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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

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

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: DEVON ENERGY		Lease or Unit Name: PURE FED.	Well No.: 3
Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 12-3-98	Unit Ltr. Sec. TWP. Rge.: G 11-21-25
Completion Date	Total Depth	Plug Back TD	Elevation	County: EDDY
Csg. Size: 5 1/2	Wt.: 17#	d	Set At	Perforations: From 10282 To 10292	Pool
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 10205	Perforations: From To	Formation: Avalon MORROW
Type Well - Single Bradenhead G.G. or G.O. Multiple: SINGLE		Packer Set At: 10205			Connection
Producing Thru: TBG	Reservoir Temp. °F: 166.5 @ 10282	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2		
L: 10205	H: 10205	Gg: .609	% CO_2: 2.809	% N_2: .619	% H_2S	Prover	Meter Run: 4.026	Taps: FLG

NO.	FLOW Prover Line Size	X	Orifice Size	Press. psig	Diff. h_w	Temp. °F	TUBING DATA Press. psig	Temp °F	CASING DATA Press psig	Temp °F	Duration of Flow
SI							1042		PKR		24 HRS
1.	4	X	1.500	513	1.00	70	978		"		1 HR.
2.	4	X	1.500	535	2.30	100	815		"		" "
3.	4	X	1.500	550	4.00	105	690		"		" "
4.	4	X	1.500	550	2.90	105	590		"		" "
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, Fpv	Rate of Flow Q, Mcfd
1.	10.84	22.94	526.2	.9905	1.281	1.041	328
2.	10.84	35.51	548.2	.9636	1.281	1.034	491
3.	10.84	47.46	563.2	.9594	1.281	1.034	654
4.	10.84	40.41	563.2	.9544	1.281	1.034	557
5.							

NO.	P_r	Temp °R	T_r	Z
1.	.77	530	1.50	.923
2.	.81	560	1.58	.936
3.	.83	565	1.60	.934
4.	.83	565	1.60	.934
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY GAS Deg.
Specific Gravity Separator Gas: .609 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: * 676 P.S.I.A. P.S.I.A.
Critical Temperature: * 353 R R

P_c 1055.2 P_c^2 1113.4

NO.	P_w	P_w^2	$P_c^2 - P_w^2$
1.	992.9	985.8	127.6
2.	832.8	693.6	419.8
3.	713.0	508.4	605.1
4.	611.6	374.1	739.4

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 8.723

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.947

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = .967

Absolute Open Flow: 967 Mcfd @ 15.025 Angle of Slope θ: 63.5° Slope = .499

Remarks: PRODUCED NO FLUID

* CORRECTED TO 2.809% CO2

Approved By Division	Conducted By	Calculated By	Checked By
	METERING & TESTING	BM	BM