

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: 5-10-85			
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 12-13-83		Total Depth: 2638'		Plug Back TD: 2575		Elevation: 4928' GL		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	Set At: 2638'	Perforations: From 2338' To 2450'		Well No.: 1933 151G				
Tng. Size: 3-1/2"	Wt.: 9.3#	Set At: 2323'	Perforations: From To		Unit: G		Sec.: 15	Twp.: 19	Rge.: 33
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At: 2292'		County: Harding	
Producing Thru: Tubing		Reservoir Temp. *F: 89° @ 2394'		Mean Annual Temp. *F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2394'	H: 2394'	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. h _w	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	
SI							286			
1.	4.026 x 2.125			211	46	57	223.2	50		
2.	4.026 x 2.125			232	28	56	244.2	50		
3.	4.026 x 2.125			255	14	56	267.2	50		
4.	4.026 x 2.125							50		
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, F _{pv}	Rate of Flow Q, Mcfd
1							1935
2							1603
3							1201
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 X X X
4					Critical Pressure	1072
5					Critical Temperature	547

P _c	298.2	P _c ²	88.923
NO.	P _r ²	P _w	P _w ²
1		223.2	39.105
2		244.2	29.290
3		267.2	17.527
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.27$

AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3142$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.62$

Absolute Open Flow	3142	Mcf/d @ 15.025	Angle of Slope Θ	Slope, n	.59
Remarks:					
Approved By Commission:					
Conducted By:		Calculated By:		Checked By:	
		D. D. Kimble			