

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

SEP 26 1983
OIL CON. DIV.
DIST. 3

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 9-3-83		
Company Dugan Production Corp.			Connection		
Pool WAW Fruitland P.C.			Formation Fruitland P.C.		
Completion Date 8-15-83		Total Depth 1450'	Plug Back TD 1409'	Elevation 6038'GL	Farm or Lease Name Uncle Sam
Csq. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 1441 G.L.	Perforations: From 1328 To 1338	
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 1318'	Perforations: From Open End To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Gas			Packer Set At -----		County San Juan
Producing Thru tbg.	Reservoir Temp. °F ●	Mean Annual Temp. °F	Baro. Press. - P _a		State NM
L	H	G _g .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	Duration of Flow
1.							240		240		
2.	1/2" pos. choke			5		60 ⁰			150		3 hrs
3.											
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.	5.4315		17	1.000	.9837	1.000	91
3.							
4.							
5.							

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

P _c 252		P _c ² 63,504		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7043$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5733$	
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 143$		
1.							
2.		162	26,244	37,260			
3.							
4.							
5.							

Absolute Open Flow 143 Mcfd @ 15.025 Angle of Slope @ _____ Slope, n .85

Remarks: Note - well making slugs of water

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