



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4053

UNIT NO. 13

DISTRICT

DATE 08/30/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

1 GARVIN

FARM

ELK

KS

SECTION

35

TWP.

31S

RANGE

10E

DRILL STEM TEST FROM 871' TO 898' TOTAL DEPTH 898' (TEST 1) \$ 550.00

550.00

YOUR QUANTITY DISCOUNT ON THIS TEST 55.00

TOTAL \$ 495.00

DISCOUNT

\$ 4.95

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

4053

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

Call = OK
No 4053

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

Elevation 1114 KB Formation HANSING Eff. Pay Ft.

R040 District Augusta Date 8-30-84 Customer Order No.

COMPANY NAME Range Oil Co Inc

ADDRESS 240 Page Ct 220 W Douglas Wichita, Ks 67202

LEASE AND WELL NO. GARVIN #1 COUNTY ELK STATE KS Sec 35 Twp 31S Rge 10E

Mail Invoice To #1 GARVIN Co. Name Same Address No. Copies Requested 1

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 871 ft. to 898 ft. Total Depth 898 ft.

Packer Depth 866 ft. Size 6.75 in. Packer Depth - ft. Size in.

Packer Depth 871 ft. Size 6.75 in. Packer Depth - ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 899 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 894 ft. Recorder Number 13265 Cap. 3975

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range 2 Drill Collar Length 176 I. D. 2.25 in.

Mud Type Chem Viscosity 39 Weight Pipe Length I. D. in.

Weight 9.6 Water Loss - cc. Drill Pipe Length 675 I. D. 3.8 in.

Chlorides - P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 27 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1.75 in. Bottom Choke Size 1.75 in.

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

Blow: Fair to Very weak 16 min

Recovered 30 ft. of Drill Mud

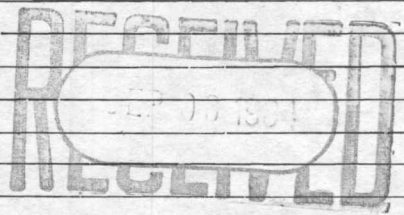
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:



Time On Location 5:45 P.M. Time Pick Up Tool 6:00 P.M. Time Off Location 11:00 P.M.

Time Set Packer(s) 7:00 P.M. Time Started Off Bottom 9:30 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 410 P.S.I.

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

Initial Closed In Period Minutes 30 (D) 40 P.S.I.

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

Final Closed In Period Minutes 60 (G) 40 P.S.I.

Final Hydrostatic Pressure (H) 410 P.S.I. #13265

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 [Signature] Signature of Customer or his authorized representative

Western Representative Allen Edgington OS25

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test (\$350), 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 8-30-84

Test Ticket No. 4053

Recorder No. 13265 Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>433</u> P.S.I.	Open Tool		
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>34</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.			
G Final Closed-in Pressure	30 <u>39</u> P.S.I.			
H Final Hydrostatic Mud	<u>421</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

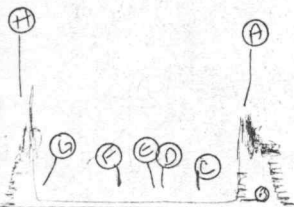
Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>30</u>	0	<u>30</u>	0	<u>30</u>	0	<u>30</u>
P 2 5		3	<u>30</u>	5		3	
P 3 10		6	<u>30</u>	10		6	
P 4 15		9	<u>31</u>	15		9	
P 5 20		12	<u>31</u>	20		12	
P 6 25		15	<u>32</u>	25		15	
P 7 30	<u>30</u>	18	<u>32</u>	30	<u>30</u>	18	
P 8 35		21	<u>33</u>	35		21	<u>30</u>
P 9 40		24	<u>33</u>	40		24	<u>31</u>
P 10 45		27	<u>34</u>	45		27	<u>31</u>
P 11 50		30		50		30	<u>32</u>
P 12 55		33		55		33	<u>32</u>
P 13 60		36		60		36	<u>33</u>
P 14		39		65		39	<u>33</u>
P 15		42		70		42	<u>34</u>
P 16		45		75		45	<u>35</u>
P 17		48		80		48	<u>36</u>
P 18		51		85		51	<u>37</u>
P 19		54		90		54	<u>38</u>
P 20		57				57	38 <u>39</u>
		60				60	

tick# 4053

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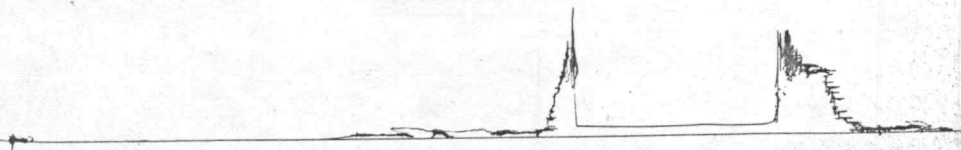


TKK# 4053

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4053

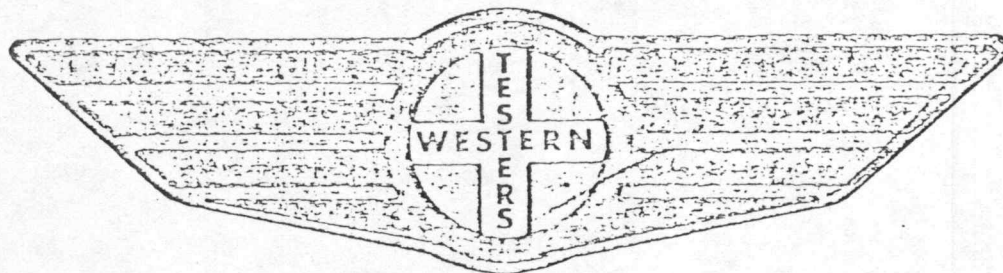
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 GARVIN Sec. 35 Twp. 31S Rge. 10E Test No. 1 Date 8/30/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/30/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: #1 TEST: 1
ELEVATION (KB): 1114 FORMATION: LANSING
SECTION: 35 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #13265 RANGE: 3975 CLOCK: 12

INTERVAL TEST FROM: 871 FT TO: 898 FT TOTAL DEPTH: 898 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 866 FT SIZE: 6 3/4 IN PACKER DEPTH: 871 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEM VISCOSITY: 39
WEIGHT: 9.6 WATER LOSS (CC):
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 675 FT I.D.: 3.8 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 XH IN

BLOW: FAIR TO VERY WEAK 16 MINUTE BLOW.

RECOVERED: 30 FT OF: DRILLING MUD.
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:

TIME SET PACKER(S): 7:00 P.M. TIME STARTED OFF BOTTOM: 9:30 P.M.
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 433 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 30 PSI TO (C) 30 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 34 PSI
FINAL FLOW PERIOD MIN: 30 (E) 30 PSI TO (F) 30 PSI
FINAL CLOSED IN PERIOD MIN: 57 (G) 39 PSI
FINAL HYDROSTATIC PRESSURE (H) 421 PSI



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 08/31/84

RANGE OIL COMPANY, INC.
 240 PAGE COURT
 220 W. DOUGLAS
 WICHITA, KANSAS 67202

WELL REPORT NO.	4054
UNIT NO.	13
DISTRICT	

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR					
WELL NO.	FARM	SECTION	TWP.	RANGE			
1	GARVIN	ELK	35	31S	10E	KS	

DRILL STEM TEST FROM 1118' TO 1150' TOTAL DEPTH 1150' (TEST 2) \$ 550.00
 550.00
 YOUR QUANTITY DISCOUNT ON THIS TEST 55.00
 TOTAL \$ 495.00

DISCOUNT \$ 4.95	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 4054
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SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC. FORMATION TESTING

Call - OK. TICKET N° 4054

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 1114 KB Formation Layton Sandstone Eff. Pay Ft.

District Augusta Date 8-31-84 Customer Order No.

COMPANY NAME Range Oil Co. Inc.

ADDRESS 240 page St 220 W Douglas, Wichita, Ks. 67202

LEASE AND WELL NO. Garvin #1 COUNTY ELK STATE KS Sec 35 Twp 31S Rge 10E

Mail Invoice To #1 GARVIN Co. Name Same Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 1118 ft. to 1150 ft. Total Depth 1150 ft.

Packer Depth 1113 ft. Size 6.75 in. Packer Depth - ft. Size in.

Packer Depth 1118 ft. Size 6.75 in. Packer Depth - ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 1141 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 1145 ft. Recorder Number 13265 Cap. 13265

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range # 2 Drill Collar Length 176 I. D. 2.25 in.

Mud Type Chem Viscosity 43 Weight Pipe Length - I. D. in.

Weight 9.5 Water Loss 13.6 cc. Drill Pipe Length 922 I. D. 3.8 in.

Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 32 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1.75 in. Bottom Choke Size 1.75 in.

Main Hole Size 7 3/8 in. Tool Joint Size 4 1/2 X 4 in.

Blow: Strong thru out

Recovered 260 ft. of Salt water few oil spots on top

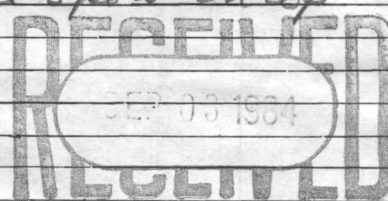
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 83,000 P.P.M. Sample Jars used 1 Remarks:



Time On Location 10:45 A.M. Time Pick Up Tool 11:00 A.M. Time Off Location SIDBY P.M.

Time Set Packer(s) 11:45 A.M. Time Started Off Bottom 2:45 P.M. Maximum Temperature 84°F

Initial Hydrostatic Pressure (A) 740 P.S.I.

Initial Flow Period Minutes 30 (B) 70 P.S.I. to (C) 110 P.S.I.

Initial Closed In Period Minutes 30 (D) 365 P.S.I.

Final Flow Period Minutes 60 (E) 130 P.S.I. to (F) 165 P.S.I.

Final Closed In Period Minutes 60 (G) 385 P.S.I.

Final Hydrostatic Pressure (H) 720 P.S.I. #5666

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: [Signature] Signature of Customer or his authorized representative

Western Representative: Allen Edgington OSES

FIELD INVOICE

Table with 2 columns: Item and Price. Items include 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, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-31-84

Test Ticket No. 4054

Recorder No. 5666 Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>741</u> P.S.I.	Open Tool		
B First Initial Flow Pressure	<u>71</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>108</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>370</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>134</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>155</u> P.S.I.			
G Final Closed-in Pressure	<u>371</u> P.S.I.			
H Final Hydrostatic Mud	<u>628</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>71</u>	0	<u>108</u>	0	<u>134</u>	0	<u>155</u>
P 2 5	<u>71</u>	3	<u>235</u>	5		3	<u>228</u>
P 3 10	<u>77</u>	6	<u>295</u>	10		6	<u>288</u>
P 4 15	<u>87</u>	9	<u>322</u>	15		9	<u>309</u>
P 5 20	<u>99</u>	12	<u>335</u>	20	<u>134</u>	12	<u>327</u>
P 6 25	<u>103</u>	15	<u>345</u>	25	<u>134</u>	15	<u>337</u>
P 7 30	<u>108</u>	18	<u>355</u>	30	<u>136</u>	18	<u>344</u>
P 8 35		21	<u>361</u>	35	<u>139</u>	21	<u>348</u>
P 9 40		24	<u>365</u>	40	<u>142</u>	24	<u>352</u>
P 10 45		27	<u>369</u>	45	<u>146</u>	27	<u>355</u>
P 11 50		30	<u>370</u>	50	<u>150</u>	30	<u>358</u>
P 12 55		33		55	<u>153</u>	33	<u>360</u>
P 13 60		36		60	<u>155</u>	36	<u>362</u>
P 14		39		65		39	<u>364</u>
P 15		42		70		42	<u>366</u>
P 16		45		75		45	<u>368</u>
P 17		48		80		48	<u>369</u>
P 18		51		85		51	<u>370</u>
P 19		54		90		54	<u>370</u>
P 20		57				57	<u>371</u>
		60				60	<u>371</u>

TKT # 4054

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4054

12725

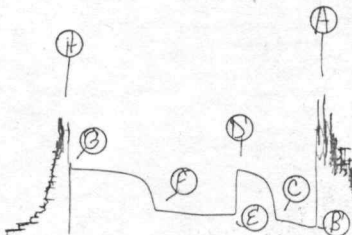


TKT# 4054

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4054

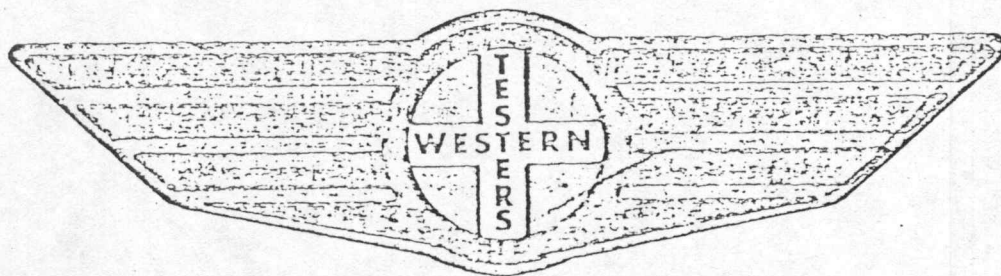
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RANGE OIL COMPANY, INC. Lease and Well No. _____ #1 GAKVIN _____ Sec. _____ 35 Twp. _____ 31S Rge. _____ 10E Test No. _____ 2 Date 8/31/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/31/84 TICKET #4054
 CUSTOMER: RANGE OIL COMPANY INC. LEASE: GARVIN
 WELL: #1 TEST: 2 GEOLOGIST: BOLTE
 ELEVATION (KB): 1114 FORMATION: LAYTON SS
 SECTION: 35 TOWNSHIP: 31S
 RANGE: 10E COUNTY: ELK STATE: KANSAS
 GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 1118 FT TO: 1150 FT TOTAL DEPTH: 1150 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 1113 FT SIZE: 6 3/4 IN PACKER DEPTH: 1118 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
 MUD TYPE: CHEM VISCOSITY: 43
 WEIGHT: 9.5 WATER LOSS (CC): 13.6
 CHLORIDES (P.P.M.): 1700
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 922 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 32 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 XH IN

BLOW: STRONG BLOW THROUGHOUT.

RECOVERED: 260 FT OF: SALT WATER: CHLORIDES 83000 P.P.M.
 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:

TIME SET PACKER(S): 11:45 A.M. TIME STARTED OFF BOTTOM: 2:45 P.M.
 WELL TEMPERATURE: 84 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 741 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) 108 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 370 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 134 PSI TO (F) 155 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 371 PSI
 FINAL HYDROSTATIC PRESSURE (H) 628 PSI



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO.	4055
UNIT NO.	13
DISTRICT	

DATE 09/01/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	ELL NO.	FARM	SECTION	TWP.	RANGE
	GARVIN	ELK			35	31S	10E

DRILL STEM TEST FROM 1526' TO 1571' TOTAL DEPTH 1571' (TEST 3) \$ 550.00
550.00
YOUR QUANTITY DISCOUNT ON THIS TEST 55.00
TOTAL \$ 495.00

DISCOUNT \$ 4.95	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 4055
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SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

Call - OK
TICKET NO 4055

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

Elevation 1114 KB Formation Altamont Ls. & Weiser Sandstone

District 13 Augusta Date 9-1-84 Customer Order No.

COMPANY NAME Range Oil Co. Inc.

ADDRESS 240 Page Court 220 W. Douglas Wichita, KS. 67202

LEASE AND WELL NO. Garvin #1 COUNTY Elk STATE KS. Sec. 35 Twp. 31S Rge. 10E

Mail Invoice To #1 GARVIN Co. Name Same Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

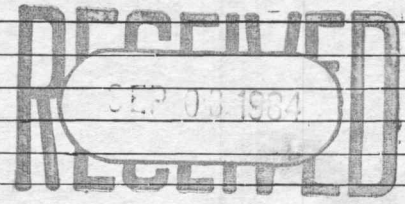
Formation Test No. 3 Interval Tested From 1526 ft. to 1571 ft. Total Depth 1571 ft.
Packer Depth 1521 ft. Size 6.75 in. Packer Depth - ft. Size - in.
Packer Depth 1526 ft. Size 6.75 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1531 ft. Recorder Number 5666 Cap. 3950
Bottom Recorder Depth (Outside) 1535 ft. Recorder Number 13265 Cap. 3975
Below Saddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range # 2 Drill Collar Length 176 I. D. 2.25 in.
Mud Type Chem Viscosity 48 Weight Pipe Length - I. D. - in.
Weight 9.6 Water Loss 13.4 cc. Drill Pipe Length 1330 I. D. 3.8 in.
Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.
Jars: Make - Serial Number - Anchor Length 45 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: Very weak 3 min

Recovered 1 ft. of Drill mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:



Time On Location 1:00 AM P.M. Time Pick Up Tool 1:15 AM P.M. Time Off Location Standby AM P.M.
Time Set Packer(s) 2:30 AM P.M. Time Started Off Bottom 5:00 AM P.M. Maximum Temperature 89° F
Initial Hydrostatic Pressure (A) 230 P.S.I.
Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period Minutes 30 (D) 110 P.S.I.
Final Flow Period Minutes 30 (E) 50 P.S.I. to (F) 30 P.S.I.
Final Closed In Period Minutes 60 (G) 295 P.S.I.
Final Hydrostatic Pressure (H) 230 P.S.I. # 5666

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 [Signature] Signature of Customer or his authorized representative

Western Representative Allen Edgington [Signature]

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test (\$550), Miscrun, 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 9-1-84

Test Ticket No. 4055

Recorder No. 5666 Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>740</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>26</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>26</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>110</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>27</u> P.S.I.			
G Final Closed-in Pressure	<u>290</u> P.S.I.			
H Final Hydrostatic Mud	<u>740</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

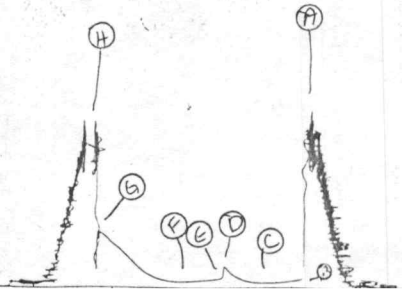
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>26</u>	0	<u>26</u>	0	<u>27</u>	0	<u>27</u>
P 2 5		3	<u>26</u>	5		3	<u>27</u>
P 3 10		6	<u>26</u>	10		6	<u>27</u>
P 4 15		9	<u>29</u>	15		9	<u>30</u>
P 5 20		12	<u>34</u>	20		12	<u>36</u>
P 6 25		15	<u>41</u>	25		15	<u>42</u>
P 7 30	<u>26</u>	18	<u>51</u>	30	<u>27</u>	18	<u>48</u>
P 8 35		21	<u>61</u>	35		21	<u>55</u>
P 9 40		24	<u>75</u>	40		24	<u>66</u>
P10 45		27	<u>97</u>	45		27	<u>80</u>
P11 50		30	<u>110</u>	50		30	<u>95</u>
P12 55		33		55		33	<u>114</u>
P13 60		36		60		36	<u>134</u>
P14		39		65		39	<u>156</u>
P15		42		70		42	<u>175</u>
P16		45		75		45	<u>197</u>
P17		48		80		48	<u>214</u>
P18		51		85		51	<u>233</u>
P19		54		90		54	<u>257</u>
P20		57				57	<u>277</u>
		60				60	<u>290</u>

TKC# 4055

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4055

5666

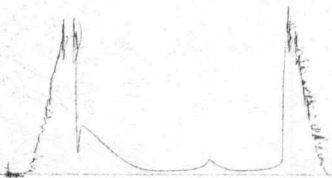


fcc # 4055

0

4055

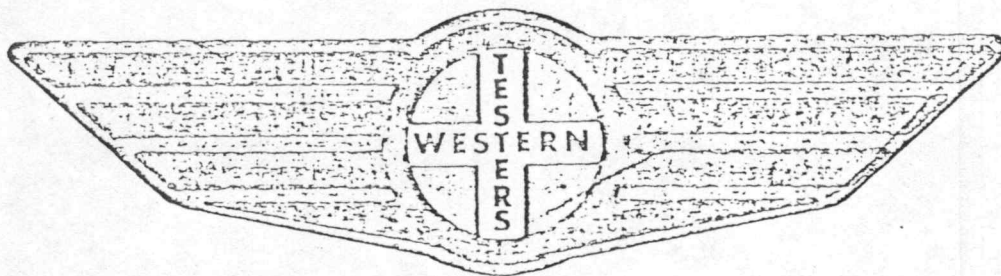
13265



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RANGE OIL COMPANY, INC. Lease and Well No. _____ #1 GARVIN _____ Sec. _____ 32 Twp. _____ 31S Rge. _____ 10E Test No. _____ 3 Date 9/1/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/1/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: #1 TEST: 3
ELEVATION (KB): 1114 FORMATION: ALTMT LS WEISE SS
SECTION: 35 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

TICKET #4055
LEASE: GARVIN
GEOLOGIST: BOLTE

INTERVAL TEST FROM: 1526 FT TO: 1571 FT TOTAL DEPTH: 1571 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1521 FT SIZE: 6 3/4 IN PAKER DEPTH: 1526 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.6 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 1700
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1330 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 45 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 XH IN

BLOW: VERY WEAK 3 MINUTE BLOW.

RECOVERED: 1 FT OF: DRILLING MUD.
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:

TIME SET PACKER(S): 2:30 P.M. TIME STARTED OFF BOTTOM: 5:00 P.M.
WELL TEMPERATURE: 89 °F
INITIAL HYDROSTATIC PRESSURE: (A) 740 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 26 PSI TO (C) 26 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 110 PSI
FINAL FLOW PERIOD MIN: 30 (E) 27 PSI TO (F) 27 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 290 PSI
FINAL HYDROSTATIC PRESSURE (H) 740 PSI



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4056
UNIT NO.
DISTRICT 13

DATE 09/02/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	

WELL NO.	FARM	SECTION	TWP.	RANGE
1	GARVIN	ELK	35	31S 10E

DRILL STEM TEST FROM 1633' TO 1710' TOTAL DEPTH 1710' (TEST 4) \$ 550.00
550.00
YOUR QUANTITY DISCOUNT ON THIS TEST 55.00
TOTAL \$ 495.00

DISCOUNT \$ 4.95	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 4056
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SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC. FORMATION TESTING

Call - OK

TICKET N° 4056

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

Elevation 1114KB Formation Pawnee + Ft. Scott 45. Eff. Pay Ft.

WICHITA, KANSAS 67201

District Augusta Date 9-2-84 Customer Order No.

COMPANY NAME Range Oil Co Inc.

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

LEASE AND WELL NO. Garvin #1 COUNTY Elk STATE KS. Sec. 35 Twp 31S Rge. 10E

Mail Invoice To #1 GARVIN Co. Name Same Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

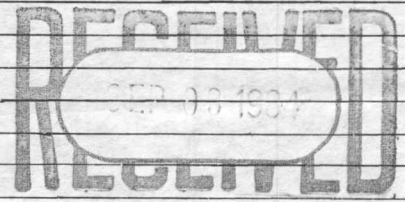
Formation Test No. 4 Interval Tested From 1633 ft. to 1710 ft. Total Depth 1710 ft. Packer Depth 1628 ft. Size 6.75 in. Packer Depth 1633 ft. Size 6.75 in.

Top Recorder Depth (Inside) 1638 ft. Recorder Number 5666 Cap. 3950 Bottom Recorder Depth (Outside) 1642 ft. Recorder Number 13265 Cap. 3975 Below Saddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range #2 Mud Type Chem Viscosity 38 Weight 9.6 Water Loss 13.6 cc. Chlorides 1700 P.P.M. Jars: Make - Serial Number - Did Well Flow? NO Reversed Out NO Drill Collar Length 176 I. D. 2.25 in. Weight Pipe Length - I. D. - in. Drill Pipe Length 1437 I. D. 3.8 in. Test Tool Length 20 ft. Tool Size 5.5 in. Anchor Length 77 ft. Size 5.5 in. 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 (1/2") 20 min

Recovered 2 ft. of Drill Mud Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Chlorides P.P.M. Sample Jars used 1 Remarks:



Time On Location 4:30 A.M. Time Pick Up Tool 4:45 A.M. Time Off Location 5:03:34 A.M. Time Set Packer(s) 5:45 A.M. Time Started Off Bottom 8:15 A.M. Maximum Temperature 94°F Initial Hydrostatic Pressure (A) 840 P.S.I. Initial Flow Period (B) 30 Minutes (C) 40 P.S.I. Initial Closed In Period (D) 30 Minutes (E) 325 P.S.I. Final Flow Period (F) 30 Minutes (G) 50 P.S.I. Final Closed In Period (H) 60 Minutes (I) 405 P.S.I. Final Hydrostatic Pressure (H) 840 P.S.I. #5666

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 [Signature] Signature of Customer or his authorized representative

Western Representative Allen Edgington OS25

FIELD INVOICE

Table with 2 columns: Item and Price. Items include 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, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date: 9-2-84

Test Ticket No. 4056

Recorder No. 5666 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>838</u>	P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>40</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>40</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>323</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>40</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>40</u>	P.S.I.			
G Final Closed-in Pressure	<u>410</u>	P.S.I.			
H Final Hydrostatic Mud	<u>838</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

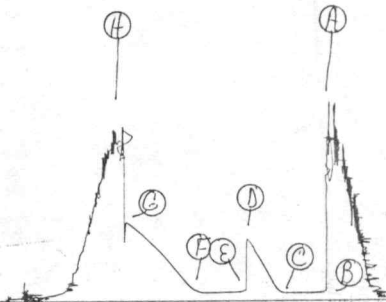
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>40</u>	0	<u>40</u>	0	<u>40</u>	0	<u>40</u>
P 2 5		3	<u>44</u>	5		3	<u>40</u>
P 3 10		6	<u>59</u>	10		6	<u>50</u>
P 4 15		9	<u>93</u>	15		9	<u>60</u>
P 5 20		12	<u>134</u>	20		12	<u>75</u>
P 6 25		15	<u>173</u>	25		15	<u>97</u>
P 7 30	<u>40</u>	18	<u>210</u>	30	<u>40</u>	18	<u>124</u>
P 8 35		21	<u>245</u>	35		21	<u>150</u>
P 9 40		24	<u>287</u>	40		24	<u>176</u>
P 10 45		27	<u>323</u>	45		27	<u>203</u>
P 11 50		30		50		30	<u>227</u>
P 12 55		33		55		33	<u>249</u>
P 13 60		36		60		36	<u>272</u>
P 14		39		65		39	<u>294</u>
P 15		42		70		42	<u>315</u>
P 16		45		75		45	<u>337</u>
P 17		48		80		48	<u>355</u>
P 18		51		85		51	<u>373</u>
P 19		54		90		54	<u>391</u>
P 20		57				57	<u>404</u>
		60				60	<u>410</u>

4056

TKT # 4056

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5666



TKT # 4056

4056

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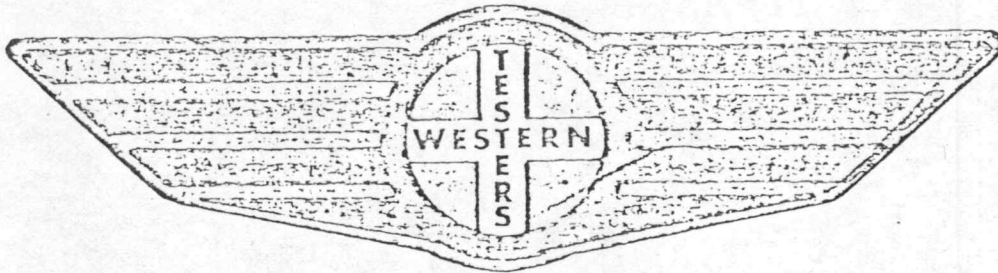
13065



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____
MANAGE OIL COMPANY, INC. _____
Lease and Well No. _____ #1 GARVIN _____
Sec. _____ 35 Twp. _____ 31S Rge. _____ 10E Test No. _____ 4 _____
Date 9/2/84 _____

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/2/84
 CUSTOMER: RANGE OIL COMPANY INC.
 WELL: #1 TEST: 4
 ELEVATION (KB): 1114 FORMATION: PAWNEE & FT SCOTT
 SECTION: 35 TOWNSHIP: 31S
 RANGE: 10E COUNTY: ELK STATE: KANSAS
 GAUGE SN #5666 RANGE: 3950 CLOCK: 12

TICKET #4056
 LEASE: GARVIN
 GEOLOGIST: BOLTE

INTERVAL TEST FROM: 1633 FT TO: 1710 FT TOTAL DEPTH: 1710 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 1628 FT SIZE: 6 3/4 IN PACKER DEPTH: 1633 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
 MUD TYPE: CHEM VISCOSITY: 38
 WEIGHT: 9.6 WATER LOSS (CC): 13.6
 CHLORIDES (P.P.M.): 1700
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 1437 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 77 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 XH IN

BLOW: WEAK 1/2" 20 MINUTE BLOW.

RECOVERED: 2 FT OF: DRILLING MUD.
 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:

TIME SET PACKER(S): 5:45 A.M. TIME STARTED OFF BOTTOM: 8:15 A.M.
 WELL TEMPERATURE: 94 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 838 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 40 PSI TO (C) 40 PSI
 INITIAL CLOSED IN PERIOD MIN: 27 (D) 323 PSI
 FINAL FLOW PERIOD MIN: 30 (E) 40 PSI TO (F) 40 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 410 PSI
 FINAL HYDROSTATIC PRESSURE (H) 838 PSI

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO.

4057

UNIT NO.

DISTRICT

13

DATE 09/02/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

FARM

SECTION

TWP

RANGE

GARVIN

ELK

KS

35

31S

10E

DRILL STEM TEST FROM 1777' TO 1816' TOTAL DEPTH 1816' (TEST 5) \$ 550.00

550.00

YOUR QUANTITY DISCOUNT ON THIS TEST 55.00

TOTAL \$ 495.00

DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

\$ 4.95

4057

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 4057

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 1114 KB Formation CHEROKEE Eff. Pay Ft.

District Augusta Date 9-2-84 Customer Order No.

COMPANY NAME Range Oil Co Inc.

ADDRESS 240 Page St 220 W Douglas Wichita, Ks 67202

LEASE AND WELL NO. Garvin #1 COUNTY Elk STATE KS Sec. 35 Twp 31S Rge. 10E

Mail Invoice To #HGARVIN Co. Name Same Address No. Copies Requested 4

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 5 Interval Tested From 1777 ft. to 1816 ft. Total Depth 1816 ft.

Packer Depth 1772 ft. Size 6.75 in. Packer Depth 1777 ft. Size 6.75 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 1780 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 1784 ft. Recorder Number 13265 Cap. 3975

Below Scaddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range #2 Drill Collar Length 176 I. D. 2.25 in.

Mud Type Chem Viscosity 41 Weight Pipe Length I. D. in.

Weight 92 Water Loss 132 cc. Drill Pipe Length 1581 I. D. 3.8 in.

Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 39 ft. Size 5.5 in.

Did Well Flow? No Reversed Out NO Surface Choke Size .75 in. Bottom Choke Size 1.75 in.

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

Blow: Very weak 7 min

Recovered 1 ft. of Drill mud

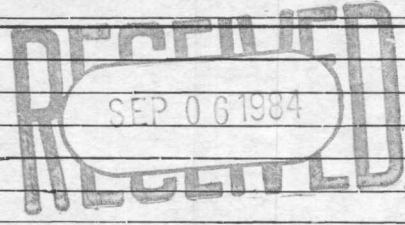
Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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



Time On Location 6:00 A.M. Time Pick Up Tool 6:15 A.M. Time Off Location StdBy A.M.

Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 10:15 A.M. Maximum Temperature 94°F

Initial Hydrostatic Pressure (A) 920 P.S.I.

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

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

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

Final Closed In Period Minutes 60 (G) 30 P.S.I.

Final Hydrostatic Pressure (H) 920 P.S.I.

COMPANY TERMS

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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 Signature of Customer or his authorized representative

Western Representative Allen Edgington 0525

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL (\$550.00).

WESTERN TESTING CO., INC.

Pressure Data

Date: 9-2-84

Test Ticket No. 4057

Recorder No. 5666

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____

Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>927</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>29</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>29</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>30</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>26</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>26</u> P.S.I.			
G Final Closed-in Pressure	<u>28</u> P.S.I.			
H Final Hydrostatic Mud	<u>909</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

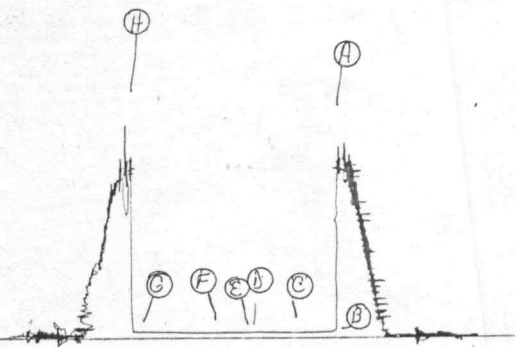
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>29</u>	0	<u>29</u>	0	<u>26</u>	0	<u>26</u>
P 2 5		3		5		3	
P 3 10		6		10		6	
P 4 15		9		15		9	
P 5 20		12		20		12	
P 6 25		15	<u>29</u>	25		15	<u>26</u>
P 7 30	<u>29</u>	18	<u>29</u>	30	<u>26</u>	18	
P 8 35		21	<u>29</u>	35		21	
P 9 40		24	<u>30</u>	40		24	
P 10 45		27	<u>30</u>	45		27	
P 11 50		30	<u>30</u>	50		30	<u>26</u>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	<u>26</u>
P 17		48		80		48	<u>26</u>
P 18		51		85		51	<u>27</u>
P 19		54		90		54	<u>27</u>
P 20		57				57	<u>28</u>
		60				60	<u>28</u>

T.K.T. # 4057

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AD57

5/6/6

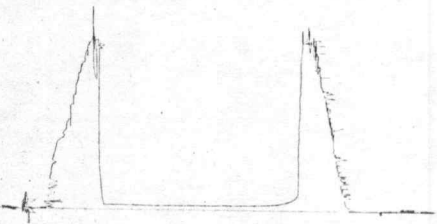


TKT # 4057

4057

0

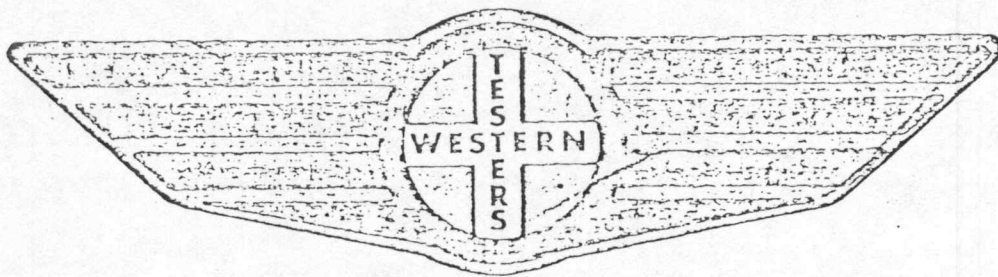
13265



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/2/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 5
ELEVATION (KB): 1114 FORMATION: CHEROKEE SANDSTONE
SECTION: 35 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 1777 FT TO: 1816 FT TOTAL DEPTH: 1816 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1772 FT SIZE: 6 3/4 IN PACKER DEPTH: 1777 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 41
WEIGHT: 9.7 WATER LOSS (CC): 13.2
CHLORIDES (P.P.M.): 1700
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1581 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 39 FT SIZE: 5 1/2 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: VERY WEAK BLOW IN 7 MINUTES.

RECOVERED: 1 FT OF: DRILLING MUD.
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:

TIME SET PACKER(S): 7:45 PM TIME STARTED OFF BOTTOM: 10:15 PM
WELL TEMPERATURE: 94 °F
INITIAL HYDROSTATIC PRESSURE: (A) 927 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 29 PSI TO (C) 29 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 30 PSI
FINAL FLOW PERIOD MIN: 30 (E) 26 PSI TO (F) 26 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 28 PSI
FINAL HYDROSTATIC PRESSURE (H) 909 PSI

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4058
UNIT NO.
DISTRICT 13

DATE 09/03/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR		
WELL NO.	FARM	SECTION	TWP.	RANGE
GARVIN	ELK	KS	35	31S 10E

DRILL STEM TEST FROM 1995' TO 2012' TOTAL DEPTH 2012' (TEST 6) \$ 550.00
550.00
YOUR QUANTITY DISCOUNT ON THIS TEST 55.00
TOTAL \$ 495.00

DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

4058

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. *4058*

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201 *13*

Elevation *1114KB* Formation *Miss.* Eff. Pay _____ Ft.

R040 District *AUGUSTA* Date *9-3-84* Customer Order No. _____

COMPANY NAME *RANGE OIL CO INC*

ADDRESS *240 PAGE CT. 220 W. DOUGLAS WICHITA, KS 67202*

LEASE AND WELL NO. *GARYN#1* COUNTY *ELK* STATE *KS* Sec. *35* Twp. *31S* Rge. *10E*

Mail Invoice To _____ Co. Name *#1 GARYN* Address *SAME* No. Copies Requested *1*

Mail Charts To _____ Co. Name *#1 GARYN* Address *SAME* No. Copies Requested *5*

Formation Test No. *6* Interval Tested From *1995* ft. to *2012* ft. Total Depth *2012* ft.

Packer Depth *1990* ft. Size *6.75* in. Packer Depth _____ ft. Size _____ in.

Packer Depth *1995* ft. Size *6.75* in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) *2003* ft. Recorder Number *5666* Cap. *3950*

Bottom Recorder Depth (Outside) *2007* ft. Recorder Number *13265* Cap. *3975*

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

Drilling Contractor *RANGE #2* Drill Collar Length *176* I. D. *2.25* in.

Mud Type *CHEM* Viscosity *42* Weight Pipe Length _____ I. D. _____ in.

Weight *9.7* Water Loss *12.0* cc. Drill Pipe Length *1799* I. D. *3.8* in.

Chlorides *1800* P.P.M. Test Tool Length *20* ft. Tool Size *5.5* in.

Jars: Make _____ Serial Number _____ Anchor Length *17* ft. Size *3.5* in.

Did Well Flow? *Yes* Reversed Out *NO* Surface Choke Size *1.75* in. Bottom Choke Size *2.75* in.

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

Blow: *Strong Gas to Surface 7 min 75.1 MCFpd*

Recovered *30* ft. of *Very slight gas cut mud oil spots on top*

Recovered *60* ft. of *Very slight gas + oil cut mud 2% oil*

Recovered *60* ft. of *slight gas cut oil cut mud 10% gas 25% oil*

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used *4* Remarks: _____

12:00-10:30A Time On Location *Stedley* A.M. P.M. Time Pick Up Tool *11:30* A.M. P.M. Time Off Location *STEDLEY* A.M. P.M.

Time Set Packer(s) *1:00* A.M. P.M. Time Started Off Bottom *4:00* A.M. P.M. Maximum Temperature *100°F*

Initial Hydrostatic Pressure _____ (A) *1025* P.S.I.

Initial Flow Period _____ Minutes *30* (B) *60* P.S.I. to (C) *60* P.S.I.

Initial Closed In Period _____ Minutes *30* (D) *700* P.S.I.

Final Flow Period _____ Minutes *60* (E) *60* P.S.I. to (F) *70* P.S.I.

Final Closed In Period _____ Minutes *60* (G) *710* P.S.I.

Final Hydrostatic Pressure _____ (H) *1025* P.S.I. *# 5666*

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 *Allen Edgington* Signature of Customer or his authorized representative

Western Representative *Allen Edgington* *0525*

FIELD INVOICE

Open Hole Test	\$ <i>550.00</i>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <i>550.00</i>



Nº 3443

GAS FLOW REPORT

Date 9-3-84 Ticket 40 Company Range Oil Co. Inc.
 Well Name and No. Garvin #1 Dst No. 6 Interval Tested 1995-2012
 County ELK State KS Sec. 35 Twp. 31 S Rg. 10 E
inches of water

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

GAS to surface 7 min

15	28 th	3/4			75.1 MCFD
20	" with	"			75.1 M
25	"	"			"
30	"	"			"

SECOND FLOW

40	28 th	3/4			75.1 MCFpD
50	"	"			"
60	"	"			"
70	"	"			"
80	"	"			"
90	"	"			"

GAS BOTTLE

Serial No. 835 Date Bottle Filled 9-3-84 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Range Oil Co. Inc.
 Authorized by X Dry J. Bolte

WESTERN TESTING CO., INC.

Pressure Data

Date 9-3-84

Test Ticket No. 4058

Recorder No. 56666 Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1033</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>61</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>61</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>701</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>64</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>67</u> P.S.I.			
G Final Closed-in Pressure	<u>700</u> P.S.I.			
H Final Hydrostatic Mud	<u>1023</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

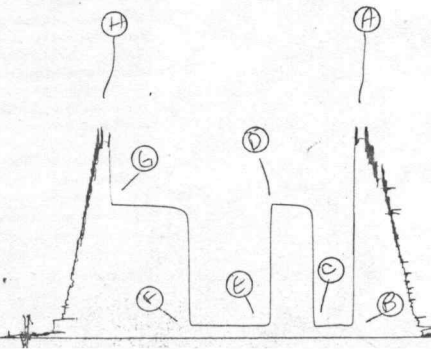
Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>61</u>	0	<u>61</u>	0	<u>64</u>	0	<u>67</u>
P 2 5		3	<u>676</u>	5		3	<u>653</u>
P 3 10		6	<u>687</u>	10		6	<u>669</u>
P 4 15		9	<u>692</u>	15		9	<u>679</u>
P 5 20		12	<u>695</u>	20		12	<u>685</u>
P 6 25		15	<u>697</u>	25		15	<u>687</u>
P 7 30	<u>61</u>	18	<u>698</u>	30	<u>64</u>	18	<u>689</u> <u>689</u>
P 8 35		21	<u>699</u>	35	<u>64</u>	21	<u>691</u>
P 9 40		24	<u>700</u>	40	<u>65</u>	24	<u>693</u>
P 10 45		27	<u>700</u>	45	<u>66</u>	27	<u>694</u>
P 11 50		30	<u>701</u>	50	<u>66</u>	30	<u>695</u>
P 12 55		33		55	<u>67</u>	33	<u>696</u>
P 13 60		36		60	<u>67</u>	36	<u>697</u>
P 14		39		65		39	<u>698</u>
P 15		42		70		42	<u>699</u>
P 16		45		75		45	<u>699</u>
P 17		48		80		48	<u>700</u>
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	<u>700</u>

tick # 4058

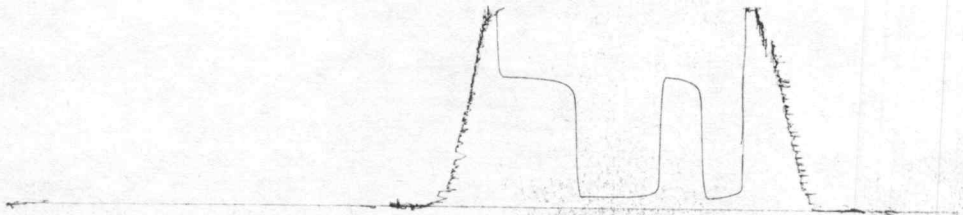
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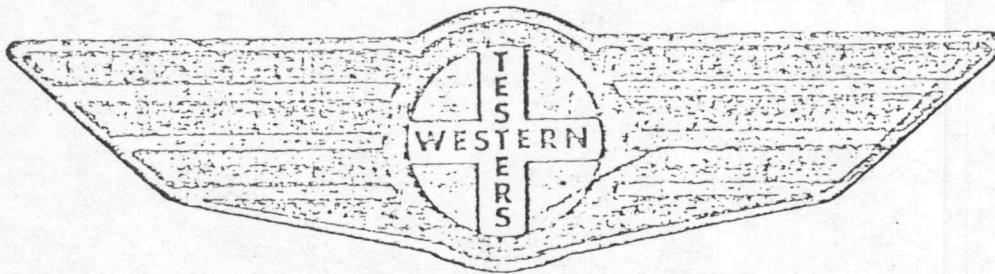
121



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 GARVIN Sec. 35 Twp. 31s Rge. 10E Test No. 6 Date 9/3/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/3/84
 CUSTOMER: RANGE OIL COMPANY INC.
 WELL: 1 TEST: 6
 ELEVATION (KB): 1114 FORMATION: MISSISSIPPI
 SECTION: 35 TOWNSHIP: 31S
 RANGE: 10E COUNTY: ELK STATE: KANSAS
 GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 1995 FT TO: 2012 FT TOTAL DEPTH: 2012 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 1990 FT SIZE: 6 3/4 IN PACKER DEPTH: 1995 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
 MUD TYPE: CHEMICAL VISCOSITY: 42
 WEIGHT: 9.7 WATER LOSS (CC): 12.0
 CHLORIDES (P.P.M.): 1800
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? YES REVERSED OUT? NO
 DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 1799 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 17 FT SIZE: 5 1/2 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: STRONG BLOW. GAS TO SURFACE IN 7
 MINUTES. SEE ATTACHED SHEET FOR
 GAS MEASUREMENTS.

RECOVERED: 30 FT OF: VERY SLIGHTLY GAS CUT MUD OIL SPOTS ON TOP.
 RECOVERED: 60 FT OF: VERY SLIGHTLY GAS & OIL CUT MUD (2% OIL).
 RECOVERED: 60 FT OF: SLIGHTLY GAS CUT OIL CUT MUD (10% GAS: 25% OIL)

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

REMARKS:

TIME SET PACKER(S): 1:00 PM TIME STARTED OFF BOTTOM: 4:00 PM
 WELL TEMPERATURE: 100 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1033 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 61 PSI TO (C) 61 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 701 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 64 PSI TO (F) 67 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 700 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1023 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 9/3/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1
ELEVATION (KB): 1114
SECTION: 35
RANGE: 10E
GAUGE SN #5666

TEST: 6
FORMATION: MISSISSIPPI
TOWNSHIP: 31S
COUNTY: ELK
RANGE: 3950

TICKET #4058
LEASE: GARVIN
GEOLOGIST: BOLTE
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	-----------------	-------------------	------------------

PRE FLOW

15	MERLA	3/4	28" WTR	7510 CFPD
20			28	7510
25			28	7510
30			28	7510

SECOND FLOW

10	MERLA	3/4	28" WTR	7510 CFPD
20			28	7510
30			28	7510
40			28	7510
50			28	7510
60			28	7510

GAS BOTTLE SN #: 835
DATE BOTTLE FILLED: 9/3/84
DATE TO BE INVOICED:



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO.

UNIT NO.

DISTRICT

4059

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

FARM

SECTION

TWP

RANGE

GARVIN

ELK

KS

35

31S

10E

DRILL STEM TEST FROM 2012' TO 2037' TOTAL DEPTH 2037' (TEST 7) \$ 550.00

550.00

YOUR QUANTITY DISCOUNT ON THIS TEST 55.00

TOTAL \$ 495.00

DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

4059

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

NO 4059

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

Elevation 1114 KB Formation Mis Eff. Pay Ft.

WICHITA, KANSAS 67201

13

R040

District Augusta Date 9-3-84 Customer Order No.

COMPANY NAME RANGE OIL CO. INC

ADDRESS 240 Page Court 220 W. Douglas Wichita Ks. 67202

LEASE AND WELL NO. GARVIN #1 COUNTY ELK STATE KS Sec. 35 Twp 31S Rge. 10E

Mail Invoice To #1 GARVIN Co. Name Same Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 7 Interval Tested From 2012 ft. to 2037 ft. Total Depth 2037 ft.
Packer Depth 2007 ft. Size 6.75 in.
Packer Depth 2012 ft. Size 6.75 in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 2028 ft. Recorder Number 5666 Cap. 3950
Bottom Recorder Depth (Outside) 2032 ft. Recorder Number 13265 Cap. 3975
Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range # 2 Drill Collar Length 176 I. D. 2.25 in.
Mud Type Chem Viscosity 42 Weight Pipe Length I. D. in.
Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 1816 I. D. 3.8 in.
Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.
Jars: Make Serial Number Anchor Length 25 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 778 in. Tool Joint Size 4 1/2 x 1 1/4 in.

Blow: Strong thru out

Recovered 180 ft. of Gas in Pipe
Recovered 70 ft. of Free oil 35 spec. grav
Recovered 50 ft. of heavy oil cut mud 50% oil
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used 2 Remarks:

Time On Location 5:30-9:30 A.M. P.M. Time Pick Up Tool 10:00 P.M. Time Off Location A.M. P.M.
Time Set Packer(s) 11:30 P.M. Time Started Off Bottom 2:30 A.M. P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1045 P.S.I.
Initial Flow Period (B) 30 Minutes 50 P.S.I. to (C) 50 P.S.I.
Initial Closed In Period (D) 30 Minutes 620 P.S.I.
Final Flow Period (E) 60 Minutes 60 P.S.I. to (F) 70 P.S.I.
Final Closed In Period (G) 60 Minutes 670 P.S.I.
Final Hydrostatic Pressure (H) 1015 P.S.I. #5666

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 [Signature] Signature of Customer or his authorized representative
Western Representative Allen Edgington 0525

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$550.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL (\$550.00).

WESTERN TESTING CO., INC.

Pressure Data

Date: 9/3/84
 Recorder No. 5666
 Clock No.

Test Ticket No. 4059
 Location Ft.
 Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1047</u>	P.S.I.		M
B First Initial Flow Pressure	<u>39</u>	P.S.I.	Mins.	Mins.
C First Final Flow Pressure	<u>41</u>	P.S.I.	Mins.	Mins.
D Initial Closed-in Pressure	<u>418</u>	P.S.I.	Mins.	Mins.
E Second Initial Flow Pressure	<u>55</u>	P.S.I.	Mins.	Mins.
F Second Final Flow Pressure	<u>61</u>	P.S.I.		
G Final Closed-in Pressure	<u>649</u>	P.S.I.		
H Final Hydrostatic Mud	<u>994</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

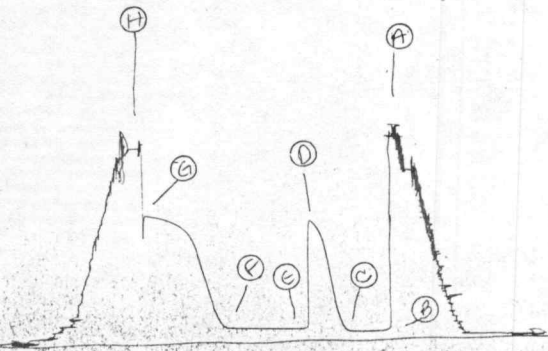
Second Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>39</u>	0	<u>41</u>	0	<u>55</u>	0	<u>61</u>
P 2	<u>39</u>	3	<u>50</u>	5	<u>1</u>	3	<u>64</u>
P 3	<u>39</u>	6	<u>89</u>	10	<u>1</u>	6	<u>87</u>
P 4	<u>40</u>	9	<u>148</u>	15	<u>55</u>	9	<u>129</u>
P 5	<u>40</u>	12	<u>251</u>	20	<u>54</u>	12	<u>187</u>
P 6	<u>41</u>	15	<u>361</u>	25	<u>54</u>	15	<u>254</u>
P 7	<u>41</u>	18	<u>461</u>	30	<u>54</u>	18	<u>324</u>
P 8		21	<u>534</u>	35	<u>57</u>	21	<u>391</u>
P 9		24	<u>572</u>	40	<u>57</u>	24	<u>472</u>
P10		27	<u>602</u>	45	<u>58</u>	27	<u>520</u>
P11		30	<u>618</u>	50	<u>59</u>	30	<u>551</u>
P12		33		55	<u>60</u>	33	<u>574</u>
P13		36		60	<u>61</u>	36	<u>590</u>
P14		39		65		39	<u>602</u>
P15		42		70		42	<u>613</u>
P16		45		75		45	<u>622</u>
P17		48		80		48	<u>627</u>
P18		51		85		51	<u>632</u>
P19		54		90		54	<u>637</u>
P20		57				57	<u>641</u>
		60				60	<u>645</u>
							<u>649</u>

TC# 41059

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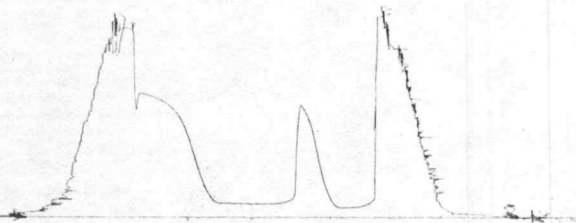


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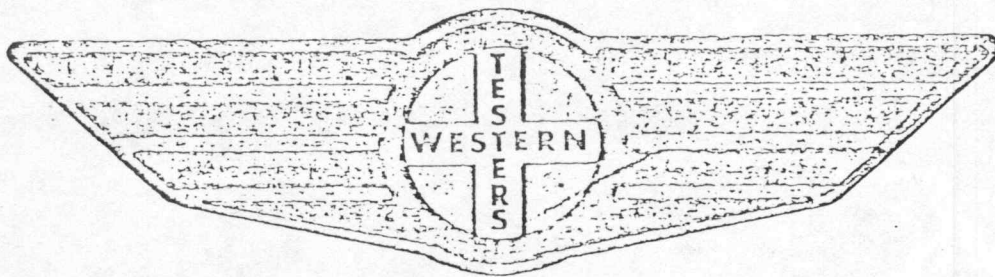
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/3/84 TICKET #4059
CUSTOMER: RANGE OIL COMPANY INC. LEASE: GARVIN
WELL: 1 TEST: 7 GEOLOGIST: BOLTE
ELEVATION (KB): 1114 FORMATION: MISSISSIPPI
SECTION: 35 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 2012 FT TO: 2037 FT TOTAL DEPTH: 2037 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2007 FT SIZE: 6 3/4 IN PACKER DEPTH: 2012 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.7 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 1800
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1816 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 25 FT SIZE: 5 1/2 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: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 180 FT OF: GAS ABOVE FLUID.
RECOVERED: 70 FT OF: FREE OIL (35 SPEC. GRAVITY).
RECOVERED: 50 FT OF: HEAVY OIL CUT MUD. 50% OIL.
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): 11:30 PM TIME STARTED OFF BOTTOM: 2:30 AM
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1047 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 39 PSI TO (C) 41 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 618 PSI
FINAL FLOW PERIOD MIN: 60 (E) 55 PSI TO (F) 61 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 649 PSI
FINAL HYDROSTATIC PRESSURE (H) 996 PSI



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO.

UNIT NO.

DISTRICT

4060

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

DATE

09/04/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

FARM

SECTION

TWP.

RANGE

GARVIN

ELK

KS

35

31S

10E

DRILL STEM TEST FROM 2037' TO 2075' TOTAL DEPTH 2075' (TEST 8) \$ 550.00

550.00

YOUR QUANTITY DISCOUNT ON THIS TEST 55.00

TOTAL \$ 495.00

DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

\$ 4.95

4060

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

№ 4060

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

Elevation 1114 KB Formation Miss Eff. Pay _____ Ft.

13 District Augusta Date 9-4-84 Customer Order No. _____

COMPANY NAME Range Oil Co. Inc.

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

LEASE AND WELL NO. Garvin #1 COUNTY Elk STATE Ks Sec. 35 Twp. 31S Rge. 10E

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

Mail Charts To _____ Co. Name #1 GARVIN Address Same No. Copies Requested 5

Formation Test No. 8 Interval Tested From 2037 ft. to 2075 ft. Total Depth 2075 ft.

Packer Depth 2032 ft. Size 6.75 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2037 ft. Size 6.75 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2066 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2070 ft. Recorder Number 13265 Cap. 3975

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

Drilling Contractor Range #2 Drill Collar Length 176 I. D. 2.25 in.

Mud Type Chem Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 97 Water Loss 11.6 cc. Drill Pipe Length 1841 I. D. 3.8 in.

Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make _____ Serial Number _____ Anchor Length 38 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 778 in. Tool Joint Size 4 1/2 X 4 in.

Blow: Weak thru out

Recovered 90 ft. of Muddy water / with few oil spots on top

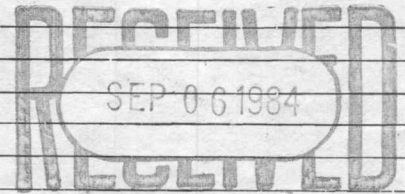
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides 9,000 P.P.M. Sample Jars used 2 Remarks: _____



Time On Location 5:00-11:30A Stday A.M. Time Pick Up Tool 12:15 P.M. Time Off Location STDAY A.M.

Time Set Packer(s) 1:45 P.M. Time Started Off Bottom 4:45 P.M. Maximum Temperature 100°F

Initial Hydrostatic Pressure _____ (A) 1045 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 70 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 700 P.S.I.

Final Flow Period _____ Minutes 60 (E) 80 P.S.I. to (F) 80 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 710 P.S.I.

Final Hydrostatic Pressure _____ (H) 1035 P.S.I. #5666

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 _____ Signature of Customer or his authorized representative

Western Representative Allen Edgington 0525

FIELD INVOICE

Open Hole Test	\$ 550.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-4-84

Test Ticket No. 4060

Recorder No. 5666 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1054</u> P.S.I.	Open Tool		
B First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>53</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>705</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	80 <u>72</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>85</u> P.S.I.			
G Final Closed-in Pressure	<u>719</u> P.S.I.			
H Final Hydrostatic Mud	<u>1044</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

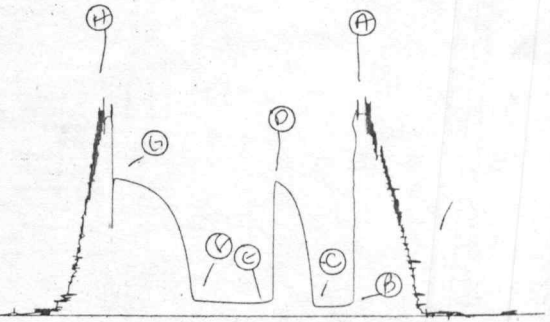
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>53</u>	0	<u>53</u>	0	<u>72</u>	0	<u>85</u>
P 2 5		3	<u>305</u>	5		3	<u>154</u>
P 3 10		6	<u>433</u>	10		6	<u>320</u>
P 4 15		9	<u>522</u>	15		9	<u>406</u>
P 5 20		12	<u>587</u>	20		12	<u>471</u>
P 6 25		15	<u>626</u>	25	<u>72</u>	15	<u>523</u>
P 7 30	<u>53</u>	18	<u>656</u>	30	<u>73</u>	18	<u>556</u>
P 8 35		21	<u>678</u>	35	<u>75</u>	21	<u>587</u>
P 9 40		24	<u>695</u>	40	<u>77</u>	24	<u>612</u>
P 10 45		27	<u>705</u>	45	<u>79</u>	27	<u>633</u>
P 11 50		30		50	<u>81</u>	30	<u>647</u>
P 12 55		33		55	<u>83</u>	33	<u>661</u>
P 13 60		36		60	<u>85</u>	36	<u>673</u>
P 14		39		65		39	<u>683</u>
P 15		42		70		42	<u>691</u>
P 16		45		75		45	<u>697</u>
P 17		48		80		48	<u>702</u>
P 18		51		85		51	<u>707</u>
P 19		54		90		54	<u>712</u>
P 20		57				57	<u>716</u>
		60				60	<u>719</u>

7CK# 40600

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40600

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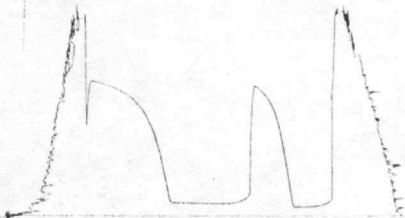


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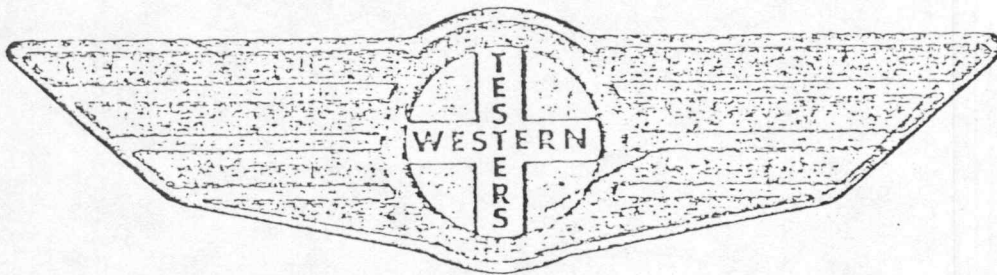
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 GARVIN Sec. 35 Twp. 31s Rge. 10E Test No. 8 Date 9/4/8

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 9/4/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 8
ELEVATION (KB): 1114 FORMATION: MISSISSIPPI
SECTION: 35 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 2037 FT TO: 2075 FT TOTAL DEPTH: 2075 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2032 FT SIZE: 6 3/4 IN Packer DEPTH: 2037 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.7 WATER LOSS (CC): 11.6
CHLORIDES (P.P.M.): 1700
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 176 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1841 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 38 FT SIZE: 5 1/2 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: 90 FT OF: MUDDY WATER WITH A FEW OIL SPOTS ON TOP.
RECOVERED: FT OF: CHLORIDES 9000 PPM.
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:

TIME SET PACKER(S): 1:45 PM TIME STARTED OFF BOTTOM: 4:45 PM
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1054 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 53 PSI TO (C) 53 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 705 PSI
FINAL FLOW PERIOD MIN: 60 (E) 72 PSI TO (F) 85 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 719 PSI
FINAL HYDROSTATIC PRESSURE (H) 1044 PSI

