

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/25/82	
Company DUGAN PROD CORP		Connection	
Pool BALLARD		Formation PICTURED CLIFFS	
Completion Date JULY 14, 1982	Total Depth 2400	Plug Back TD 2362	Elevation 6681
Coq. Size 2 1/2		Set At 2390	Perforations From 2334 to 2344
Well No. 5 R		Form or Case Name HARRIS	
Fig. Size 1 1/4	Set At 2334	Perforations From open end	
Type Well - Single - Brdhead - G.C. or G.O. Multiple Single - Gas		Packer Set At	County Rio Arriba
Producing Through Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	State New Mexico
L	R	Co	Prover
		0.62	
% CO ₂	% N ₂	% H ₂ S	Meter Run
			Tap

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X Orifice Choice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						305		305	
1.									
2.									
3.	2	1/16	36		60			200	3 hr
4.									
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _{in}	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	4.1423		48	1.000	0.9937	1.000	176
4							
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					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	P _w	P _i ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.5091$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.655$
1							
2							
3		212	44944	33544			
4							
5							

AOF = 0 $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 324$

Absolute Open Flow	324	Mcf @ 15.025	Angle of Slope @	Slope, n	0.85
Remarks: Well spraying in them and some water.					

Approved By Division	Conducted By: Eric Enkelhorn	Calculated By: Eric Enkelhorn	Checked By:
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