



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 5915

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1417 K_b Formation Burgess Eff. Pay Ft.

District Augusta Date Sept 6 1980 Customer Order No.

COMPANY NAME Range Oil Co Inc

ADDRESS 240 Page Court, 230 West Douglas Wichita

LEASE AND WELL NO E Smith #1 COUNTY Harvey STATE Ks Sec. 22 Twp. 24S Rge 2E

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

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 2830 ft. to 2865 ft. Total Depth 2865 ft.

Packer Depth 2830 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2825 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2836 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2840 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co tools #1 Drill Collar Length 120 I. D. in.

Mud Type Chern Viscosity 38 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 12.8 cc. Drill Pipe Length 2689 I. D. in.

Chlorides 1500 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make 120 Serial Number Anchor Length 35 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 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Good blow throughout first flow, good blow decreasing second flow Initial Flow Final

Recovered 1640 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slide 5"

On location 12:05 pm, pick up tools 12:30, Job completed

Time Set Packer(s) 2:40 A.M. P.M. Time Started Off Bottom 5:40 A.M. P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure (A) 1431 P.S.I.

Initial Flow Period Minutes 30 (B) 158 P.S.I. to (C) 539 P.S.I.

Initial Closed In Period Minutes 30 (D) 735 P.S.I.

Final Flow Period Minutes 60 (E) 601 P.S.I. to (F) 704 P.S.I.

Final Closed In Period Minutes 60 (G) 735 P.S.I.

Final Hydrostatic Pressure (H) 1370 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 Robert Olsen
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$ 30.00
32 Mileage \$ 24.00
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 604.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-6-80 Test Ticket No. 5915
 Recorder No. 2605 Capacity 4150 Location 2865 Ft.
 Clock No. _____ Elevation 1417 KB Well Temperature 108 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1440</u> P.S.I.		<u>2:40</u> M	
B First Initial Flow Pressure	<u>159</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>35</u> Mins.
C First Final Flow Pressure	<u>556</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>738</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>610</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>719</u> P.S.I.			
G Final Closed-in Pressure	<u>747</u> P.S.I.			
H Final Hydrostatic Mud	<u>1398</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: 11 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>159</u>	0	<u>556</u>	0	<u>610</u>	0	<u>719</u>
P 2 5	<u>203</u>	3	<u>695</u>	5	<u>610</u>	3	<u>730</u>
P 3 10	<u>292</u>	6	<u>707</u>	10	<u>632</u>	6	<u>736</u>
P 4 15	<u>366</u>	9	<u>719</u>	15	<u>647</u>	9	<u>736</u>
P 5 20	<u>436</u>	12	<u>724</u>	20	<u>664</u>	12	<u>737</u>
P 6 25	<u>489</u>	15	<u>728</u>	25	<u>678</u>	15	<u>738</u>
P 7 30	<u>535</u>	18	<u>732</u>	30	<u>690</u>	18	<u>738</u>
P 8 35	<u>556</u>	21	<u>732</u>	35	<u>697</u>	21	<u>740</u>
P 9 40		24	<u>732</u>	40	<u>705</u>	24	<u>740</u>
P 10 45		27	<u>736</u>	45	<u>712</u>	27	<u>742</u>
P 11 50		30	<u>738</u>	50	<u>718</u>	30	<u>742</u>
P 12 55		33		55	<u>719</u>	33	<u>744</u>
P 13 60		36		60		36	<u>745</u>
P 14		39		65		39	<u>745</u>
P 15		42		70		42	<u>746</u>
P 16		45		75		45	<u>747</u>
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	<u>747</u>

Range Oil Company, Inc.

E. Smith #1

Company 1417 Kelly Bushing Burgess Lease & Well No. --- 5915

Elevation Formation Effective Pay Ft. Ticket No.

Date 9/6/80 Sec 22 Twp 24S Range 2E County Harvey State Kansas

Test Approved by Robert Olsen Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 2830 ft. to 2865 ft. Total Depth 2865 ft.

Packer Depth 2830 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2825 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2836 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2840 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Rig #1 Drill Collar Length 120 I. D. - in.

Mud Type chemical Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 12.8 cc. Drill Pipe Length 2689 I. D. in.

Chlorides 1,500 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number - Anchor Length 35 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 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Good blow throughout initial flow; good blow decreasing final flow period.

Recovered 1640 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid five feet.

Time Set Packer(s) 2:40 A.M. P.M. Time Started Off Bottom 5:40 A.M. P.M. Maximum Temperature 108°

Initial Hydrostatic Pressure (A) 1440 P.S.I.

Initial Flow Period Minutes 35 (B) 159 P.S.I. to (C) 556 P.S.I.

Initial Closed In Period Minutes 30 (D) 738 P.S.I.

Final Flow Period Minutes 55 (E) 610 P.S.I. to (F) 719 P.S.I.

Final Closed In Period Minutes 60 (G) 747 P.S.I.

Final Hydrostatic Pressure (H) 1398 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-6-80 Test Ticket No. 5915
 Recorder No. 2605 Capacity 4150 Location 2865 Ft.
 Clock No. - Elevation 1417 Kelly Bushing Well Temperature 108 °F
 Time Given 2:40 Time Computed M

Point	Pressure		
A Initial Hydrostatic Mud	<u>1440</u>	P.S.I.	Open Tool
B First Initial Flow Pressure	<u>159</u>	P.S.I.	First Flow Pressure
C First Final Flow Pressure	<u>556</u>	P.S.I.	Initial Closed-in Pressure
D Initial Closed-in Pressure	<u>738</u>	P.S.I.	Second Flow Pressure
E Second Initial Flow Pressure	<u>610</u>	P.S.I.	Final Closed-in Pressure
F Second Final Flow Pressure	<u>719</u>	P.S.I.	
G Final Closed-in Pressure	<u>747</u>	P.S.I.	
H Final Hydrostatic Mud	<u>1398</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>10</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>159</u>	<u>0</u>	<u>556</u>	<u>0</u>	<u>610</u>	<u>0</u>	<u>719</u>
P 2 <u>5</u>	<u>203</u>	<u>3</u>	<u>695</u>	<u>5</u>	<u>610</u>	<u>3</u>	<u>730</u>
P 3 <u>10</u>	<u>292</u>	<u>6</u>	<u>707</u>	<u>10</u>	<u>632</u>	<u>6</u>	<u>736</u>
P 4 <u>15</u>	<u>366</u>	<u>9</u>	<u>719</u>	<u>15</u>	<u>647</u>	<u>9</u>	<u>736</u>
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P 8 <u>35</u>	<u>556</u>	<u>21</u>	<u>732</u>	<u>35</u>	<u>697</u>	<u>21</u>	<u>740</u>
P 9		<u>24</u>	<u>732</u>	<u>40</u>	<u>705</u>	<u>24</u>	<u>740</u>
P10		<u>27</u>	<u>736</u>	<u>45</u>	<u>712</u>	<u>27</u>	<u>742</u>
P11		<u>30</u>	<u>738</u>	<u>50</u>	<u>718</u>	<u>30</u>	<u>742</u>
P12				<u>55</u>	<u>719</u>	<u>33</u>	<u>744</u>
P13						<u>36</u>	<u>745</u>
P14						<u>39</u>	<u>745</u>
P15						<u>42</u>	<u>746</u>
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						<u>60</u>	<u>747</u>