

N MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED BY

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Form C-22
Revised 9-1-65

O. C. D.

ARTISIA OFFICE

CONFIDENTIAL

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		Test Date 4-13-85	
Company CHAMA		Connection TO AIR NEW WELL	
Pool		Formation MORROW	
Completion Date 4-12-85		Total Depth 9640	
Plug (Inch)		Elevation 3404.3 GL	
Frm. Size 4.5		Well No. #1	
Wt. 11.6		Set At 9630	
d 4.000		Perforations: From 9389 To 9414	
Thy. Size 2.375		Unit B	
Wt. 4.7		Sec. 10	
d 1.995		Twp. 20S	
Set At 9312		Hgt. 25E	
Perforations: From 0 To 0		Farm or Lease Name ANDERSON COM	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packoff Set At 9312	
Producing Time TUBING		County EDDY	
Reservoir Temp. °F 200° 9402		State NEW MEXICO	
Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 9402		Prover 0	
H 606		Motor Run 4.026	
G _g .606		Tape FLG	
% CO ₂ .937			
% N ₂ .211			
% H ₂ O			

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
51							2395		3061		4.0
1.	4.03	X	2.000	110.	6.0	103.	2228	103.	2858	6/64	1.0
2.	4.03	X	2.000	120.	11.0	83.	2145	83.	2658	8/64	1.0
3.	4.03	X	2.000	130.	30.0	80.	1800	80	2354	10/64	1.0
4.	4.03	X	2.000	130.	36.0	105.	1735	105.	2277	12/64	1.0
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. Compres. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	27.19	123.2	0.9611	1.2846	1.0080	670.
2	19.81	38.28	133.2	0.9786	1.2846	1.0099	963.
3	19.81	65.54	143.2	0.9813	1.2846	1.0108	1655.
4	19.81	71.80	143.2	0.9594	1.2846	1.0091	1769.
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.18	563.	1.57	0.984	0	58.0	0.606	XXXXXX	676.	358.
2	0.20	543.	1.52	0.981						
3	0.21	540.	1.51	0.979						
4	0.21	565.	1.58	0.982						
5										

$P_c = 2469.8$ $P_w^2 = 6100.$					$(1) \frac{P_c^2}{P_t^2 - P_w^2} = \frac{2.2517}{}$		$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = \frac{1.8948}{}$	
NO	P_t^2	P_w	P_w^2	$P_t^2 - P_w^2$	$AOI = 0 \quad \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = \frac{3352.}{}$			
1	8244.	2304.	5310.	790.				
2	7135.	2144.	4595.	1505.				
3	5604.	1902.	3619.	2481.				
4	5245.	1841.	3391.	2709.				
5								

Absolute Open Flow	3352.	Mcfd @ 15.025	Angle of Slope @	51.8	Slope, n	0.787
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Remarks: B.H.P. MEASURED WITH AMERADA PRESSURE ELEMENTS

Approved By Commission	Conducted By: BENNETT & CATHEY	Calculated By: RICHARD TOWNEY	Checked By: RICHARD TOWNEY
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