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State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

OIL CON. DIV.

DIST. 2

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.						Lease or Unit Name Jeter					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-15-93		Well No. 4			
Completion Date 12-21-92			Total Depth 1274'			Plug Back TD 1200'		Elevation 6195' GL		Unit Lr. - Sec. - TWP - Rge. A - 1 - 25N - 13W	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 1274'		Perforations: From: 1128 To: 1154		County San Juan		Pool	
Tbg. Size 1 1/2"		Wt. 2.9#		Set At 1118'		Perforations: From: To:		Basin Fruitland Coal		Formation Fruitland Coal	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At N/A		Connection			
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. P _a 12		Meter Run Taps			
L	H	G _g 0.58	% CO ₂	% N ₂	% H ₂ S	Prover					

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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	
SI	2	3/4				115	62	115		7 days
1.										
2.	2	3/4				16		75		3 hrs
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11		28	0.9981	1.313	1	404
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mc/bbl
1.				0.998	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.		87	7,569	8,560
2.				
3.				
4.				
5.				

P_c 127 P_c² 16,129

1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.88$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.71$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 692$

Absolute Open Flow	692	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.85
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Remarks:

Approved By Division	Conducted By: Mark Brown	Calculated By: John Alexander	Checked By:
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