

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 4-29-75	
Company UNION OF TEXAS				-		
Pool BLANCO				MESA VERDE		Unit -
Completion Date -		Total Depth 5600		Plug Back TD 5510		Elevation -
Farm or Lease Name JOHNSTON FEDERAL						
Choke Size 4 1/2"	Wt. 11.60	d 4.0	Set At 5600	Perforations: From 4580 To 5364		Well No. 2A
Thg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 5385	Perforations: From - To 5385		Unit Sec. Twp. Rge. C 33 31 9
Type Well - Single - Brdenhead - G.G. or G.O. Multiple				Packer Set At -		County San Juan
Producing Thru Tubing		Reservoir Temp. °F -		Mean Annual Temp. °F -		State New Mexico
L	H	Gg .680	% CO ₂	% N ₂	% H ₂ S	Prover X
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.	2	x	.750	220		38	604		604		3 hrs.
2.							220		545		
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
1	11		232	1.022	1.213	1.030
2						
3						
4						
5						

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1	.35	498	1.29	.942	A.P.I. Gravity of Liquid Hydrocarbons	-	Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5					Critical Temperature	R	R

P _c	616	P _c ²	379456
NO.	P _r ²	P _w	P _w ²
1	53824	557	310249
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 5.4829$

AOFP = $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 11,677$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.583$

Absolute Open Flow	10678	Mcf/d @ 15.025	Angle of Slope	-	Slope, n	0.75
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Remarks: Flow through 6" choke nipple.
 No fluid.

Approved By Commission:	Conducted By: Engr. & Prod. Service, Inc.	Calculated By: J. D. Hicks	Checked By:
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