

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-26-85	
Company DUGAN PRODUCTION CORP.		Connection	
Pool Basin Dakota		Formation Dakota	
Completion Date 9-19-85	Total Depth 5832'	Plug Back TD 5785'	Elevation 5460' RKB
Farm or Lease Name Nice		Well No. 1	
Csq. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 5829
Thq. Size 2-1/16"	Wt. 3.25#	d 1.751"	Set At 5586
Perforations: From 5557 To 5604'		Perforations: From Open End To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At	
Producing Thru tubing		Baro. Press. - P _a	
Reservoir Temp. °F #		Mean Annual Temp. °F	
County San Juan		State New Mexico	
L	H	G _g .65 est.	% CO ₂
% N ₂		% H ₂ S	
Prover		Meter Run	
Taps			

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow		
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	
SI							1350		1600		7 days
1.											
2.											
3.	3/4" Pos. Choke			76		60°			420		3 hrs
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							
2.							
3.	12.365		88	1.000	.9608	1.000	1045
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcft/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons <td>°deg.</td>	°deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1612	P _c ² 2,598,544	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0774$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0575$
NO.	P _i ²	P _w	P _w ²
1			
2			
3	432	186,624	2,411,920
4			
5			

Absolute Open Flow 1105 Mcfd @ 15.025		Angle of Slope θ	Slope, n 75
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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