

3 NMOCD

1 File

1 EPNG

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☐ Initial		☐ Annual		☒ Special		Test Date		9-6-85	
Company				Connection							
DUGAN PRODUCTION CORP.											
Pool				Formation				Unit			
Basin Dakota				Dakota							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
8-30-85				6530'				La Rose			
Csq. Size	Wt.	d	Set At	Perforations:		To		Well No.			
				From				1			
Tbg. Size	Wt.	d	Set At	Perforations:		To		Unit Sec. Twp. Rge.			
2-3/8"	4.7#	1.995	6477'	From		Open End		K, Sec.22,T31N,R13W			
Type Well - Single - Brodenhead - G.C. or G.O. Multiple				Packer Set At		County					
Single Gas				6289'		San Juan					
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
Tubing								New Mexico			
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
		.65 est									
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							1250		0		7 days
1.											
2.											
3.	3/4" positive ch.			58		62°			0		3 hrs
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1											
2											
3	12.365		70	.9981	.9608	1.000	830				
4											
5											
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2					Specific Gravity Separator Gas _____ X X X X X X X X X						
3					Specific Gravity Flowing Fluid _____ X X X X X						
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.						
5					Critical Temperature _____ R _____ R						
P _c 1262 P _c ² 1,592,644					(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.0133$ (2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^{.75} = 1.0100$						
NO.	P _t ²	P _w	P _w ²	P _e ² - P _w ²	AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 838$						
1											
2											
3	4900	145	21,025	1,571,619							
4											
5											
Absolute Open Flow 838 Mcfd @ 15.025					Angle of Slope θ			Slope, n .75			
Remarks: *This well was re-worked											
Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____											

