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

State of New Mexico
Energy, Minerals and Natural Resources Depar.t

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Form C-122
Revised 4-1-91

ASF File

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: COLLINS & WARE						Lease or Unit Name: RAM EWE FEDERAL			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 7/6/93		Well No.: 1	
Completion Date		Total Depth: 11750		Plug Back TD: 11659		Elevation		Unit Ltr. - Sec. - TWP - Rge.: J 33 22 26	
Csg. Size: 7 & 4½"	Wt.	d	Set At: 11750	Perforations: From: 10998		To: 11171		County: EDDY	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 10949	Perforations: From:		To:		Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 10949				Formation: S. Carlsbad MORROW	
Producing Thru: TBG	Reservoir Temp. °F: 184 @ 11000		Mean Annual Temp. °F: 60°	Baro, Press - P_a: 13.2				Connection	
L: 10949	H: 10949	Gg: .581	% CO_2: .81	% N_2: 1.69	% H_2S	Prover		Meter Run: 4.026	Taps: FLG

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					3180		PKR		72 HRS
1.	4 X 1.250	330	16.00	72	2615		"		1 HR
2.	4 X 1.250	330	25.00	68	2185		"		1 HR
3.	4 X 1.250	330	39.00	69	1727		"		1 HR
4.	4 X 1.250	330	42.00	75	1335		"		1 HR
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 Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	7.469	74.10	343.2	.9887	1.312	1.027	737
2.	7.469	92.63	343.2	.9924	1.312	1.027	925
3.	7.469	115.69	343.2	.9915	1.312	1.027	1154
4.	7.469	120.06	343.2	.9859	1.312	1.027	1191
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.51	532	1.53	.948
2.	.51	528	1.52	.948
3.	.51	529	1.52	.948
4.	.51	535	1.54	.948
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .581 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: * 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: * 347 R ____ R

P_c 3193.2 P_c^2 10196.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		2631.5	6924.6	3271.9
2.		2204.3	4858.8	5337.8
3.		1752.1	3070.0	7126.5
4.		1364.9	1863.0	8333.6
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.431$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.216$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.403$

Absolute Open Flow: 1,403 Mcfd @ 15.025 | Angle of Slope θ: 61.5 | Slope, n: .545

Remarks: TRACE OF FLUID DURING TEST

*= CORRECTED TO 1.69% N2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JOHN WEST ENG. CO	GW & BM	GW & BM