"			
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6563
Perforations: From 6334 To 6502		Well No. 1	
Thq. Size 1.900	Wt. 2.90	d 1.610	Set At 6430
Perforations: From 6422 To 6430		Unit Sec. Twp. Rge. M 23 30N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At ----	
Producing Thru Tubing		Reservoir Temp. °F #	
Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico			
L 6412	H	Gg 0.700	% 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	2"		3/4"				766		768		7 days
1.							52	65°	272		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		64	0.9952	0.9258	1.000	729
2.							
3.							
4.							
5.							

NO.	P _t	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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 780	P _c ² 608,400			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		284	80,656	527,744
2.				
3.				
4.				
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.1528}{1.1528 - 0.0284} = 1.1528$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 811$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.1125}{1.1125 - 0.0284} = 1.1125$$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 0.75
Remarks: _____		

Approved By Division	Conducted By: Floyd Woodward	Calculated By: Kenneth E. Roddy	Checked By:
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