

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: 12-8-83		Total Depth: 2927'		Plug Back TD: 2825'		Elevation: 4685'		Farm or Lease Name:	
Csg. Size: 7"	Wt.: 20#	d:	Set At: 2927'	Perforations: From 2456' To 2522'		Well No.: 1834 241G			
Thg. Size: 3-1/2"	Wt.: 9.3#	d:	Set At: 2413	Perforations: From To		Unit: G Sec: 24 Twp: 18 Rge: 34			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: 2381'		County: Union	
Producing Thru Tubing		Reservoir Temp. °F: 92° @ 2489'		Mean Annual Temp. °F: 50		Baro. Press. - P _a : 12.2		State: New Mexico	
L: 2489'	H: 2489'	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							349			
1.	4.026 x 1.625			202	34	56	214.2	50		
2.	4.026 x 1.625			211	27	56	223.2	50		
3.	4.026 x 1.625			242	16	56	254.2	50		
4.	4.026 x 1.625			266	10	57	278.2	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, Fpv	Rate of Flow Q, Mcfd
1							915
2							853
3							709
4							574
5							

NO.	P _t	Temp. °R	T _f	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 _c	361.2	P _c ²	130.465
NO.	P _t ²	P _w	P _w ²
1		214.2	84.584
2		223.2	80.647
3		254.2	65.848
4		278.2	53.070
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.54$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1411$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.54$$

Absolute Open Flow	1411	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	1.0
Remarks:					
Approved By Commission:		Conducted By:		Calculated By: D. D. Kimble	
				Checked By:	

1834 2416

