



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 8168

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1367 Kb Formation Magnolia Eff. Pay _____ Ft.

District Augusta Date 5-18-85 Customer Order No. _____
COMPANY NAME Barge Oil Co Inc. 240 Page Court
ADDRESS 220 West Douglas Wichita Ks
LEASE AND WELL NO. Johnson C #1 COUNTY Saline STATE Ks Sec. 31 Twp. 16 Rge. 3W
Mail Invoice To #1 "C" JOHNSON No. Copies Requested 1
Co. Name _____ Address _____
Mail Charts To _____ No. Copies Requested 5
Address _____

Formation Test No. 1 Interval Tested From 3401 ft. to 3408 ft. Total Depth 3408 ft.
Packer Depth 3401 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3396 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) _____ ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) _____ ft. Recorder Number 2605 Cap. 4150
Below Saddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor Reg #1 Drill Collar Length 180 I. D. 2.25 in.
Mud Type Chem Viscosity _____ Weight Pipe Length _____ I. D. _____ in.
Weight _____ Water Loss _____ cc. Drill Pipe Length 3184 3201 I. D. 3.8 in.
Chlorides _____ P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make 120 Serial Number _____ Anchor Length 7 ft. Size 5 1/2 in.
Did Well Flow? _____ Reversed Out yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 14 in.

Blow: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: Miss Run Hole in drill pipe

Time On Location 7:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location _____ A.M.
P.M. P.M. P.M.
Time Set Packer(s) _____ A.M. Time Started Off Bottom _____ A.M. Maximum Temperature _____
P.M. P.M. P.M.
Initial Hydrostatic Pressure _____ (A) _____ P.S.I.
Initial Flow Period _____ Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____ Minutes (D) _____ P.S.I.
Final Flow Period _____ Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____ Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure _____ (H) _____ P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Rhast Area
Signature of Customer or his authorized representative

Western Representative Henny Kurbal

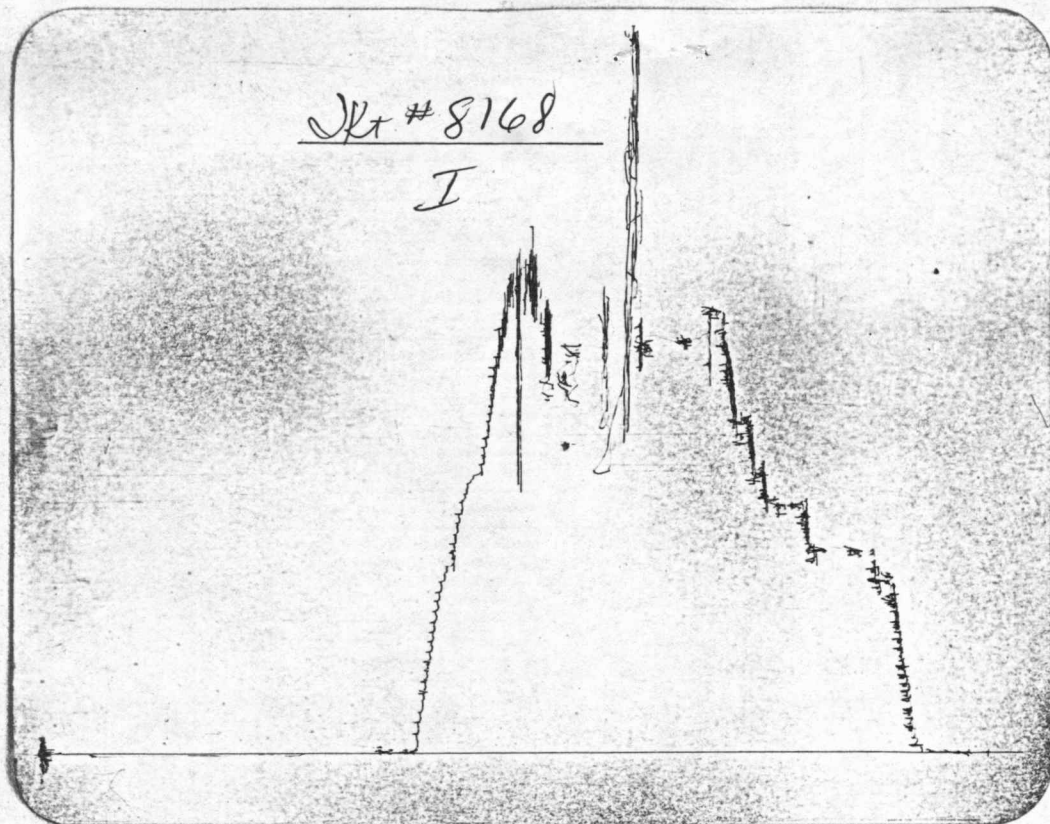
FIELD INVOICE

Open Hole Test \$ _____
~~Misrun~~ \$ 400
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
~~Circ. Sub.~~ \$ 25
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____

1127

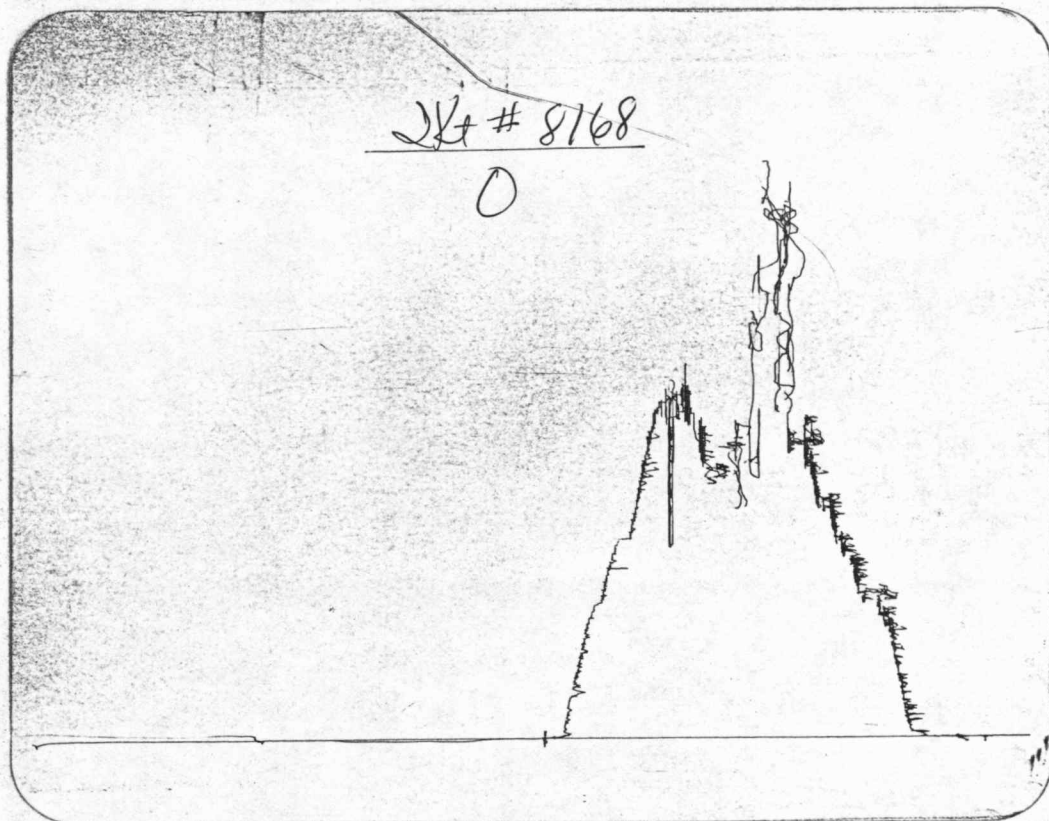
JKt # 8168

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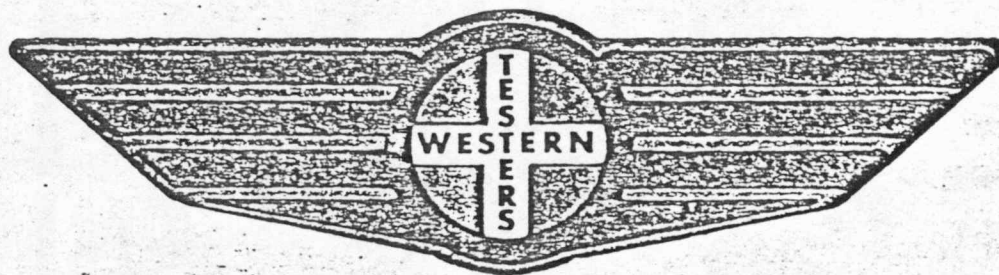


JKt # 8168

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FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease & Well No. #1 "C" JOHNSON Sec. 21 Twp. 10S Rge. 3W Test No. 1 Date 1/20/66

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/18/85 TICKET #8168
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "C" JOHNSON
WELL: 1 TEST: 1 GEOLOGIST: OLSEN
ELEVATION (KB): 1367 FORMATION: MAQUOKETA
SECTION: 31 TOWNSHIP: 16S
RANGE: 3W COUNTY: SALINE STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 3401 FT TO: 3408 FT TOTAL DEPTH: 3408 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3401 FT SIZE: 6 3/4 IN PACKER DEPTH: 3396 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY:
WEIGHT: WATER LOSS (CC):
CHLORIDES (P.P.M.):
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT? YES
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3201 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 7 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW:

RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: MISRUN. HOLE IN DRILL PIPE.
NO PRESSURES AVAILABLE.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 0 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 0 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 8169

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1367 Kb

Formation Maquaka

Eff. Pay Ft.

COMPANY NAME Range Oil Co Inc District Augusta Date 5-18-85 Customer Order No. 240 Page Count

ADDRESS 220 West Douglas Wichita Ks

LEASE AND WELL NO. Johnson C-1 COUNTY Saline STATE Ks Sec. 31 Twp. 16 Rge. 3W

Mail Invoice To Same #1 "C" JOHNSON No. Copies Requested 1

Co. Name Address

Mail Charts To Same No. Copies Requested 5

Address

Formation Test No. 2 Interval Tested From 3401 ft. to 3408 ft. Total Depth 3408 ft.

Packer Depth 3401 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3396 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) ft. Recorder Number 34114 Cap. 3000

Bottom Recorder Depth (Outside) ft. Recorder Number 2605 Cap. 4150

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Reg #1 Drill Collar Length 180 I. D. 2.25 in.

Mud Type Chem Viscosity 47 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 11.6 cc. Drill Pipe Length 3184 3201 I. D. 3.8 in.

Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number Anchor Length 7 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 x 1 in.

Blow: Weak blow died 20 min first flow, surge as tool opened second flow no blow

Recovered ft. of Leak in mandril on by tool

Recovered ft. of

Recovered ft. of NO. Charge

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location Stalby A.M. Time Pick Up Tool A.M. Time Off Location A.M.

Time Set Packer(s) P.M. Time Started Off Bottom P.M. Maximum Temperature P.M.

Initial Hydrostatic Pressure (A) P.S.I.

Initial Flow Period Minutes 30 (B) P.S.I. to (C) P.S.I.

Initial Closed In Period Minutes 30 (D) P.S.I.

Final Flow Period Minutes 30 (E) P.S.I. to (F) P.S.I.

Final Closed In Period Minutes 60 (G) P.S.I.

Final Hydrostatic Pressure (H) P.S.I.

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Robert Chen Signature of Customer or his authorized representative

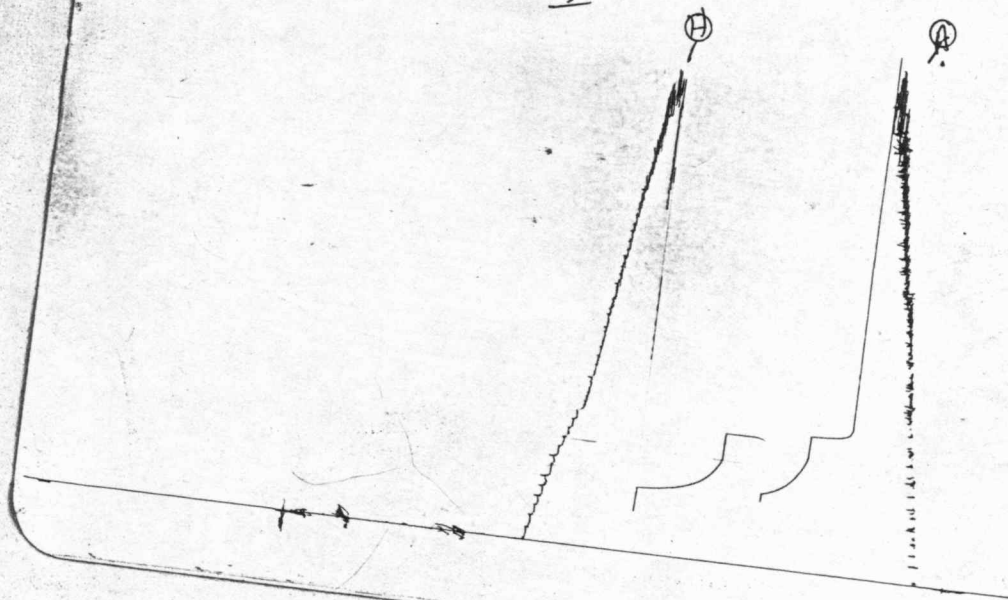
Western Representative Henry Kurland

FIELD INVOICE

Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

SK #8169

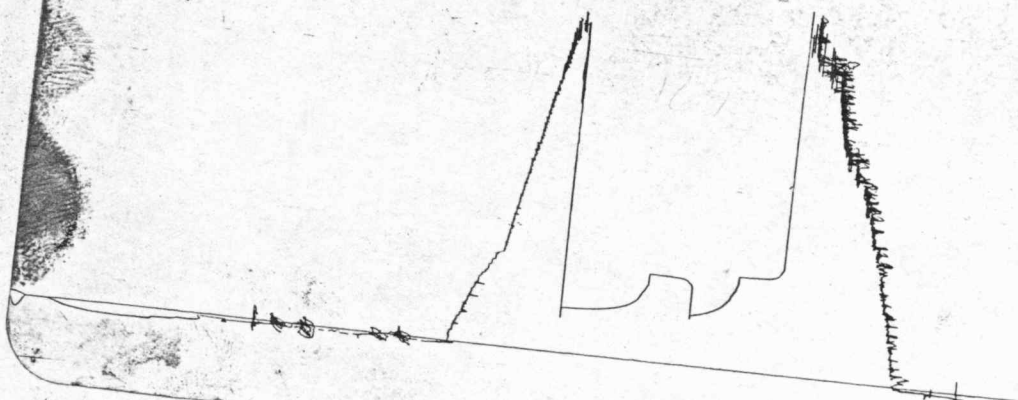
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SK #8169

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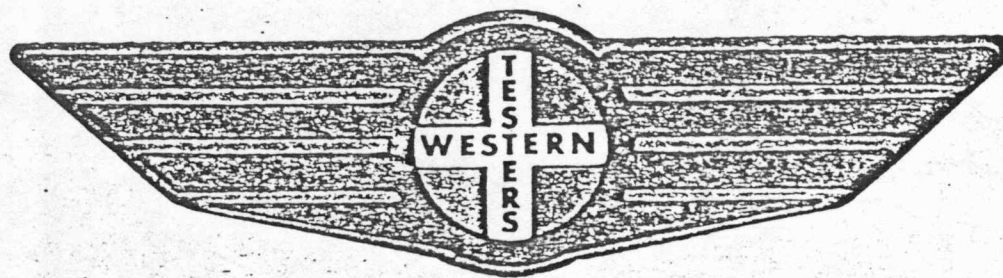


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FORMATION

TEST

REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease & Well No. #1 JOHNSON Sec. 21 Twp. 10S Rge. 3W Test No. 1 Date 1/1/55

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/18/85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1367 FORMATION: MAQUOKETA
SECTION: 31 TOWNSHIP: 16S
RANGE: 3W COUNTY: SALINE STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 3401 FT TO: 3408 FT TOTAL DEPTH: 3408 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3401 FT SIZE: 6 3/4 IN Packer DEPTH: 3396 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.5 WATER LOSS (CC): 11.6
CHLORIDES (P.P.M.): 1700
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3201 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 7 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
DIED IN 20 MINUTES. FINAL FLOW
PERIOD SURGE AS TOOL OPENED; NO BLOW.

RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: MISRUN. LEAK IN MANDREL.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1851 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1832 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 8170

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 1367 Kb Formation Maguakita Eff. Pay _____ Ft.

WICHITA, KANSAS 67201

COMPANY NAME Rango Oil Co. Inc. District Augusta Date 5-18-85 Customer Order No. _____

ADDRESS 220 West Douglas Wichita, KS

LEASE AND WELL NO. Johnson C-1 COUNTY Saline STATE Ka Sec. 31 Twp. 16 Rge. 3W

Mail Invoice To Same #1 "C" JOHNSON No. Copies Requested 1

Co. Name _____ Address _____ No. Copies Requested 5

Mail Charts To Same Address _____

Formation Test No. 3 Interval Tested From 3401 ft. to 3408 ft. Total Depth 3408 ft.

Packer Depth 3401 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3396 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) _____ ft. Recorder Number 2605 Cap. 4150

Below Saddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Rig #1 Drill Collar Length 180 I. D. 2.25 in.

Mud Type Chem Viscosity 47 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 12.7 cc. Drill Pipe Length 3201 I. D. 3.8 in.

Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make ND Serial Number _____ Anchor Length 7 ft. Size 3 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x H in.

Blow: Weak blow throughout first flow, Weak blow second flow

Recovered 3 ft. of free oil

Recovered 60 ft. of muddy salt water

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location Stlby A.M. _____ P.M. _____ Time Pick Up Tool _____ A.M. _____ P.M. _____ Time Off Location _____ A.M. _____ P.M. _____

Time Set Packer(s) _____ A.M. _____ P.M. _____ Time Started Off Bottom _____ A.M. _____ P.M. _____ Maximum Temperature 109

Initial Hydrostatic Pressure _____ (A) 1873 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 15 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 204 P.S.I.

Final Flow Period _____ Minutes 60 (E) 45 P.S.I. to (F) 53 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 212 P.S.I.

Final Hydrostatic Pressure _____ (H) 1873 P.S.I.

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

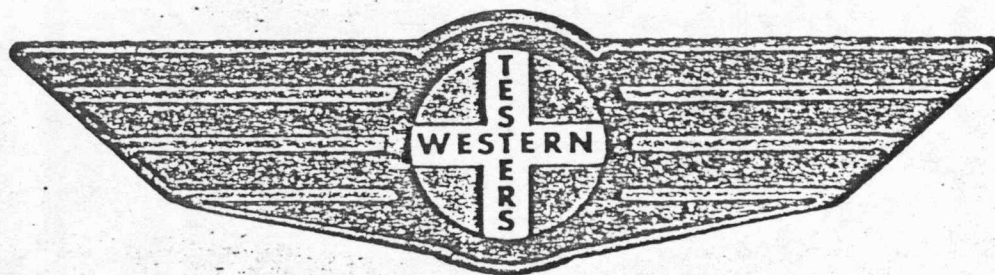
Test Approved By Robert Olsen
Signature of Customer or his authorized representative

Western Representative Henry Kendall

FIELD INVOICE

Open Hole Test \$ 550
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ 75
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ _____

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease & Well No. #1 "C" JOHNSON Sec. 31 Twp. 16S Rge. 3W Test No. 3 Date 5/18/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/18/85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 3
ELEVATION (KB): 1367 FORMATION: MAQUOKETA
SECTION: 31 TOWNSHIP: 16S
RANGE: 3W COUNTY: SALINE STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 3401 FT TO: 3408 FT TOTAL DEPTH: 3408 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3401 FT SIZE: 6 3/4 IN Packer DEPTH: 3396 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.5 WATER LOSS (CC): 12.7
CHLORIDES (P.P.M.): 1700
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3201 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 7 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 3	FT	OF: FREE OIL.
RECOVERED: 60	FT	OF: MUDDY SALT WATER.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

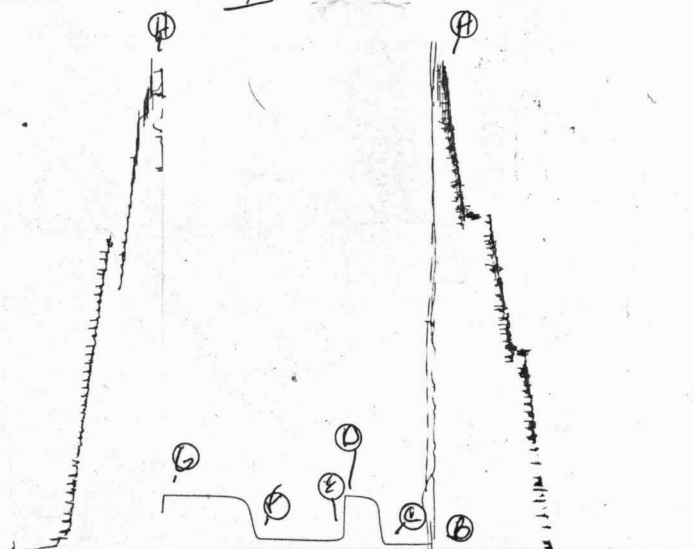
REMARKS:

TIME SET PACKER(S):		TIME STARTED OFF BOTTOM:	
WELL TEMPERATURE: 109 °F			
INITIAL HYDROSTATIC PRESSURE:		(A) 1872	PSI
INITIAL FLOW PERIOD	MIN: 35	(B) 23	PSI TO (C) 24 PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 211	PSI
FINAL FLOW PERIOD	MIN: 60	(E) 39	PSI TO (F) 45 PSI
FINAL CLOSED IN PERIOD	MIN: 69	(G) 214	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1872	PSI

JK # 8170

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DST # 3
2605

JK # 8170

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