

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JAN 05 1981

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-28-83				
Company Dugan Production Corp.				Connection					
Pool WAW P.C. Fruitland				Formation Pictured Cliffs				Unit DIST. 3	
Completion Date 12-21-83		Total Depth 1450'		Plug Back TD 1406'		Elevation 6046' GL		Farm or Lease Name KR	
Csq. Size 2-7/8"	Wt. 6.4#	d 2.441	Set At 1437'	Perforations: From 1298 To 1323			Well No. 3J		
Thg. Size 1 1/2"	Wt. 2.75#	d 1.610	Set At 1313'	Perforations: From Open End To			Unit I	Sec. 20	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		County San Juan			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .62 est.	% 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							120		120		7 days
1.											
2.											
3.	7/16" Pos. Choke			9		380			14		3 hrs.
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	4.1712		21	1.022	.9837	1.000	88
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
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	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0471$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0399$
1						
2						
3		28	784	16,640		
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 92$

Absolute Open Flow	92	Mcfd @ 15.025	Angle of Slope Θ	Slope, n	.85
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Remarks: _____

Approved By Division	Conducted By: Brown	Calculated By: Jacobs	Checked By:
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