



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 8090

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

Elevation 1409 KB Formation Miss Eff. Pay Ft.

WICHITA, KANSAS 67201

District Augusta Date 4-1-85 Customer Order No.

COMPANY NAME RANGE OIL CO INC.

ADDRESS 240 Page Ct. 220 W Douglas Wichita, Ks 67202

LEASE AND WELL NO. ROBY "B" #1 COUNTY ELK STATE KS Sec. 19 Twp. 28N Rge. 9E

Mail Invoice To Co. Name Address SAME No. Copies Requested 1

Mail Charts To Address SAME No. Copies Requested 5

Formation Test No. 1 Interval Tested From 2585 ft. to 2597 ft. Total Depth 2597 ft.

Packer Depth 3580 ft. Size 6.25 in. Packer Depth ft. Size in.

Packer Depth 2585 ft. Size 6.75 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2588 ft. Recorder Number 3351 Cap. 4000

Bottom Recorder Depth (Outside) 2592 ft. Recorder Number 5666 Cap. 3950

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range #1 Drill Collar Length 147 I. D. 2.25 in.

Mud Type Chem Viscosity 44 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss 11.2 cc. Drill Pipe Length 2413 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 25 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 12 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size .75 in. Bottom Choke Size .75 in.

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

Blow: Weak thru out initial (to 3")
Fair thru out Final (to 4")

Recovered 300 ft. of Muddy Salt water with oil spots on top

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 26000 P.P.M. Sample Jars used 2 Remarks: Water has strong Sulphur odor

Time On Location 4:30 A.M. Time Pick Up Tool 5:00 A.M. Time Off Location A.M.

Time Set Packer(s) 6:00 A.M. Time Started Off Bottom 9:00 A.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 1370 P.S.I.

Initial Flow Period 30 Minutes (B) 40 P.S.I. to (C) 90 P.S.I.

Initial Closed In Period 30 Minutes (D) 800 P.S.I.

Final Flow Period 60 Minutes (E) 110 P.S.I. to (F) 140 P.S.I.

Final Closed In Period 60 Minutes (G) 800 P.S.I.

Final Hydrostatic Pressure (H) 1350 P.S.I. # 3351

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 Robert Olsen
Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

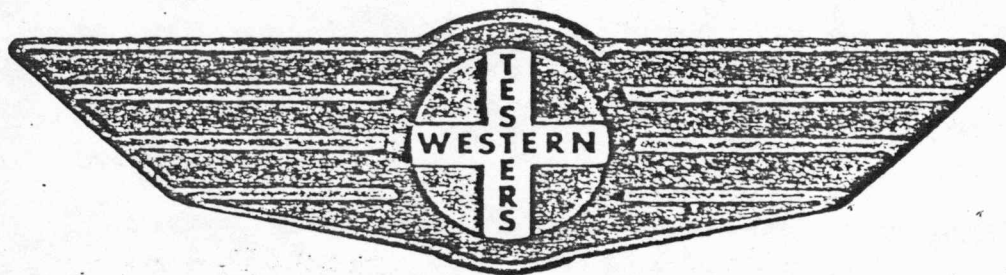
Date: 4-1-85 Test Ticket No. 8090
 Recorder No. 3351 Capacity 4000 Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1366</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>32</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	Mins.
C First Final Flow Pressure	<u>75</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	Mins.
D Initial Closed-in Pressure	<u>786</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	Mins.
F Second Final Flow Pressure	<u>141</u> P.S.I.			
G Final Closed-in Pressure	<u>799</u> P.S.I.			
H Final Hydrostatic Mud	<u>1340</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>21</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 0	<u>32</u>	0	<u>75</u>	0	<u>98</u>	0	<u>141</u>
P 2 5	<u>32</u>	3	<u>474</u>	5	<u>98</u>	3	<u>636</u>
P 3 10	<u>35</u>	6	<u>712</u>	10	<u>99</u>	6	<u>726</u>
P 4 15	<u>44</u>	9	<u>745</u>	15	<u>101</u>	9	<u>750</u>
P 5 20	<u>57</u>	12	<u>763</u>	20	<u>106</u>	12	<u>765</u>
P 6 25	<u>68</u>	15	<u>771</u>	25	<u>111</u>	15	<u>774</u>
P 7 30	<u>75</u>	18	<u>777</u>	30	<u>114</u>	18	<u>780</u>
P 8 35		21	<u>781</u>	35	<u>115</u>	21	<u>785</u>
P 9 40		24	<u>783</u>	40	<u>118</u>	24	<u>787</u>
P10 45		27	<u>784</u>	45	<u>123</u>	27	<u>788</u>
P11 50		30	<u>785</u>	50	<u>130</u>	30	<u>789</u>
P12 55		33	<u>786</u>	55	<u>136</u>	33	<u>790</u>
P13 60		36		60	<u>141</u>	36	<u>791</u>
P14 65		39		65		39	<u>792</u>
P15 70		42		70		42	<u>793</u>
P16 75		45		75		45	<u>794</u>
P17 80		48		80		48	<u>795</u>
P18 85		51		85		51	<u>796</u>
P19 90		54		90		54	<u>797</u>
P20 95		57		95		57	<u>798</u>
100		60		100		60	<u>799</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company KANGE OIL COMPANY, INC. Lease & Well No. #1 B. KUBI

Sec. 19 Twp. 26S Rge. 9E Test No. 1 Date 4/1/85

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4/1/85 TICKET #8090
CUSTOMER: RANGE OIL COMPANY INC. LEASE: ROBY 'B'
WELL: 1 TEST: 1 GEOLOGIST: OLSEN
ELEVATION (KB): 1409 FORMATION: MISSISSIPPI
SECTION: 19 TOWNSHIP: 28S
RANGE: 9E COUNTY: ELK STATE: KS
GAUGE SN #3351 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 2585 FT TO: 2597 FT TOTAL DEPTH: 2597 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2580 FT SIZE: 6.75 IN PACKER DEPTH: 2585 FT SIZE: 6.75 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.6 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1400
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 147 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2413 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5.5 OD IN
ANCHOR LENGTH: 12 FT SIZE: 5.5 OD IN
SURFACE CHOKE SIZE: .75 IN BOTTOM CHOKE SIZE: .75 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
FINAL FLOW PERIOD FAIR BLOW.

RECOVERED: 300 FT OF: MUDDY SALT WATER W/OIL SPOTS ON TOP
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

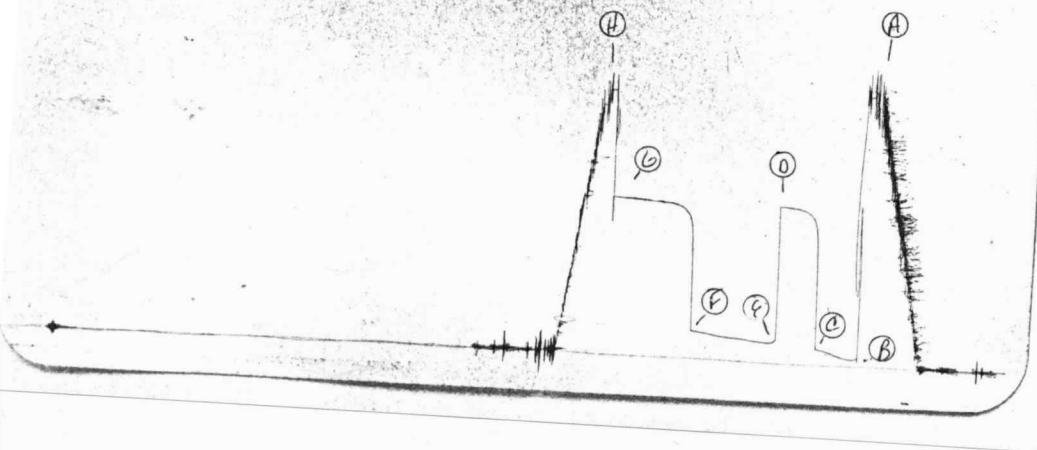
REMARKS: CHLORIDES 26000 P.P.M.
WATER HAS STRONG SULPHUR ODOR

TIME SET PACKER(S): 6:00 AM TIME STARTED OFF BOTTOM: 9:00 AM
WELL TEMPERATURE: 114 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1366 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 32 PSI TO (C) 75 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 786 PSI
FINAL FLOW PERIOD MIN: 60 (E) 98 PSI TO (F) 141 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 799 PSI
FINAL HYDROSTATIC PRESSURE (H) 1340 PSI

8090

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