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O. C. D.
ARTESIA, OFFICE

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

c15f
File
Form C-122
Revised 9-1-65

CONFIDENTIAL

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		Test Date 4-13-85	
Company CHAMA Pet. Co.		Connection TO AIR NEW WELL	
Pool Cemetery Morrow		Formation MORROW	
Completion Date 4-12-85	Total Depth 9640	Plug lines 9546	Elevation 3404.3 GL
Core Size 4.5	Wt. 11.6	d 4.000	Set At 9630
Thy. Size 2.375	Wt. 4.7	d 1.995	Set At 9312
Perforations: From 9389 To 9414		Well No. #1	
Perforations: From 0 To 0		Unit B	Sec. Twp. Hgt. 10 20S 25E
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE		Packer Set At 9312	County EDDY
Producing thru TUBING	Reservoir Temp. °F 200° 9402	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
L 9402	H 606	% CO ₂ .937	% N ₂ .211
Prover 0		Motor Run 4.026	
Taps FLG			

FLOW DATA						TUBING DATA		B.H.P. 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.		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. Compress. Factor, F _{sp}	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 ₁	Temp. °R	T ₁	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				XXXXXX		
3	0.21	540.	1.51	0.979				XXXXXX		
4	0.21	565.	1.58	0.982						
5										

NO.	P ₁ ²	P _w ²	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_1^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n =$
1	8244.	2304.	5310.	790.	2.2517	1.8948
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

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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Post ID-2
10-4-85
Comp + BK