



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 5238

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

Elevation 1283 KB Formation Miss Eff. Pay - Ft.

District Augusta Date 3-7-80 Customer Order No. -

COMPANY NAME Range Oil Co. Inc

ADDRESS 240 Page Court 220 N. Douglas Wichita, Ks 67202

LEASE AND WELL NO. Klanssen # 1A COUNTY Butler STATE Ks Sec 24 Twp 25 Rge 3E

Mail Invoice To Same Klanssen # 1-A Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2671 ft. to 2684 ft. Total Depth 2684 ft. Packer Depth 2671 ft. Size 6 3/4 in. Packer Depth 2668 ft. Size 6 3/4 in. Packer Depth - ft. Size - in. Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2677 ft. Recorder Number 1561 Cap. 3200 Bottom Recorder Depth (Outside) 2680 ft. Recorder Number 10980 Cap. 4200 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Co # 1 Mud Type Chem Viscosity 43 Weight 10 Water Loss 12.2 cc. Chlorides 1800 P.P.M. Jars: Make - Serial Number - Did Well Flow? Yw Reversed Out Yw Drill Collar Length 245 I. D. 2 1/2 in. Weight Pipe Length - I. D. - in. Drill Pipe Length 2406 I. D. 3.8 in. Test Tool Length 33 ft. Tool Size 4 1/2 in. Anchor Length 13 ft. Size 4 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 3 1/2 in.

Blow: Air thruout test

Recovered 170 ft. of Gas in pipe Recovered 100 ft. of Gassy oil Recovered 60 ft. of Heavy oil & gas cut mud 45% oil 55% mud. Recovered 60 ft. of Oil & gas cut mud 15% oil 85% mud

Remarks:

Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 1:30 A.M. Maximum Temperature 104 Initial Hydrostatic Pressure (A) 1400 P.S.I. Initial Flow Period 30 Minutes (B) 25 P.S.I. to (C) 45 P.S.I. Initial Closed In Period 30 Minutes (D) 730 P.S.I. Final Flow Period 60 Minutes (E) 86 P.S.I. to (F) 110 P.S.I. Final Closed In Period 60 Minutes (G) 730 P.S.I. Final Hydrostatic Pressure (H) 1400 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.

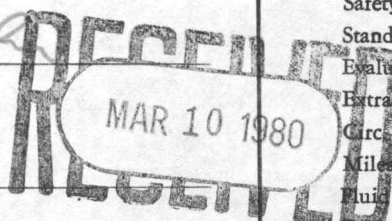
Test Approved By Stephen M. Klanssen Signature of Customer or his authorized representative

Western Representative Norman Allen

FIELD INVOICE

Open Hole Test \$ 500.00 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Fluid Sampler \$ Extra Charts \$

TOTAL \$ 500.00



WESTERN TESTING CO., INC.

Pressure Data

Date 3-7-80 Test Ticket No. 5238  
 Recorder No. 1561 Capacity 3200 Location 2677 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1283 KB Well Temperature 104 °F

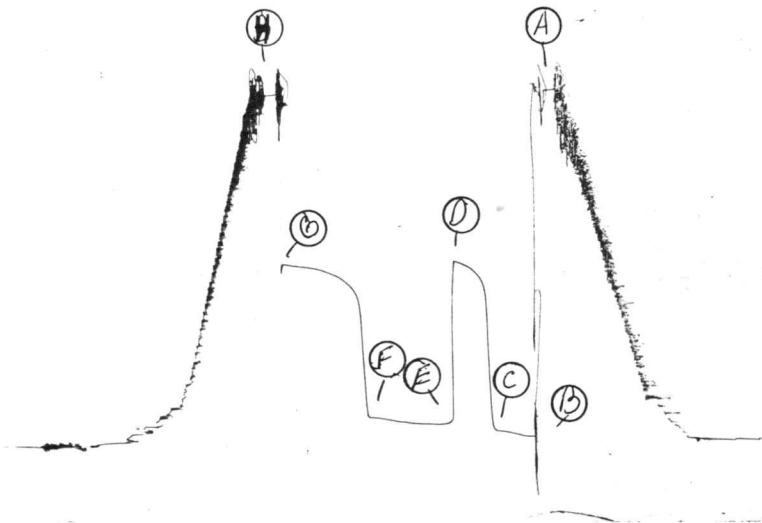
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1422</u>	P.S.I.	<u>10:30 P</u>	
B First Initial Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>45</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>734</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>75</u>	P.S.I.	<u>60</u>	<u>63</u> Mins.
F Second Final Flow Pressure	<u>105</u>	P.S.I.		
G Final Closed-in Pressure	<u>731</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1421</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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	<u>0</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>105</u>
P 2	<u>5</u>	<u>3</u>	<u>152</u>	<u>5</u>	<u>75</u>	<u>3</u>	<u>232</u>
P 3	<u>10</u>	<u>6</u>	<u>385</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>445</u>
P 4	<u>15</u>	<u>9</u>	<u>622</u>	<u>15</u>	<u>74</u>	<u>9</u>	<u>589</u>
P 5	<u>20</u>	<u>12</u>	<u>665</u>	<u>20</u>	<u>75</u>	<u>12</u>	<u>622</u>
P 6	<u>25</u>	<u>15</u>	<u>685</u>	<u>25</u>	<u>76</u>	<u>15</u>	<u>642</u>
P 7	<u>30</u>	<u>18</u>	<u>696</u>	<u>30</u>	<u>80</u>	<u>18</u>	<u>654</u>
P 8	<u>35</u>	<u>21</u>	<u>706</u>	<u>35</u>	<u>83</u>	<u>21</u>	<u>663</u>
P 9	<u>40</u>	<u>24</u>	<u>715</u>	<u>40</u>	<u>88</u>	<u>24</u>	<u>674</u>
P10	<u>45</u>	<u>27</u>	<u>724</u>	<u>45</u>	<u>93</u>	<u>27</u>	<u>685</u>
P11	<u>50</u>	<u>30</u>	<u>734</u>	<u>50</u>	<u>97</u>	<u>30</u>	<u>695</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>	<u>102</u>	<u>33</u>	<u>700</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>105</u>	<u>36</u>	<u>704</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>709</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>713</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>717</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>720</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>722</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>725</u>
P20		<u>57</u>				<u>57</u>	<u>729</u>
		<u>60</u>				<u>60</u>	<u>729</u>
						<u>63</u>	<u>731</u>

TKK# 5238  
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1561



Company Range Oil Company, Inc. Lease & Well No. Klaassen "A" #1  
 Elevation 1283 Kelly Bushing, Mississippi Formation Mississippi Effective Pay ---- Ft. Ticket No. 5238  
 Date 3/7/80 Sec. 24 Twp. 25S Range 3E County Butler State Kansas  
 Test Approved by Stephen M. Kreidler Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2671 ft. to 2684 ft. Total Depth 2684 ft.  
 Packer Depth 2671 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2665 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2677 ft. Recorder Number 1561 Cap. 3200  
 Bottom Recorder Depth (Outside) 2680 ft. Recorder Number 10980 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drlg. Co. Rig #1 Drill Collar Length 245 I. D. 2 1/4 in.  
 Mud Type chemical Viscosity 43 Weight Pipe Length - I. D. - in.  
 Weight 10 Water Loss 12.2 cc. Drill Pipe Length 2406 I. D. 3.8 in.  
 Chlorides 1,800 P.P.M. Test Tool Length 33 ft. Tool Size 4 1/2 OD in.  
 Jars: Make -- Serial Number -- Anchor Length 13 ft. Size 4 1/2 OD 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 3 1/2 IF in.

Fair throughout test.  
 Blow: \_\_\_\_\_

Recovered 170 ft. of gas in pipe  
 Recovered 100 ft. of gassy oil  
 Recovered 60 ft. of heavy oil and gas cut mud (45% oil;55% mud)  
 Recovered 60 ft. of oil and gas cut mud (15% oil;85% mud)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 10:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 ~~A.M.~~ P.M. Maximum Temperature 104°  
 Initial Hydrostatic Pressure ..... (A) 1422 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 21 P.S.I. to (C) 45 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 734 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 75 P.S.I. to (F) 105 P.S.I.  
 Final Closed In Period ..... Minutes 63 (G) 731 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1421 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 3/7/80 Test Ticket No. 5238  
 Recorder No. 1561 Capacity 3200 Location 2677 Ft.  
 Clock No. ----- Elevation 1283 Kelly Bushing Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1422	P.S.I.	10:30P	M
B First Initial Flow Pressure	21	P.S.I.	30	30 Mins.
C First Final Flow Pressure	45	P.S.I.	30	30 Mins.
D Initial Closed-in Pressure	734	P.S.I.	60	60 Mins.
E Second Initial Flow Pressure	75	P.S.I.	60	63 Mins.
F Second Final Flow Pressure	105	P.S.I.		
G Final Closed-in Pressure	731	P.S.I.		
H Final Hydrostatic Mud	1421	P.S.I.		

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In					
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.				
	of	5	mins. and a	final inc. of	0	Min.	of	3	mins. and a	final inc. of	0	Min.
	of	6	mins. and a	final inc. of	0	Min.	of	12	mins. and a	final inc. of	0	Min.
	of	10	mins. and a	final inc. of	0	Min.	of	21	mins. and a	final inc. of	0	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.					
P 1	0	21	0	45	0	75	0	105				
P 2	5	19	3	152	5	75	3	232				
P 3	10	25	6	385	10	72	6	445				
P 4	15	33	9	622	15	74	9	589				
P 5	20	37	12	665	20	75	12	622				
P 6	25	41	15	685	25	76	15	642				
P 7	30	45	18	696	30	80	18	654				
P 8			21	706	35	83	21	663				
P 9			24	715	40	88	24	674				
P10			27	724	45	93	27	685				
P11			30	734	50	97	30	695				
P12					55	102	33	700				
P13					60	105	36	704				
P14					65		39	709				
P15					70		42	713				
P16					75		45	717				
P17							48	720				
P18							51	722				
P19							54	725				
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