NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: XX Initial ☐ Annual ☐ Special					Test Date: 8-20-85				
Company: Amoco Production Company				Connection:					
Pool: Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area				Formation: Tubb				Unit: BDCDGU	
Completion Date: 5-9-81		Total Depth: 2638		Plug Back TD: 2530		Elevation: 4918		Farm or Lease Name:	
Csg. Size: 5.5	Wt.: 14	d:	Set At: 2638	Perforations: From 2349	To 2443			Well No.: 2033 251 G	
Tbg. Size: 2-7/8	Wt.: 6.5	d:	Set At: 2201	Perforations: From	To			Unit: G Sec.: 25 Twp.: 20 Rge.: 33	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: 2152				County: Harding	
Producing Thru: Tubing		Reservoir Temp. °F: 90 @ 2396		Mean Annual Temp. °F: 50		Baro. Press. – P_a: 12.2		State: New Mexico	
L: 2396	H: 2396	Gg: 1.529	% CO_2: 100	% N_2: 0	% H_2S: 0	Prover:		Meter Run: 4.0	Taps: Flange

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI											
1.	4.026	x	1.500	192	47	62	278				
2.	"		"	219	9	62	192	50			24 hr.
3.	"		"	241	5	60	219	"			"
4.	"		"	248	1	60	241	"			"
5.							248	"			"

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							
2.							794
3.							450
4.							32
5.							0

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 1072 P.S.I.A. P.S.I.A.
Critical Temperature 547 R R

P_c 290.2 P_c^2 84.216

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		204.2		42.518
2		231.2		30.762
3		253.2		20.106
4		260.2		16.812
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.98$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.51$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1197$

Absolute Open Flow 1197 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .60

Remarks:

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
		D. D. Kimble	