

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: 7-4-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 12-21-80		Total Depth: 2625		Plug Buck TD: 2595	
Elevation: 4800		Farm or Lease Name:			
Csg. Size: 5.5	Wt.: 14	d: 4.9	Set At: 2625	Perforations: From 2216 To 2438	
Well No.: 2034-341J					
Tub. Size: 2.875	Wt.: 6.5	d: 2.441	Set At: 2165	Perforations: From To	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple: Single				Packer Set At: 2165	
Producing Thru: Tubing				Reservoir Temp. °F: 90	
Mean Annual Temp. °F: 50				Baro. Press. - P _g : 12.25	
State: New Mexico				County: Union	
L	H	Cg	% CO ₂ : 100	% N ₂ : 0	% H ₂ S.: 0
Prover			Meter Run: 4.0		
Taps: Flange					

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										
1.	4.026 x	2.50	191	27	58	312	193	58	0	
2.	4.026 x	2.50	203	21	59	205	59	0		
3.	4.026 x	2.50	219	16	61	219	61	0		
4.	4.026 x	2.50	232	11	60	233	60	0		
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d
1.							2040
2.							1928
3.							1735
4.							1499
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					0	
2.						
3.						
4.						
5.						

A.P.I. Gravity of Liquid Hydrocarbons				Seq.	
Specific Gravity Separator Gas: 1.529				XXXXXXXXXX	
Specific Gravity Flowing Fluid: XXXXX					
Critical Pressure: 1072				P.S.I.A.	
Critical Temperature: 496				R	

P _c : 324.25	P _w : 105.138
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NO.	F ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6686$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5182$
1		205.25	42,127	63,010		
2		217.25	47,197	57,940		
3		231.25	54,476	52,662		
4		245.25	60,148	44,990		
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3097$			
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Absolute Open Flow: 3097	Mcf @ 15.025	Angle of Slope θ: 39.1986	Slope, n: 0.8155
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Remarks: Test was run from a low flowing tubing pressure to a high flowing tubing pressure to minimize liquid loading effects.

Approved by Commission:	Conducted By: RANDY MAHANNAH	Calculated By: RICHARD ROETH	Checked By:
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