NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

RECEIVED

JUL 13 1983

OIL CON. DIV.

DIST. 3

Type Test: ☐ Initial ☒ Annual ☒ Special					Test Date: 6-24-83				
Company: AMOCO PRODUCTION COMPANY				Connection: Southern Union Gas Co.					
Pool: Ute Dome				Formation: Dakota				Unit	
Completion Date: 4-5-83		Total Depth: 2436		Plug Back TD: 2378		Elevation: 6150		Farm or Lease Name: Ute Indians "A"	
Csg. Size: 4.500	Wt.: 10.5	d: 4.052	Set At: 2436	Perforations: From 2220	To 2344			Well No.: 5	
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 2339	Perforations: From open	To ended			Unit: K	Sec.: 35 Twp.: 32 Rge.: 14
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: None				County: San Juan	
Producing Thru: Tubing		Reservoir Temp. °F: @		Mean Annual Temp. °F		Baro. Press. – P_a		State: New Mexico	
L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps	

FLOW DATA					TUBING DATA		CASING DATA		
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.	Temp. °F	Duration of Flow
SI	7 Days					468		468		
1.	2.375	.750				112		240		3 hrs
2.										
3.										
4.										
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	12.365		124	1.000	.9258	1.013	1438
2.							
3.							
4.							
5.							

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

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____ XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 480 P_c^2 230400

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		252	63504	166896
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3805$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2736$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1831$

Absolute Open Flow 1831 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Repair csg leak from 18 to 1500 ft by running a liner from TD to surface. Well cased perf. & foam fractured.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. J. Barnett	J. J. Barnett	