



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET

23993

Formation Arbuckle Elevation 1278 KB Eff. Pay _____ Ft.

District Augusta Date 1-10-76 Customer Order No. _____

COMPANY NAME R.A. Robertson Whorton
ADDRESS 2400 Page Court Wichita 67202

LEASE AND WELL NO. Watt #2 COUNTY Cowley STATE Kansas Sec. 10 Twp. 31S Rge. 4E

Mail Inv. To Same Range Oil Co. Address Wichita Kan No. Copies Requested 1
Co. Name _____

Mail Charts To Same Range Oil Co Address Wichita Kan No. Copies Requested 5

Formation Test No. 1 O.K. 3 Misrun X Interval Tested From 3450 to 3460 Total Depth 3460

Size Main Hole 7 7/8 Rat Hole _____ Conv. X B.T. _____ Damaged _____ Yes _____ No Conv. _____ B.T. X Damaged _____ Yes _____ No

Top Packer Depth 3445 Ft. Size 6 3/4 Bottom Packer Depth 3450 Ft. Size 6 3/4

Straddle _____ Conv. _____ B.T. _____ Damaged _____ Yes _____ No Packer Depth _____ Ft. Size _____

Tool Size 5600 Tool Joint Size 4 1/2 FH Anchor Length 10 Ft. Size 5600 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3453 Ft. Clock No. 6800 Depth 3456 Ft. Clock No. 9102

Top Make Kuster Cap. 4200 No. 1559 Inside _____ Outside _____ Bottom Make Kuster Cap. 3150 No. 1565 Inside _____ Outside _____

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Inside _____ Outside _____ Depth _____ Ft. Rec. No. _____ Clock No. _____ Inside _____ Outside _____

Time Set Packer 6:28 P M

Tool Open I.F.P. From 6:30 P M to 6:45 P M — Hr. 15 Min. From (B) 363 P.S.I. To (C) 303 — P.S.I.

Tool Closed I.C.I.P. From 6:45 P M to 7:15 P M — Hr. 30 Min. (D) 1232 — P.S.I.

Tool Open F.F.P. From 7:15 P M to 7:30 P M — Hr. 15 Min. From (E) 324 P.S.I. To (F) 324 — P.S.I.

Tool Closed F.C.I.P. From 7:30 P M to 7:45 P M — Hr. 15 Min. (G) 876 — P.S.I.

Initial Hydrostatic Pressure (A) 2337 P.S.I. Final Hydrostatic Pressure (H) 2221 P.S.I. Maximum Temp. 125°

1766 INFORMATION 1772

BLOW Weak for 10 min. died Hydrostatics are correct
did not read pressures because
they are false

Did Well Flow — Yes X No _____ Recovery Total Ft. 395' dry mud

Reversed Out — Yes X No _____ Mud Type Chem Viscosity 54 Weight 9.9 Water Loss 10 cc. Chlorides 2400 PPM

EXTRA EQUIPMENT: Type Circ. Sub. PIN Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

Dual Packers yes Did Packers Hold? yes Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR White & Ellis Drilling Co. Length Drill Pipe 3280 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe _____ ft. I.D. Weight Pipe _____ In. Tool Joint Size _____ In. Length Drill Collars 150 ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 FH In. Length D.S.T. Tool 30 ft. recusing

Remarks Misrun Hole in well casing to 3' below.

Tool open 10 min - losing mud down hole

initial flow pressure of this 10 min. was 355-249

final flow pressure of this 10 min. was 240

pulled packer loose, still losing mud, checked top

two joints for hole in pipe, stopped losing mud,

back to bottom to continue test.

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION

Open Hole Test	\$ <u>355.249</u>
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Misrun	\$ <u>150.00</u>
Evaluation	\$ _____
Packer	\$ _____
Circ. Sub.	\$ _____
Total	\$ <u>505.249</u>

Test Approved By Gerald D. Works Western Representative Charles Branstetter

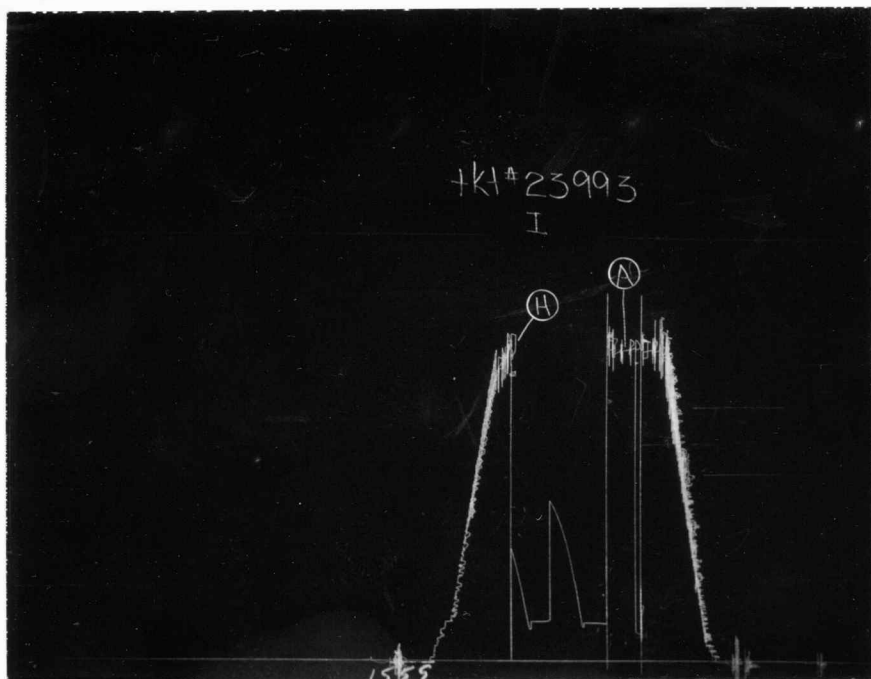
Signature of Customer or his Authorized Representative Gerald D. Works Operator's Time _____

+KI#23993
I

(H)

(A)

1555





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company R.A. Whortan Lease & Well No. Watt #2
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 23993
Date 1-10-76 Sec. 10 Twp. 31S Range 4E County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Charles Branstetter
Formation Test No. 1 O.K. - Misrun X Interval Tested From 3450' to 3460' Total Depth 3460'
Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 3445 Ft. Size 6 3/4 Bottom Packer Depth 3450 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3453 Ft. Clock No. 6800 Depth 3456 Ft. Clock No. 9102
Top Make Kuster Cap. 4200 No. 1559 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1565 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 6:28 P. M
Tool Open I.F.P. From 6:30P M. to 6:45P M. - Hr. 15 Min. From (B) - P.S.I. To (C) - P.S.I.
Tool Closed I.C.I.P. From 6:45P M. to 7:15P M. - Hr. 30 Min (D) - P.S.I.
Tool Open F.F.P. From 7:15P M. to 7:30P M. - Hr. 15 Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From 7:30P M. to 7:45P M. - Hr. 15 Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) 1766 P.S.I. Final Hydrostatic Pressure (H) 1772 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Weak blow for 10 minutes then died.

Did Well Flow - Yes X No Recovery Total Ft. 395' drilling mud. Hydrostatics are correct did not read pressures because they were false.

Reversed Out - Yes X No Mud Type chem Viscosity 54 Weight 9.9 Water Loss 10 cc. Chlorides 2400 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR White&Ellis Drlg. Co. Length Drill Pipe? 3280 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 30 Ft.

Remarks: MISRUN Tool open 10 minutes weak blow increasing to 3" blow. Loosing mud down hole initial flow pressure of this 10 minutes was 229 final flow pressure of this 10 minutes was 240, pulled packer loose, still loosing mud, checked top two joints for hole in pipe stopped loosing mud, back to bottom to continue test.



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

23994

Formation ARBIXINE Elevation 1278K Eff. Pay Ellis Ft. Shing

District

Augusta

Date

1-11-76

Customer Order No.

COMPANY NAME

R. D. Whorton

ADDRESS

240 Page Court

WELL NO.

WATT #2

COUNTY

Cowley

STATE

Kansas

Sec. 10

Twp. 31S

Rge. 4E

Oil Inv. To

Range Oil Co

No. Copies Requested

1

Oil Charts To

Range Oil Co

Address

No. Copies Requested

5

Address

Formation Test No.

2

O.K.

Misrun

X

Interval Tested From 3448' to 3460'

Total Depth 3460'

Main Hole

7 7/8"

Rat Hole

Conv.

X

B.T.

Damaged

Yes

No

Conv.

B.T.

Damaged

Yes

No

Conv.

B.T.

Damaged

Yes

No

Packer Depth

3443

Ft. Size

6 3/4"

Bottom Packer Depth

3448

Ft. Size

6 3/4"

Straddle

Conv.

B.T.

Damaged

Yes

No

Packer Depth

Ft. Size

Tool Size

5 1/2 OD

Tool Joint Size

4 1/2 FH

Anchor Length

12

Ft. Size

5 1/2 OD

Surface Choke Size

3 1/4

In. Bottom Choke Size

3 1/4

In.

CORDERS

Depth

3453

Ft.

Clock No.

6800

Depth

3456

Ft.

Clock No.

9102

Top Make

Kuster

Cap

4200

No.

1559

Bottom Make

Kuster

Cap

3150

No.

1565

Low Straddle: Depth

Rec. No.

Clock No.

Inside

Depth

Ft.

Rec. No.

Clock No.

Inside

Time Set Packer

3:13 AM

Tool Open I.F.P. From

3:15 M.

to

3:25 M.

Hr.

10

Min. From (B)

240

P.S.I. To (C)

250

P.S.I.

Tool Closed I.C.I.P. From

M. to

M.

Hr.

Min. (D)

Not taken

P.S.I.

Tool Open F.F.P. From

M. to

M.

Hr.

Min. From (E)

Not taken

P.S.I.

Tool Closed F.C.I.P. From

M. to

M.

Hr.

Min. (G)

Not taken

P.S.I.

Initial Hydrostatic Pressure (A)

2366

P.S.I.

Final Hydrostatic Pressure (H)

2361

P.S.I.

Maximum Temp.

125°F.

INFORMATION

LOW Fair inc to Good

Well Flow Yes X No

Recovery Total Ft.

360' drlq mud

Reversed Out Yes X No

Mud Type

Chem

Viscosity

54

Weight

9.9

Water Loss

10

cc.

Chlorides

2400 PPM

EXTRA EQUIPMENT: Type Circ. Sub.

PIN

Safety Joint

Jars: Size

In. Make

Ser. No.

Tool Packers

yes

Did Packers Hold?

Did Tool Plug?

no

Where?

DRILLING CONTRACTOR

Whitell's Drilling Co

Length Drill Pipe

3278

ft. I.D. Drill Pipe

3.8

In. Tool Joint Size

4 1/2 FH

Length Weight Pipe

ft. I.D. Weight Pipe

In. Tool Joint Size

In. Length Drill Collars

150

ft. I.D. Drill Collars

2.25

In.

Tool Joint Size

4 1/2 OD

In. Length D.S.T. Tool

32

ft.

Remarks loosing fluid thru test

Missouri leak in drill pipe (went to bottom of tool)

INVOICE SECTION

Open Hole Test	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$ <u>150.00</u>
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ <u>150.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made. Charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Signature of Customer or his Authorized Representative

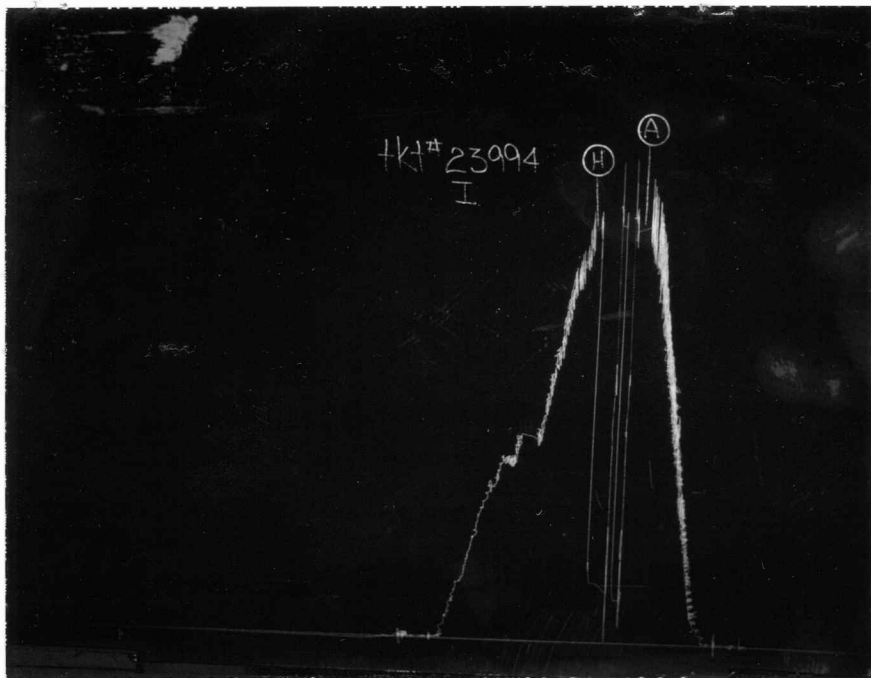
Shirley D. Huns

Western Representative

Charles Branstetter

Operator's Time

Hrs.





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company R.A. Whortan Lease & Well No. Watt #2
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 23994
Date 1-11-76 Sec. 10 Twp. 31S Range 4E County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Charles Branstetter
Formation Test No. 2 O.K. - Misrun X Interval Tested From 3448' to 3460' Total Depth 3460'
Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 3443 Ft. Size 6 3/4 Bottom Packer Depth 3448 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 12 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3453 Ft. Clock No. 6800 Depth 3456 Ft. Clock No. 9102
Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 3:13 A. M
Tool Open I.F.P. From 3:15A M. to 3:25A M. - Hr. 10 Min. From (B) - P.S.I. To (C) - P.S.I.
Tool Closed I.C.I.P. From - M. to - M. - Hr. - Min (D) - P.S.I.
Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) 2366 P.S.I. Final Hydrostatic Pressure (H) 2361 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Fair blow increasing to good blow.

Did Well Flow - Yes X No Recovery Total Ft. 360' drilling mud.

Reversed Out - Yes X No Mud Type chem Viscosity 54 Weight 9.9 Water Loss 10. cc. Chlorides 2400 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? - Did Tool Plug? no Where? - - -

DRILLING CONTRACTOR White&Ellis Drlg. Co. Length Drill Pipe? 3278 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 32 Ft.

Remarks: Loosing fluid throughout test. MISRUN leak in drill pipe (went to bottom with tool).



P. O. BOX 793 PHONE 793-7903

GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

23964

Formation in back all Elevation 1278K Eff. Pay ally Budding Ft.

District

Augusta

Date

1-11-76

Customer Order No.

COMPANY NAME

R.A. Whorton Whorton

ADDRESS

240 Page Court Wichita 67204

LEASE AND WELL NO.

Watt #2

COUNTY

Cowley

STATE

Ks

Sec.

10

Twp.

315

Rge.

4E

Mail Inv. To

Co. Name

Address

No. Copies Requested

Mail Charts To

same

Address

No. Copies Requested

Formation Test No.

3

O.K.

Misrun X

Interval Tested From

to 3460

Total Depth

3460

Size Main Hole

7 7/8

Rat Hole

—

Conv.

—

B.T.

X

Damaged

Yes

X

No Conv.

—

B.T.

X

Damaged

Yes

X

No

Top Packer Depth

—

Ft. Size

6 3/4

Bottom Packer Depth

—

Ft. Size

6 3/4

Straddle

Conv.

—

B.T.

—

Damaged

Yes

—

No

Packer Depth

—

Ft. Size

—

Tool Size

4 1/2 OD

Tool Joint Size

3 1/2 IF

Anchor Length

20

Ft. Size

4 1/2 FH

Surface Choke Size

34

In. Bottom Choke Size

34

In.

—

RECORDERS

Depth

—

Ft.

Clock No.

6859

Depth

—

Ft.

Clock No.

9103

Top Make

Ruster

Cap.

4200

No.

1558

Inside

Outside

Bottom Make

Ruster

Cap.

3150

No.

1562

Inside

Outside

Below Straddle: Depth

—

Rec. No.

—

Clock No.

—

Inside

Outside

Depth

—

Ft.

Rec. No.

—

Clock No.

—

Inside

Outside

Time Set Packer

M

Tool Open I.F.P. From

M. to

—

M.

—

Hr.

—

Min.

—

From (B)

—

P.S.I. To (C)

—

P.S.I.

—

Tool Closed I.C.I.P. From

M. to

—

M.

—

Hr.

—

Min.

(D)

—

P.S.I.

—

Tool Open F.F.P. From

M. to

—

M.

—

Hr.

—

Min.

From (E)

—

P.S.I. To (F)

—

P.S.I.

—

Tool Closed F.C.I.P. From

M. to

—

M.

—

Hr.

—

Min.

(G)

—

P.S.I.

—

Initial Hydrostatic Pressure (A)

—

P.S.I.

—

Final Hydrostatic Pressure (H)

—

P.S.I.

—

Maximum Temp.

—

—

—

—

—

—

—

—

—

—

—

—

INFORMATION

BLOW

Did Well Flow

Yes

—

No

Recovery Total Ft.

170

Drilling mud

Reversed Out

Yes

X

No

Mud Type

Chem

Viscosity

55

Weight

9.8

Water Loss

10

cc. Chlorides

2400

EXTRA EQUIPMENT: Type Circ. Sub.

Pin

Safety Joint

—

Jars: Size

—

In. Make

—

Ser. No.

—

Dual Packers

Yes

Did Packers Hold?

—

Did Tool Plug?

—

Where?

—

DRILLING CONTRACTOR

White & Ellis Drilling

Length Drill Pipe

—

ft. I.D. Drill Pipe

—

In. Tool Joint Size

—

In.

—

Length Weight Pipe

—

ft. I.D. Weight Pipe

—

In. Tool Joint Size

—

In. Length Drill Collars

—

ft. I.D. Drill Collars

—

In.

—

Tool Joint Size

—

In. Length D.S.T. Tool

40

ft.

—

Remarks

Missing seal in drill pipe

Tool did not go to bottom (stopped 12 stands off bottom)
Out of hole with drill pipe @ 11:45 AM

INVOICE SECTION

Open Hole Test

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Misrun

\$

Evaluation

\$

Packer

\$

Circ. Sub.

\$

\$

Total

\$

150.00

COMPANY TERMS

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All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

R. Kenneth Smith

Signature of Customer or his
Authorized Representative

Western Representative

Norman Alb

Operator's Time

Hrs.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company R.A. Whortan Lease & Well No. Watt #2
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 23964
Date 1-11-76 Sec. 10 Twp. 31S Range 4E County Cowley State Kansas
Test Approved by R. Kenneth Smith Western Representative Norman Allen
Formation Test No. 3 O.K. - Misrun X Interval Tested From - to 3460 Total Depth 3460
Size Main Hole 77/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth - Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 FH Anchor Length 20 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth - Ft. Clock No. 6859 Depth - Ft. Clock No. 9103
Top Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer MISRUN M
Tool Open I.F.P. From - M. to - M. - Hr. - Min. From (B) - P.S.I. To (C) - P.S.I.
Tool Closed I.C.I.P. From - M. to - M. - Hr. - Min. (D) - P.S.I.
Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) - P.S.I. Final Hydrostatic Pressure (H) - P.S.I. Maximum Temp. -

INFORMATION

BLOW MISRUN
Did Well Flow - Yes X No Recovery Total Ft. 170' drilling mud.
Reversed Out - Yes X No Mud Type chem Viscosity 55 Weight 9.8 Water Loss 10 cc. Chlorides 2400 P.P.M.
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -
Dual Packer yes Did Packers Hold? - Did Tool Plug? - Where? -
DRILLING CONTRACTOR White&Ellis Drlg. Co. Length Drill Pipe? - Ft. I.D. Drill Pipe - In. Tool Joint Size - In.
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.
Tool Joint Size - In. Length D.S.T. Tool 40 Ft.
Remarks: MISRUN leak in drilling pipe. Tool did not go to bottom stopped 12 stands off bottom. out of hole with drilling pipe at 11:45 A.M.



P. O. BOX 793
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 23965

Formation Archie Elevation 1278/10 Eff. Pay - Ft.

District Augusta Date 1-12-76 Customer Order No. -
COMPANY NAME R. A. Thornton
ADDRESS 240 Page Court Wichita, K
LEASE AND WELL NO. 240 #2 COUNTY Cowley STATE KS Sec. 10 Twp. 31S Rge. 4E
Mail Inv. To Range Oil Co No. Copies Requested 1
Co. Name Range Oil Co Address Wichita
Mail Charts To Same No. Copies Requested 5
Address Wichita

Formation Test No. 4 O.K. X Misrun - Interval Tested From 3440' to 3460' Total Depth 3460'
Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No
Top Packer Depth 3435 Ft. Size 6 3/4 Bottom Packer Depth 3440 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 20 Ft. Size 4 1/2 OD Surface Choke Size 3 1/2 In. Bottom Choke Size 3 1/2 In.

RECORDERS Depth 3453 Ft. Clock No. 9103 Depth 3456 Ft. Clock No. 6859
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Outside Inside Depth - Ft. Rec. No. - Clock No. - Outside Inside

Time Set Packer 3:28 AM
Tool Open I.F.P. From 3:30 AM to 4:00 AM Hr. 30 Min. From (B) 20 P.S.I. To (C) 18 P.S.I.
Tool Closed I.C.I.P. From 4:00 AM to 4:30 AM Hr. 30 Min. (D) 85 P.S.I.
Tool Open F.F.P. From 4:30 AM to 5:00 AM Hr. 30 Min. From (E) 3029 P.S.I. To (F) 3028 P.S.I.
Tool Closed F.C.I.P. From 5:00 AM to 5:30 AM Hr. 30 Min. (G) 115 P.S.I.
Initial Hydrostatic Pressure (A) 1790 P.S.I. Final Hydrostatic Pressure (H) 1775 P.S.I. Maximum Temp. 108

INFORMATION

BLOW 2' back to very weak 45 minutes.
Did Well Flow - Yes X No - Recovery Total Ft. 2' Drilling mud

Reversed Out - Yes X No - Mud Type Chem Viscosity 55 Weight 9.8 Water Loss 9.6 cc. Chlorides 2300 ppm
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
Dual Packers Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
DRILLING CONTRACTOR White & Ellis Drilling Co Length Drill Pipe 3210 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
Length Weight Pipe - ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 210 ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 H90 In. Length D.S.T. Tool 40 ft.

Remarks

RECEIVED
JAN 13 1976

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION

Open Hole Test	\$ 320.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 320.00

Test Approved By R. A. Thornton Western Representative Norman Alber
Signature of Customer or his Authorized Representative R. A. Thornton Operator's Time - Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12-76 Test Ticket No. 23865
 Recorder No. 1558 Capacity 4200 Location 3453 Ft.
 Clock No. 9103 Elevation 1278 M Well Temperature 108 °F

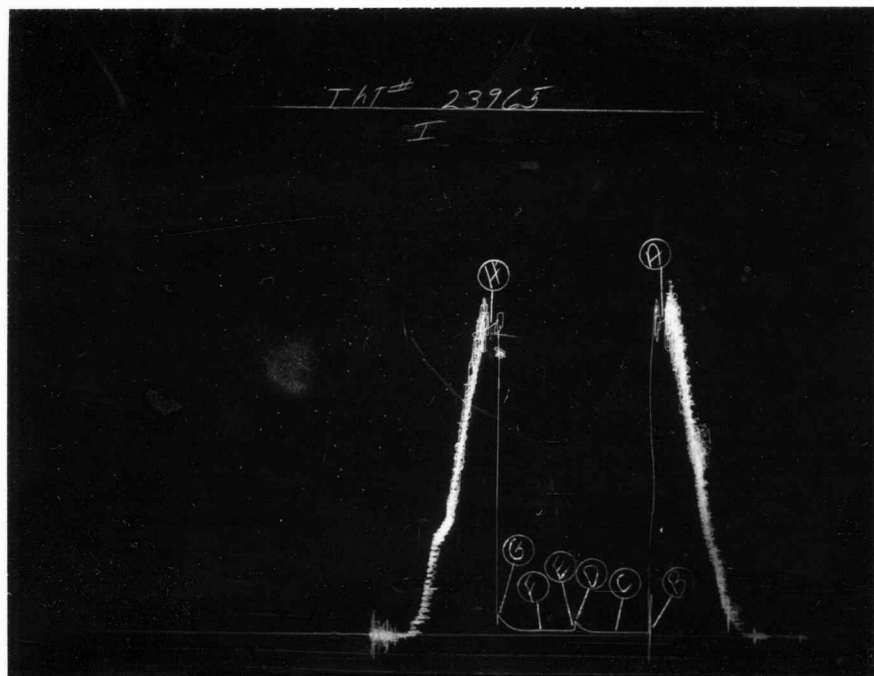
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1793</u>	P.S.I.	<u>3:28</u>	<u>17 M</u>
B First Initial Flow Pressure	<u>17</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>18</u>	P.S.I.	<u>30</u>	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>80</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>28</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
G Final Closed-in Pressure	<u>115</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1762</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>17</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>28</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>18</u>	<u>5</u>	<u>26</u>	<u>3</u>	<u>27</u>
P 3 <u>10</u>	<u>18</u>	<u>6</u>	<u>19</u>	<u>10</u>	<u>27</u>	<u>6</u>	<u>27</u>
P 4 <u>15</u>	<u>18</u>	<u>9</u>	<u>20</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>28</u>
P 5 <u>20</u>	<u>18</u>	<u>12</u>	<u>20</u>	<u>20</u>	<u>28</u>	<u>12</u>	<u>28</u>
P 6 <u>25</u>	<u>18</u>	<u>15</u>	<u>22</u>	<u>25</u>	<u>28</u>	<u>15</u>	<u>32</u>
P 7 <u>30</u>	<u>18</u>	<u>18</u>	<u>27</u>	<u>30</u>	<u>28</u>	<u>18</u>	<u>39</u>
P 8 <u>35</u>		<u>21</u>	<u>36</u>	<u>35</u>		<u>21</u>	<u>50</u>
P 9 <u>40</u>		<u>24</u>	<u>50</u>	<u>40</u>		<u>24</u>	<u>66</u>
P10 <u>45</u>		<u>27</u>	<u>80</u>	<u>45</u>		<u>27</u>	<u>89</u>
P11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	<u>115</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14		<u>39</u>				<u>39</u>	
P15		<u>42</u>				<u>42</u>	
P16		<u>45</u>				<u>45</u>	
P17		<u>48</u>				<u>48</u>	
P18		<u>51</u>				<u>51</u>	
P19		<u>54</u>				<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

TAT# 23965

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company R.A. Whortan Lease & Well No. Watt #2
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 23965
Date 1-12-76 Sec. 10 Twp. 31S Range 4E County Cowley State Kansas
Test Approved by R.A. Whortan Western Representative Norman Allen
Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 3440' to 3460' Total Depth 3460'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 3435 Ft. Size 6 3/4 Bottom Packer Depth 3440 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 FH Anchor Length 20 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3453 Ft. Clock No. 9103 Depth 3456 Ft. Clock No. 6859
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 3:28 A. M
Tool Open I.F.P. From 3:30A M. to 4:00AM. - Hr. 30 Min. From (B) 17 P.S.I. To (C) 18 P.S.I.
Tool Closed I.C.I.P. From 4:00AM. to 4:30AM. - Hr. 30 Min (D) 80 P.S.I.
Tool Open F.F.P. From 4:30A M. to 5:00A M. - Hr. 30 Min. From (E) 29 P.S.I. To (F) 28 P.S.I.
Tool Closed F.C.I.P. From 5:00AM. to 5:30AM. - Hr. 30 Min. (G) 115 P.S.I.
Initial Hydrostatic Pressure (A) 1793 P.S.I. Final Hydrostatic Pressure (H) 1762 P.S.I. Maximum Temp. 108

INFORMATION

BLOW Weak to very weak blow for 45 minutes.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 2' drilling mud.

Reversed Out - Yes ☒ No ☐ Mud Type chem Viscosity 55 Weight 9.8 Water Loss 9.6 cc. Chlorides 2300 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? - - -

DRILLING CONTRACTOR White&Ellis Drlg. Co. Length Drill Pipe? 3210 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 210 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 40 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12-76 Test Ticket No. 23965
 Recorder No. 1558 Capacity 4200 Location 3453 Ft.
 Clock No. 9103 Elevation 1278 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1793</u> P.S.I.	Open Tool	<u>3:28A</u> M	
B First Initial Flow Pressure	<u>17</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>18</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>80</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>29</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>28</u> P.S.I.			
G Final Closed-in Pressure	<u>115</u> P.S.I.			
H Final Hydrostatic Mud	<u>1762</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>17</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>28</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>18</u>	<u>5</u>	<u>26</u>	<u>3</u>	<u>27</u>
P 3 <u>10</u>	<u>18</u>	<u>6</u>	<u>19</u>	<u>10</u>	<u>27</u>	<u>6</u>	<u>27</u>
P 4 <u>15</u>	<u>18</u>	<u>9</u>	<u>20</u>	<u>15</u>	<u>27</u>	<u>9</u>	<u>28</u>
P 5 <u>20</u>	<u>18</u>	<u>12</u>	<u>20</u>	<u>20</u>	<u>28</u>	<u>12</u>	<u>28</u>
P 6 <u>25</u>	<u>18</u>	<u>15</u>	<u>22</u>	<u>25</u>	<u>28</u>	<u>15</u>	<u>32</u>
P 7 <u>30</u>	<u>18</u>	<u>18</u>	<u>27</u>	<u>30</u>	<u>28</u>	<u>18</u>	<u>39</u>
P 8		<u>21</u>	<u>36</u>			<u>21</u>	<u>50</u>
P 9		<u>24</u>	<u>50</u>			<u>24</u>	<u>66</u>
P10		<u>27</u>	<u>80</u>			<u>27</u>	<u>89</u>
P11						<u>30</u>	<u>115</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

23966

Formation Arbuckle Elevation 1278 KB Eff. Pay _____ Ft.

District Augusta Date 1-12-76 Customer Order No. _____

COMPANY NAME R. A. Whorton

ADDRESS 220 W. Douglas Wichita, KS

LEASE AND WELL NO. Watt #2 COUNTY Cowley STATE Kans Sec. 10 Twp. 31S Rge. 4E

Mail Inv. To Range Oil Co Address Wichita Kans No. Copies Requested 1

Co. Name _____ Address _____ No. Copies Requested _____

Mail Charts To Range Oil Co Address Wichita Kans No. Copies Requested 5

Address _____

Formation Test No. 5 O.K. X Misrun — Interval Tested From 3457' to 3470' Total Depth 3470'

Size Main Hole 7 7/8 Rat Hole — Conv. X B.T. — Damaged — Yes — No Conv. — B.T. X Damaged — Yes — No

Top Packer Depth 3453 Ft. Size 6 3/4 Bottom Packer Depth 3457 Ft. Size 6 3/4

Straddle — Conv. — B.T. — Damaged — Yes — No Packer Depth — Ft. Size —

Tool Size 4 1/2 20D Tool Joint Size 3 1/2 IF Anchor Length 13 Ft. Size 4 1/2 20D Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3463 Ft. Clock No. 9103 Depth 3466 Ft. Clock No. 6859

Top Make Kuster Cap. 4200 No. 1558 Inside — Bottom Make Kuster Cap. 3150 No. 1562 Inside —

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Outside _____

Depth _____ Ft. Rec. No. _____ Clock No. _____ Outside _____

Time Set Packer 3:58 PM

Tool Open I.F.P. From 4:00 PM M. to 4:30 PM M. — Hr. 30 Min. From (B) 105114 P.S.I. To (C) 590 P.S.I.

Tool Closed I.C.I.P. From 4:30 PM M. to 5:00 PM M. — Hr. 30 Min. (D) 1070 P.S.I.

Tool Open F.F.P. From 5:00 PM M. to 5:30 PM M. — Hr. 30 Min. From (E) 640 P.S.I. To (F) 880 P.S.I.

Tool Closed F.C.I.P. From 5:30 PM M. to 6:30 PM M. — Hr. 60 Min. (G) 1070 P.S.I.

Initial Hydrostatic Pressure (A) 1750 P.S.I. Final Hydrostatic Pressure (H) 1740 P.S.I. Maximum Temp. 114

BLOW Strong throughout INFORMATION

Did Well Flow - Yes X No — Recovery Total Ft. 370 Free oil (29 Gravity Corrected) 1180 Slightly oil cut saltwater 180 Saltwater 1180 See sheet attached

Reversed Out - Yes X No — Mud Type Chem Viscosity 54 Weight 9.7 Water Loss 10 cc. Chlorides 3400 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint — Jars: Size — In. Make — Ser. No. —

Dual Packers yes Did Packers Hold? yes Did Tool Plug? no Where? —

DRILLING CONTRACTOR Whitell & Ellis Drilling Co. Length Drill Pipe 3227 ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 14 In.

Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 210 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/4 90 In. Length D.S.T. Tool 33 ft.

Remarks Saltwater checked 24,000 PPM chlorides

.6 Resistivity @ 58°F

INVOICE SECTION

Open Hole Test \$ 320.00

Straddle Test \$ —

Jars \$ —

Selective Zone \$ —

Safety Joint \$ —

Misrun \$ —

Evaluation \$ —

Packer \$ —

Circ. Sub. \$ —

Standby charge \$ 120.00

Total \$ 440.00

Test Approved By Charles Bronstetter Western Representative Norman Alber

Signature of Customer or his Authorized Representative _____ Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12-76 Test Ticket No. 23966
 Recorder No. 1558 Capacity 4200 Location 3463 Ft.
 Clock No. 9103 Elevation 12784.3 Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1253</u> P.S.I.	<u>8:58</u> P M	
B First Initial Flow Pressure	<u>114</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>598</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1069</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>638</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>888</u> P.S.I.		
G Final Closed-in Pressure	<u>1075</u> P.S.I.		
H Final Hydrostatic Mud	<u>1740</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
P 1 <u>0</u>	<u>114</u>	<u>0</u>	<u>598</u>	<u>0</u>	<u>638</u>	<u>0</u>	<u>888</u>
P 2 <u>5</u>	<u>207</u>	<u>3</u>	<u>1023</u>	<u>5</u>	<u>660</u>	<u>3</u>	<u>1042</u>
P 3 <u>10</u>	<u>302</u>	<u>6</u>	<u>1039</u>	<u>10</u>	<u>717</u>	<u>6</u>	<u>1051</u>
P 4 <u>15</u>	<u>390</u>	<u>9</u>	<u>1049</u>	<u>15</u>	<u>770</u>	<u>9</u>	<u>1056</u>
P 5 <u>20</u>	<u>468</u>	<u>12</u>	<u>1054</u>	<u>20</u>	<u>817</u>	<u>12</u>	<u>1061</u>
P 6 <u>25</u>	<u>544</u>	<u>15</u>	<u>1059</u>	<u>25</u>	<u>859</u>	<u>15</u>	<u>1064</u>
P 7 <u>30</u>	<u>598</u>	<u>18</u>	<u>1062</u>	<u>30</u>	<u>888</u>	<u>18</u>	<u>1066</u>
P 8 <u>35</u>		<u>21</u>	<u>1065</u>	<u>35</u>		<u>21</u>	<u>1068</u>
P 9 <u>40</u>		<u>24</u>	<u>1067</u>	<u>40</u>		<u>24</u>	<u>1069</u>
P 10 <u>45</u>		<u>27</u>	<u>1068</u>	<u>45</u>		<u>27</u>	<u>1070</u>
P 11 <u>50</u>		<u>30</u>	<u>1069</u>	<u>50</u>		<u>30</u>	<u>1071</u>
P 12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>1072</u>
P 13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>1073</u>
P 14		<u>39</u>				<u>39</u>	<u>1074</u>
P 15		<u>42</u>				<u>42</u>	<u>1074</u>
P 16		<u>45</u>				<u>45</u>	<u>1074</u>
P 17		<u>48</u>				<u>48</u>	<u>1074</u>
P 18		<u>51</u>				<u>51</u>	<u>1074</u>
P 19		<u>54</u>				<u>54</u>	<u>1075</u>
P 20		<u>57</u>				<u>57</u>	<u>1075</u>
		<u>60</u>				<u>60</u>	<u>1075</u>

TIT# 23966

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1558





Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company R.A. Whortan Lease & Well No. Watt #2
Elevation 1278 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 23966
Date 1-12-76 Sec. 10 Twp. 31S Range 4E County Cowley State Kansas
Test Approved by Gerald D. Honas Western Representative Charles Branstetter
Formation Test No. 5 O.K. ☒ Misrun ☐ Interval Tested From 3457' to 3470' Total Depth 3470'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Top Packer Depth 3453 Ft. Size 6 3/4 Bottom Packer Depth 3457 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 13 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3463 Ft. Clock No. 9103 Depth 3466 Ft. Clock No. 6859
Top Make Kuster Cap. 4200 No. 1588 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Rec. No. - Clock No. - Inside Outside
Time Set Packer 3:58 P. M
Tool Open I.F.P. From 4:00P M. to 4:30P M. - Hr. 30 Min. From (B) 114 P.S.I. To (C) 598 P.S.I.
Tool Closed I.C.I.P. From 4:30P M. to 5:00P M. - Hr. 30 Min (D) 1069 P.S.I.
Tool Open F.F.P. From 5:00P M. to 5:30P M. - Hr. 30 Min. From (E) 638 P.S.I. To (F) 888 P.S.I.
Tool Closed F.C.I.P. From 5:30P M. to 6:30P M. - Hr. 60 Min. (G) 1075 P.S.I.
Initial Hydrostatic Pressure (A) 1753 P.S.I. Final Hydrostatic Pressure (H) 1740 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 370' free oil (29 degrees gravity corrected)
150' slightly oil cut salt water. 180' salt water with scum of oil throughout.
1180' salt water.

Reversed Out ☐ Yes ☒ No Mud Type chem Viscosity 54 Weight 9.7 Water Loss 10. cc. Chlorides 3400 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? no Where? - - -

DRILLING CONTRACTOR White&Ellis Drlg. Co. Length Drill Pipe? 3227 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 210 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 33 Ft.

Remarks: Started out of hole at 6:30 P.M. found fluid at 7:15 P.M. pulled 7 stands. As instructed by operators personnel we waited until 7:30 A.M. 1-13-76 to pull remainder of test fluid. See above for recovery.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-12-76 Test Ticket No. 23966
 Recorder No. 1558 Capacity 4200 Location 3463 Ft.
 Clock No. 9103 Elevation 1278 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1753 P.S.I.	Open Tool	3:58 P. M.	
B First Initial Flow Pressure	114 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	598 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1069 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	638 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	888 P.S.I.			
G Final Closed-in Pressure	1075 P.S.I.			
H Final Hydrostatic Mud	1740 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>114</u>	<u>0</u>	<u>598</u>	<u>0</u>	<u>638</u>	<u>0</u>	<u>888</u>
P 2 <u>5</u>	<u>207</u>	<u>3</u>	<u>1023</u>	<u>5</u>	<u>660</u>	<u>3</u>	<u>1042</u>
P 3 <u>10</u>	<u>302</u>	<u>6</u>	<u>1039</u>	<u>10</u>	<u>717</u>	<u>6</u>	<u>1051</u>
P 4 <u>15</u>	<u>390</u>	<u>9</u>	<u>1049</u>	<u>15</u>	<u>770</u>	<u>9</u>	<u>1056</u>
P 5 <u>20</u>	<u>468</u>	<u>12</u>	<u>1054</u>	<u>20</u>	<u>817</u>	<u>12</u>	<u>1061</u>
P 6 <u>25</u>	<u>544</u>	<u>15</u>	<u>1059</u>	<u>25</u>	<u>859</u>	<u>15</u>	<u>1064</u>
P 7 <u>30</u>	<u>598</u>	<u>18</u>	<u>1062</u>	<u>30</u>	<u>888</u>	<u>18</u>	<u>1066</u>
P 8		<u>21</u>	<u>1065</u>			<u>21</u>	<u>1068</u>
P 9		<u>24</u>	<u>1067</u>			<u>24</u>	<u>1069</u>
P10		<u>27</u>	<u>1068</u>			<u>27</u>	<u>1070</u>
P11		<u>30</u>	<u>1069</u>			<u>30</u>	<u>1071</u>
P12						<u>33</u>	<u>1072</u>
P13						<u>36</u>	<u>1073</u>
P14						<u>39</u>	<u>1074</u>
P15						<u>42</u>	<u>1074</u>
P16						<u>45</u>	<u>1074</u>
P17						<u>48</u>	<u>1074</u>
P18						<u>51</u>	<u>1074</u>
P19						<u>54</u>	<u>1075</u>
P20						<u>57</u>	<u>1075</u>
						<u>60</u>	<u>1075</u>