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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 Dugan Production Corp.					Lease or Unit Name Marley				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-9-95		Well No. 1		
Completion Date 12-19-94		Total Depth 1420'		Plug Back TD 1363		Elevation 6640		Unit Loc. Sec. TWP. Rge. N- 36 23N 9W	
Csg. Size 2-7/8"		Wt. 6.5		Set At 1413		Perforations: From: 1178 To: 1270		County San Juan	
Tbg. Size 1-1/4"		Wt. 2.4		Set At 1193		Perforations: From: To:		Pool Bisti Chacra	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single - gas					Packer Set At ---		Formation Chacra		
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. P _a 12		Connection	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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.	Temp. °F	
SI						235		235		7 days
1.										
2.										
3.	3/4" choke					1	60°	50		3 hrs.
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_a}$	Pressure P _a	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							
2.							
3.	11		13	1.000	1.29	1.00	184
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl
1.					A.P. L 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

P_a 247 P_w 61,009

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.				
2.				
3.		62	3844	57,165
4.				
5.				

1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.0672$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^{.85} = 1.0569$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^{.85} = 194$

Absolute Open Flow 194 Mcfd @ 15.025 Angle of Slope θ Slope, n .85

Remarks: very light spray of water

Approved By Division	Conducted By: Hall	Calculated By: Alexander	Checked By:
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