STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JUL 11 '89
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7/6/89	
Company: CARL A. SCHELLINGER			Connection: PIPELINE		
Pool: Undesignated Four Rivers Penn			Formation: PENN		Unit:
Completion Date: 7/1/89	Total Depth: 6452		Plug Back TD: 6208	Elevation: 6595	Farm or Lease Name: CAMPBELL STATION UT.
Csg. Size: 5.500 / Wt.: 15.5 / d: 4.950	Set At: 6595		Perforations: From 6311 To 6337		Well No.: 6
Tbg. Size: 2.875 / Wt.: 8.7 / d: 2.259	Set At: 6208		Perforations: From 0. To 0.		Unit: I / Sec.: SEC 5 / Twp.: 9S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE GAS			Packer Set At: 6208		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 140 @ 6324	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: N. M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6324	6324	.811	21.00	1.12	.00	.0	2.1	FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1860	62			72.0
1.	2.09 X 1.375	170	13	57	1745	61	PKR		1.0
2.	2.09 X 1.375	175	24	55	1605	61	PKR		1.0
3.	2.09 X 1.375	185	38	54	1420	61	PKR		1.0
4.	2.09 X 1.375	185	42	59	1200	61	PKR		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.16	48.80	183.2	1.0029	1.1104	1.0185	562
2.	10.16	67.21	188.2	1.0048	1.1104	1.0193	776
3.	10.16	86.78	198.2	1.0058	1.1104	1.0205	1005
4.	10.16	91.24	198.2	1.0010	1.1104	1.0198	1050
5.							

NO.	P_t	Temp. °R	T_t	Z
1	.24	517	1.34	.964
2.	.25	515	1.33	.962
3.	.26	514	1.33	.960
4.	.26	519	1.34	.961
5				

Gas Liquid Hydrocarbon Ratio .0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons .0 Deg.
Specific Gravity Separator Gas .811 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .811
Critical Pressure 752. P.S.I.A. 752. P.S.I.A.
Critical Temperature 386. R 386. R

P_c 1872.8 P_c^2 3507

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3091	1759	3096	411
2	2619	1620	2626	882
3	2054	1437	2065	1442
4	1472	1219	1485	2023
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7341$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3169$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1383.$

Absolute Open Flow 1383. Mcfd @ 15.025 Angle of Slope θ 63.4 Slope, n .500

Remarks: CHOKE SIZE: 1ST RATE – 10/64 2ND RATE – 12/64 3RD RATE – 14/64
4TH RATE – 16/64

Approved By Division	Conducted By:	Calculated By:	Checked By:
	BENNETT-CATHEY	MATT LEE	

2987

BENNETT & CATHEY PRODUCTION TESTING

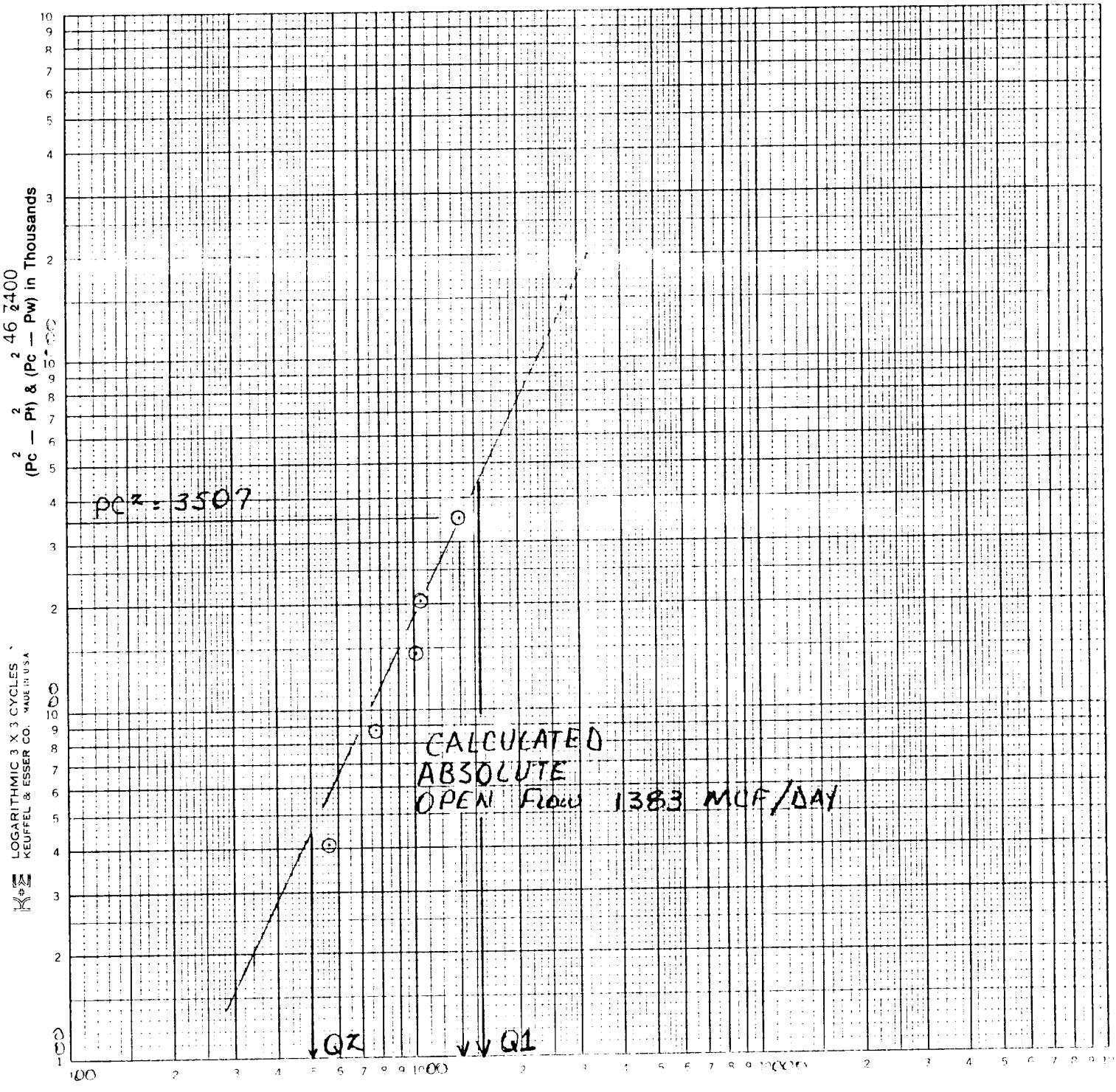
BACK PRESSURE CUR

Operator CARL A. SCHELLINGER Lease CAMPBELL STATION Well No. #6

County CHAVES Field _____ Location SEC. 5-9S-27E

Date of Test 7/6/89 Slope "n" .500 Angle of Slope 63.4

Calc. Abs. Potential 1383 MCF/D



$\overline{\Delta P_1^2}$ $P_c^2 - P_w^2 = 4400$

$\overline{\Delta P_2^2}$ $P_c^2 - P_w^2 = 440$

$Q_1 = 1581$

$Q_2 = 500$

LOG $Q_1 = 3.199$

LOG $Q_2 = 2.699$

$n = .500$

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240 RECEIVED

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410 JUL 11 '89

O. C. D.
ARTESIA, OFFICE

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

Santa Fe	
File	
Transporter	Oil / Gas
Operator	

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator	Well API No.
CARL A. SCHELLINGER	30-005-62680
Address P. O. Box 447, Roswell, NM 88202	

Reason(s) for Filing (Check proper box)

- New Well ☐
- Recompletion ☒
- Change in Operator ☐
- Other (Please explain) ☐
- Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☐

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

N. Four Ranch (Penn)

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Campbell Station Unit	6	Palma Mesa Penn South	State, ~~Fed~~ XXXXXXX	L-6276

Location
Unit Letter I : 1980' Feet From The South Line and 660 Feet From The East Line
Section 5 Township 9 South Range 27 East, NMPM, Chaves County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒: Navajo Refining Co.	Address (Give address to which approved copy of this form is to be sent): P. O. Box 159, Artesia, NM 88210
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒: Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent): P.O.Box 2521, Houston, TX 77001

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When ?
	I	5	9S	27E	Yes	7-6-89

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X				X		X

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
3-12-89	7-6-89	6595'	6440'
Elevations (DF, RKB, RT, GR, etc.)	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
3877GR, 3888KB	Pennsylvanian	6311'	6208'
Perforations			**Depth Casing Shoe**
6311-6337			6595'

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4"	8 5/8"	1390'	700 sx circ.
7 7/8"	5 1/2"	6595'	600 sx
	2 7/8"	6208'	

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL *(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)*

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
562	1hr.	0	-
Testing Method (pitot, back pr.)	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Back Pr.	1860#	Pkr.	10/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature CARL A. SCHELLINGER

Printed Name: 7-10-89 (Date) | Title: 623-2328 (Telephone No.)

OIL CONSERVATION DIVISION

Date Approved AUG 21 1989

By ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

Title _____

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
2) All sections of this form must be filled out for allowable on new and recompleted wells.
3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
4) Separate Form C-104 must be filed for each pool in multiply completed wells.