

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-24-78			
Company Dugan Production Corp.				Connection				
Pool WAW				Formation Pictured Cliff				Unit
Completion Date 5-8-78		Total Depth 1456'		Plug Back TD 1417'		Elevation 6154'		Farm or Lease Name Faf
Csg. Size 2-7/8	Wt. 6.4	d	Set At 1451'	Perforations: From 1335 To 1345				Well No. 4
Tbg. Size 1-1/4	Wt. 2.3	d	Set At 1333'	Perforations: From Open To End				Unit Sec. Twp. Rge. K 30 27N 13W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas					Packer Set At		County San Juan	
Producing Thru tbq		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps
			.62					

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							186		186		7 days
1.											
2.											
3.	1/2 Pos. Choke						16	76°	34		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.	5.4315		31	.9850	.9837	1.000	163
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

P _c 198 P _c ² 39204				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3		46	2116	3.7088
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0571}{1.0442}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0442}{1.0442}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 170$$

Absolute Open Flow 170 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: _____			
Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By: