

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-15-80	
Company Dugan Production Corp.		Connection	
Pool WAW Fruitland P.C.		Formation Pictured Cliffs	
Completion Date 5-1-80	Total Depth 1420'	Plug Back TD 1374'	Elevation 6069 GL
Farm or Lease Name La Lee Ann		Well No. #1	
Csg. Size 2-7/8"	Wt. 6.5#	Set At 1413	Perforations: From 1322 To 1332'
Tbg. Size 1-1/4"	Wt. 2.3#	Set At 1323'	Perforations: From open end To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single - gas		Packer Set At	County San Juan
Producing Thru tubing	Reservoir Temp. °F 8	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.		Temp. °F
SI							174		174		7 days
1.											
2.											
3.	1/2" pos. choke			34		60 ⁰			64		
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	5.4315		46	1.000	.9837	1.000	246
4							
5							

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

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OIL CON. COM.
DIST. 3

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2004$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.1680$
1						
2						
3		76	5776	28,820		
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 287$

Absolute Open Flow	287	Mcf @ 15.025	Angle of Slope	Slope, n .85
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Remarks:

Approved By Division	Conducted By: Hall	Calculated By:	Checked By: Jacobs
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