

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-28-81			
Company Dugan Production Corp.				Connection					
Pool South Blanco				Formation Pictured Cliffs				Unit	
Completion Date 11-13-81		Total Depth 3550		Plug Back TD 3513		Elevation 7515' GL		Farm or Lease Name Emerald	
Coq. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 3539	Perforations: From 3454 To 3472		Well No. 1			
Tbg. Size 1 1/4"	Wt. 2.4#	d 1.380	Set At 3458	Perforations: From open ended To		Unit M	Sec. 17	Twp. 24N	Rge. 1W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single gas				Packer Set At none		County Rio Arriba			
Producing Thru Tbg.		Reservoir Temp. *F		Mean Annual Temp. *F		Baro. Press. - P _a		State New Mexico	
L	H	G _g .62 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							320		830		
1.											
2.											
3.	2"	1/2"	PosCh	41		56			432		3 hrs.
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							
2							
3	5.4315		68	1.0039	0.9837	1.000	365
4							
5							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbon	Deg.
2					Specific Gravity Separator Gas	X X X X X
3					Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _r	P _w	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.385$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^{.85} = 1.319$
1					
2					
3		444	197,136	511,828	
4					
5					

Absolute Open Flow 481 Mcfd @ 15.025 Angle of Slope 0 Slope, n 0
 Remarks: Spray of water

Approved By Division	Conducted By Dugan	Calculated By Dugan	Checked By
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