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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 Petroleum Mgt.					Lease or Unit Name Rhodes Federal Unit				
Type Test Initial X ☒ Initial ☐ Annual ☐ Special					Test Date 7/29/01		Well No. 55		
Completion Date 7/29/01		Total Depth 3861		Plug Back TD 3750		Elevation 2981 GL		Unit Ltr. - Sec. - TWP - Rge. G-5-26 S- 37 E	
Csg. Size 5 1/2	Wt. 15.5	d 	Set At 3861	Perforations: From: 2850 To: 2880			County Lea		
Thg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 2910	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 102 @ 2850		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Sid Richardson	
L 2850	H 2850	Gg 693	%CO ₂ 1.951	%N ₂ 2.7	%H ₂ S 	Prover 	Meter Run 2"	Taps FLANGE	

FLOW DATA					TUBING DATA		CASING DATA		Duration	
No.	Prover Line X Size	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	Of Flow
SI								115	85	
1.	2.067 X 1.250		15	36	90			19		24
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	8.12	22.53	28.2	.9723	1.201	NIL	213
2.							
3.							
4.							
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	106	Mcft/bbl.
1.	.04	550	1.46	NIL			
2.					A. P. I. Gravity of Liquid Hydrocarbons		Deg.
3.					Specific Gravity Separator Gas .693		XXXXXXXXXX
4.					Specific Gravity Flowing Fluid XXXXXX		
5.					Critical Pressure 672 P.S.I.A.		P.S.I.A.
					Critical Temperature 376 R.		R

No.	P _c 128.2	P _c ² 16.4	P _w	P _w ²	P _c ² - P _w ²
1.			32.2	10.4	6.
2.					
3.					
4.					
5.					

(1) P₂ = 2.733

$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 582$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 2.733$

Absolute Open Flow		Mcfd@ 15.025	Angle of Slope θ: 45	Slope, n: 1.00
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Remarks: 2 BBL oil, 10BBL water made during 24 hour flow test.

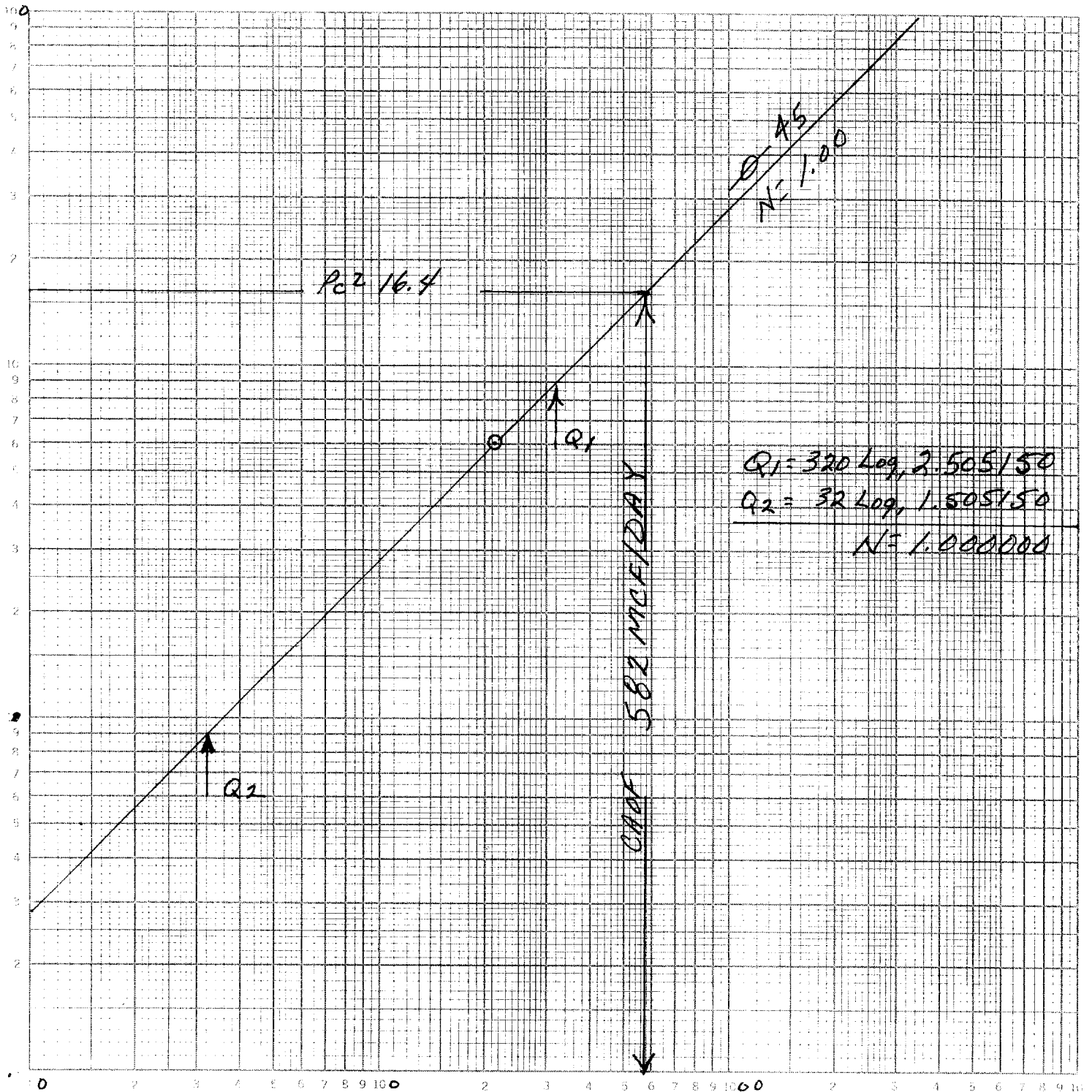
Approved By Division ORIGINAL FILED BY	Conducted By: Ron Woodard	Calculated By: Reggie Reston	Checked By:
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OCT 8 1 2001

Gruy Petroleum Mgt.
 Rhodes Federal Unit # 55
 Unit G-Sec. 5-Twp 26S-Rge. 37E
 Lea, Co. N.M.

$P_c^2 - P_w^2$ in Thousands
 467400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



$$Q = \text{MCF/DAY}$$