

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 4-4-78				
Company Dugan Production Corp.				Connection					
Pool WAW				Formation Pictured Cliff				Unit	
Completion Date 3-24-78		Total Depth 1475'		Plug Back TD 1420'		Elevation 6094'		Farm or Lease Name KR	
Csg. Size 2-7/8"	Wt. 6.4#	d	Set At 1450'	Perforations: From 1341 To 1351		Well No. #8			
Tbg. Size 1-1/4"	Wt. 2.3#	d	Set At 1354'	Perforations: From Open To End		Unit H	Sec. 19	Twp. 27N	Rge. 13W
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 _a		State NM	
L	H	G _g .62	% 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							245		250		7 days
1.											
2.											
3.	5/8" Pos Choke						5	52°	12		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	8.5417		17	1.008	.9837	1.000	143
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 262 P _c ² 68644				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2				
3		24	576	68068
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0084}{1.0071}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0071$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 144$$

Absolute Open Flow 144 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: _____			
Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By: