

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

OCT 30 1984

Revised 10/80

clsf
File

O.C.D.

8/30/84 OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Company EXXON COMPANY U.S.A.		Corrosion NONE	
Post <i>Sheep Draw Strawn</i> SOUTH-CARLSBAD		Formation STRAWN		Unit	
Completion Date 7/29/84		Total Depth 11,460'		Plug back To 10,385'	
Elevation 3540'		Form of Lease Line SQUAW FEDERAL		Well No. 1	
Csg. Size 5 1/2"		Wt. 17#		Perforations From 10,138' To 10,160'	
Tub. Size 2 7/8"		Wt. 6.5#		Perforations From OPEN To ENDED	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 10,003'		County EDDY	
Producing thru TGB		Reservoir Temp. °F 174 @ 10,003'		Mean Annual Temp. °F 60°	
Para. Press. - P _a 13.2		State N.M.		Motor Run 3.826"	
L 10.003'		H 10,003'		G _g .6261	
% CO ₂ .555		% N ₂ .501		% H ₂ S	
Prover		Meter Run 3.826"		FLG.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover 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
51							3435				1 HR.
1.	3.826 x 1.250			180	8	96	3293				1 HR.
2.	3.826 x 1.250			180	17	91	3170				1 HR.
3.	3.826 x 1.250			180	36	87	3010				1 HR.
4.	3.826 x 1.250			180	44	84	2680				1 HR.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compens. Factor, F _{pv}	Rate of Flow Q, Mgd
1	7.483	39.31	193.2	.9671	1.264	1.015	365
2	7.483	57.31	193.2	.9715	1.264	1.015	534
3	7.483	83.40	193.2	.9750	1.264	1.015	781
4	10.88	92.20	193.2	.9777	1.264	1.016	1260
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.29	556	1.52	.971	16.333	58 @ 60	G MIX .797	X X X X X	671	365
2.	.29	551	1.51	.971				X X X X X		
3.	.29	547	1.50	.970						
4.	.29	544	1.49	.969						
5.										

NO.	P _r ²	P _w ²	P _w ² - P _r ²	(1) $\frac{P_r^2}{P_w^2 - P_r^2} =$	(2) $\left[\frac{P_r^2}{P_w^2 - P_r^2} \right]^n =$
1	3307.1	10936.9	953.2	2.575	2.275
2	3184.3	10139.8	1750.3		
3	3024.6	9148.2	2741.9		
4	2696.7	7272.2	4617.9		
5					

Absolute Open Flow		2,866		Mgd @ 15.025		Angle of Slope		49°		Slope, n		.869	
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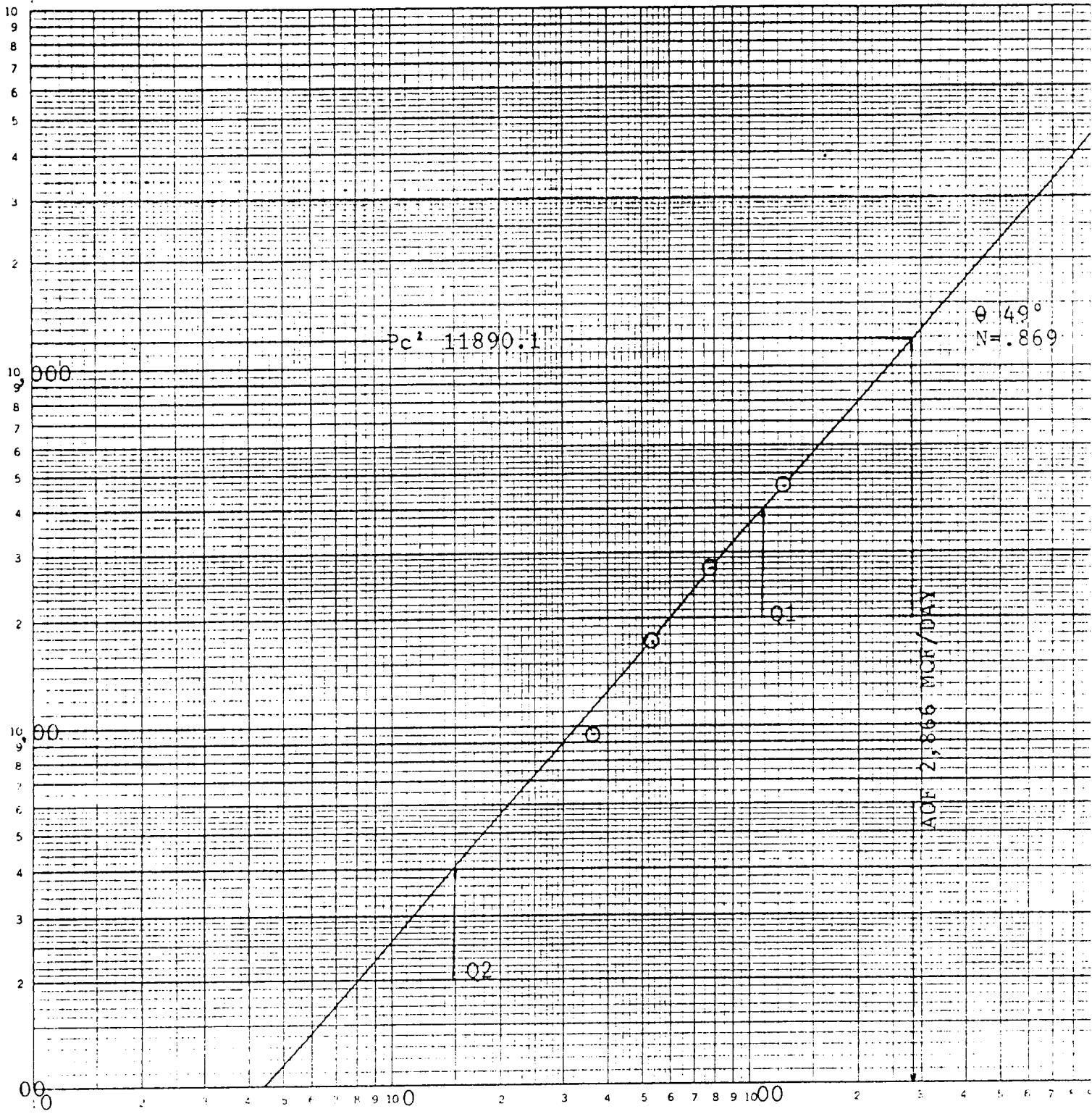
Remarks: WELL MADE 7.5 BBL CONDENSATE, 3 BBL WATER DURING TEST.

Approved By	Conducted By:	Calculated By:	Checked By:
	DUKE SERVICES, INC	R. RESTON	

COMPANY: EXXON COMPANY U.S.A.
 LEASE: SQUAW FED. #1
 COUNTY: EDDY
 DATE: 8/30/84

40 7403

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$Q = \text{MCF/DAY}$

$Q_1 = 1100 = 3.041393$
 $Q_2 = 149 = 2.172393$
 $N = .869000$