

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-11-91		JAN 17 1991			
Company Dugan Production Corp.						Connection					
Pool Wildcat Chacra						Formation Chacra					
Completion Date 1-4-91				Total Depth 2037'		Plug Back TD 1998'		Elevation		Farm or Lease Name Little b	
Csg. Size 4 1/2"		Wt. 10.5#		d 4.052		Set At 2034'		Perforations: From 1761' To 1860'		Well No. 2	
Tbg. Size 1 1/4"		Wt. 2.40#		d 1.380		Set At 1810'		Perforations: From To		Unit Sec. Twp. Rge. G 36 23N 8W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At none		County San Juan			
Producing Thru tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _g 12		State New Mexico			
L		H		G _g .635		% 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							400		410		7 days
1.	2		3/4				33	60	220	60	3 hrs
2.											
3.											
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	11		45	1	1.255	1.0013	622
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.				.9974	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 _____ °F

P _c 412 P _c ² 169.7				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		232	53.8	115.9
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.46$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 860$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3829$

Absolute Open Flow 860 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
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Remarks: Gravity and z taken from Chacra wells in Rusty Chacra field.

Approved By Division	Conducted By: M. Brown	Calculated By: J. Alexander	Checked By:
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