

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 11-29-82	
Company Dugan Production Corp.				Connection	
Pool WAW				Formation Pictured Cliffs	
Completion Date 12-1-75		Total Depth 1480		Plug Back TD 1420	
				Elevation 5962' G.L.	
Ceq. Size 2 7/8		WI. 6.4		Perforations From 1343 To 1357	
d 2.441		Set At 1459		Well No. 1	
Teg. Size 1 1/4		WI. 2.4		Perforations From open ended to	
d 1.380		Set At 1360		Unit Soc. Twp. R. L 5 27N 13W	
Type Well - Single - Drydenhead - G.C. or G.O. Multiple Single Gas				Packer Set At None	
Producing thru Tbg		Reservoir Temp. °F #		Baro. Press. - P _a 12 Est	
Mean Annual Temp. °F		County San Juan		State New Mexico	
L H		Cg 0.644		% 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	
1.	2"	7/16	4.5				231	45	248	50	1 hr
2.											
3.	2"	7/16	4.0					45	24		2 hrs
4.											
5.	2"	7/16	3.2					45	26		3 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.1712		16.5	1.0147	0.9645	1.00	67
2							
3	4.1712		16.0	1.0147	0.9645	1.00	65
4							
5	4.1716		15.2	1.0147	0.9645	1.00	62

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2										
3										
4										
5										

NO.	P ₁	P _w	P ₂	P ₂ - P _w	(1) $\frac{P_c^2}{P_2^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n =$
1						
2						
3		38	784	66816		
4						
5						

Absolute Open Flow				Mcf @ 15.025		Angle of Slope		Slope, n		
63								0.85		
Remarks: Light Spray Water Withness by Doug Campbell and Marko Keenan										
Approved By Division			Conducted By			Calculated By			Checked By	