



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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET No 5892
Elevation 1442 GL. Formation Conglomerate Eff. Pay _____ Ft.
Gongtens Conglomerate

District Augusta Ka. Date 8-16-80 Customer Order No. _____
COMPANY NAME Range Oil Co. Inc.
ADDRESS 240 Page County - 220 West Douglas, Wichita Ka. 67202
LEASE AND WELL NO. Walter "B" #3 COUNTY Butler STATE Ka. Sec. 9 Twp. 24S Rge. 5E
Mail Invoice To _____ Co. Name _____ Address _____ No. Copies Requested 1
Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2513 ft. to 2537 ft. Total Depth 2537 ft.
Packer Depth 2513 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2508 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2518 ft. Recorder Number 1559 Cap. 4500 PSI
Bottom Recorder Depth (Outside) 2521 ft. Recorder Number 5666 Cap. 3950 PSI
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Range Oil Co. Inc. #1
Mud Type Chen Viscosity 44
Weight 9.8 Water Loss 16 cc.
Chlorides 800 P.P.M.
Jars: Make NO Serial Number _____
Did Well Flow? _____ Reversed Out _____

Drill Collar Length 123 I. D. 2 3/4 in.
Weight Pipe Length _____ I. D. _____ in.
Drill Pipe Length 2368 I. D. 3.8 in.
Test Tool Length 46 ft. Tool Size 5 1/2 in.
Anchor Length 24 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 KH in.

Blow: Initial Flow Period - Weak 15 min dropped off to very weak after 26 minutes
Final Flow - Dead - No slow final flow period.

Recovered 4 ft. of Heavy Oil cut mud (show of oil in top of tool)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: out 4:45 on location changed up 6:40. (Delay caused 40' stem) picked up test
7:20 PM 8-16-80 on bank -

Time Set Packer(s) 8:46 P.M. Time Started Off Bottom 11:30 P.M. Maximum Temperature 116
Initial Hydrostatic Pressure _____ (A) 1273 P.S.I.
Initial Flow Period 30 Minutes (B) 21 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period 45 Minutes (D) 105 P.S.I.
Final Flow Period 30 Minutes (E) 31 P.S.I. to (F) 31 P.S.I.
Final Closed In Period 60 Minutes (G) 105 P.S.I.
Final Hydrostatic Pressure _____ (H) 1252 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. Kreidler
Signature of Customer or his authorized representative

Western Representative Fred [Signature] 18 1980

(day he got finger cut off)

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
30 Mileage X.75 \$ 22.50
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL \$ 572.50

WESTERN TESTING CO., INC.

Pressure Data

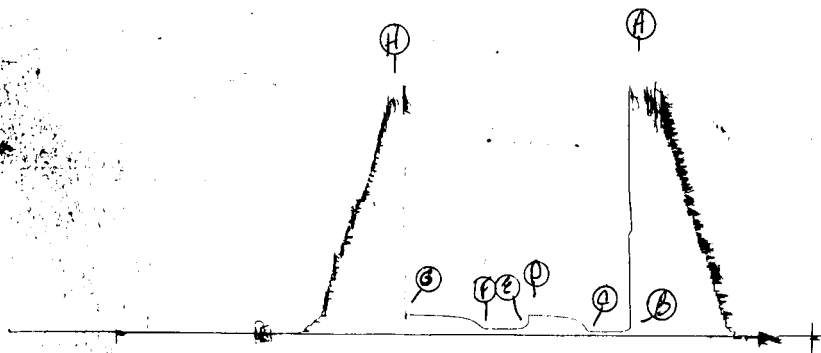
Date 8-16 Recorder No. 1559 Capacity 4200 Location 2518 Ft.
 Clock No. Elevation 1442 Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1275</u> P.S.I.	Open Tool	<u>8:46</u> P.M.	
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>23</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</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>43</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>34</u> P.S.I.			
G Final Closed-in Pressure	<u>108</u> P.S.I.			
H Final Hydrostatic Mud	<u>1257</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a 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>23</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>34</u>
P 2	<u>5</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>56</u>
P 3	<u>10</u>	<u>6</u>	<u>74</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>71</u>
P 4	<u>15</u>	<u>9</u>	<u>86</u>	<u>15</u>	<u> </u>	<u>9</u>	<u>84</u>
P 5	<u>20</u>	<u>12</u>	<u>94</u>	<u>20</u>	<u> </u>	<u>12</u>	<u>88</u>
P 6	<u>25</u>	<u>15</u>	<u>97</u>	<u>25</u>	<u> </u>	<u>15</u>	<u>91</u>
P 7	<u>30</u>	<u>18</u>	<u>101</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>93</u>
P 8	<u>35</u>	<u>21</u>	<u>102</u>	<u>35</u>	<u> </u>	<u>21</u>	<u>95</u>
P 9	<u>40</u>	<u>24</u>	<u>104</u>	<u>40</u>	<u> </u>	<u>24</u>	<u>98</u>
P10	<u>45</u>	<u>27</u>	<u>105</u>	<u>45</u>	<u> </u>	<u>27</u>	<u>100</u>
P11	<u>50</u>	<u>30</u>	<u>106</u>	<u>50</u>	<u> </u>	<u>30</u>	<u>102</u>
P12	<u>55</u>	<u>33</u>	<u>107</u>	<u>55</u>	<u> </u>	<u>33</u>	<u>102</u>
P13	<u>60</u>	<u>36</u>	<u>108</u>	<u>60</u>	<u> </u>	<u>36</u>	<u>103</u>
P14	<u> </u>	<u>39</u>	<u>109</u>	<u>65</u>	<u> </u>	<u>39</u>	<u>104</u>
P15	<u> </u>	<u>42</u>	<u>110</u>	<u>70</u>	<u> </u>	<u>42</u>	<u>104</u>
P16	<u> </u>	<u>45</u>	<u>110</u>	<u>75</u>	<u> </u>	<u>45</u>	<u>105</u>
P17	<u> </u>	<u>48</u>	<u> </u>	<u>80</u>	<u> </u>	<u>48</u>	<u>106</u>
P18	<u> </u>	<u>51</u>	<u> </u>	<u>85</u>	<u> </u>	<u>51</u>	<u>107</u>
P19	<u> </u>	<u>54</u>	<u> </u>	<u>90</u>	<u> </u>	<u>54</u>	<u>108</u>
P20	<u> </u>	<u>57</u>	<u> </u>	<u> </u>	<u> </u>	<u>57</u>	<u>108</u>
	<u> </u>	<u>60</u>	<u> </u>	<u> </u>	<u> </u>	<u>60</u>	<u> </u>

SKT # 5892
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Company Range Oil Company, Inc. Lease & Well No. Walters 'B' #3
 Elevation 1442 Ground Level Formation Conglomerate Effective Pay ---- Ft. Ticket No. 5892
 Date 8/16/80 Sec 9 Twp 24S Range 5E County Butler State Kansas
 Test Approved by Stephen M. Kreidler Western Representative Fred Klaus
 Formation Test No. 1 Interval Tested from 2513 ft. to 2537 ft. Total Depth 2537 ft.
 Packer Depth 2513 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2508 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2518 ft. Recorder Number 1559 Cap. 4200 PSI
 Bottom Recorder Depth (Outside) 2521 ft. Recorder Number 5666 Cap. 3950 PSI
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Range Drlg. Co., Inc. Rig #1 Drill Collar Length 123 I. D. 2 3/4 in.
 Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 16 cc. Drill Pipe Length 2368 I. D. 3.8 in.
 Chlorides 800 P.P.M. Test Tool Length 46 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 24 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 in.

Blow: Initial flow period, weak fifteen minutes dropped off to very weak and died in twenty-six minutes. No blow final flow period.

Recovered 4 ft. of heavy oil cut mud (show of oil in top of tool)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s)	<u>8:46</u>	A.M. P.M.	Time Started Off Bottom	<u>11:30</u>	A.M. P.M.	Maximum Temperature	<u>116°</u>
Initial Hydrostatic Pressure			(A)	<u>1275</u>	P.S.I.		
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>35</u>	P.S.I. to (C)	<u>23</u>	P.S.I.
Initial Closed In Period	Minutes	<u>45</u>	(D)	<u>110</u>	P.S.I.		
Final Flow Period	Minutes	<u>30</u>	(E)	<u>43</u>	P.S.I. to (F)	<u>34</u>	P.S.I.
Final Closed In Period	Minutes	<u>57</u>	(G)	<u>108</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>1257</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 8/16/80 Test Ticket No. 5892
 Recorder No. 1559 Capacity 4200 Location 2518 Ft.
 Clock No. - Elevation 1442 Ground Level Well Temperature 116 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1275 P.S.I. Open Tool 8:46P M
 B First Initial Flow Pressure 35 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 23 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 110 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 E Second Initial Flow Pressure 43 P.S.I. Final Closed-in Pressure 60 Mins. 57 Mins.
 F Second Final Flow Pressure 34 P.S.I.
 G Final Closed-in Pressure 108 P.S.I.
 H Final Hydrostatic Mud 1257 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>19</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>35</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>46</u>	<u>3</u>	<u>56</u>
P 3 <u>10</u>	<u>23</u>	<u>6</u>	<u>74</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>71</u>
P 4 <u>15</u>	<u>23</u>	<u>9</u>	<u>86</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>84</u>
P 5 <u>20</u>	<u>23</u>	<u>12</u>	<u>94</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>88</u>
P 6 <u>25</u>	<u>23</u>	<u>15</u>	<u>97</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>91</u>
P 7 <u>30</u>	<u>23</u>	<u>18</u>	<u>101</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>93</u>
P 8		<u>21</u>	<u>102</u>			<u>21</u>	<u>95</u>
P 9		<u>24</u>	<u>104</u>			<u>24</u>	<u>98</u>
P10		<u>27</u>	<u>105</u>			<u>27</u>	<u>100</u>
P11		<u>30</u>	<u>106</u>			<u>30</u>	<u>102</u>
P12		<u>33</u>	<u>107</u>			<u>33</u>	<u>102</u>
P13		<u>36</u>	<u>108</u>			<u>36</u>	<u>103</u>
P14		<u>39</u>	<u>109</u>			<u>39</u>	<u>104</u>
P15		<u>42</u>	<u>110</u>			<u>42</u>	<u>104</u>
P16		<u>45</u>	<u>110</u>			<u>45</u>	<u>105</u>
P17						<u>48</u>	<u>106</u>
P18						<u>51</u>	<u>107</u>
P19						<u>54</u>	<u>108</u>
P20						<u>57</u>	<u>108</u>



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 6521

Ground Level
Elevation 1442 C.L. Formation MISSISSIPPI Eff. Pay Ft.

District GREAT BEND Date 8/17/80 Customer Order No.
COMPANY NAME RANIER Oil Co., Inc.
ADDRESS 220 W. DOUGLAS, 240 Page Court WICHITA, KS 67202
LEASE AND WELL NO. WILKINS B#3 COUNTY BUTLER STATE KS Sec. 9 Twp. 24S Rge. 5E
Mail Invoice To Co. Name SAME AS ABOVE Address No. Copies Requested 5
Mail Charts To Co. Name SAME AS ABOVE Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 2539 ft. to 2557 ft. Total Depth 2557 ft.
Packer Depth 2534 ft. Size 6 3/4 in. Packer Depth 2539 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2541 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 2544 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Co. Tools Rig # 1 Drill Collar Length 90' I. D. 2.2 in.
Mud Type 11500000 Viscosity 36 Weight Pipe Length I. D. in.
Weight 9.7 Water Loss 15.2 cc. Drill Pipe Length 2428 I. D. 3.8 in.
Chlorides 14000 P.P.M. Test Tool Length 21' ft. Tool Size 4 1/2 in.
Jars: Make Serial Number Anchor Length 18' ft. Size 5 1/2 in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 1/2 in. Tool Joint Size 4 1/2 in.

Blow: 1st LEHR BLOW REQUIRED TO FIRM BLOW 2 TO 3 1/2 in bucket
2nd LEHR BLOW REQUIRED TO FIRM BLOW 2 TO 3 1/2 in bucket
Recovered 25 ft. of Free oil
Recovered 60 ft. of OIL CAPS and 15% oil 10% water 75% mud
Recovered 90 ft. of SLOTTED 4 1/2 in oil 5 1/2 in water 40% mud
Recovered ft. of Slightly Oil Cut Muddy Water
Recovered ft. of CHLORIDES 12,000
Remarks:

PERSON RECORD 8/17/80
Time Set Packer(s) 6:25 AM P.M. Time Started Off Bottom 9:40 AM P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1286 P.S.I.
Initial Flow Period Minutes 58 (B) 58 P.S.I. to (C) 58 P.S.I.
Initial Closed In Period Minutes 45 (D) 481 P.S.I.
Final Flow Period Minutes 60 (E) 82 P.S.I. to (F) 82 P.S.I.
Final Closed In Period Minutes 60 (G) 469 P.S.I.
Final Hydrostatic Pressure (H) 1239 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 Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test \$ 550.00
Misc. \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 1.1 \$
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 550.06

WESTERN TESTING CO., INC.

Pressure Data

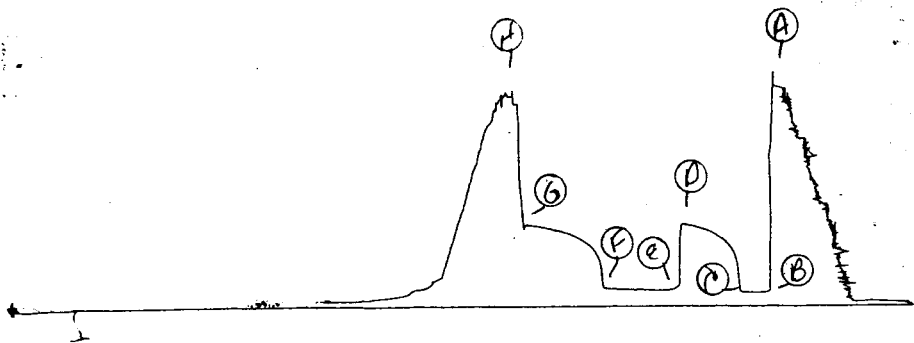
Date 8-17-80 Test Ticket No. 6521
 Recorder No. 10266 Capacity 4650 Location 2541 Ft.
 Clock No. _____ Elevation 1442 SL Well Temperature 100 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1314</u> P.S.I.	<u>6:25 P M</u>	
B First Initial Flow Pressure	<u>95</u> P.S.I.	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>92</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>511</u> P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>111</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>115</u> P.S.I.		
G Final Closed-in Pressure	<u>505</u> P.S.I.		
H Final Hydrostatic Mud	<u>1228</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>15</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 0	<u>95</u>	0	<u>92</u>	0	<u>111</u>	0	<u>115</u>
P 2 5	<u>92</u>	3	<u>291</u>	5	<u>108</u>	3	<u>284</u>
P 3 10		6	<u>352</u>	10	<u>106</u>	6	<u>331</u>
P 4 15		9	<u>383</u>	15	<u>106</u>	9	<u>369</u>
P 5 20	<u>92</u>	12	<u>406</u>	20	<u>106</u>	12	<u>387</u>
P 6 25		15	<u>427</u>	25	<u>108</u>	15	<u>406</u>
P 7 30		18	<u>444</u>	30	<u>110</u>	18	<u>420</u>
P 8 35		21	<u>458</u>	35	<u>110</u>	21	<u>434</u>
P 9 40		24	<u>472</u>	40	<u>110</u>	24	<u>446</u>
P10 45		27	<u>479</u>	45	<u>115</u>	27	<u>453</u>
P11 50		30	<u>488</u>	50	<u>115</u>	30	<u>462</u>
P12 55		33	<u>495</u>	55	<u>115</u>	33	<u>467</u>
P13 60		36	<u>500</u>	60		36	<u>474</u>
P14		39	<u>507</u>	65		39	<u>481</u>
P15		42	<u>511</u>	70		42	<u>488</u>
P16		45	<u>511</u>	75		45	<u>493</u>
P17		48		80		48	<u>495</u>
P18		51		85		51	<u>498</u>
P19		54		90		54	<u>501</u>
P20		57				57	<u>503</u>
		60				60	<u>505</u>

314 #6521
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Company Range Oil Company, Inc. Lease & Well No. Walters 'B' #3
 Elevation 1442 Ground Level Mississippi Formation Effective Pay - Ft. Ticket No. 6521
 Date 8/17/80 Sec. 9 Twp. 24S Range 5E County Butler State Kansas
 Test Approved by Steve Keidler Western Representative Darrell Claphan
 Formation Test No. 2 Interval Tested from 2539 ft. to 2557 ft. Total Depth 2557 ft.
 Packer Depth 2534 ft. Size 6 3/4 in. Packer Depth 2539 ft. Size 6 3/4 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2541 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 2544 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Range Drilling Co. Rig #1 Drill Collar Length 90 I. D. 2.2 in.
 Mud Type magcobar Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 15.2 cc. Drill Pipe Length 2428 I. D. 3.8 in.
 Chlorides 11,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 18 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 in.

Blow: Initial flow period weak blow building to fair blow; one half inch to three and one half inches in bucket. Final flow period weak blow building to good blow one half inch to seven and one half inches in bucket.

Recovered 25 ft. of free oil 41 gravity
 Recovered 60 ft. of oil cut mud (15% oil; 10% water; 75% mud)
 Recovered 90 ft. of slightly oil cut muddy water (4% oil; 54% water; 40% mud)
 Recovered - ft. of -

Remarks: Chlorides 12,000 ppm

Time Set Packer(s) 6:25 ~~AM~~ P.M. Time Started Off Bottom 9:40 ~~AM~~ P.M. Maximum Temperature 100°
 Initial Hydrostatic Pressure 1314 P.S.I.
 Initial Flow Period 20 Minutes (B) 95 P.S.I. to (C) 92 P.S.I.
 Initial Closed In Period 45 Minutes (D) 511 P.S.I.
 Final Flow Period 55 Minutes (E) 111 P.S.I. to (F) 115 P.S.I.
 Final Closed In Period 60 Minutes (G) 505 P.S.I.
 Final Hydrostatic Pressure 1228 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 8-17-80 Test Ticket No. 6521
Recorder No. 10266 Capacity 4650 Location 2541 Ft.
Clock No. ----- Elevation 1442 Ground Level Well Temperature 100 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1314</u> P.S.I.	<u>6:25</u> P. M.	
B First Initial Flow Pressure	<u>95</u> P.S.I.	<u>30</u> Mins	<u>20</u> Mins.
C First Final Flow Pressure	<u>92</u> P.S.I.	<u>45</u> Mins	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>511</u> P.S.I.	<u>60</u> Mins	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>111</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>115</u> P.S.I.		
G Final Closed-in Pressure	<u>505</u> P.S.I.		
H Final Hydrostatic Mud	<u>1228</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>15</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>95</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>111</u>	<u>0</u>	<u>115</u>
P 2 <u>5</u>	<u>92</u>	<u>3</u>	<u>291</u>	<u>5</u>	<u>108</u>	<u>3</u>	<u>284</u>
P 3 <u>10</u>	<u>92</u>	<u>6</u>	<u>352</u>	<u>10</u>	<u>106</u>	<u>6</u>	<u>331</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>383</u>	<u>15</u>	<u>106</u>	<u>9</u>	<u>369</u>
P 5 <u>20</u>	<u>92</u>	<u>12</u>	<u>406</u>	<u>20</u>	<u>106</u>	<u>12</u>	<u>387</u>
P 6		<u>15</u>	<u>427</u>	<u>25</u>	<u>108</u>	<u>15</u>	<u>406</u>
P 7		<u>18</u>	<u>444</u>	<u>30</u>	<u>110</u>	<u>18</u>	<u>420</u>
P 8		<u>21</u>	<u>458</u>	<u>35</u>	<u>110</u>	<u>21</u>	<u>434</u>
P 9		<u>24</u>	<u>472</u>	<u>40</u>	<u>110</u>	<u>24</u>	<u>446</u>
P10		<u>27</u>	<u>479</u>	<u>45</u>	<u>115</u>	<u>27</u>	<u>453</u>
P11		<u>30</u>	<u>488</u>	<u>50</u>	<u>115</u>	<u>30</u>	<u>462</u>
P12		<u>33</u>	<u>495</u>	<u>55</u>	<u>115</u>	<u>33</u>	<u>467</u>
P13		<u>36</u>	<u>500</u>			<u>36</u>	<u>474</u>
P14		<u>39</u>	<u>507</u>			<u>39</u>	<u>481</u>
P15		<u>42</u>	<u>511</u>			<u>42</u>	<u>488</u>
P16		<u>45</u>	<u>511</u>			<u>45</u>	<u>193</u>
P17						<u>48</u>	<u>395</u>
P18						<u>51</u>	<u>498</u>
P19						<u>54</u>	<u>501</u>
P20						<u>57</u>	<u>503</u>
						<u>60</u>	<u>505</u>



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 6522

Elevation 1442 G.L. Formation MISSISSIPPI Eff. Pay Ft.

District GREATER BEND Date 8/18/80 Customer Order No.
COMPANY NAME RANGE Oil Co. Inc.

ADDRESS 220 W. DOUGLASS, 240 N. C. WICHITA KS 67202

LEASE AND WELL NO. WALTERS B#3 COUNTY BUTLER STATE KS Sec. 9 Twp. 24S Rge. 5E

Mail Invoice To SAME AS ABOVE No. Copies Requested 5
Co. Name Address

Mail Charts To SAME AS ABOVE No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested from 2557 ft. to 2577 ft. Total Depth 2577 ft.
Packer Depth 2552 ft. Size 6 3/4 in. Packer Depth 2557 ft. Size 6 3/4 in.
Packer Depth ft. Size in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2562 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 2559 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co. Tools Rq #1 Drill Collar Length 90' I. D. 2.2 in.
Mud Type MAGGOKAR Viscosity 46 Weight 9.9 Water Loss 15.2 cc. I. D. 3.8 in.
Weight 16,000 P.P.M. Drill Pipe Length 2446 I. D. 4 1/2 in.
Chlorides 16,000 P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 in.
Jars: Make Serial Number Anchor Length 20' 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 1/8 in. Tool Joint Size 4 1/2 in.

Blow: 1st WEAK BUILDING TO GOOD BLOW 1/2" TO 7 1/2" in bucket
2nd WEAK BUILDING TO GOOD BLOW 1/2" TO 9" in bucket

Recovered 20' ft. of Free oil 41 gals
Recovered 55' ft. of Oil & muddy water 10% oil 1280 min 62% water
Recovered 120' ft. of Muddy water 31% oil 69% water
Recovered ft. of
Recovered ft. of
Remarks: Chloride 14000

Time Set Packer(s) 11.10 A.M. Time Started Off Bottom 2:20 A.M. Maximum Temperature 13.4
Initial Hydrostatic Pressure (A) 1309 P.S.I.
Initial Flow Period Minutes 30 (B) 78 P.S.I. to (C) 93 P.S.I.
Initial Closed In Period Minutes 45 (D) 528 P.S.I.
Final Flow Period Minutes 60 (E) 105 P.S.I. to (F) 127 P.S.I.
Final Closed In Period Minutes 60 (G) 528 P.S.I.
Final Hydrostatic Pressure (H) 1274 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 Signature of Customer or his authorized representative

Western Representative Daniel Chapman

FIELD INVOICE

Open Hole Test \$ 550.00
Mistrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage NK \$
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 8-18-80

Test Ticket No. 6522

Recorder No. 10266

Capacity 4650

Location 2562 Ft.

Clock No. _____ Elevation 1442 8.2

Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1319</u>	P.S.I.	<u>11:10</u>	M
B First Initial Flow Pressure	<u>113</u>	P.S.I.	<u>30</u>	Mins. <u>20</u> Mins.
C First Final Flow Pressure	<u>108</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
D Initial Closed-in Pressure	<u>549</u>	P.S.I.	<u>60</u>	Mins. <u>55</u> Mins.
E Second Initial Flow Pressure	<u>148</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
F Second Final Flow Pressure	<u>146</u>	P.S.I.		
G Final Closed-in Pressure	<u>542</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1293</u>	P.S.I.		

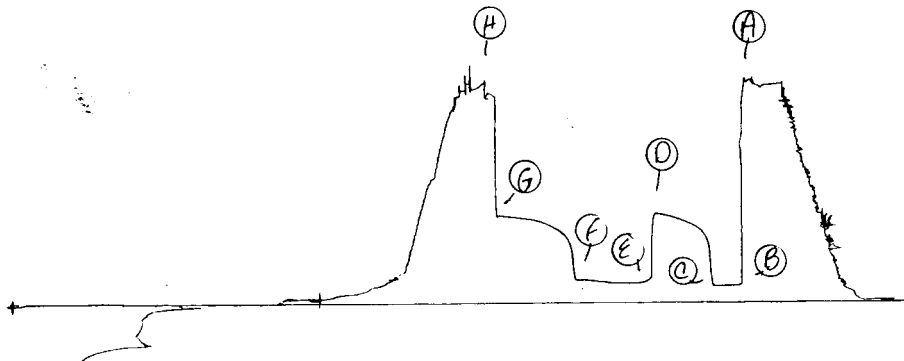
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>15</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 0	<u>113</u>	0	<u>108</u>	0	<u>148</u>	0	<u>146</u>
P 2 5	<u>110</u>	3	<u>352</u>	5	<u>129</u>	3	<u>216</u>
P 3 10	<u>109</u>	6	<u>411</u>	10	<u>124</u>	6	<u>394</u>
P 4 15	<u>108</u>	9	<u>446</u>	15	<u>127</u>	9	<u>420</u>
P 5 20	<u>108</u>	12	<u>467</u>	20	<u>127</u>	12	<u>446</u>
P 6 25		15	<u>481</u>	25	<u>127</u>	15	<u>458</u>
P 7 30		18	<u>493</u>	30	<u>129</u>	18	<u>473</u>
P 8 35		21	<u>505</u>	35	<u>136</u>	21	<u>486</u>
P 9 40		24	<u>512</u>	40	<u>141</u>	24	<u>495</u>
P10 45		27	<u>522</u>	45	<u>145</u>	27	<u>505</u>
P11 50		30	<u>528</u>	50	<u>146</u>	30	<u>512</u>
P12 55		33	<u>537</u>	55	<u>146</u>	33	<u>519</u>
P13 60		36	<u>542</u>	60		36	<u>522</u>
P14		39	<u>548</u>	65		39	<u>525</u>
P15		42	<u>549</u>	70		42	<u>528</u>
P16		45	<u>549</u>	75		45	<u>530</u>
P17		48		80		48	<u>533</u>
P18		51		85		51	<u>536</u>
P19		54		90		54	<u>538</u>
P20		57				57	<u>540</u>
		60				60	<u>542</u>

10266

SK # 6522

I



Company Range Oil Company, Inc. Lease & Well No. Walters 'B' #3
Elevation 1442 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 6522
Date 8/18/80 Sec. 9 Twp 24S Range 5E County Butler State Kansas
Test Approved by Stephen M. Kreidler Western Representative Darrell Claphan
Formation Test No. 3 Interval Tested from 2557 ft. to 2577 ft. Total Depth 2577 ft.
Packer Depth 2552 ft. Size 6 3/4 in. Packer Depth 2557 ft. Size 6 3/4 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2562 ft. Recorder Number 10266 Cap. 4650
Bottom Recorder Depth (Outside) 2559 ft. Recorder Number 6233 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Range Drilling Co. Rig #1 Drill Collar Length 90 I. D. 2.2 in.
Mud Type Magcobar Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.9 Water Loss 15.2 cc. Drill Pipe Length 2446 I. D. 3.8 in.
Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 20 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 in.

Blow: Initial flow period weak building to good blow one half inch to seven and one half inches
in bucket. Final flow period, weak building to good blow one half inch to nine inches
in bucket.

Recovered 20 ft. of free oil 41 gravity
Recovered 55 ft. of oil cut muddy water 10% oil; 28% mud; 62% water
Recovered 120 ft. of muddy water 31% mud; 69% water
Recovered - ft. of Chlorides 19,000 ppm
Recovered - ft. of Top and Bottom.

Remarks:

Time Set Packer(s) 11:10 A.M. Time Started Off Bottom 2:25 A.M. Maximum Temperature 101°
P.M. P.M.
Initial Hydrostatic Pressure (A) 1319 P.S.I.
Initial Flow Period Minutes 20 (B) 113 P.S.I. to (C) 108 P.S.I.
Initial Closed In Period Minutes 45 (D) 549 P.S.I.
Final Flow Period Minutes 55 (E) 148 P.S.I. to (F) 146 P.S.I.
Final Closed In Period Minutes 60 (G) 542 P.S.I.
Final Hydrostatic Pressure (H) 1293 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-18-80 Test Ticket No. 6522
 Recorder No. 10266 Capacity 4650 Location 2562 Ft.
 Clock No. ----- Elevation 1442 Ground Level Well Temperature 101 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1319</u> P.S.I.	<u>11:10</u> M	
B First Initial Flow Pressure	<u>113</u> P.S.I.	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>108</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>549</u> P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>148</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>146</u> P.S.I.		
G Final Closed-in Pressure	<u>542</u> P.S.I.		
H Final Hydrostatic Mud	<u>1293</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>15</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>113</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>148</u>	<u>0</u>	<u>146</u>
P 2 <u>5</u>	<u>110</u>	<u>3</u>	<u>352</u>	<u>5</u>	<u>129</u>	<u>3</u>	<u>216</u>
P 3 <u>10</u>	<u>109</u>	<u>6</u>	<u>411</u>	<u>10</u>	<u>124</u>	<u>6</u>	<u>394</u>
P 4 <u>15</u>	<u>108</u>	<u>9</u>	<u>446</u>	<u>15</u>	<u>127</u>	<u>9</u>	<u>420</u>
P 5 <u>20</u>	<u>108</u>	<u>12</u>	<u>467</u>	<u>20</u>	<u>127</u>	<u>12</u>	<u>446</u>
P 6		<u>15</u>	<u>481</u>	<u>25</u>	<u>127</u>	<u>15</u>	<u>458</u>
P 7		<u>18</u>	<u>493</u>	<u>30</u>	<u>129</u>	<u>18</u>	<u>473</u>
P 8		<u>21</u>	<u>505</u>	<u>35</u>	<u>136</u>	<u>21</u>	<u>486</u>
P 9		<u>24</u>	<u>512</u>	<u>40</u>	<u>141</u>	<u>24</u>	<u>495</u>
P10		<u>27</u>	<u>522</u>	<u>45</u>	<u>145</u>	<u>27</u>	<u>505</u>
P11		<u>30</u>	<u>528</u>	<u>50</u>	<u>146</u>	<u>30</u>	<u>512</u>
P12		<u>33</u>	<u>537</u>	<u>55</u>	<u>146</u>	<u>33</u>	<u>519</u>
P13		<u>36</u>	<u>542</u>			<u>36</u>	<u>522</u>
P14		<u>39</u>	<u>548</u>			<u>39</u>	<u>525</u>
P15		<u>42</u>	<u>549</u>			<u>42</u>	<u>528</u>
P16		<u>45</u>	<u>549</u>			<u>45</u>	<u>530</u>
P17						<u>48</u>	<u>533</u>
P18						<u>51</u>	<u>536</u>
P19						<u>54</u>	<u>538</u>
P20						<u>57</u>	<u>540</u>
						<u>60</u>	<u>542</u>