

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

☒ Initial ☐ Annual ☐ Special		Test Date 5-11-81	
Company Perry R. Bass		Connection Air	
Well No. Undesignated		Formation Morrow	
Completion Date 5-11-81		Total Depth 12800 12,417'	
Casing Size 5 1/2		Perforations From 11816 To 11840	
Tubing Size 2 3/8		Perforations From To	
Type Well - Single - Proveness - G.G. or G.O. Multiple Single Gas Well		Pressure Set At 11752	
Producing Thru Tubing		State New Mexico	
Reservoir Temp. °F 191° 11722		Mean Annual Temp. °F 60°	
L 11722		H 11722	
Gg .6022		% CO ₂ .704	
% N ₂ 1.780		% H ₂ S 	
Prevor 		Meter Run 4 "	
Type Flg.			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	4 X 1.500			520	6.0	85	3800				72 Hrs.
2	4 X 1.500			535	13.5	83	3575				1 Hr.
3	4 X 1.500			540	21.0	80	3375				1 Hr.
4	4 X 1.500			560	44.0	65	3280				1 Hr.
5							2875				1 Hr.

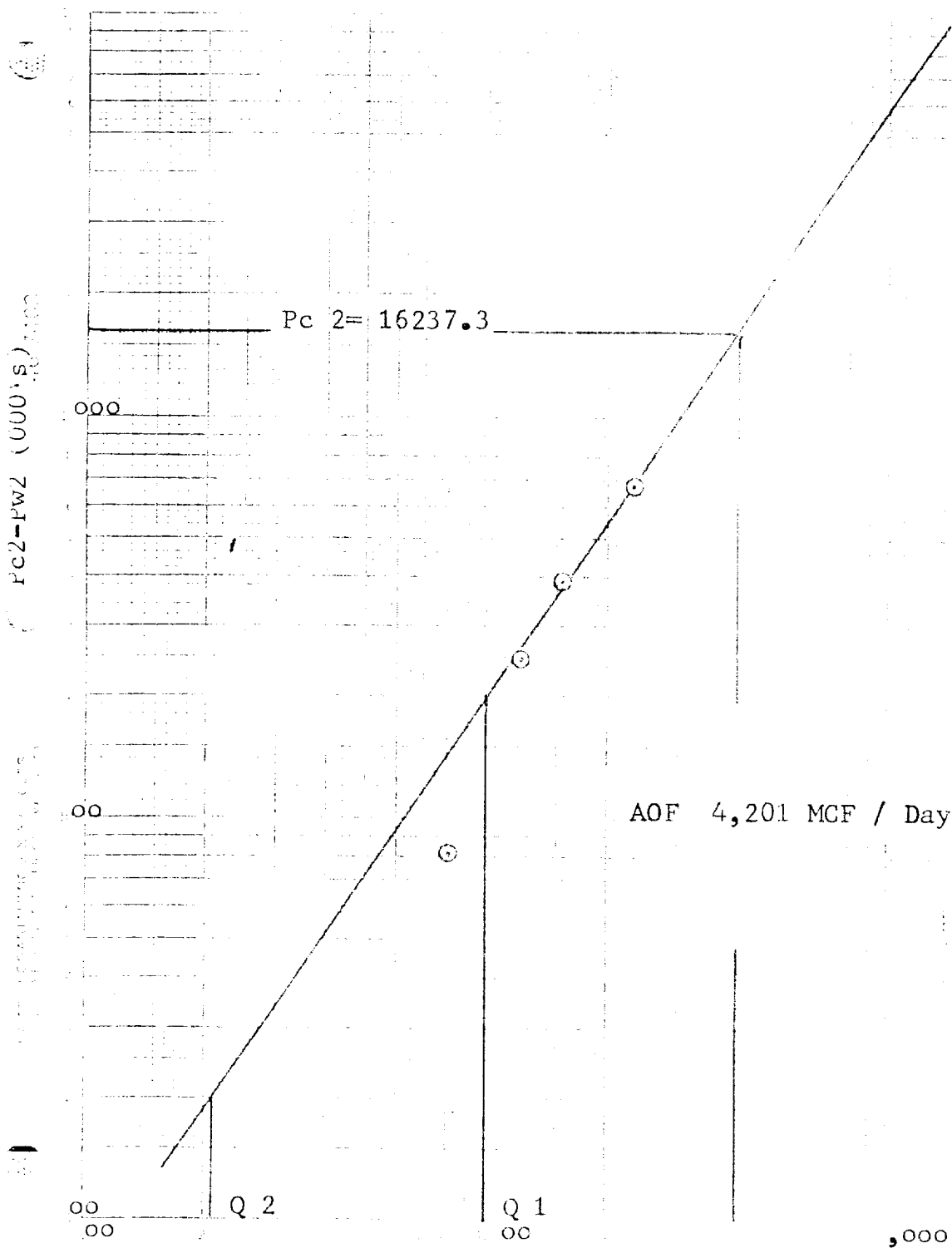
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mgd
1	10.84	56.56	533.2	.9768	1.289	1.040	803
2	10.84	86.03	548.2	.9741	1.289	1.040	1218
3	10.84	107.78	553.2	.9813	1.289	1.043	1541
4	10.84	158.81	573.2	.9952	1.289	1.050	2319
5							

NO.	P ₁	Temp. °F	T ₁	Z	Gas/Liquid Hydrocarbon Ratio	Dry	Met/bbl.
1	.79	545	1.52	.925	A.P.L. Gravity of Liquid Hydrocarbons		Den.
2	.82	548	1.53	.924	Specific Gravity Separator Gas	.6022	XXXXXXX
3	.82	540	1.51	.920	Specific Gravity Flowing Fluid	XXXXXX	
4	.85	525	1.47	.907	Critical Pressure	671	P.S.I.A.
5					Critical Temperature	358	R

$R^2 = 4029.6$ $P_c^2 = 16237.3$				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.402$		(2) $\left[\frac{R^2}{P_c^2 - P_w^2} \right]^n = 1.811$	
NO.	BHP	P _w	P _w ²	P _c ² - P _w ²			
1	4971.2	3927.6	15426.1	811.2			
2	4712.2	3707.0	13741.5	2495.8			
3	4483.2	3513.9	12347.8	3889.5			
4	3960.2	3078.5	9477.2	6760.1			
5							

Absolute Open Flow 4,201		Measured Slope 56°		Slope, n .678	
Remarks: The well produced 8 bbls. of H₂O during the test.					
* Calculated from Bottom Hole Pressures.					
Approved By:		Conducted By:		Checked By:	
Davis Services Inc.		Rick Pagan		Rick Pagan	

Lease : Big Eddy UNIT
 Well No. : # 83
 Unit : C /sec.10/twp.21s/rge.28e
 County : Eddy
 State : New Mexico
 Date : May 11,1981



Q= MCF /DAY
 Q 1= 1000;Log of Q 1= 3.000000
 Q 2= 210;Log of Q 2= 2.322219
 N = .678
 θ = 56°