

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SEP 27 1993

OIL CON. DIV
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.						Lease or Unit Name Joplin					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-3-93					
Completion Date 8-17-93						Well No. 1					
Total Depth 1485'						Plug Back TD 1448'					
Cig. Size 2-7/8"						Elevation 6735' GL (est.)					
Wt. d 6.5#						Set At 1483'					
Perforations: From: 1230 To: 1335						Unit Tr. - Sec. - TWP - Rge. A-12-22N-9W					
County San Juan						Pool Undes. Chacra					
Tbg. Size 1-1/4"						Set At 1258'					
Perforations: From: To:						Formation Chacra					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At					
Producing Thru tubing						Baro. Press. - P _s					
Reservoir Temp. °F						Mean Annual Temp. °F					
L H						Meter Run Taps					
Gg .635						% CO ₂					
% N ₂						% H ₂ S					
Prover						Prover					
FLOW DATA											
TUBING DATA											
CASING DATA											
Duration of Flow											
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow	
SI						240		240		8 day SI	
1.											
2.											
3.	3/4" choke					6	65°	100		3 hrs	
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_v P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1.											
2.											
3.	11		18	0.9952	1.255	1.0013	248				
4.											
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl						
1.				.9974	A.P. I. Gravity of Liquid Hydrocarbons Deg.						
2.					Specific Gravity Separator Gas XXXXXXXXXX						
3.					Specific Gravity Flowing Fluid XXXXX						
4.					Critical Pressure P.S.I.A. P.S.I.A.						
5.					Critical Temperature R R						
P _i 252 P _u 63,504											
NO.	P _i ²	P _u ²	P _u ²	P _i ² · P _u ²	1) $\frac{P_i^2}{P_i^2 - P_u^2} = 1.2462$ (2) $\left[\frac{P_i^2}{P_i^2 - P_u^2} \right]^2 = 1.2057$						
1.											
2.											
3.		112	12,544	50,960	AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_u^2} \right]^2 = 299$						
4.											
5.											
Absolute Open Flow 299 Mcfd @ 15.025 Angle of Slope 0 Slope, a 0.85											
Remarks:											
Approved By Division				Conducted By: Brown				Calculated By: Alexander			
Checked By:											