

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: 4-19-85	
Company: Amoco Production Company				Connection:		
Pool: Bravo Dome Carbon Dioxide Unit - 640 acre area				Formation: Tubb		Unit: BDCDGU
Completion Date: 5-9-81		Total Depth: 2578		Plug Back TD: 2456		Elevation:
Csg. Size: 5.5	Wt.: 14	d:	Set At: 2567	Perforations: From 2190 To 2442		Well No.: 2034 281J
Tbg. Size: 2-7/8	Wt.: 6.5	d:	Set At: 2011	Perforations: From To		Unit: J Sec: 28 Twp: 20 Rge: 34
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 2003		County: Union
Producing Thru: Tubing		Reservoir Temp. °F: 90° @ 2316		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2
State: New Mexico						
L: 2316	H: 2316	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							315			
1.	4.026 x 2.75			220	24	57	232.2	50		
2.	4.026 x 2.75			238	18	57	250.2	50		
3.	4.026 x 2.75			269	11	56	281.2	50		
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							2600
2							2341
3							1959
4							
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 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 _c 372.2 P _c ² 107.060				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		232.2		53.143
2		232.2		53.143
3		250.2		44.460
4		281.2		27.986
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.01$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3531$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.36$$

Absolute Oper. Flow 3531 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .44
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By: D. D. Kimble
		Checked By: