

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date					
Company Dugan Production Corp.					Connection					
Pool Basin Dakota					Formation Dakota					
Completion Date 9-18-79		Total Depth 6627'		Plug Back TD 6590'		Elevation 5792'		Farm or Lease Name McKenzie		
Csg. Size 4-1/2	Wt. 10.5	d	Set At 6620'	Perforations: From 6448 To 6574		Well No. 1E				
Tbg. Size 1-1/2	Wt. 2.9	d	Set At 6550'	Perforations: From Open To End		Unit D	Sec. 20	Twp. 30	Rge. 12	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan			
Producing Thru tbg		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico		
L	H	G _g .65	% 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.
SI							1848		1848	
1.										
2.										
3.	3/4" Pos. Choke						43	70	575	
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	12.368		55	.9905	.9608	1.006	651			
4										
5										
NO.	P _t	Temp. °R	T _r	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	
P _c 1860		P _c ² 3459600								
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1106$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n-1} = 1.0819$			
1										
2										
3										
4										
5										
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 704$										
Absolute Open Flow 704 Mcfd @ 15.025					Angle of Slope θ _____			Slope, n .75		
Remarks: Light to medium spray during test										
Approved By Commission:			Conducted By: Hall			Calculated By: Hall			Checked By:	

