

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-24-81									
Company Dugan Production Corp.				Connection									
Pool Basin Dakota				Formation Dakota									
Completion Date 6-11-81		Total Depth 6456'		Elevation 6942									
Ceq. Size 4-1/2"		Set At 6456		Perforations From 6352' To 6377'									
Tbg. Size 2-3/8"		Set At 6354		Perforations From open end To									
Type Well - Single - Drdthead - G.G. or G.O. Multiple Single - gas				Packer Set At 6259'									
Producing Thru tbg.		Reservoir Temp. °F		Baro. Press. - P _a									
L		H		County San Juan									
G _g		% CO ₂		State NM									
.65													
FLOW DATA			TUBING DATA		CASING DATA								
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	Duration of Flow		
1.							2195				7 days		
2.													
3.	3/4" pos. choke						121	62°			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.	12.365		132	.9981	.9608	1.011	1582						
4.													
5.													
NO.	F _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/ubl. A.P.I. Gravity of Liquid Hydrocarbon _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Liquid _____ Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R								
1.					JUN 29 1981 OIL CON. COM. DIST. 3								
2.													
3.													
4.													
5.													
NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_w^2 - P_w^2} = 1.0036$ (2) $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 1.0027$								
1.													
2.													
3.		132	17424	4853425	AOF = Q $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 1586$								
4.													
5.													
Absolute Open Flow					1586			Mcf @ 15.025		Angle of Slope		Slope, n .75	
Remarks:													
Approved by Division				Conducted by: Hall				Calculated by: Hall				Checked by:	