

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: 6-19-85			
Company: Amoco Production Company				Connection:				
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU
Completion Date: 12-6-83		Total Depth: 2476'		Plug Back TD: 2418'		Elevation: 4579' GL		Farm or Lease Name:
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2476'	Perforations: From 2082' To 2242'			Well No.: 1935 281G	
Tbg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2052'	Perforations: From To			Unit: G Sec: 29 Twp: 19 Rge: 35	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single					Packer Set At: 2021'		County: Union	
Producing Thru: Tubing		Reservoir Temp. °F: 81 2162'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico
L: 2162'	H: 2162'	Gg: 1.529	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							318				
1.	4.026 x 2.5			241	39	60	253.2	50			24 hrs
2.	4.026 x 2.5			265	21	62	277.2	50			24 hrs
3.	4.026 x 2.5			289	7	62	301.2	50			24 hrs
4.	4.026 x 2.5			316	1	59	328.	50			24 hrs
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							2778
2							2114
3							1297
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	0	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	0	Deq.
2					Specific Gravity Separator Gas	1.529	X X X X X X X X
3					Specific Gravity Flowing Fluid	X X X X X	
4					Critical Pressure	1072	P.S.I.A. P.S.I.A.
5					Critical Temperature	547	R R

P _r	330.2	P _r ²	109.0
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NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.426$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.12$
1		253.2		44.922		
2		277.2		32.192		
3		301.2		18.311		
4		328.2		1.317		
5						

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5901$

Absolute Open Flow	5901	Mcf/d @ 15.025	Angle of Slope ϕ	Slope, n	.85
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Remarks:

Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:
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