NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 14 1969
OIL CON. COM.
DIST. 3

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 10-3-69
Company: Dugan Prod Corp. ~~Thomas A Dugan~~	Connection: E.P.N.G.		Unit: J
Pool: Undesignated	Formation: P.C. & Fruitland (Comm. ...)		Farm or Lease Name: Federal I
Completion Date	Total Depth: 1274'	Plug Back TD: 1265'	Elevation
Csg. Size: 2 1/2" / Wt.: 4.5# / d: / Set At: 1268		Perforations: From 810 / 1203 To 865 Fr. / 1208 PC.	Well No.: 4
Tbg. Size: 1 1/2" / Wt.: 2.4# / d: 1.380 / Set At: 1206		Perforations: From Open End To	Unit: C / Sec.: 1 / Twp.: 29N / Rge.: 14W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G.G Dual - Commingling Order R-3752		Packer Set At	County: San Juan
Producing Thru: Tbg. / Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.60						

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI						
1.						
2.	3/4" Pos Ch			55		65°
3.						
4.						
5.						

TUBING DATA

NO.	Press. p.s.i.g.	Temp. °F
SI	367	
1.		
2.		
3.		
4.		
5.		

CASING DATA

NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	262		
1.			
2.	242		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2.	7.5417		67	.9952	1.000	1.000	570
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 379 P_c^2 143,641

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2		278	75,076	68,565
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0950$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.8750$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1069$

Absolute Open Flow 1069 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jim Jacobs	Jim Jacobs	