

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					
Company Amoco Production Company					Connection					
Pool Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area					Formation Tubb					
Completion Date 11/9/83			Total Depth 2562'		Flag Back TD 2440'		Elevation 2847' GL		Unit BDCDGU	
Csg. Size 7"	Wt. 20#	d	Set At 2562'	Perforations: From 2264' To 2380'				Well No. 1933 241L		
Tqg. Size 3-1/2"	Wt. 9.3#	d	Set At 2239'	Perforations: From To				Unit Sec. Twp. Rge. L 24 19 33		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 2208'			County Harding		
Producing Thru Tubing		Reservoir Temp. °F 89° @ 2322'		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2		State New Mexico		
L 2322'	H 2322'	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							323			
1.	4.026 x 2.375			296	4	59	298	50		
2.	4.026 x 2.375			277	9	59	280	50		24hr
3.	4.026 x 2.375			245	21	59	252	50		"
4.	4.026 x 2.375			222	33	59	231	50		"
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							927
2							1268
3							1810
4							2172
5							

NO.	P _t	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 <u>1.529</u> X X X X X X X X
3					Specific Gravity Flowing Fluid <u>X X X X X</u>
4					Critical Pressure <u>1072</u> P.S.I.A. _____ P.S.I.A.
5					Critical Temperature <u>547</u> R _____ R

P _c <u>335.2</u>	P _c ² <u>112.359</u>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{2.111}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.778}$
NO.	P _t ²	P _w	P _w ²
1		310.2	16.135
2		292.2	26.978
3		264.2	42.557
4		243.2	53.213
5			

$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3862}$

Absolute Open Flow <u>3862</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.770</u>
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By: <u>D. R. White</u>
		Checked By: