

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 3/31/82					
Company Integrated Energy, Inc.				Connection					
Pool Rusty Chacra				Formation Chacra					
Completion Date		Total Depth		Plug Back TD 1788		Elevation		Farm or Lease Name Benson State	
Csg. Size 4 1/2	Wt.	d	Set At	Perforations: From 1658 To 1752				Well No. No. 1	
Tbg. Size 2 3/8	Wt.	d	Set At 1715	Perforations: From To				Unit Sec. Twp. Rge. 32 22 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At No		County Sandoval	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
		.650 est.				6" pos. ck. nipple			

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	
Sl	13 days						348		358		
1.	2" X 3/4"						66	60	181		3 hours
2.											
3.											
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	11.00		78	1.0000	1.240	1.000	1063.9
2							
3							
4							
5							

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

P _c 370	P _c ² 136900		
NO.	P _t ²	P _w	P _w ²
1		193	37249
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3738$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2317$

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1310.4$

Absolute Open Flow	1310.4	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: Neil Tefteller	Checked By: Dave Simmons
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