



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 19145

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1318 Kb Formation KC Eff. Pay Ft.

District Augusta Date 9-2-8283 Customer Order No.

COMPANY NAME ROCK RANGE OIL COMPANY INC

ADDRESS 240 Page Court 220 W Douglas S

LEASE AND WELL NO. Kennedy #1 COUNTY Cowley STATE KS Sec 34 Twp 30S Rge 5E

Mail Invoice To Same #1 KENNEDY No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 2257 ft. to 2271 ft. Total Depth 2271 ft.

Packer Depth 2257 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2252 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2258 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2263 ft. Recorder Number 1049 Cap. 4250

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RDC H 2 Drill Collar Length 120 I. D. 2.5 in.

Mud Type Chem Viscosity 42 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 1/4 cc. Drill Pipe Length 2117 I. D. 3.8 in.

Chlorides 1300 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 14 ft. Size 5 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 1 in.

Blow: Weak blow 5 min surge as tool opened second flow

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Miss Run Plugged Tool

Shed tool 6'

Time On Location 6:30 A.M. Time Pick Up Tool 9:00 A.M. Time Off Location A.M.

Time Set Packer(s) 8:15 P.M. Time Started Off Bottom 10:15 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 1033 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 30 (G) P.S.I.

Final Hydrostatic Pressure (H) 1020 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 Tim J. Lauer Signature of Customer or his authorized representative

Western Representative Kanny Kubendall

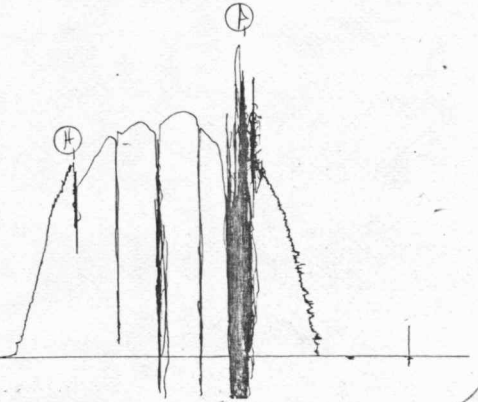
FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL. Prices are listed in dollars, with some handwritten values like 400.00.

TKT # 19145

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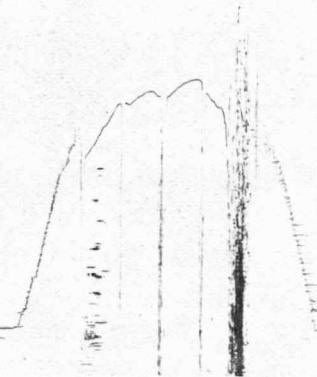
DST#1
2605



TKT # 19145

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1044
DST#1



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/2/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1318 FORMATION: KANSAS CITY
SECTION: 34 TOWNSHIP: 30S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2257 FT TO: 2271 FT TOTAL DEPTH: 2271 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2257 FT SIZE: 6 3/4 IN PACKER DEPTH: 2252 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRILLING CO.
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.2 WATER LOSS (CC):
CHLORIDES (P.P.M.): 1300
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.5 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2117 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 14 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: WEAK BLOW FOR 5 MINUTES
SURGE AS TOOL OPENED SECOND FLOW

RECOVERED: FT OF:
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RECOVERED: FT OF:

REMARKS: MISRUN - PLUGGED TOOL

TIME SET PACKER(S): 8:15 A.M. TIME STARTED OFF BOTTOM: 10:15 A.M.
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1033 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) 1020 PSI

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/4/83
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1318 FORMATION: BARTLESVILLE
SECTION: 34 TOWNSHIP: 30S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2877 FT TO: 2904 FT TOTAL DEPTH: 2904 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2877 FT SIZE: 6 3/4 IN PAKER DEPTH: 2873 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRILLING #2
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.2 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1400
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2737 FT I.D.: IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 27 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: VERY WEAK DIED IN 10 MINUTES.

RECOVERED: 5 FT OF: MUD
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REMARKS:

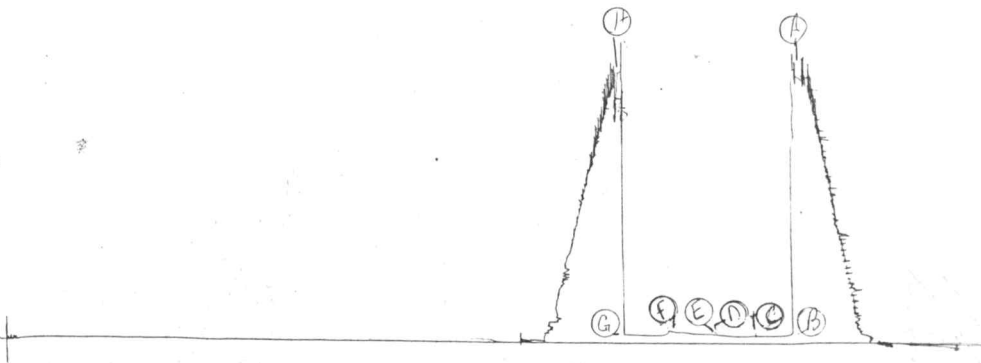
TIME SET PACKER(S): 5:05 A.M. TIME STARTED OFF BOTTOM: 7:05 A.M.
WELL TEMPERATURE: 106 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1464 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 33 PSI TO (C) 33 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 44 PSI
FINAL FLOW PERIOD MIN: 30 (E) 44 PSI TO (F) 59 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 40 PSI
FINAL HYDROSTATIC PRESSURE (H) 1454 PSI

TKT # 19146

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2603

DST # 2



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/4/83 TICKET #2335
CUSTOMER: RANGE OIL COMPANY INC. LEASE: KENNEDY
WELL: 1 TEST: 3 GEOLOGIST: T. LAUER
ELEVATION (KB): 1318 FORMATION: MISSISSIPPI
SECTION: 34 TOWNSHIP: 30S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 2948 FT TO: 2988 FT TOTAL DEPTH: 2988 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2943 FT SIZE: 6 3/4 IN PACKER DEPTH: 2948 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE #2
MUD TYPE: CHEMICAL VISCOSITY: 45
WEIGHT: 9.6 WATER LOSS (CC): 11.0
CHLORIDES (P.P.M.): 1400
JARS - MAKE: 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: 2770 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 40 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: STRONG THRU OUT.

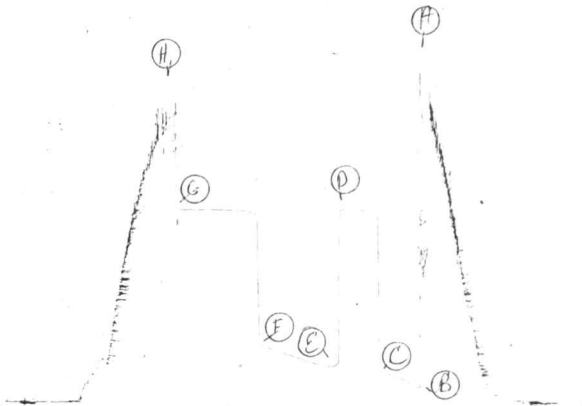
RECOVERED: 750 FT OF: MUDDY WATER
RECOVERED: FT OF: CHLORIDES 100000 P.P.M.
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 9:45 P.M. TIME STARTED OFF BOTTOM: 12:45 A.M.
WELL TEMPERATURE: 119 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1502 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 84 PSI TO (C) 163 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1004 PSI
FINAL FLOW PERIOD MIN: 60 (E) 210 PSI TO (F) 296 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1000 PSI
FINAL HYDROSTATIC PRESSURE (H) 1486 PSI

TK7 # 2335

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2335
D51#3

13265