

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: 11-21-83		Total Depth: 2621'		Plug Back TD: 2475'		Elevation: 4558' GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d: 2621'	Set At:	Perforations: From 2045' To 2239'		Well No.: 1935 271G			
Thg. Size: 3-1/2"	Wt.: 9.3#	d: 2021'	Set At:	Perforations: From To		Unit: G		Sec.: 27	Twp.: 19
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 1982'		County: Union	
Producing Thru Tubing		Reservoir Temp. °F: 90° 2142'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2142'	H: 2142'	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.	Temp. °F	
SI							337				
1.	4.026 x 2.25			258	51	60	270.2	50			24 hrs
2.	4.026 x 2.25			277	29	61	289.2	50			24 hrs
3.	4.026 x 2.25			300	11	61	312.2	50			24 hrs
4.	4.026 x 2.25			328	1	58	340.2	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							2512
2							1988
3							1284
4							
5							

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

P _r	349.2	P _r ²	121.94
NO.	P _i ²	P _w	P _w ²
1		270.2	48.932
2		289.2	38.304
3		312.3	24.472
4		340.2	6.205
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.49$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6091$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.42$$

Absolute Open Flow	6091	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.97
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By:		Checked By:	
		D. D. Kimble			