

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-17-80				
Company Dugan Production Corp.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 1-7-79		Total Depth 6180'		Plug Back TD 6159'		Elevation 5620'		Farm or Lease Name Jacobs	
Coq. Size 4-1/2"	Wt. 10.5#	d	Set At 6183'	Perforations: From 5872 To 6034		Well No. #2			
Tbg. Size 1-1/2"	Wt. 2.9#	d	Set At 6027'	Perforations: From Open To End		Unit Sec. Twp. Rge. G 26 30 14			
Type Well - Single - Bradenhead - G.C. 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 New Mexico	
L	H	Gg .65	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Tape	

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							2005		2015		7 days
1.											
2.											
3.	3/4" Pos Choke						147	600	910		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 Fg	Super Compress. Factor, Fpv	Rate of Flow O, Mcfd
1							
2							
3	12.365		159	1.000	.9608	1.016	1919
4							
5							

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

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.2609$	(2) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.899$
1						
2						
3		922	850084	3258645		
4						
5						

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2283$

Absolute Open Flow 2283 Mcfd @ 15.025 Angle of Slope ϕ 75

REL

JAN 21 1980

OIL CON. COM.

DIST. 3

Approved by Division	Conducted by H-11	Calculated by H-11	Checked by Jacobs
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