

3-NMOCC

2-Southland Royalty

1-File

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 9-23-78	
Company Dugan Production Corp.				Connection		
Pool NIPP - PC				Formation Pictured Cliffs		Unit
Completion Date 9-3-78		Total Depth 1235'		Plug Back TD 1110'		Elevation 6038' GR
Farm or Lease Name County Seat		Well No. 1R				
Csg. Size 2-7/8	Wt. 6.5	d	Set At 1217'	Perforations: From 1091 To 1099		Unit M
Tbg. Size 1-1/4	Wt. 2.4	d	Set At 1106'	Perforations: From Open To End		Soc. 21 Twp. 26 Rge. 12
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		State New Mexico
L	H	Gg .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							181		181		7 days
1.											
2.											
3.	5/8" Pos. Choke						1	740	48		3 hrs
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							
2							
3	8.5417		13	.9868	.9837	1.000	107
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 193	P _c ² 37249	
NO.	P _t ²	P _w ²
1		
2		
3	60	3600
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1069$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 116$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0896$

Absolute Open Flow	116	Mcf @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: _____

Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By:
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