

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 875013 NMOCC
1 File
1 MFForm C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-5-83		AUG 9 - 1983	
Company Dugan Production Corp.				Connection			
Pool Dakota				Formation Dakota		Unit	
Completion Date 7-30-83		Total Depth 5903'		Plug Back TD 5801'		Elevation 5510' KDB	
Farm or Lease Name Turk's Toast				Well No. 2			
Csq. Size 4 1/2"	Wt. 10.5	d 1.751	Set At 5903'	Perforations: From 5623' To 5727'		Unit Sec. Twp. Rge. D 19 30N 14W	
Tbg. Size 2-1/16"	Wt. 3.25	d 1.751	Set At 5585'	Perforations: From To		Unit Sec. Twp. Rge. D 19 30N 14W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 5585'		County San Juan	
Producing Thru tubing		Reservoir Temp. °F 141 @ 5900		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
State New Mexico							
L	H	G _g 0.65 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							1700#	68°	Pkr		SI
1.	1/2" positive choke						47		Pkr		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	5.4315			.9924	.9608		
2.			59			1.006	307
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	1712	59	2930.9	3.5	2927.5
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.001}{1.001}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 307$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.001}{1.001}$$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n 0.75
--	------------------------	---------------

Remarks: Dry Gas throughout test. Tubing friction ignored.

Approved By Division	Conducted By: Mark Brown	Calculated By: Mark Brown	Checked By:
----------------------	-----------------------------	------------------------------	-------------