

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: 5-24-85			
Company: Amoco Production Company				Connection:				
Pool: Bravo Dome Carbon Dioxide Gas Unit 640-acre area				Formation: Tubb				Unit: BDCDGU
Completion Date: 11-30-85		Total Depth: 2740'		Plug Back TD: 2616'		Elevation: 4551" GL		Farm or Lease Name:
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2740'	Perforations: From 2153' To 2254'		Well No.: 1834 141G		
Tbg. Size: 2-7/8"	Wt.: 6.5	d:	Set At: 2358'	Perforations: From To		Unit: G Sec: 14 Twp: 18 Hgt: 35		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single					Packer Set At: 2327'		County: Union	
Producing Thru Tubing		Reservoir Temp. °F: 96° @ 2204'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico
L: 2204'	H: 2204'	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							329			
1.	4.026 x 2.25			200	38	53	212.2	50		
2.	4.026 x 2.25			215	33	54	227.2	50		24 hrs
3.	4.026 x 2.25			247	22	56	259.2	50		24 hrs
4.	4.026 x 2.25			273	15	57	285.2	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							1956
2							1886
3							1648
4							1433
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
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_c 341.2 P_c² 116.417

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.63$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.24$
1		212.2		71.389		
2		227.2		64.798		
3		259.2		49.232		
4		285.2		35.078		
5						

AOF = C $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2426$

Absolute Open Flow 2426 Mcfd @ 15.025		Angle of Slope θ	Slope, n .44
Remarks:			
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble	Checked By:

