

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: 4-4-85			
Company: Amoco Production Company				Connection:				
Pool: Bravo Dome Carbon Dioxide Unit - 640 acre area				Formation: Tubb		Unit: BDCDGU		
Completion Date: 11-1-83		Total Depth: 2750		Plug Back TD: 2700		Elevation: 5113		Farm or Lease Name:
Csg. Size: 7	Wt.: 20	d:	Set At: 2738	Perforations: From 2499 To 2656		Well No.: 2033 051G		
Thq. Size: 3.5	Wt.: 9.3	d:	Set At: 24	Perforations: From To		Unit Sec. Twp. Rge. G 05 20 33		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single					Packer Set At: 2443		County: Harding	
Producing Thru: Tubing		Reservoir Temp. °F: 90 2578		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico
L: 2578	H: 2578	G _g : 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							285			
1.	4.026 x 1.125			210	53	57	222.2	50		
2.	4.026 x 1.125			235	19	56	247.2	50		
3.	4.026 x 1.125			255	10	57	267.2	50		
4.	4.026 x 1.125			283	1	56	295.2	50		
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							435
2							277
3							110
4							33
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	0	Mcfd/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	0	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	547	R

P _c 297.2	P _c ² 88.327					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.267$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.83$
1		222.2		38.955		
2		247.2		27.220		
3		267.2		16.932		
4		295.2		1.185		
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 797$

Absolute Open Flow 797 Mcfd @ 15.025

Angle of Slope θ Slope, n 74

Remarks:

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