

NEW MEXICO OIL ADMINISTRATION FORM NO. 1 MULTIPOINT AND ON "JOINT" BACK PRESSURE TEST FOR S WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-10-79				
Company Amoco Production Company				Connection Phillips Petroleum Company					
Pool Lovington Queen				Formation Queen				Unit	
Completion Date 12-26-39		Total Depth 4977		Plug Back TD 4415		Elevation 3823		Farm or Lease Name State E Tract 17	
Csg. Size 5.5	Wt. 17.0	d 4.892	Set At 4557	Perforations: From 3908 To 3930		Well No. 5			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3742	Perforations: From 0 To 0		Unit Sec. Twp. Rge. P 1 17S 36E			
Type Well—Single—Bradenhead—C.G. or G.O. Multiple Single				Packer Set At 3710		County Lea			
Producing Thru Tubing		Reservoir Temp. °F 95 @ 3919		Mean Annual Temp. °F 60		Boro. Press. — P _g 13.2		State New Mexico	
L 3919	H 3919	Cq 0.837	% CO ₂ 0.05	% N ₂ 44.96	% H ₂ S 0	Prover 0	Meter Run 4.0	Taps Flange	

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							1069	48			25.0
1.	4.03 x 1.500		8	2.0	50	960	50	0	0	1.0	
2.	4.03 x 1.500		8	6.5	53	895	53	0	0	1.0	
3.	4.03 x 1.500		9	12.5	56	802	56	0	0	1.0	
4.	4.03 x 1.500		12	19.2	57	705	57	0	0	1.0	
5.											

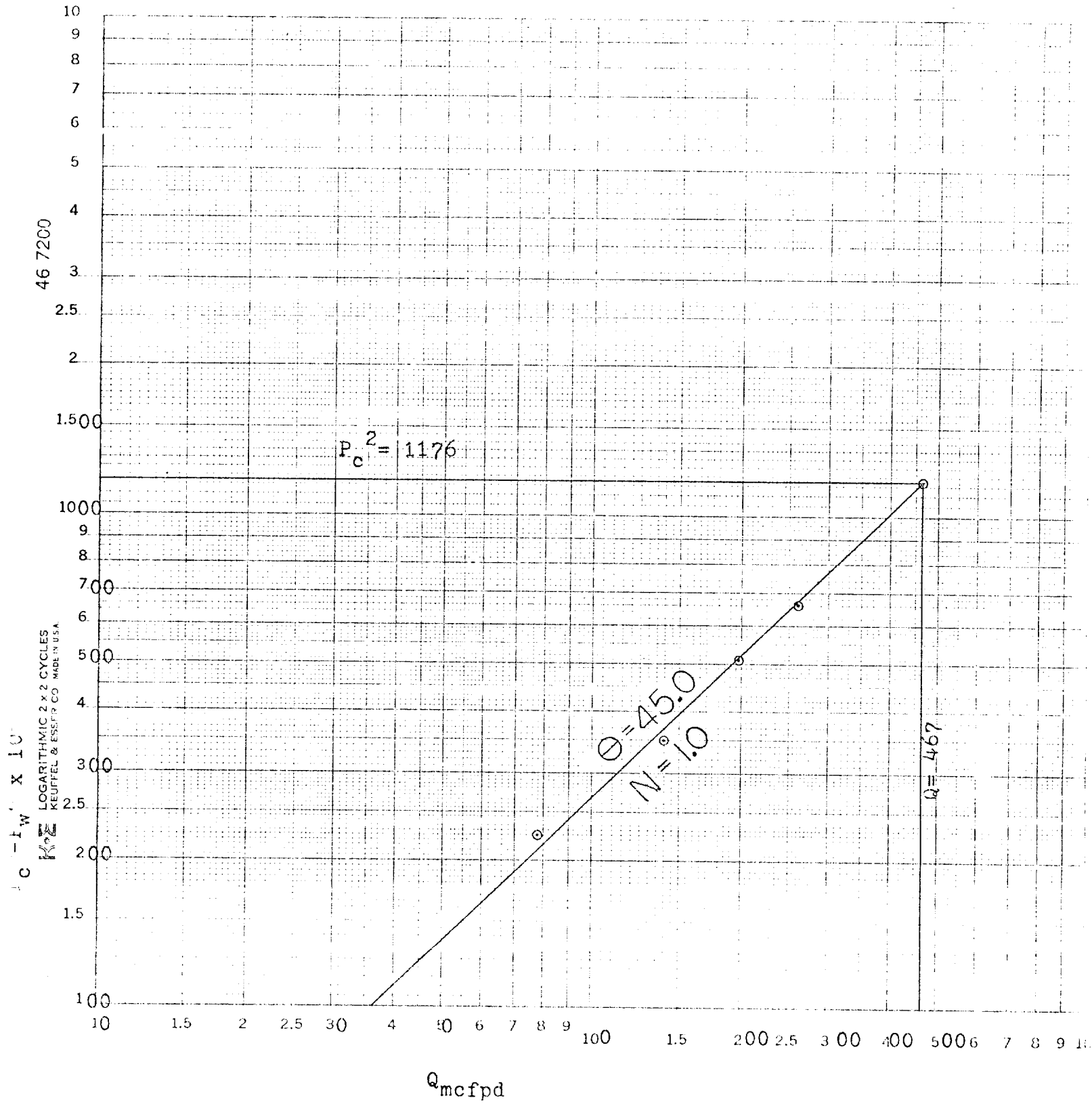
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	6.51	21.2	1.0098	1.0930	1.0013	78
2	10.84	11.74	21.2	1.0068	1.0930	1.0013	140
3	10.84	16.66	22.2	1.0039	1.0930	1.0013	198
4	10.84	22.00	25.2	1.0029	1.0930	1.0015	262
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mc/Std.
1.	0.04	510	1.64	0.997	A.P.I. Gravity of Liquid Hydrocarbons	0
2.	0.04	513	1.65	0.997	Specific Gravity Separator Gas	0.837
3.	0.04	516	1.66	0.997	Specific Gravity Flowing Fluid	XXXXXX
4.	0.04	517	1.67	0.997	Critical Pressure	583 P.S.I.A.
5.					Critical Temperature	310 °R

NO.	P _t ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.7848$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.7848$
1	947	975	950		
2	825	909	826		
3	665	816	666		
4	516	719	517		
5					

Absolute Open Flow		467 Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.000
Remarks:						
Approved by Consultant		Conducted by: John West Engineering		Calculated by: CCW		Checked by: RMB

Sta "E" Tract 17 #5
 Lovington-Queen



SUGGESTED FIELD DATA SHEET (Not Required To Fill)

Type Test ☒ Initial ☐ Annual ☐ Special	Test Date 2-10-79	Lease No. or Serial No.
Company Annoco Production Company (Phillips)	Connection	Allottee
Field Reservoir	Location	Unit
Completion Date	Total Depth 4977	Plug Back TD 4415
Elevation 3812 Gr.	Form or Lease Name State "E" Tr. 17	Well No. 5
Case No. 11	Set At 3743	Perforations: From 2725 To 2725
Tool Joint 11	Set At 3743	Perforations: From OPEN To END
Type Completion (Description) Single	Packer Set At 3710	County or Parish L...
Reservoir Temp. F 60	Mean Annual Temp. F 60	Baro. Press. - P _a 13.2
State New Mexico	Prover Meter Run	
% CO ₂ 0.5	% H ₂ 44.96	% H ₂ S 0.5

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS (Include liquid production data: Type—A.P.I. Gravity—Amount
		Thru. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Office	
7-15		225			1	2"		1550	22.10
7-16		225			1	2"			
7-17		225			1	2"			92.11
7-18		225			1	2"			Black Rubber
7-19		225			1	2"			
7-20		225			1	2"			
7-21		225			1	2"			770 MCF
7-22		225			1	2"			
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