

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE TEST AND ONE POINT BACK PRESSURE TEST

RECEIVED BY

MAR 14 1985

O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/25/85	
Company CARL A. SCHELLINGER		Connection AIR NEW WELL	
Pool SOUTH PALMA MESA-PENN		Unit E	
Completion Date 2/18/85	Total Depth 6757	Plug Back 6450	Elevation 6749
Form or Lease Name CAMPBELL STATION		Well No. #5	
Case Size 7.500	Wt. 15.6	d 4.950	Set At 6750
Perforations: From 6389 To 6407		Well No. #5	
Fig. Size 2.375	Wt. 4.7	d 1.995	Set At 6337
Perforations: From 0 To 0		Unit E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 6337	
Producing thru TUBING		Baro. Press. - P _a 13.2	
Reservoir Temp. °F 0 6389		Mean Annual Temp. °F 60.0	
County CHAVES		State NEW MEXICO	
L 6389	H 6389	G _g .637	% CO ₂ 1.85
% N ₂ 3.57	% H ₂ S 0	Prover 0	Motor Run 3.1
Type FLANGE			

FLOW DATA							TUBING DATA		B.H.P. 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.	CHOKE	
1	3.07	X	1.500	150	18.0	90	1885	0	2236		72.0
2	3.07	X	1.500	450	13.0	93	1855	0	2203	6/64	1.0
3	3.07	X	1.500	450	38.0	96	1768	0	2129	10/64	1.0
4	3.07	X	1.500	450	60.0	102	1600	0	1926	13/64	1.0
5	3.07	X	1.500	450			1298	0	1697	16/64	1.0

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 _{sp}	Rate of Flow Q, M/d
1	11.13	54.20	163.2	.9723	1.2529	1.0115	743
2	11.13	77.60	463.2	.9697	1.2529	1.0322	1083
3	11.13	132.67	463.2	.9671	1.2529	1.0315	1845
4	11.13	166.71	463.2	.9619	1.2529	1.0301	2303

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.24	550	1.54	.977	0	0	.637	.637	673	357
2	.69	553	1.55	.939						
3	.69	556	1.56	.940						
4	.69	562	1.57	.942						

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	4912	1765	3114	92
2	4589	1707	2913	293
3	3760	1550	2401	805
4	2925	1374	1888	1319

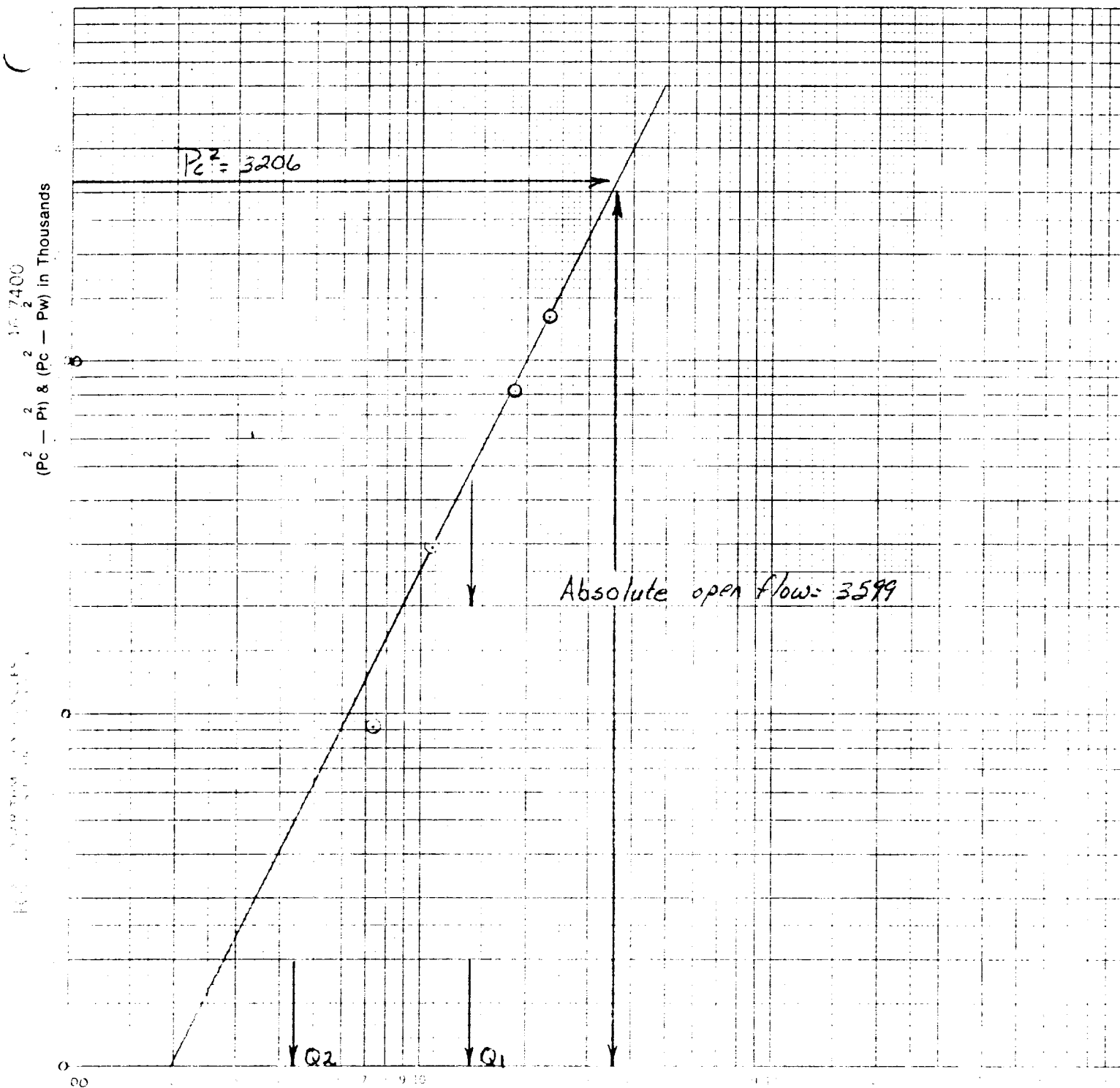
$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 2.4316$		$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.5028$	
$AOI = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3599$		Post FD-2 3-22-85 Camp & BK	

Absolute Open Flow	3599	M/d @ 15.025	Angle of Slope	63.3	Slope, n	.503
Remarks:						

Approved by Commission:	Conducted by:	Calculated by:	Checked by:
	Bennett & Cathey, Inc.	Bennett & Cathey, Inc.	Richard Townley

BACK PRESSURE CURVE

Operator Carl A Schellinger Lease Cambell Station Well No. 5
 County Chaves Field Location 3 19S 27E
 Date of Test 2-25-85 Slope "n" 503 Angle of Slope 63.3
 Calc. Abs. Potential 3599 MCF/D



$$\frac{\Delta P_1^2}{\Delta P_2^2} \frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = \frac{500}{50}$$

$$Q_1 = \underline{1401}$$

$$Q_2 = \underline{440}$$

Q in MCF/Day

$$\text{LOG } Q_1 = \underline{3.1464}$$

$$\text{LOG } Q_2 = \underline{2.6434}$$

$$n = \underline{0.503}$$

COMPANY: CARL SCHELLER P
 LEASE: CAMPBELL STATION UNIT
 FIELD:
 IDWIT: 04-05
 STATUS: FOUR POINT PAIR PRODUCTION TEST
 PERFORATION: 9500' 0000' 00'
 TEST: 0000' 00'

DATA: 0000' 0000'
 WELL: 00
 TIME: 0000
 DATE: 00-00-00
 OPERATOR: 0000 000000
 TEMPERATURE: 0000' 00'

ELEMENT: 00000000
 CLOCK: 0000
 ELEMENT: 00000000
 CLOCK: 0000

ELEMENT: 0000 0000
 CLOCK: 0000 0000
 ELEMENT: 0000 0000
 CLOCK: 0000 0000

START: 0000 0000/00
 SET ELEMENT: 00/00/00
 WELL SHUT IN: 00 00 00
 TEST ENDED: 0000/00

0000/00 0000 0000
 0000/00 0000 0000
 0000/00 0000 0000
 0000/00 0000 0000

GAIN: 1
 FILE: UNIT-5-2:1711

FILE: 0 00
 PERFORATION PRODUCTION: 00.0 00.0

TEST DATE: 02/25/85 TO 02/25/85
TEST DEPTH: 6320 ft
ELEMENT NO: RPC3#23060
RANGE: 5225 psig
CLOCK: 32463
RANGE: 24 hrs
OPERATOR: DON BENNETT

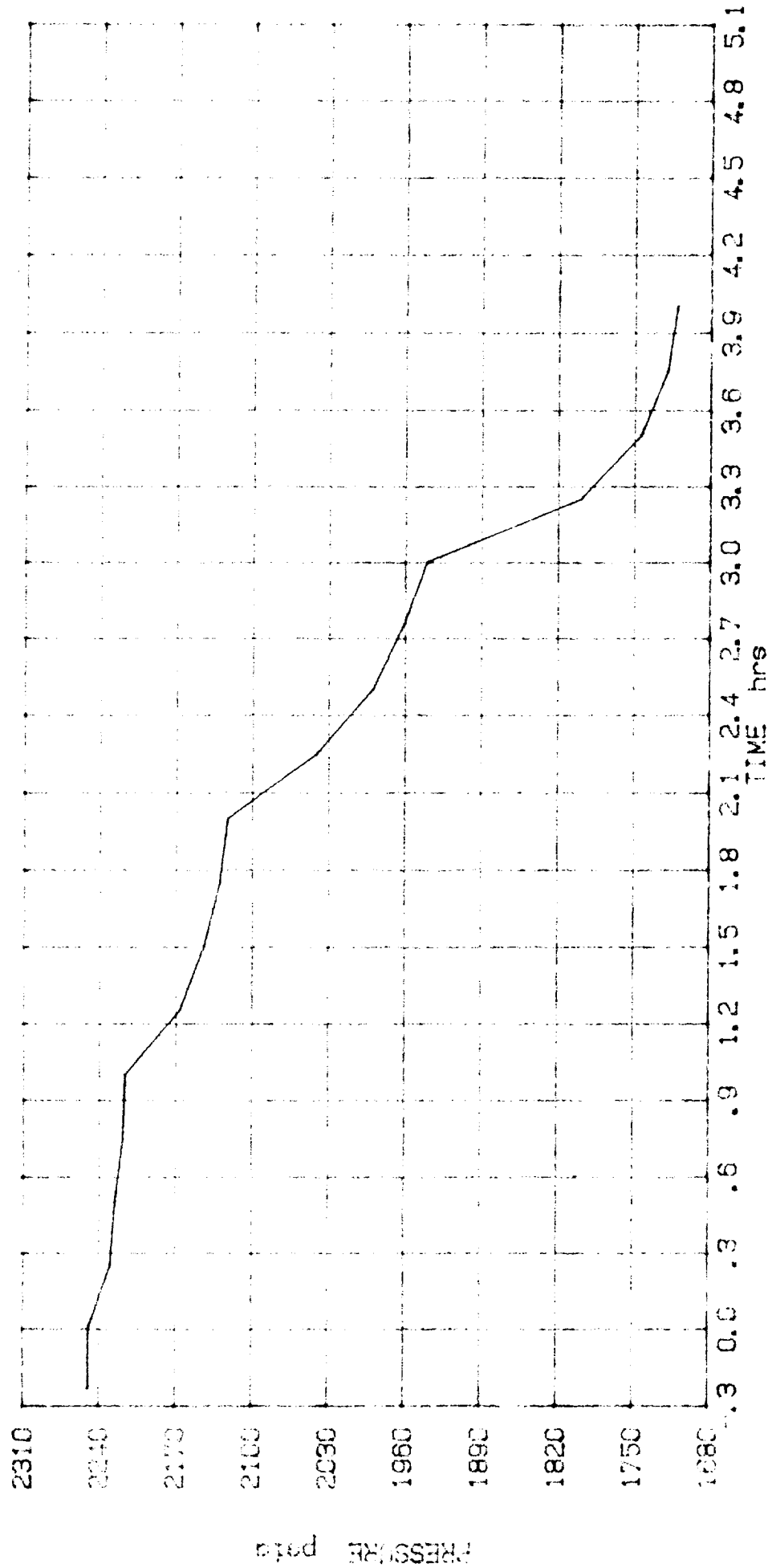
FRANK MORGAN

CARL SCHELLINGER

CAMPBELL STATION UNIT #5

BENNETT-CATHEY WIRE LINE SERVICE

Box 787 Artesia, N.M. 88210 (505) 748-3354



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