

15-063-20799

CHENEY TESTING COMPANY, INC.

28-15-29w

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Section is 28, not 25 as printed

Company	Abercrombie Drlg. Inc.	Test No.	1
Well Name & Number	Bennett #1	Zone Tested	Kansas City- "I"
Company Address	801 Union Center, Wichita, Kansas	Date	8-21-84
Company Rep.	Vernon Schrag	Tester	Rodney Steinbrink
Contractor	28 Abercrombie Drlg. Co.	Elevation	2567 K.B.
Location: Sec. 25 Twp. 15s Rge. 29w Co. Gove State Kans	Est. Feet of Pay		

Recorder No. 13370 Type AK-1 Range 3900 PSI

Recorder Depth 3885 Clock #25831

(A) Initial Hydrostatic Mud 1873 PSI

(B) First Initial Flow Pressure 9 PSI

(C) First Final Flow Pressure 9 PSI

(D) Initial Shut-in Pressure 980 PSI

(E) Second Initial Flow Pressure 19 PSI

(F) Second Final Flow Pressure 29 PSI

(G) Final Shut-in Pressure 940 PSI

(H) Final Hydrostatic Mud 1833 PSI

Temperature 108

Mud Weight 9.5 Viscosity 46

Fluid Loss 11.2

Interval Tested 3861-3893

Anchor Length 32'

Top Packer Depth 3856

Bottom Packer Depth 3861

Total Depth 3893

Drill Pipe Size 4½ X.H.

Wt. Pipe I. D. 2.7 Ft. Run 610

Recovery-Total Feet 85

Recovered 25 Feet Of Clean Oil - 37 Gravity

Recovered 60 Feet Of Heavy Oil Cut Mud- 15% Oil, 85% Mud.

Recovered 60 Feet Of Gas In Pipe

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job \$625.00

Recorder No. 13372 Type AK-1 Range 3900 PSI

Recorder Depth 3888 Clock # 25828

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 45 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 3:35 A.M.

Blow Remarks

1st Open- Good Surge On Open. Fair Blow

Built To 4".

Initial Shutin- Bled Off- No Return.

2nd Open- Fair Return, Built To 5".

CHENEY TESTING CO, INC.
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

FOR: ABERCROMBIE DRLG INC.
BENNETT #1
SEC 25-15-29
GOVE COUNTY KANSAS

DST # 1
FORMATION: KANSAS CITY I
ELEVATION: 2567 KB

TEST PARAMETERS

TEST INTERVAL: 3861 - 3893	EST PAY: 4
TIME INTERVAL: 30 - 45 - 60 - 45	VISCOSITY OF FLUID: 4
INITIAL FLOW PRESS: 6.9- 7.9	HOLE SIZE: 7.875
FINAL FLOW PRESS: 16.8- 20.8	D.C. CAPACITY: 0.00492
SHUT-IN PRESS(I-F): 986.1- 944.5	W.P. CAPACITY: 0.00708
BOTTOM HOLE TEMPERATURE: 108	D.P. CAPACITY: 0.01402
TOTAL FEET OF RECOVERY: 85	TOTAL BARRELS RECOVERY: 0.6016

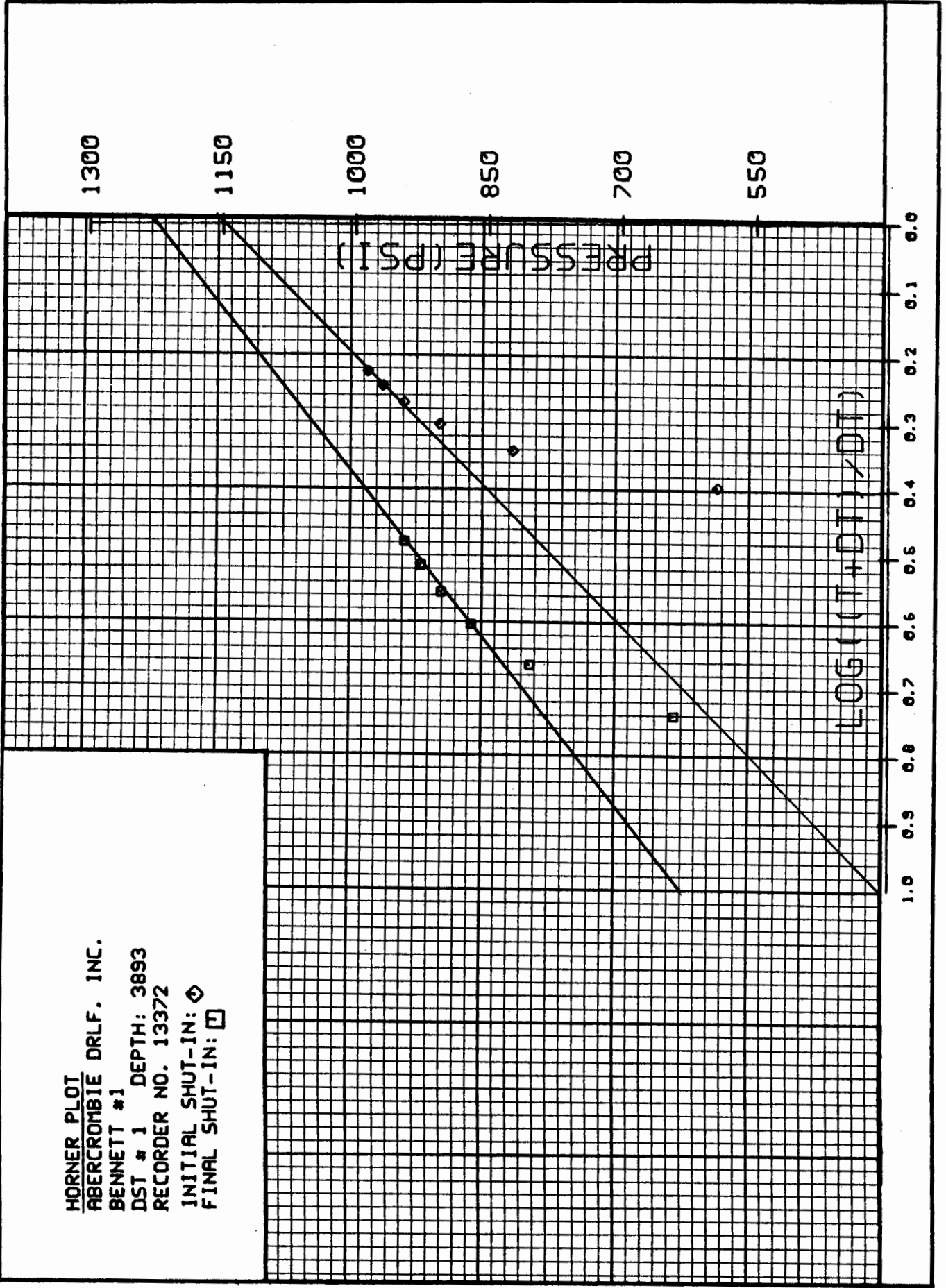
EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1150
SLOPE (PSI-CYCLE): 750 POINTS USED: 3

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1225
SLOPE (PSI-CYCLE): 593 POINTS USED: 4

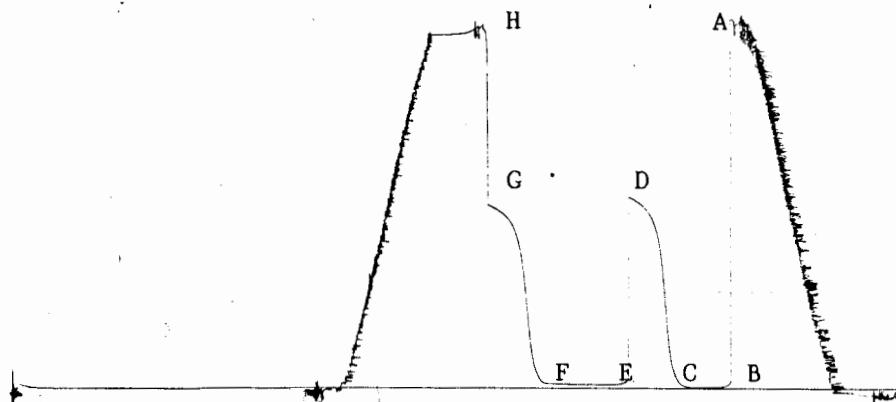
CALCULATIONS

AVERAGE PRODUCTION RATE (B/D)	: 9.63
TRANSMISSIBILITY (MD-FT/CP)	: 2.64
PERMEABILITY (MD)	: 2.64
PRODUCTIVITY INDEX (B/D/PSI)	: 0.0079
DAMAGE RATIO	: 0.372
APPROXIMATE RADIUS OF INVESTIGATION (FT)	: 15.4
DRAWDOWN FACTOR (%)	: -6.522
POTENTIOMETRIC SURFACE (FT)	: 1514.77

HORNER PLOT
 ABERCROMBIE DRLF. INC.
 BENNETT #1
 DST # 1 DEPTH: 3893
 RECORDER NO. 13372
 INITIAL SHUT-IN: $\diamond$
 FINAL SHUT-IN: $\square$



DST #1
13372 X



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1873	1868 PSI
(B) First Initial Flow Pressure	9	6.9 PSI
(C) First Final Flow Pressure	9	7.9 PSI
(D) Initial Closed-in Pressure	980	986.1 PSI
(E) Second Initial Flow Pressure	19	16.8 PSI
(F) Second Final Flow Pressure	29	20.8 PSI
(G) Final Closed-in Pressure	940	944.5 PSI
(H) Final Hydrostatic Mud	1833	1828 PSI

INITIAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3893 FT.
INITIAL FLOW TIME (T): 30 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
=====		
0	0.000	7.9
5	0.845	17.8
10	0.602	64.4
15	0.477	198.2
20	0.398	592.7
25	0.342	822.6
30	0.301	904.9
35	0.269	945.5
40	0.243	969.3
45	0.222	986.1

FINAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3893 FT.
TOTAL FLOW TIME: 90 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
=====		
0	0.000	20.8
5	1.279	29.7
10	1.000	89.2
15	0.845	284.4
20	0.740	641.2
25	0.663	802.8
30	0.602	869.2
35	0.553	902.9
40	0.512	925.7
45	0.477	944.5

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	2
Well Name & Number	Bennett #1	Zone Tested	Kansas City 200'
Company Address	810 Union Center, Wichita, Kansas	Date	8-21-84
Company Rep.	Vernon Schrag	Tester	Rod Steinbrink
Contractor	Abercrombie Drlg. Co.	Elevation	2567 K.B.
Location: Sec. 25 Twp. 15s Rge. 29w Co. Gove State Kans.		Est. Feet of Pay	

Recorder No. 13370 Type AK-1 Range 3900 PSI

Recorder Depth 3932 Clock # 25831

(A) Initial Hydrostatic Mud 1952 PSI

(B) First Initial Flow Pressure 29 PSI

(C) First Final Flow Pressure 39 PSI

(D) Initial Shut-in Pressure 940 PSI

(E) Second Initial Flow Pressure 79 PSI

(F) Second Final Flow Pressure 119 PSI

(G) Final Shut-in Pressure 921 PSI

(H) Final Hydrostatic Mud 1883 PSI

Temperature 109

Mud Weight 9.4 Viscosity 46

Fluid Loss 10.8

Interval Tested 3918-3940

Anchor Length 22'

Top Packer Depth 3913

Bottom Packer Depth 3918

Total Depth 3940

Drill Pipe Size 4 1/2 X.H.

Wt. Pipe I. D. 2.7 Ft. Run 610

Recovery-Total Feet 310

Recovered 125 Feet Of Gassy Clean Oil-80% Oil, 20% Gas

Recovered 60 Feet Of Oil Cut Muddy Water-2% Oil, 80% Water, 18% Mud.

Recovered 125 Feet Of Muddy Water-95% Water, 5% Mud.

Recovered 375 Feet Of Gas In Pipe

Recovered Feet Of

Recovered Feet Of

Extra Equipment None Price of Job \$625.00

Recorder No. 13372 Type Ak-1 Range 3975 PSI

Recorder Depth 3935 Clock #25828

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 45 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 8:09 P.M.

Blow Remarks

1st Open- Fair Blow Building To 18" In 27 Min.

1st Shut-in- Bled Off Blow. Returned in 20 Min.

To Steady Surface Blow.

2nd Open- Fair Blow Built To 18" In 29 Minutes.

Recovery Chlorides- 52,000 PPM

Resistivity- .14 ohms @ 71°F.

CHENEY TESTING CO, INC.
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

FOR: ABERCROMBIE DRLG. INC.
BENNETT #1
SEC 25-15-29
GOVE COUNTY KANSAS
DST # 2
FORMATION: KANSAS CITY
ELEVATION: 2567 KB

TEST PARAMETERS

TEST INTERVAL: 3918 - 3940	EST PAY: 4
TIME INTERVAL: 30 - 45 - 60 - 45	VISCOSITY OF FLUID: 4
INITIAL FLOW PRESS: 24.8- 46.6	HOLE SIZE: 7.875
FINAL FLOW PRESS: 78.3- 123.9	D.C. CAPACITY: 0.00492
SHUT-IN PRESS(I-F): 945.5- 927.7	W.P. CAPACITY: 0.00708
BOTTOM HOLE TEMPERATURE: 109	D.P. CAPACITY: 0.01402
TOTAL FEET OF RECOVERY: 310	TOTAL BARRELS RECOVERY: 2.1942

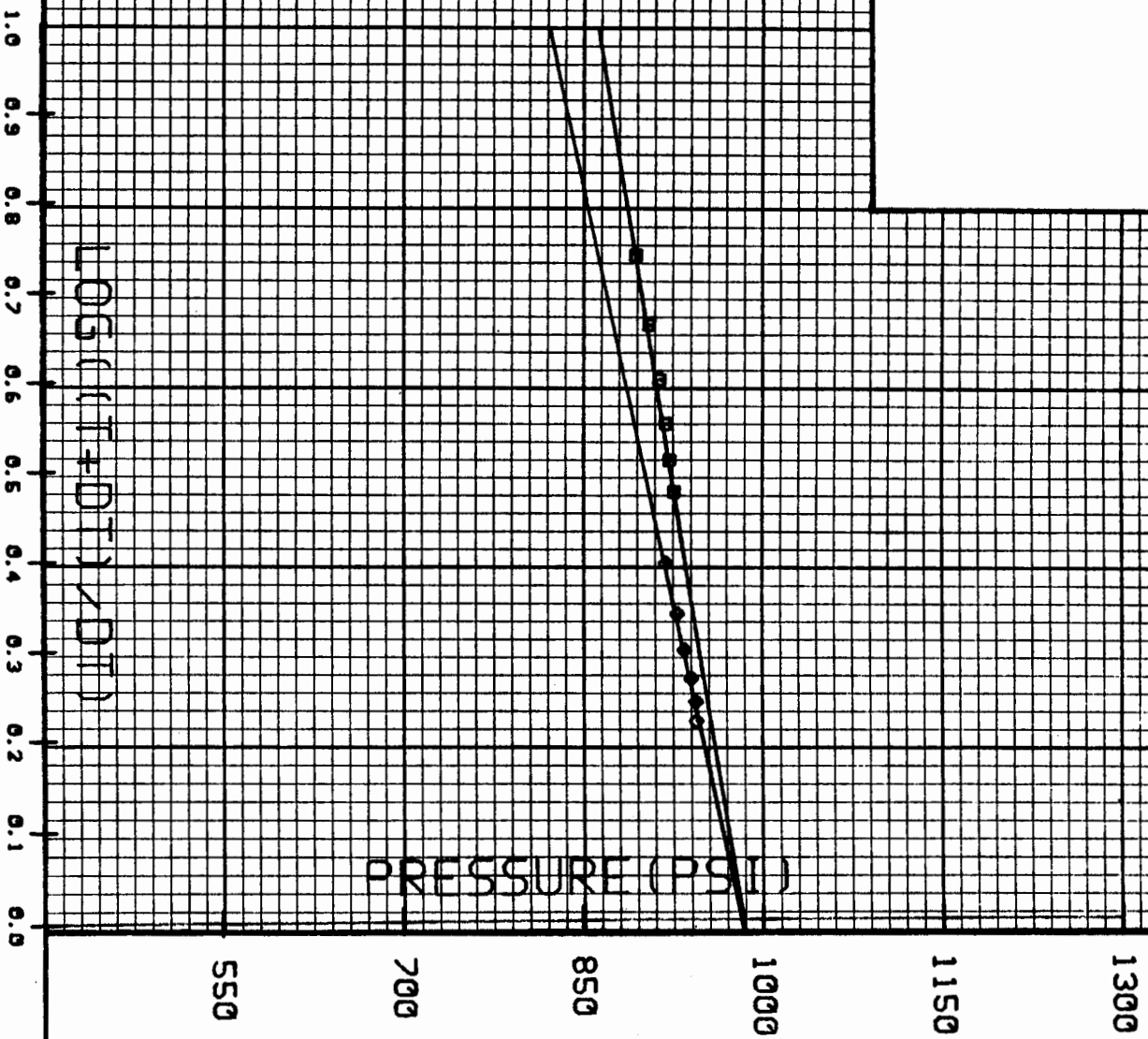
EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 985
SLOPE (PSI-CYCLE): 165 POINTS USED: 6

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 985
SLOPE (PSI-CYCLE): 120 POINTS USED: 4

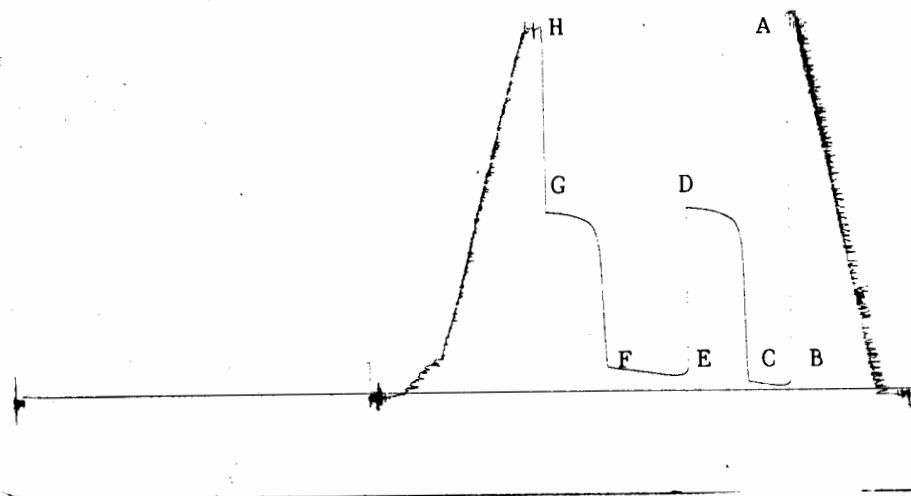
CALCULATIONS

AVERAGE PRODUCTION RATE (B/D)	: 35.11
TRANSMISSIBILITY (MD-FT/CP)	: 47.57
PERMEABILITY (MD)	: 47.57
PRODUCTIVITY INDEX (B/D/PSI)	: 0.0356
DAMAGE RATIO	: 1.313
APPROXIMATE RADIUS OF INVESTIGATION (FT)	: 65.4
DRAWDOWN FACTOR (%)	: 0.000
POTENTIOMETRIC SURFACE (FT)	: 911.22

HORNER PLOT
ABERCROMBIE DRLG. INC.
BENNETT #1
DST # 2 DEPTH: 3940
RECORDER NO. 13372
INITIAL SHUT-IN: $\diamond$
FINAL SHUT-IN: $\square$



DST # 2
13372 X



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1952	1947
(B) First Initial Flow Pressure	29	24.8
(C) First Final Flow Pressure	39	46.6
(D) Initial Closed-in Pressure	940	945.5
(E) Second Initial Flow Pressure	79	78.3
(F) Second Final Flow Pressure	119	123.9
(G) Final Closed-in Pressure	921	927.7
(H) Final Hydrostatic Mud	1883	1878

INITIAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3940 FT.
INITIAL FLOW TIME (T): 30 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	46.6
5	0.845	803.8
10	0.602	883.1
15	0.477	903.9
20	0.398	919.7
25	0.342	929.7
30	0.301	935.6
35	0.269	941.5
40	0.243	944.5
45	0.222	945.5

FINAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3940 FT.
TOTAL FLOW TIME: 90 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	123.9
5	1.279	659.1
10	1.000	842.4
15	0.845	879.1
20	0.740	896.0
25	0.663	906.9
30	0.602	915.8
35	0.553	920.7
40	0.512	923.7
45	0.477	927.7

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	3
Well Name & Number	Bennett #1	Zone Tested	Middle Creek
Company Address	810 Union Center, Wichita, Kansas	Date	8-22-84
Company Rep.	Vernon Schrag	Tester	Rod Steinbrink
Contractor	Co. Tools	Elevation	2567 K.B.
Location: Sec. 25 Twp. 15s Rge. 29w Co. Gove State Kansas	Est. Feet of Pay		

Recorder No. 13370 Type AK-1 Range 3900 PSI

Recorder Depth 3958 Clock # 25831

(A) Initial Hydrostatic Mud 1992 PSI

(B) First Initial Flow Pressure 209 PSI

(C) First Final Flow Pressure 675 PSI

(D) Initial Shut-in Pressure 763 PSI

(E) Second Initial Flow Pressure 724 PSI

(F) Second Final Flow Pressure 773 PSI

(G) Final Shut-in Pressure 773 PSI

(H) Final Hydrostatic Mud 1903 PSI

Temperature 109

Mud Weight 9.4 Viscosity 43

Fluid Loss 11.2

Interval Tested 3952-3966

Anchor Length 14'

Top Packer Depth 3947

Bottom Packer Depth 3952

Total Depth 3966

Drill Pipe Size 4 1/2 X.H.

Wt. Pipe I. D. 2.70 Ft. Run 310

Recovery-Total Feet 2045

Recovered 1425 Feet Of Gassy Mud Cut Oil-19% Gas, 2% Water, 19% Mud, 60% Oil.

Recovered 620 Feet Of Muddy Water-8% Mud, 92% Water.

Recovered 1155 Feet Of Gas In Pipe.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job \$625.00

Recorder No. 13372 Type AK-1 Range 3975 PSI

Recorder Depth 3961 Clock # 25828

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 45 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 11:02 A.M.

Blow Remarks

1st Open- Strong Blow Built To 18" In 45 Sec.

Initial Shut-In- Bled Off Blow- Returned In

1 Minute. Built To 18" In 4 Minutes.

2nd Open- Strong Blow Built To 18" In 2 Min.

Recovery Chlorides- 52,000 PPM

Resistivity- .14 ohms @ 71°

CHENEY TESTING CO, INC.
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

FOR: ABERCROMBIE DRLG. INC.
BENNETT #1
SEC 25-15-29-
GOVE COUNTY KANSAS

DST # 3
FORMATION: MIDDLE CREEK
ELEVATION: 2567 KB

TEST PARAMETERS

TEST INTERVAL: 3952 - 3966	EST PAY: 5
TIME INTERVAL: 30 - 45 - 60 - 45	VISCOSITY OF FLUID: 8
INITIAL FLOW PRESS: 211.1- 675.9	HOLE SIZE: 7.875
FINAL FLOW PRESS: 724.5- 770.1	D.C. CAPACITY: 0.00492
SHUT-IN PRESS(I-F): 767.1- 773.1	W.P. CAPACITY: 0.00708
BOTTOM HOLE TEMPERATURE: 109	D.P. CAPACITY: 0.01402
TOTAL FEET OF RECOVERY: 2045	TOTAL BARRELS RECOVERY: 26.5193

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 780
SLOPE (PSI-CYCLE): 62 POINTS USED: 6

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 776
SLOPE (PSI-CYCLE): 6 POINTS USED: 6

CALCULATIONS

AVERAGE PRODUCTION RATE (B/D)	: 424.31
TRANSMISSIBILITY (MD-FT/CP)	: 811498.78
PERMEABILITY (MD)	: 818398.05
PRODUCTIVITY INDEX (B/D/PSI)	: 0.5468
DAMAGE RATIO	: 0.180
APPROXIMATE RADIUS OF INVESTIGATION (FT)	: 1286.8
DRAWDOWN FACTOR (%)	: 0.513
POTENTIOMETRIC SURFACE (FT)	: 400.54

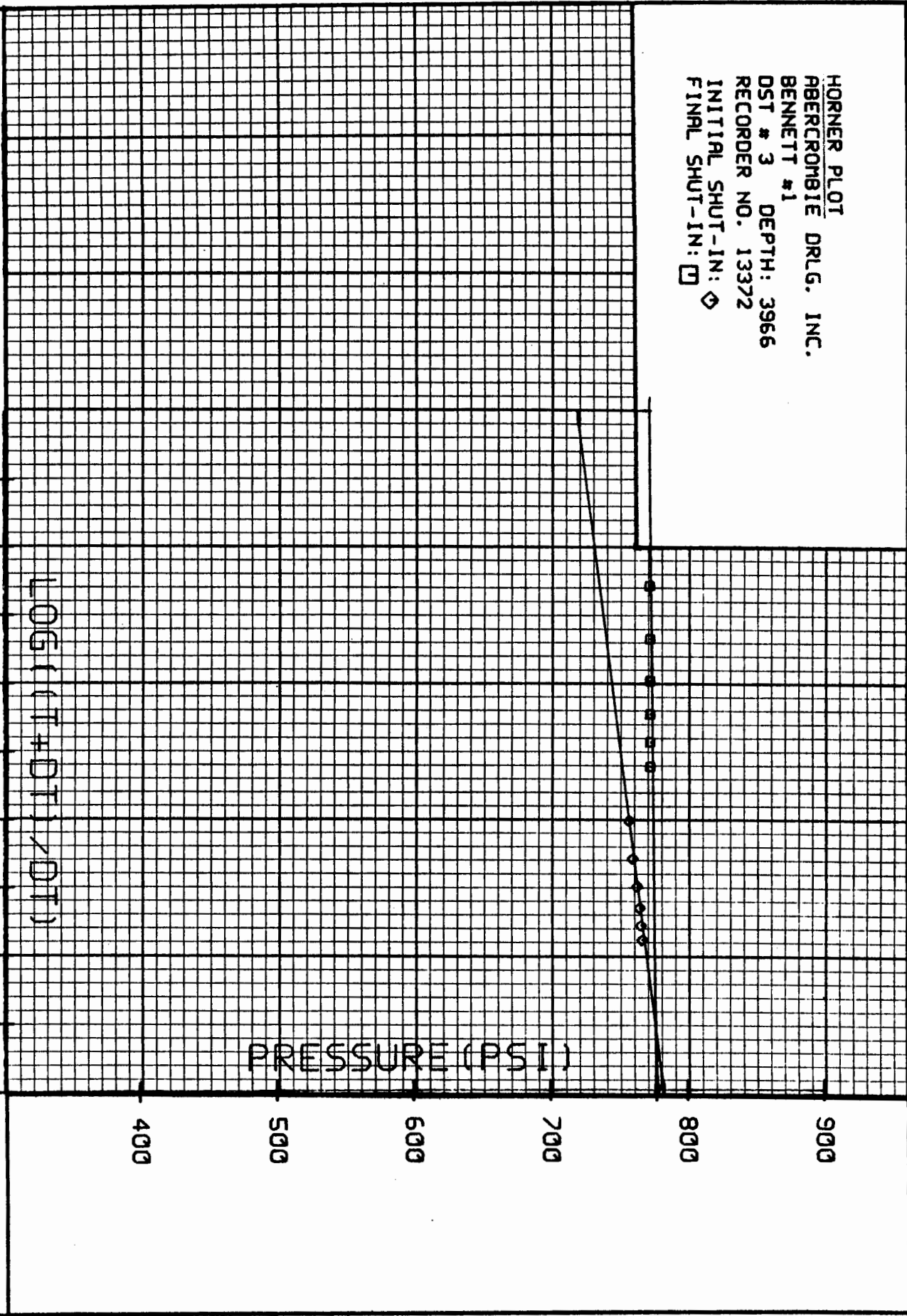
HORNER PLOT
ABERCROMBIE DRUG. INC.
BENNETT #1
DST # 3 DEPTH: 3966
RECORDER NO. 13372
INITIAL SHUT-IN: $\diamond$
FINAL SHUT-IN: $\square$

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

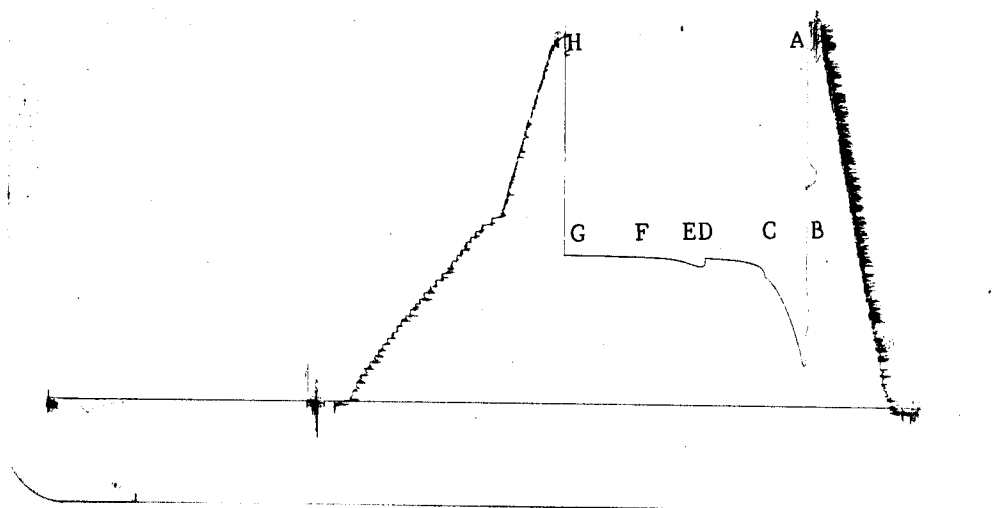
$\text{LOG}((T+\Delta T)/\Delta T)$

PRESSURE (PSI)

400 500 600 700 800 900



DST# 3
13372 X



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1992	1987
(B) First Initial Flow Pressure	209	211.1
(C) First Final Flow Pressure	675	675.9
(D) Initial Closed-in Pressure	763	767.1
(E) Second Initial Flow Pressure	724	724.5
(F) Second Final Flow Pressure	773	770.1
(G) Final Closed-in Pressure	773	773.1
(H) Final Hydrostatic Mud	1903	1898

INITIAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3966 FT.
 INITIAL FLOW TIME (T): 30 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
0	0.000	675.9
5	0.845	728.5
10	0.602	742.3
15	0.477	750.3
20	0.398	757.2
25	0.342	760.2
30	0.301	763.1
35	0.269	765.1
40	0.243	766.1
45	0.222	767.1

FINAL SHUT-IN

=====

RECORDER NO: 13372 DEPTH: 3966 FT.
 TOTAL FLOW TIME: 90 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
0	0.000	770.1
5	1.279	770.1
10	1.000	771.1
15	0.845	772.1
20	0.740	773.1
25	0.663	773.1
30	0.602	773.1
35	0.553	773.1
40	0.512	773.1
45	0.477	773.1

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	4
Well Name & Number	Bennett #1	Zone Tested	Cherokee Lime
Company Address	801 Union Center, Wichita, Kansas	Date	8-24-84
Company Rep.	Vernon Schrag	Tester	Rod Steinbrink
Contractor	Co. Tools	Elevation	2567 K.B.
Location: Sec. 25 Twp. 15s Rge. 29w Co. Gove State Kansas	Est. Feet of Pay		

Recorder No. 13370 Type AK-1 Range 3900 PSI

Recorder Depth 4250 Clock #25831

(A) Initial Hydrostatic Mud 2194 PSI

(B) First Initial Flow Pressure 79 PSI

(C) First Final Flow Pressure 119 PSI

(D) Initial Shut-in Pressure 899 PSI

(E) Second Initial Flow Pressure 138 PSI

(F) Second Final Flow Pressure 168 PSI

(G) Final Shut-in Pressure 840 PSI

(H) Final Hydrostatic Mud 2125 PSI

Temperature 112

Mud Weight 9.3 Viscosity 49

Fluid Loss 12.0

Interval Tested 4197-4258

Anchor Length 61

Top Packer Depth 4192

Bottom Packer Depth 4197

Total Depth 4258

Drill Pipe Size 4½ X.H.

Wt. Pipe I. D. 2.7 Ft. Run 575

Recovery-Total Feet 258

Recovered 157 Feet Of Oil - Gravity 29° @ 80°F. Corrected To 27 Gravity.

Recovered 128 Feet Of Heavy Oil Cut Mud-75% Mud, 24% Oil, 1% Water.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment Price of Job \$675.00

Recorder No. 13372 Type AK-1 Range 3975 PSI

Recorder Depth 4253 Clock #25828

Tool Open Before I.S.I. 30 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 45 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 4:09 A.M.

Blow Remarks

1st Open- Good Blow Built To 18" In 19 Minutes.

Initial Shut-in- Bled Off Blow. Returned In

5 Minutes To ½", Then Died Back.

2nd Open- Good Return Built To 18" In 39 Min.

Recovery Chlorides- 4,200 PPM

Resistivity-1.43 ohms @ 80°F.

CHENEY TESTING CO, INC.
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

FOR: ABERCROMBIE DRLG INC
BENNETT #1
SEC 25-15-29
GOVE COUNTY KANSAS
DST # 4
FORMATION: CHEROKEE LIME
ELEVATION: 2567 KB

TEST PARAMETERS

TEST INTERVAL: 4197 - 4258	EST PAY: 5
TIME INTERVAL: 30 - 45 - 60 - 45	VISCOSITY OF FLUID: 8
INITIAL FLOW PRESS: 86.7- 121.2	HOLE SIZE: 7.875
FINAL FLOW PRESS: 144.9- 375.5	D.C. CAPACITY: 0.00492
SHUT-IN PRESS(I-F): 900.9- 836.8	W.P. CAPACITY: 0.00708
BOTTOM HOLE TEMPERATURE: 112	D.P. CAPACITY: 0.01402
TOTAL FEET OF RECOVERY: 285	TOTAL BARRELS RECOVERY: 2.0173

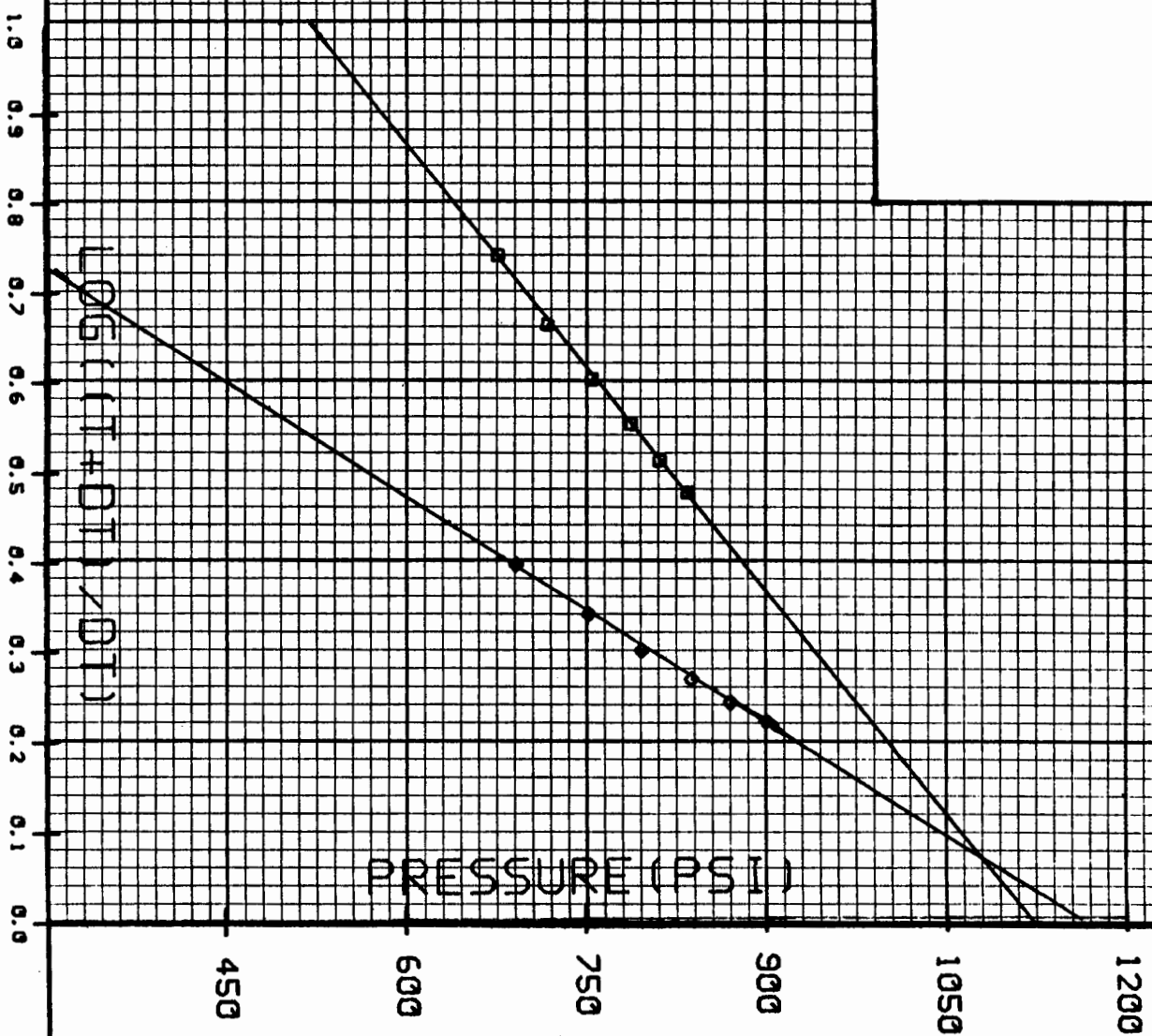
EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1117
SLOPE (PSI-CYCLE): 600 POINTS USED: 6

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1157
SLOPE (PSI-CYCLE): 910 POINTS USED: 5

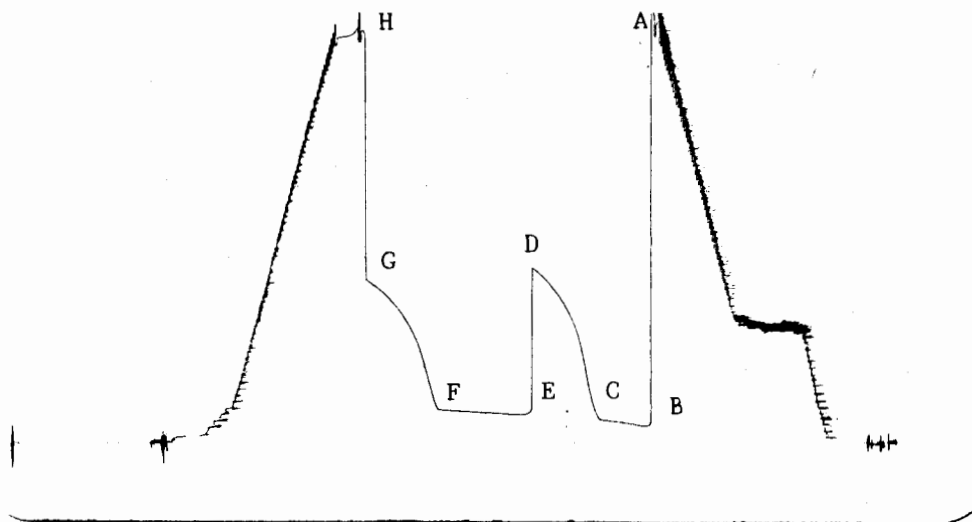
CALCULATIONS

AVERAGE PRODUCTION RATE (B/D)	: 32.28
TRANSMISSIBILITY (MD-FT/CP)	: 5.77
PERMEABILITY (MD)	: 9.23
PRODUCTIVITY INDEX (B/D/PSI)	: 0.0279
DAMAGE RATIO	: 0.157
APPROXIMATE RADIUS OF INVESTIGATION (FT)	: 28.8
DRAWDOWN FACTOR (%)	: -3.581
POTENTIOMETRIC SURFACE (FT)	: 992.08

HORNER PLOT
ABERCROMBIE ORLG INC
BENNETT #1
DST # 4 DEPTH: 4258
RECORDER NO. 13370
INITIAL SHUT-IN: $\diamond$
FINAL SHUT-IN: $\square$



DST #4 x
13370



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2194	2189
(B) First Initial Flow Pressure	79	86.7
(C) First Final Flow Pressure	119	121.2
(D) Initial Closed-in Pressure	899	900.9
(E) Second Initial Flow Pressure	138	144.9
(F) Second Final Flow Pressure	168	375.5
(G) Final Closed-in Pressure	840	836.8
(H) Final Hydrostatic Mud	2125	2120

INITIAL SHUT-IN

=====

RECORDER NO: 13370 DEPTH: 4258 FT.
 INITIAL FLOW TIME (T): 30 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	121.2
5	0.845	350.9
10	0.602	512.5
15	0.477	621.9
20	0.398	692.9
25	0.342	753.0
30	0.301	797.4
35	0.269	838.8
40	0.243	871.3
45	0.222	900.9

FINAL SHUT-IN

=====

RECORDER NO: 13370 DEPTH: 4258 FT.
 TOTAL FLOW TIME: 90 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)
0	0.000	375.5
5	1.279	486.9
10	1.000	569.7
15	0.845	622.9
20	0.740	678.1
25	0.663	719.5
30	0.602	757.0
35	0.553	788.5
40	0.512	813.1
45	0.477	836.8

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	Abercrombie Drlg. Inc.	Test No.	5
Well Name & Number	Bennett #1	Zone Tested	Pawnee & Marmaton
Company Address	801 Union Center, Wichita, Kansas	Date	8-25-84
Company Rep.	Vernon Schrag	Tester	Rod Steinbrink
Contractor	Co. Tools	Elevation	2567 K.B.
Location: Sec. 25 Twp. 15s Rge. 29w Co. Gove State Kansas	Est. Feet of Pay		

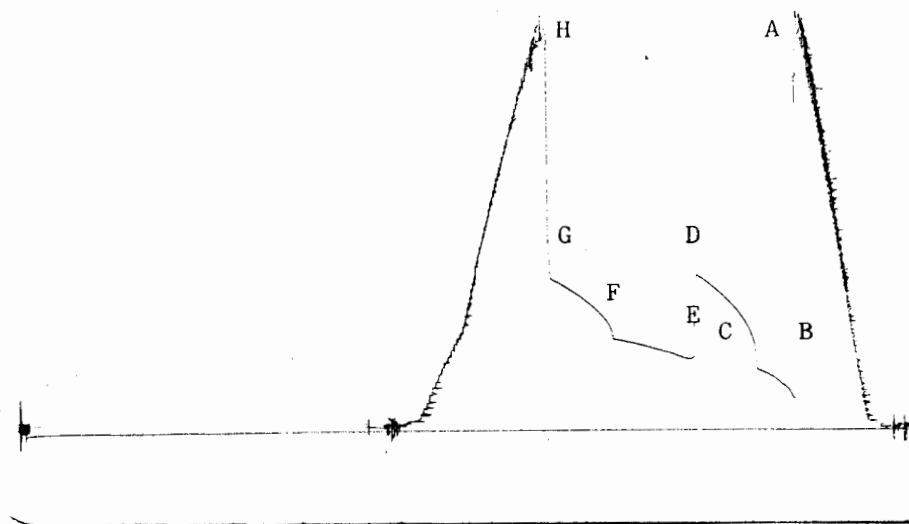
Recorder No. 13370 Type AK-1 Range 3900 PSI
 Recorder Depth 4115 Clock # 25831
 (A) Initial Hydrostatic Mud 2142 PSI
 (B) First Initial Flow Pressure 159 PSI
 (C) First Final Flow Pressure 308 PSI
 (D) Initial Shut-in Pressure 803 PSI
 (E) Second Initial Flow Pressure 368 PSI
 (F) Second Final Flow Pressure 468 PSI
 (G) Final Shut-in Pressure 783 PSI
 (H) Final Hydrostatic Mud 2092 PSI
 Temperature 105
 Mud Weight 9.4 Viscosity 48
 Fluid Loss 11.2
 Interval Tested 4076-4126
 Anchor Length 50'
 Top Packer Depth 4071 & 4126
 Bottom Packer Depth 4126
 Total Depth 4350
 Drill Pipe Size 4½ X.H.
 Wt. Pipe I. D. 2.7 Ft. Run 350'
 Recovery-Total Feet 945

Recorder No. 13372 Type AK-1 Range 3975 PSI
 Recorder Depth 4119 Clock # 25828
 Tool Open Before I.S.I. 30 Mins.
 Initial Shut-in 45 Mins.
 Flow Period 60 Mins.
 Final Shut-in 45 Mins.
 Top Choke Size 1" Hole Size 7 7/8"
 Bottom Choke Size 3/4" Rubber Size 6 3/4"
 Tool Open @ 9:39 A.M.

Blow Remarks
 1st Open- Good Strong Blow Built To 18" In 3 Min
 2nd Open- Fair Blow Built To 13" In 8 Minutes.

Recovered 115 Feet Of Heavy Muddy Water With Oil Spots-20% Water, 80% Mud.
 Recovered 830 Feet Of Saltwater-
 Recovered Feet Of Top Recovery-.33 ohms @ 91°F. Chlorides- 16,000 PPM
 Recovered Feet Of Bottom Rec. -.13 ohms @ 92°F. Chlorides- 46,000 PPM
 Recovered Feet Of
 Recovered Feet Of
 Extra Equipment Straddle Price of Job \$975.00

DST #5 x
13372



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2142	PSI
(B) First Initial Flow Pressure	159	PSI
(C) First Final Flow Pressure	308	PSI
(D) Initial Closed-in Pressure	803	PSI
(E) Second Initial Flow Pressure	368	PSI
(F) Second Final Flow Pressure	468	PSI
(G) Final Closed-in Pressure	783	PSI
(H) Final Hydrostatic Mud	2092	PSI