

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 5-3-78			
Company Dugan Production Corp.				Connection					
Pool NIPP				Formation Pictured Cliffs				Unit	
Completion Date 4-26-78		Total Depth 1220'		Plug Back TD 1177'		Elevation 5972' GR		Farm or Lease Name Hard Deal	
Csg. Size 2-7/8"	Wt. 6.4#	d	Set At 1207'	Perforations: From 1126 To 1146'		Well No. 2R			
Tbg. Size 1-1/4"	Wt. 2.3#	d 1.380	Set At 1134'	Perforations: From Open End To		Unit H	Sec. 18	Twp. 26N	Rge. 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County San Juan	
Producing Thru		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .62 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.	
SI							187		188	
1.										
2.										
3.	5/8" Pos. Ch.		8.5			60°			29	
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		20.5	1.000	.9837	1.000	172
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____	XXXXXXX
2.					Specific Gravity Flowing Fluid _____	XXXXX
3.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
4.					Critical Temperature _____ R	_____ R
5.						

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0439$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0372$
1						
2						
3		41	1681	38.319		
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 178$			
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Absolute Open Flow <u>178</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>.85</u>
Remarks: _____			
Approved By Commission:	Conducted By: Williams	Calculated By: Jacobs	Checked By: