

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date 3-20-79				
Company Dugan Production Corp.					Connection				
Pool Harper Hill					Formation Fruitland PC		Unit		
Completion Date 2-22-79		Total Depth 1415'		Plug Back TD 1389'		Elevation 5563'		Farm or Lease Name Federal I	
Csg. Size 2-7/8	Wt. 6.4	Id	Set At 1409	Perforations: From 1143 To 1243		Well No. 6			
Tbg. Size 1-1/4	Wt. 2.4	Id	Set At 1232	Perforations: From open ended to		Unit Soc. Twp. Rge. G 1 29N 14W			
Type Well - Single - Bradenhead - G.G. 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 _g		State New Mexico	
L	H	G _g 0.64	% 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.	
SI							277		281	
1.										
2.										
3.	3/4 "						12	66	134	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	12.3650		24	.9943	.9682	1.000	286
4							
5							

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

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	293		85849		
2					
3		146		21316	64533
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.33$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 364$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 1.2746$$

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____	
Remarks: Heavy spray of water			

Approved By Commission:	Conducted By: Dugan	Calculated By: Dugan	Checked By:
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