Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Gruy Petroleulm Mgt.						Lease or Unit Name: Rhodes Federal Unit			
Type Test: Initial X ☐ Initial ☐ Annual ☐ Special						Test Date: 7/16/01		Well No.: 171	
Completion Date: 7/16/01		Total Depth: 3296'		Plug Back TD: 3076		Elevation: 2977 GL		Unit Ltr. - Sec. - TWP – Rge.: B-17-26 S- 37 E	
Csg. Size: 5 1/2	Wt.: 15.5	d:	Set At: 3296'	Perforations: From: 2936	To: 2966			County: Lea	
Thg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 2981'	Perforations: From: Rod Pump	To:			Pool: Rhodes Yates- 7 RV	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: NONE				Formation: Rhodes Yates-7RV	
Producing Thru: CASING	Reservoir Temp. °F: 103 @ 2936'		Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2				Connection: Sid Richardson	
L: 2936	H: 2936	Gg: .775	%CO_2: .6	%N_2: 14.0	%H_2S:	Prover:		Meter Run: 4"	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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration Of Flow
SI							264	90	
1.	4.026 X .625	6	16	93			8		24
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, F pv.	Rate of Flow Q, Mcfd
1.	1.845	17.53	19.2	.9697	1.136	NIL	36
2.							
3.							
4.							
5.							

No.	P_r	Temp. °R	T_r	Z
1.	.03	553	1.47	NIL
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio ____ Dry ____ Mcf/bbl.
A. P. I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas .775 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 646 P.S.I.A. ____ P.S.I.A.
Critical Temperature 375 R. ____ R

P_c 264 P_c^2 69.7

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		21.2	4.5	65.2
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.069

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.069

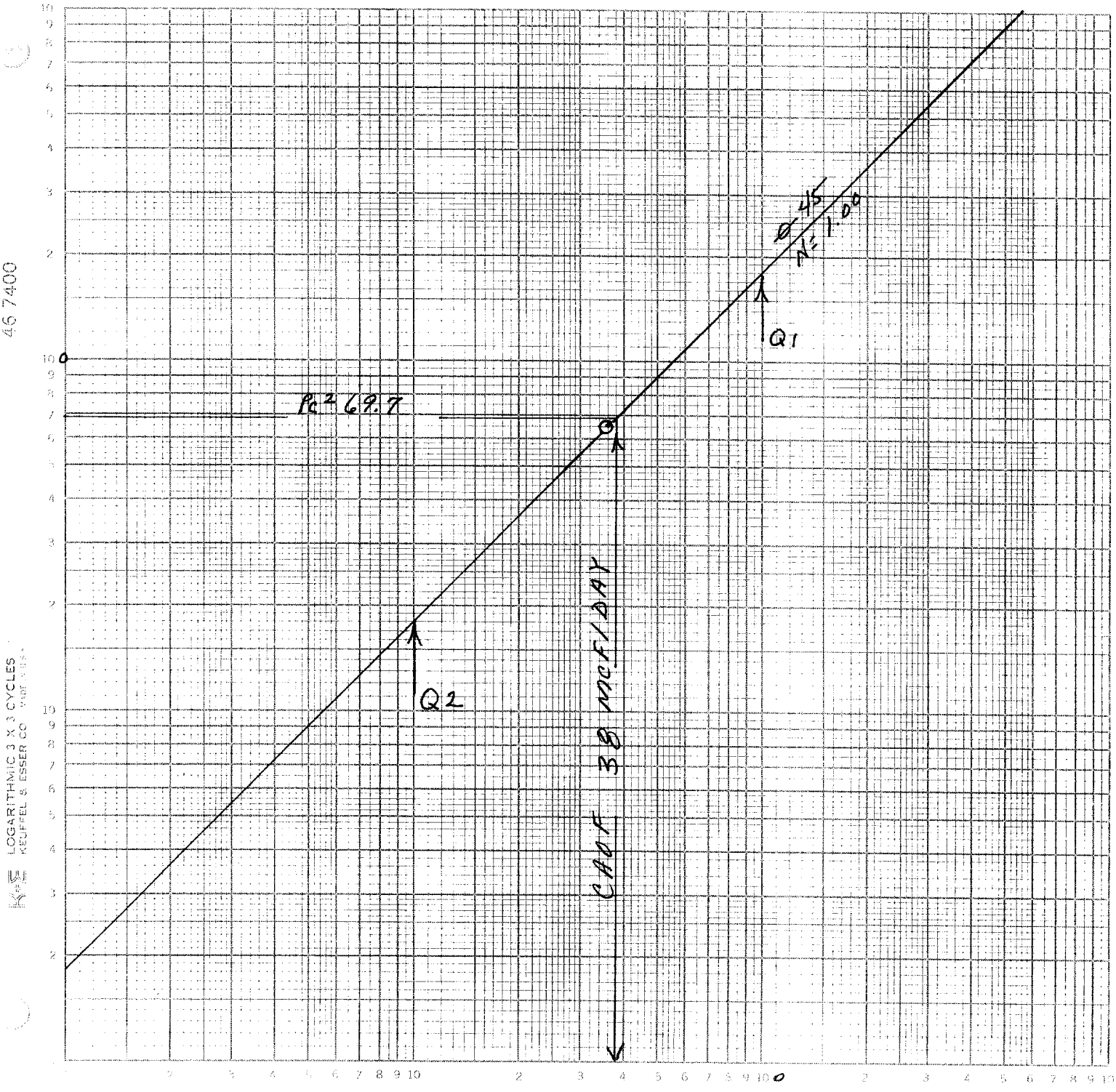
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]$ = 38

Absolute Open Flow 38 Mcfd@ 15.025 Slope θ: 45 Slope, n: 1.00

Remarks: 3 BBLS of water make during test.Oil TSTM , 24 hour flow rate

Approved By Division	Conducted By: Ron Woodard	Calculated By: Reggie Reston	Checked By:

Gruy Petroleulm Mgt.
Rhodes Federal Unit # 171
Unit B-Sec. 17 -Twp 26S-Rge. 37E
Lea, Co. N.M.



$P_c^2 - P_w^2$ in (Thsnds)

Q= Mcf./day
Q_1= 100, Log 2.000000
- Q_2= 10, Log 1.000000
N = 1.000000