

3 NMOCD

1 File

1 EPNG

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTForm C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 5-1-85	
Company Dugan Production Corp.		Connection	
Pool WAW P.C. - Fruitland		Formation Pictured Cliffs	
Completion Date		Total Depth	Plug Back TD 1201'
			Elevation 6006' GL
Csg. Size 2-7/8"		Wt. 6.5#	Set At
Tbg. Size 1 1/4"		Wt. 2.4#	Set At 1122
Perforations: From 1132' To 1149'		Well No. 1	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At	
Producing Thru		Reservoir Temp. °F	Mean Annual Temp. °F
Baro. Press. - P _a		State New Mexico	
L	H	G _g	% CO ₂
		.62 est	% 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.							185		185		7 days
2.											
3.	1/2" pos. choke			4		72°			125		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.	5.4315		16	.9887	.9837	1.000	85
4.							
5.							

NO.	P _t	Temp. °R	T _t	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
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

NO.	P _t ²	P _w ²	P _e ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.9366$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^{.85} = 1.7538$
1.						
2.						
3.		137	18,769	20,040		
4.						
5.						

Absolute Open Flow _____ 149 _____ Mcfd @ 15.025		Angle of Slope Θ _____		Slope, n _____ .85	
Remarks: This is a special test after frac job.					
Approved By Division		Conducted By: Brown		Calculated By: Jacobs	
				Checked By:	