

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OCT 14 '94

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

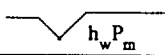
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Collins & Ware, Inc.					Lease or Unit Name Ram EWE Federal Comm				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/12/94		Well No. 1		
Completion Date 7/6/93		Total Depth 11,750		Plug Back TD 10,938		Elevation 3314.8 GR		Unit Ltr. - Sec. - TWP - Rge. J 28 22s 26e	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 11,750	Perforations: From: 9450 To: 9540			County Eddy		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9,337	Perforations: From: Open To: Ended			Pool SE Bartstad Undesignated		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 8492			Formation Wolfcamp		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Llano	
L 9337	H 9337	Gg .594	% CO ₂ 1.01	% N ₂ .90	% H ₂ S	Prover		Meter Run 3.068	Taps FLG

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice X Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						785		PKR	
1.	3.068	x 1.125	40	2.3	70	70	70		
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd
1.	6.095	11.06	53.2	.9905	1.298	1.002	87
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.08	530	1.50	.996	A.P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.					Specific Gravity Separator Gas	.594	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	* 676	P.S.I.A.
5.					Critical Temperature	* 353	R

P_c 798.2 P_c² 637.1

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		84.7	7.2	630.0
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.011$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.011$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .088$

Absolute Open Flow	88	Mcf/d @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks: No Fluid

* Corrected to 1.01% CO₂ and .90% N₂

Approved By Division	Conducted By: Keith Norvell	Calculated By: Bob Murray	Checked By: Bob Murray
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