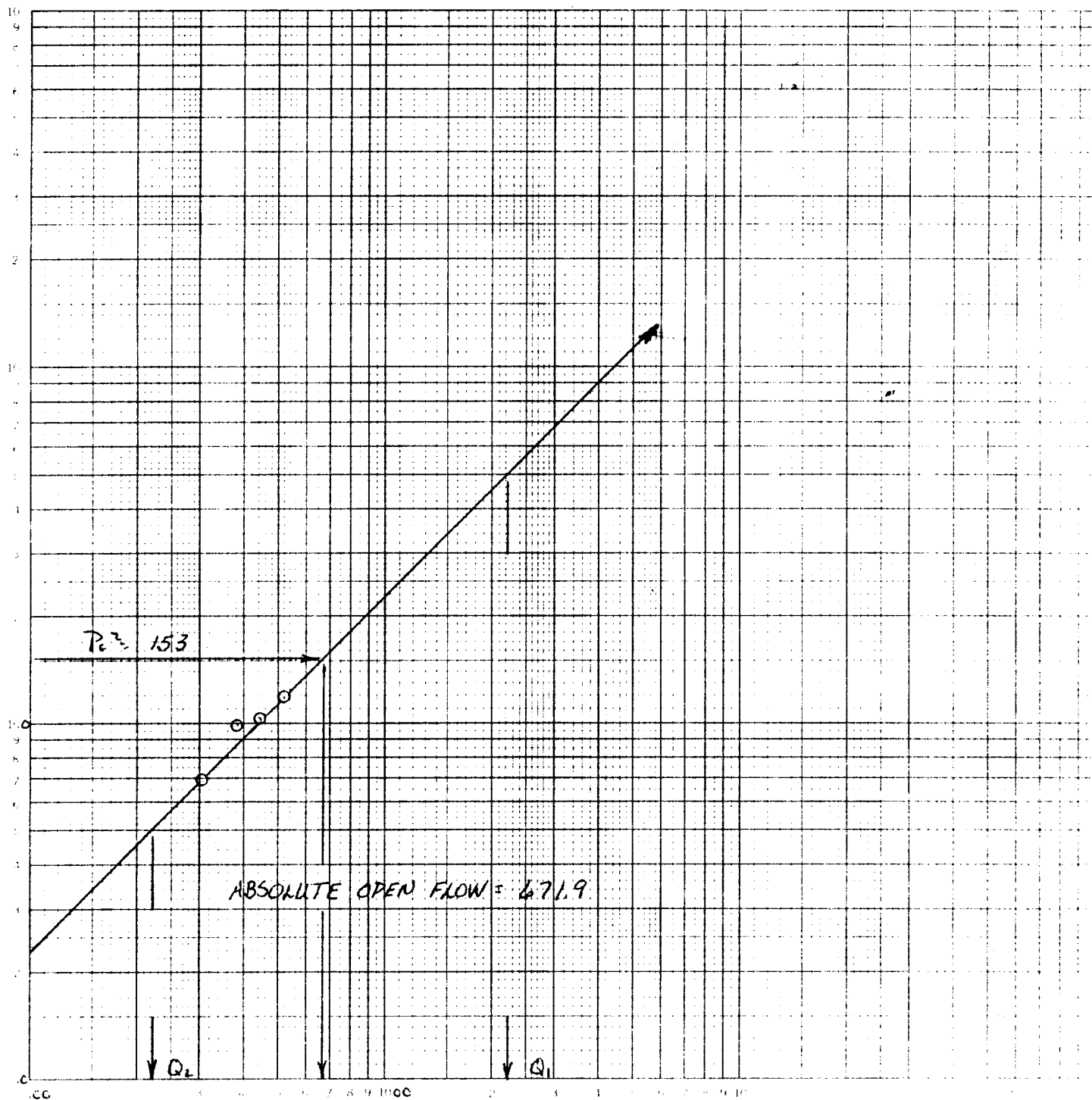


JOHN D GOODRICK
Williams Federal
H 8 135 31E
Phases

46 7400

LOGARITHMIC PLACES
HEADLESS CO. WILSON



$$\Delta P: P_2 - P_w = 500$$

$$\Delta P: P_2 - P_w = 500$$

$$Q_1 = 222$$

$$Q_2 = 22$$

Q. Model

$$\log Q_1 = 2.34635$$

$$\log Q_2 = 1.34242$$

$$n = 1.00393 = 1.000$$



PRECISION SERVICE INC.

Flow Measurement Engineers

Analysis Results Summary

Casper, WY 82601

Run No. 1007-1

Date Run 10/07/07

Date Sampled 09/20/07

Analysis For: BENNETT & CATHEY WRLN.

Lease Williams Federal #1

Producer John Goodrich

Location _____

County Chaves

State New Mexico

Purpose Well Test

Sampled By B & C WRLN.

Sampling Temp. 78 °F

Atmos Temp. 67 °F

Volume/day 100 MCF

Formation _____

Pressure on Bomb 85

PSIG; Line Pressure 85

PSIG _____

Gas Component

Analysis

Press. Base: 14.73

Mol. %

Liq. %

GPM
Per MCF

Carbon Dioxide CO₂

.001

Oxygen O₂

.045

Nitrogen N₂

69.568

Hydrogen Sulfide H₂S

Methane C₁

18.480

3.125

Ethane C₂

6.886

1.837

Propane C₃

3.314

.910

iso-Butane iC₄

.390

.127

Nor-Butane nC₄

.800

.251

Iso-Pentane iC₅

.190

.069

Nor-Pentane nC₅

.182

.066

hexanes plus

.146

.063

heptanes

heptanes Plus C₇+

Total

100.000

6.449

Pentane + G.P.M.

.198

Propane + GPM

1.487

1-lb Gasoline

.845

Ethane + GPM

3.324

BTU Dry

455

BTU Wet

452

Calc. Specific Gravity

0.74

A Std. Press. 14.696

BTU Dry

453

BTU Wet

451

Calc. Vap. Press. #/Sq.In.

Reid Vap. Press. #/Sq.In.

Z Factor

.9989

N Value

1.3552

Ave Mol Wt

27.6247

Ave Cu Ft/Gal

Run by Jeffrey A. Propp

Calculated By Jeffrey A. Propp

Remarks: BTU Wet adjusted to flowing conditions as established by FERC Order #93/93-A and calculated per GPA Reference Bulletin 181-82.

Distribution: _____



BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone (505) 746-3281



BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR JOHN S. GOODRICH
LEASE WILLIAMS FEDERAL
WELL NO. #1
POOL FORMATION
DATE 9-30-83 TIME 1026 HOUR
CO. MAN JOHN GOODRICH
STATUS SHUT IN TEST DEPTH 2573 FEET
TIME S.I. LAST TEST DATE 1ST TEST
 BHP LAST TEST
TUB. PRES. 391.2# BHP CHANGE
CAS. PRES. FLUID TOP 2212 FEET
DATUM PLANE WATER TOP
DATUM PSIA 622.2# RUN BY BO FAULKENBERRY
TEMP 94° CLOCK # B-3443
PRESSURE RANGE 2000 LBS.
ELEMENT NO. RPG3#16150N

DEPTH	PRESSURE	GRADIENT
0	391.2	
500	393.2	.4
1000	400.2	1.4
1500	410.2	2.0
2400	525.2	12.8
2573	622.2	56.0

TIME B.H.P. MEASURED 1026 HOUR.

