

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: 9-6-87	
Company: Amoco Production Company				Connection:	
Pool: Bravo Dome				Formation: Tubb	
Completion Date: 7-6-81		Total Depth: 2570		Plug Back TD: 2477	
Elevation: 4777		Farm or Lease Name:			
Csq. Size: 5.5	Wt. 14#	d 5.012	Set At 2570	Perforations: From 2170 To 2409	
Tag. Size: 2.875	Wt. 6.5#	d 2.441	Set At 2110	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2110	
Producing Thru: Tubing		Reservoir Temp. °F: 90		Mean Annual Temp. °F: 50	
Baro. Press. - P _g : 12.25		State: New Mexico			
L	H	G _g	% 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							323		0	
1.	4.026 x	2.125	184	38	55	184	55	0		24 hr.
2.	4.026 x	2.125	192	36	55	191	55	0		24 hr.
3.	4.026 x	2.125	205	29	56	205	56	0		24 hr.
4.	4.026 x	2.125	224	22	57	224	57	0		24 hr.
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 Q, Mcfd
1							1705
2							1641
3							1590
4							1438
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio: 0	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas: 1.529	XXXXXXX
3.					Specific Gravity Flowing Fluid: XXXXX	
4.					Critical Pressure: 1072	P.S.I.A.
5.					Critical Temperature: 496	P.S.I.A.

P _c : 335.25	P _c ² : 112392
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NO.	F _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.4388$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.20$
1		196.25	38514	73878		
2		203.25	41310	71082		
3		217.25	47197	65195		
4		236.25	55814	56578		
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2200$

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Absolute Open Flow: 2200	Mcf @ 15.025	Angle of Slope θ: 57.45	Slope, n: 0.6384
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Remarks:

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