

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12/30/75	
Company Burleson and Huff				Connection None			
Pool Jalmat				Formation Yates		Unit B H	
Completion Date 12/16/75		Total Depth 3500		Plug Back TD		Elevation	
Farm or Lease Name Arco		Well No. 2 - Y					
Csg. Size 4 1/2	Wt. d	Set At 3500	Perforations: From 3009 To 3048		Unit B Sec. 21 Twp. 25 Rge. 37		
Tbg. Size 2 3/8	Wt. d	Set At 3290	Perforations: From To 		County Lea		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 3290		State New Mexico	
Producing Thru Csg. L		Reservoir Temp. *F 660 (Assumed)	Mean Annual Temp. *F 		Baro. Press. - P _a 		Meter Run 2"
H 		G _g 	% CO ₂ 	% N ₂ 	% H ₂ S 	Taps 	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI									118		
1.	2	x	3/32	95		58			95		1 hr.
2.	2	x	3/16	20		61			50		45 Min.
3.	2	x	3/16	25		63			40		45 Min.
4.	2	x	3/16	30		65			30		45 Min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.1410		108.2	1.0020	1.231	Nil	19
2	0.6082		33.2	.9990	1.231	Nil	25
3	0.6082		38.2	.9971	1.231	Nil	29
4	0.6082		43.2	.9952	1.231	Nil	32
5							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio dry Mcf/bbl.
1.	.16	518	1.37	Nil	A.P.I. Gravity of Liquid Hydrocarbons Deg.
2.	.05	521	1.36	Nil	Specific Gravity Separator Gas 660 (Assumed) X X X X X X X X
3.	.06	524	1.39	Nil	Specific Gravity Flowing Fluid X X X X X
4.	.06	525	1.39	Nil	Critical Pressure 670 P.S.I.A. P.S.I.A.
5.					Critical Temperature 378 R R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.122$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.122$
1		108.2	11.707	5.506	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .0359$	
2		63.2	3.994	13.219		
3		53.2	2.830	14.383		
4		43.2	1.866	15.347		
5						

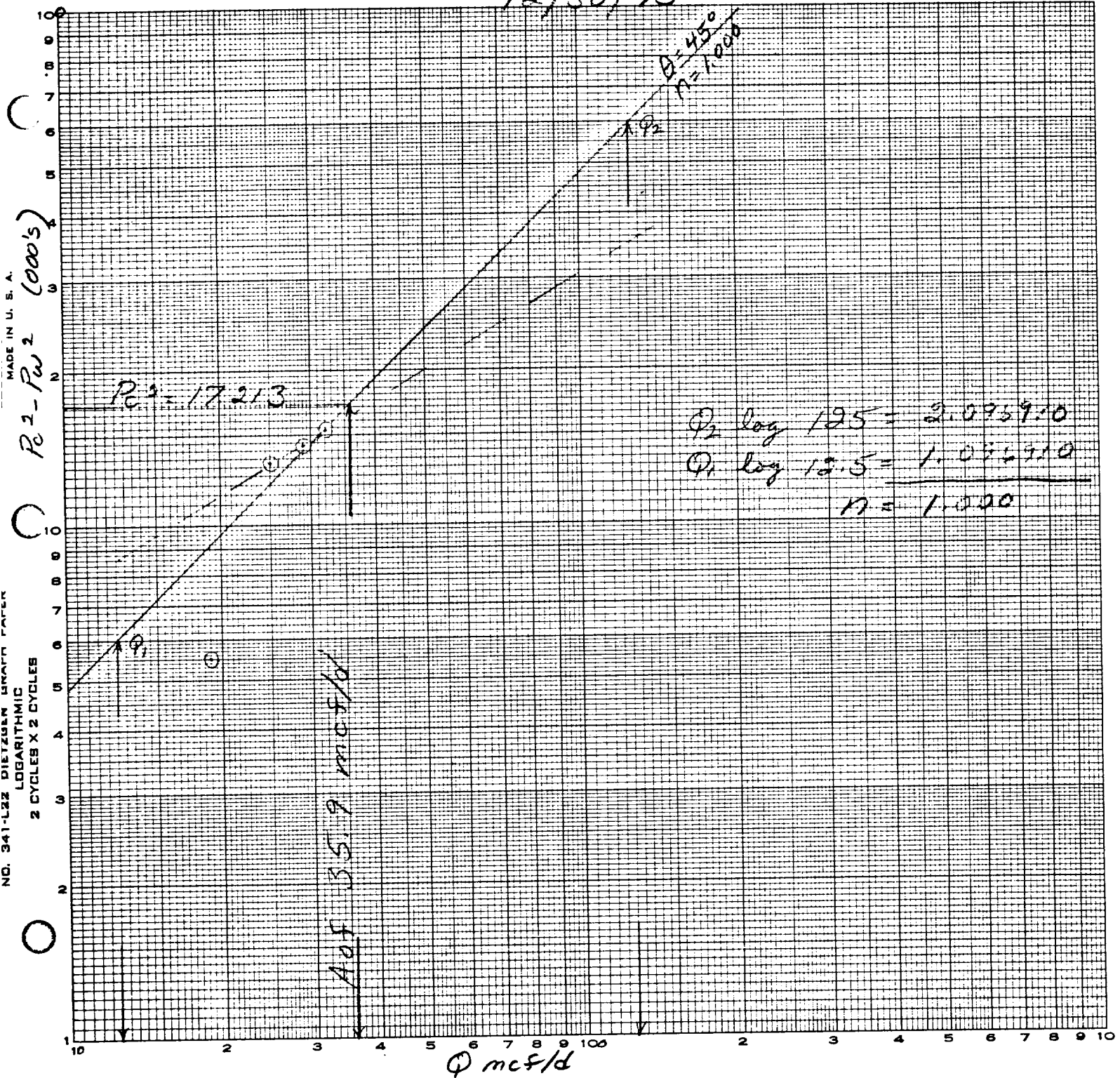
Absolute Open Flow 35.9 Mcfd @ 15.025	Angle of Slope θ 45°	Slope, n 1.000
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Remarks: **No fluid made. A slope (N) of 1.000 was drawn through the high rate of flow due to a slope angle less than 45°.**

Approved By Commission: AS	Conducted By: Rick Pagan	Calculated By: Rick Pagan	Checked By:
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Burleson + Huff
 Arco #2y (Yates)
 B 21-25-37 Lea Co.
 Aof 35.9 mcf/d $n=1.000$

12/30/75



FIELD DATA SHEET (Not Required To File)

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/30/75	Lease No. or Serial No.
Company Burleson & Huff		Connection None	Allottee
Field Jalmat	Reservoir Yates	Location	Unit B
Completion Date 12/16/75	Total Depth 3500	Plug Back TD	Elevation
Csg. Size 4 1/2	Set At 3500	Perforations: From 3009	To 3048
Tbg. Size 2 3/8	Set At 3290	Perforations: From	To
Type Completion (Describe) C. C. Dual		Pecker Set At 3290	Sec. 21 Top. Bld. 25 H. 37
Producing Time	Reservoir Temp. F	Mean Annual Temp. F	State New Mexico
Csg.	H	G _g	% CO ₂
			% H ₂ S
			Prover 2"
			Meter Run

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS
		Tbg. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	
9:15			118						
9:30	On test							3/32	
9:45			109		109		52		
10:00			100		100		56		
10:15			98		98		57		
10:30			95		95		58		First Rate
10:45			60		30		60	3/16	
11:00			50		20		60		
11:15			50		20		61		Stable Second Rate
11:30			41		26		62	3/16	
11:45			40		25		63		
12:00			40		25		63		Stable Third Rate
12:15			35		30		64	3/16	
12:30			30		30		65		
12:45			30		30		65		Stable Fourth Rate
									No fluid made