

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

SK
Fall
Form C-122
Revised 9-1-67

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DEC 7 1981
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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-9-81		O. C. D. ARTESIA, OFFICE	
Company Mesa Petroleum Co. ✓				Connection Unconnected			
Pool Undesignated ABO				Formation ABO		Unit	
Completion Date 11-9-81		Total Depth 4124		Plug Back To 4084		Elevation 3702	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 4124	Perforations: From 3724 To 3925.5		Well No. 1	
Tub. Size 2 3/8	Wt. 4.7#	d	Set At 3627	Perforations: From Open ended		Unit Ser. Twp. Rge. J 12 7S 25E	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 3627	H 3627	Gg .65	% CO ₂ 1	% N ₂ 1	% H ₂ S	Prover 2" Orifice	Meter Run Well Tester

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
5!							775		780		48 hr. SI
1.	2" Orifice	3/4		20		50	180	74	255		1 hr.
2.	Well										
3.	Tester										
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, Mgd
1	375	2" Orifice Well		1.0098	.9608		364
2		Tester					
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Sbl.
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

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1293$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1293$
1		268	72	557		
2						
3						
4						
5						

Q = 410

ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 410$

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1293$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1293$

Absolute Open Flow	410	Mcf @ 15.025	Angle of Slope	450	Slope, n	1
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Remarks: Unable to run four flow rates due to low delivery of well. Assumed n = 1 and based calculations on one point test.

Approved By Commission:	Conducted By: James Craig	Calculated By: E.L. Buttross, Jr.	Checked By:
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Waco No. 1
Sec. 12, T7S, R25E
Chaves Co., NM

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ARTESIA OFFICE

