

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 875013 NMOCD 1 McHugh
1 EPNG 1 FileForm C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-25-83	
Company Dugan Production Corp.				Connection	
Pool WAW Fruitland P.C.				Formation Pictured Cliffs	
Completion Date 8-18-83		Total Depth 1403'		Plug Back TD 1340	
				Elevation 6111' GL	
Farm or Lease Name Baby Doe				Well No. 1J	
Csq. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 1403'	Perforations: From 1307 To 1327	
Tbg. Size 1-1/4"	Wt. 2.4	d 1.380	Set At 1302'	Perforations: From Open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - gas				Packer Set At ---	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Base. Press. - P _a	
State New Mexico					
L	H	G _g	% 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.		Temp. °F
SI							190		200		7 days
1.	7/16" positive choke						8	65°	180		3 hrs
2.											
3.											
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	4.1423		20.2	.9952	.9837	1.00	82
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____ X X X X X X X X
2.					Specific Gravity Flowing Fluid _____ X X X X X
3.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
4.					Critical Temperature _____ R _____ R
5.					

P _c 212	P _c ² 44,944	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.56$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.2$
NO.	P _t ²	P _w	P _w ²
1		192	36,864
2			
3			
4			
5			

Absolute Open Flow 344 _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: Well misting heavily throughout test.			
Approved By Division	Conducted By:	Calculated By: S. Dugan	Checked By: