

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

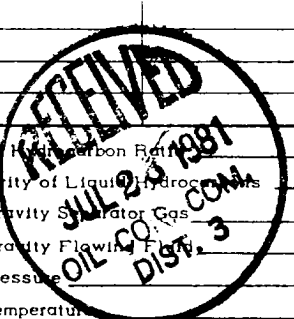
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7/23/81				
Company M. J. Brannon				Connection El Paso Natural Gas					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 7/10/81		Total Depth 6610'		Plug Back TD 6545'		Elevation 6689'		Farm or Lease Name Federal 20	
Csg. Size 4.500	Wt. 10.50	d 4.052	Set At 6609	Perforations: From 6405 To 6439		Well No. 1-R			
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 6372'	Perforations: From Open To Ended		Unit Sec. Twp. Rge. J- 20-25N-9W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 150°		Mean Annual Temp. °F 60		Baro. Press. - P _a 12.0		State New Mexico	
L 6372	H 6372	Gg 0.60	% 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	
1.	3/4" THC						1425		1430		8 day
2.							100	60	600		3 hrs
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	12.3650		112	1.0000	1.0000	1.0000	1,385
2.							
3.							
4.							
5.							

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



P _c 1442	P _c ² 2,079,364	
NO.	P _t ²	P _w ²
1	612	374,544
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2196$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1606$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,607$$

$$P_c^2 - P_w^2 = 1,704,820$$

Absolute Open Flow	1,607	Mcf/d @ 15.025	Angle of Slope °	-	Slope, n	0.75
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Remarks:

Approved By Commission:	Conducted By: Gil Nelson	Calculated By: Ewell N. Walsh	Checked By:
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