



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5867

Elevation _____ Formation MISS Eff. Pay _____ Ft.

District A49457 Date 7-28-80 Customer Order No. _____

COMPANY NAME RANGE OIL CO. INC.

ADDRESS 240 Page Court 220 W. 1st St. WICHITA, KS

LEASE AND WELL NO. Mellor #1 COUNTY BUTLER STATE KS. Sec. 1 Twp. 24S Rge. 3E

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

Mail Charts To SAME Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested from 2499 ft. to 2515 ft. Total Depth 2515 ft.

Packer Depth 2499 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2494 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2503 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2506 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor RANGE OIL CO. INC. Drill Collar Length 120 I. D. 2.25 in.

Mud Type CHEMICAL Viscosity 34 Weight Pipe Length _____ I. D. _____ in.

Weight 9.8 Water Loss 18.4 cc. Drill Pipe Length 2355 I. D. 3.25 in.

Chlorides 1300 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make NO Serial Number _____ Anchor Length 16 ft. Size 4 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 X 1 1/2 in.

Blow: Went Dried in 15 mins

Recovered 0 ft. of MISS RUN Picked Tool

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: On loc. 9:45 PM

Time Set Packer(s) 12:15 AM Time Started Off Bottom 2:45 AM Maximum Temperature 101

Initial Hydrostatic Pressure _____ (A) 1269 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 21 P.S.I. to (C) 777 FALSE P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 808 P.S.I.

Final Flow Period _____ Minutes 30 (E) 704 P.S.I. to (F) 787 FALSE P.S.I.

Final Closed In Period _____ Minutes 60 (G) 798 P.S.I.

Final Hydrostatic Pressure _____ (H) 1223 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 James Ricketts
Signature of Customer or his authorized representative

Western Representative James Ricketts

FIELD INVOICE

Open Hole Test \$ 300.00
Misrun \$ 300.00
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage 28 \$ 21.00
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL

\$ 321.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-28-80 Test Ticket No. 5867
 Recorder No. 2605 Capacity 4150 Location 2503 Ft.
 Clock No. Elevation Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1265</u> P.S.I.	Open Tool	<u>12:15</u> A.M.	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>775</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>802</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>707</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>796</u> P.S.I.			
G Final Closed-in Pressure	<u>803</u> P.S.I.			
H Final Hydrostatic Mud	<u>1224</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.

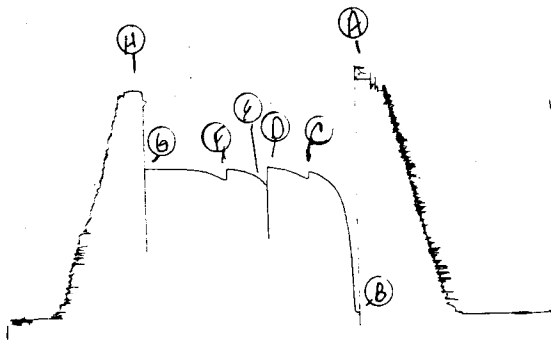
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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>8</u>	0	<u>775</u>	0	<u>707</u>	0	<u>796</u>
P 2 5	<u>224</u>	3	<u>742</u>	5	<u>743</u>	3	<u>743</u>
P 3 10	<u>554</u>	6	<u>752</u>	10	<u>765</u>	6	<u>755</u>
P 4 15	<u>647</u>	9	<u>764</u>	15	<u>780</u>	9	<u>765</u>
P 5 20	<u>702</u>	12	<u>772</u>	20	<u>788</u>	12	<u>773</u>
P 6 25	<u>736</u>	15	<u>782</u>	25	<u>794</u>	15	<u>781</u>
P 7 30	<u>761</u>	18	<u>788</u>	30	<u>796</u>	18	<u>786</u>
P 8 35	<u>775</u>	21	<u>794</u>	35		21	<u>790</u>
P 9 40		24	<u>798</u>	40		24	<u>793</u>
P 10 45		27	<u>801</u>	45		27	<u>796</u>
P 11 50		30	<u>802</u>	50		30	<u>797</u>
P 12 55		33		55		33	<u>798</u>
P 13 60		36		60		36	<u>799</u>
P 14		39		65		39	<u>800</u>
P 15		42		70		42	<u>800</u>
P 16		45		75		45	<u>801</u>
P 17		48		80		48	<u>801</u>
P 18		51		85		51	<u>802</u>
P 19		54		90		54	<u>802</u>
P 20		57				57	<u>803</u>
		60				60	<u>803</u>

NK # 5867

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NK # 5867

Company Range Oil Company, Inc. Lease & Well No. Mellor #1

Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 5867

Date 7-28-80 Sec. 1 Twp. 24S Range 3E County Butler State Kansas

Test Approved by Joe M. Baker Western Representative James Ricketts

Formation Test No. 1 Interval Tested from 2499 ft. to 2515 ft. Total Depth 2515 ft.

Packer Depth 2499 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Packer Depth 2494 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 2503 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2505 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor Range Drilling Co. Rig #1 Drill Collar Length 120 I. D. 2.25 in.

Mud Type Chemical Viscosity 34 Weight Pipe Length ----- I. D. ----- in.

Weight 9.8 Water Loss 18.4 cc. Drill Pipe Length 2355 I. D. 3.25 in.

Chlorides 1300 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make No Serial Number ----- Anchor Length 16 ft. Size 4 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 X.H. in.

Blow: Weak blow - died in 15 minutes

Recovered 0 ft. of Missrun Plugged Tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:15 ^{A.M.}_{P.M.} Time Started Off Bottom 2:45 ^{A.M.}_{P.M.} Maximum Temperature 101

Initial Hydrostatic Pressure (A) 1265 P.S.I.

Initial Flow Period Minutes 35 (B) 8 P.S.I. to (C) 775 P.S.I.

Initial Closed In Period Minutes 30 (D) 802 P.S.I.

Final Flow Period Minutes 30 (E) 707 P.S.I. to (F) 796 P.S.I.

Final Closed In Period Minutes 60 (G) 803 P.S.I.

Final Hydrostatic Pressure (H) 1224 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date: 7-28-80 Test Ticket No. 5867
 Recorder No. 2605 Capacity 4150 Location 2503 Ft.
 Clock No. ----- Elevation ----- Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1265</u> P.S.I.	Open Tool	<u>12:15</u> A. M.	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>775</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>802</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>707</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>796</u> P.S.I.			
G Final Closed-in Pressure	<u>803</u> P.S.I.			
H Final Hydrostatic Mud	<u>1224</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>6</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>8</u>	<u>0</u>	<u>775</u>	<u>0</u>	<u>707</u>	<u>0</u>	<u>796</u>
P 2 <u>5</u>	<u>224</u>	<u>3</u>	<u>742</u>	<u>5</u>	<u>743</u>	<u>3</u>	<u>743</u>
P 3 <u>10</u>	<u>554</u>	<u>6</u>	<u>752</u>	<u>10</u>	<u>765</u>	<u>6</u>	<u>755</u>
P 4 <u>15</u>	<u>647</u>	<u>9</u>	<u>764</u>	<u>15</u>	<u>780</u>	<u>9</u>	<u>765</u>
P 5 <u>20</u>	<u>702</u>	<u>12</u>	<u>772</u>	<u>20</u>	<u>788</u>	<u>12</u>	<u>773</u>
P 6 <u>25</u>	<u>736</u>	<u>15</u>	<u>782</u>	<u>25</u>	<u>794</u>	<u>15</u>	<u>781</u>
P 7 <u>30</u>	<u>761</u>	<u>18</u>	<u>788</u>	<u>30</u>	<u>796</u>	<u>18</u>	<u>786</u>
P 8 <u>35</u>	<u>775</u>	<u>21</u>	<u>794</u>			<u>21</u>	<u>790</u>
P 9		<u>24</u>	<u>798</u>			<u>24</u>	<u>793</u>
P10		<u>27</u>	<u>801</u>			<u>27</u>	<u>796</u>
P11		<u>30</u>	<u>802</u>			<u>30</u>	<u>797</u>
P12						<u>33</u>	<u>798</u>
P13						<u>36</u>	<u>799</u>
P14						<u>39</u>	<u>800</u>
P15						<u>42</u>	<u>800</u>
P16						<u>45</u>	<u>801</u>
P17						<u>48</u>	<u>801</u>
P18						<u>51</u>	<u>802</u>
P19						<u>54</u>	<u>802</u>
P20						<u>57</u>	<u>803</u>
						<u>60</u>	<u>803</u>



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 5868

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

Elevation _____ Formation MISS Eff. Pay _____ Ft.

District August Date 7-28-80 Customer Order No. _____

COMPANY NAME RANGE Oil Co., Inc.

ADDRESS 240 Page Court 220 W. 1st St. Wichita KS

LEASE AND WELL NO. Mellor #1 COUNTY Butler STATE KS Sec. 1 Twp. 24S Rge 3E

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

Mail Charts To SAME Co. Name _____ Address _____ No. Copies Requested _____

Formation Test No. 2 Interval Tested from 2502 ft. to 2515 ft. Total Depth 2515 ft.

Packer Depth 2502 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2497 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2500 ft. Recorder Number 2605 Cap 4150

Bottom Recorder Depth (Outside) 2503 ft. Recorder Number 10980 Cap 4200

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

Drilling Contractor RANGE OIL Rig #1 Drill Collar Length 120 I. D. 2.25 in.

Mud Type CHEMICAL Viscosity 48 Weight Pipe Length _____ I. D. _____ in.

Weight 9.8 Water Loss 18.4 cc. Drill Pipe Length 2352 I. D. 3.25 in.

Chlorides 1300 P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make NO Serial Number NO Anchor Length 13 ft. Size 4 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: NO Blow Flushed Tool Blowed for 25 mins Very Weak

NO Blow FINAL Flow Flushed Tool Blowed Very Weak 40 mins Flushed Tool Blowed

Recovered 20 ft. of Mad Few Oil Spots

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 10:20 A.M. P.M. Time Started Off Bottom 150 P.M. Maximum Temperature 101

Initial Hydrostatic Pressure _____ (A) 1280 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 0 P.S.I. to (C) 0 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 632 P.S.I.

Final Flow Period _____ Minutes 90 (E) 0 P.S.I. to (F) 0 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 663 P.S.I.

Final Hydrostatic Pressure _____ (H) 1264 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 James R. Ricketts
Signature of Customer or his authorized representative

Western Representative James R. Ricketts

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 \$

TOTAL \$550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-28-80 Test Ticket No. 5868
 Recorder No. 2605 Capacity 4150 Location 2500 Ft.
 Clock No. _____ Elevation _____ Well Temperature 101 °F

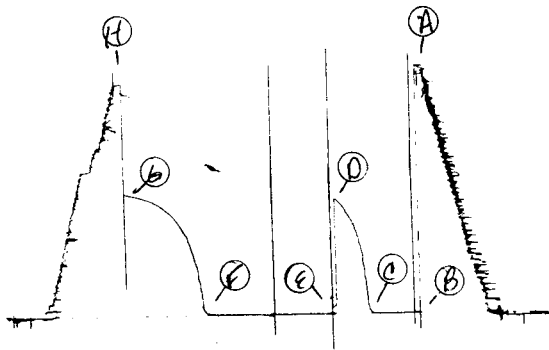
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1298</u> P.S.I.	<u>10:20</u> AM	
B First Initial Flow Pressure	<u>4</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>4</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>630</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>4</u> P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>4</u> P.S.I.		
G Final Closed-in Pressure	<u>661</u> P.S.I.		
H Final Hydrostatic Mud	<u>1250</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>9</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>22</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>4</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>4</u>
P 2 <u>5</u>		<u>3</u>	<u>91</u>	<u>5</u>	<u>Flushed Tool</u>	<u>3</u>	<u>6</u>
P 3 <u>10</u>		<u>6</u>	<u>225</u>	<u>10</u>		<u>6</u>	<u>23</u>
P 4 <u>15</u>		<u>9</u>	<u>392</u>	<u>15</u>		<u>9</u>	<u>176</u>
P 5 <u>20</u>		<u>12</u>	<u>468</u>	<u>20</u>		<u>12</u>	<u>282</u>
P 6 <u>25</u>		<u>15</u>	<u>517</u>	<u>25</u>		<u>15</u>	<u>354</u>
P 7 <u>30</u>	<u>4</u>	<u>18</u>	<u>550</u>	<u>30</u>		<u>18</u>	<u>428</u>
P 8 <u>35</u>		<u>21</u>	<u>583</u>	<u>35</u>		<u>21</u>	<u>460</u>
P 9 <u>40</u>		<u>24</u>	<u>612</u>	<u>40</u>		<u>24</u>	<u>496</u>
P10 <u>45</u>		<u>27</u>	<u>630</u>	<u>45</u>	<u>4</u>	<u>27</u>	<u>529</u>
P11 <u>50</u>		<u>30</u>		<u>50</u>	<u>Flushed Tool</u>	<u>30</u>	<u>552</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>567</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>577</u>
P14 _____		<u>39</u>		<u>65</u>		<u>39</u>	<u>592</u>
P15 _____		<u>42</u>		<u>70</u>		<u>42</u>	<u>611</u>
P16 _____		<u>45</u>		<u>75</u>		<u>45</u>	<u>624</u>
P17 _____		<u>48</u>		<u>80</u>		<u>48</u>	<u>631</u>
P18 _____		<u>51</u>		<u>85</u>		<u>51</u>	<u>637</u>
P19 _____		<u>54</u>		<u>90</u>	<u>4</u>	<u>54</u>	<u>643</u>
P20 _____		<u>57</u>				<u>57</u>	<u>649</u>
		<u>60</u>				<u>60</u>	<u>655</u>
						<u>63</u>	<u>658</u>
						<u>66</u>	<u>661</u>

JKT # 5868

I



Company Range Oil Company, Inc. Lease & Well No. Mellor #1
Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 5868
Date 7-28-80 Sec. 1 Twp. 24S Range 3E County Butler State Kansas
Test Approved by Joe M. Baker Western Representative James Ricketts

Formation Test No. 2 Interval Tested from 2502 ft. to 2515 ft. Total Depth 2515 ft.

Packer Depth 2502 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.

Packer Depth 2497 ft. Size 6 3/4 in. Packer Depth ----- ft. Size --- in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 2500 ft.

Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2503 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. 2.25 in.

Mud Type Chemical Viscosity 48

Weight Pipe Length ----- I. D. ---- in.

Weight 9.8 Water Loss 18.4 cc.

Drill Pipe Length 2352 I. D. 3.25 in.

Chlorides 1300 P.P.M.

Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make No Serial Number -----

Anchor Length 13 ft. Size 4 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 X.H. in.

Blow: Initial Flow Period - No blow. Flushed Tool. Very weak blow for 25 minutes.

Final Flow Period - No blow. Flushed Tool. Very weak blow for 40 minutes. Flushed Tool.

Got a blow.

Recovered ----- ft. of

Recovered 20 ft. of Mud with a few oil spots.

Recovered ----- ft. of

Recovered ----- ft. of

Recovered ----- ft. of

Remarks:

Time Set Packer(s) 10:20 ~~A.M.~~ P.M. Time Started Off Bottom 1:50 ~~A.M.~~ P.M. Maximum Temperature 101

Initial Hydrostatic Pressure (A) 1298 P.S.I.

Initial Flow Period Minutes 30 (B) 4 P.S.I. to (C) 4 P.S.I.

Initial Closed In Period Minutes 27 (D) 630 P.S.I.

Final Flow Period Minutes 90 (E) 4 P.S.I. to (F) 4 P.S.I.

Final Closed In Period Minutes 66 (G) 661 P.S.I.

Final Hydrostatic Pressure (H) 1250 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7-28-80 Test Ticket No. 5868
Recorder No. 2605 Capacity 4150 Location 2500 Ft.
Clock No. - Elevation ----- Well Temperature 101 °F

Point	Pressure		Time	
			Given	Computed
A Initial Hydrostatic Mud	1298	P.S.I.	10:20	A. M.
B First Initial Flow Pressure	4	P.S.I.	30	Mins.
C First Final Flow Pressure	4	P.S.I.	30	Mins.
D Initial Closed-in Pressure	630	P.S.I.	90	Mins.
E Second Initial Flow Pressure	4	P.S.I.	60	Mins.
F Second Final Flow Pressure	4	P.S.I.		
G Final Closed-in Pressure	661	P.S.I.		
H Final Hydrostatic Mud	1250	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>22</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>4</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>4</u>
P 2 <u>5</u>	<u>4</u>	<u>3</u>	<u>91</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>6</u>
P 3 <u>10</u>	<u>4</u>	<u>6</u>	<u>275</u>	<u>10</u>	<u>4</u>	<u>6</u>	<u>23</u>
P 4 <u>15</u>	<u>4</u>	<u>9</u>	<u>392</u>	<u>15</u>	<u>4</u>	<u>9</u>	<u>176</u>
P 5 <u>20</u>	<u>4</u>	<u>12</u>	<u>468</u>	<u>20</u>	<u>4</u>	<u>12</u>	<u>282</u>
P 6 <u>25</u>	<u>4</u>	<u>15</u>	<u>517</u>	<u>25</u>	<u>4</u>	<u>15</u>	<u>354</u>
P 7 <u>30</u>	<u>4</u>	<u>18</u>	<u>550</u>	<u>30</u>	<u>4</u>	<u>18</u>	<u>428</u>
P 8		<u>21</u>	<u>583</u>	<u>35</u>	<u>4</u>	<u>21</u>	<u>460</u>
P 9		<u>24</u>	<u>612</u>	<u>40</u>	<u>4</u>	<u>24</u>	<u>496</u>
P10		<u>27</u>	<u>630</u>	<u>45</u>	<u>4</u>	<u>27</u>	<u>529</u>
P11				<u>50</u>	<u>4</u>	<u>30</u>	<u>552</u>
P12				<u>55</u>	<u>4</u>	<u>33</u>	<u>567</u>
P13				<u>60</u>	<u>4</u>	<u>36</u>	<u>577</u>
P14				<u>65</u>	<u>4</u>	<u>39</u>	<u>592</u>
P15				<u>70</u>	<u>4</u>	<u>42</u>	<u>611</u>
P16				<u>75</u>	<u>4</u>	<u>45</u>	<u>624</u>
P17				<u>80</u>	<u>4</u>	<u>48</u>	<u>631</u>
P18				<u>85</u>	<u>4</u>	<u>51</u>	<u>637</u>
P19				<u>90</u>	<u>4</u>	<u>54</u>	<u>643</u>
P20						<u>57</u>	<u>649</u>
						<u>60</u>	<u>655</u>
						<u>63</u>	<u>658</u>
						<u>66</u>	<u>661</u>



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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 5847

Elevation 1378 ^{el/4} _{ushing} Formation Mississippi Eff. Pay Ft.

District Augusta Ka Date 7-29-80

Customer Order No.

COMPANY NAME (ROCT)- Range Oil Co. Inc.

ADDRESS 240 Page Court Wichita, KS 67202

LEASE AND WELL NO. Mellon #1 COUNTY Butler STATE Ka Sec. 1 Twp. 24S Rge 3E

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

Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. 3 Interval Tested from 2511 ft. to 2526 ft. Total Depth 2526 ft.

Packer Depth 2511 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2506 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2516 ft.

Bottom Recorder Depth (Outside) 2519 ft.

Below Straddle Recorder Depth ft.

Recorder Number 1559 Cap. 4200 PSI

Recorder Number 1558 Cap. 4200 PSI

Recorder Number Cap.

Drilling Contractor Range Ry #1

Mud Type Chem Viscosity 41

Weight 10.1 Water Loss 16 cc.

Chlorides 1900 P.P.M.

Jars: Make NO Serial Number

Did Well Flow? NO Reversed Out

Drill Collar Length 120 I. D. 2 3/4 in.

Weight Pipe Length I. D. in.

Drill Pipe Length 2371 I. D. 3.8 in.

Test Tool Length 35 ft. Tool Size 5 1/2 in.

Anchor Length 15 ft. Size 6 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 X 4 in.

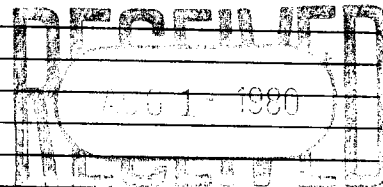
Blow: weak throughout test

Recovered 2 ft. of free oil
Recovered 15 ft. of oil cut mud
Recovered 170 ft. of muddy water (Chloride 27,000 PPM)

Recovered ft. of

Recovered ft. of

Remarks:



on location 10 PM 7-28 - picked up at 10:30 PM (7-28)

Time Set Packer(s) 12:20 A.M. Time Started Off Bottom 4:00 A.M.

Initial Hydrostatic Pressure 1282 P.S.I.

Initial Flow Period 30 Minutes (A) 1282 P.S.I.

Initial Closed In Period 30 Minutes (B) 0 P.S.I. to (C) 35 P.S.I.

Final Flow Period 90 Minutes (D) 751 P.S.I.

Final Closed In Period 60 Minutes (E) 78 P.S.I. to (F) 90 P.S.I.

Final Hydrostatic Pressure 814 P.S.I.

Final Hydrostatic Pressure 1248 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 Joe M Baker
Signature of Customer or his authorized representative

Western Representative Fred H Klaus

FIELD INVOICE

Open Hole Test \$ 550.00

Miscellaneous \$

Straddle Test \$

Jars \$

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

27 Circ. Sub. \$

Mileage \$ 20.25

Fluid Sampler \$

Extra Charts \$

TOTAL \$ 570.25

WESTERN TESTING CO., INC.

Pressure Data

Date 7-29-80 Test Ticket No. 5847
 Recorder No. 1559 Capacity 4200 Location 2516 Ft.
 Clock No. _____ Elevation 1378 Kelly Bushing Well Temperature 98 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1319 P.S.I. Open Tool 12:20 A M
 B First Initial Flow Pressure 8 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 31 P.S.I. Initial Closed-in Pressure 30 Mins. 33 Mins.
 D Initial Closed-in Pressure 741 P.S.I. Second Flow Pressure 90 Mins. 115 Mins.
 E Second Initial Flow Pressure 92 P.S.I. Final Closed-in Pressure 60 Mins. 66 Mins.
 F Second Final Flow Pressure 91 P.S.I.
 G Final Closed-in Pressure 720 P.S.I.
 H Final Hydrostatic Mud 1254 P.S.I.

PRESSURE BREAKDOWN

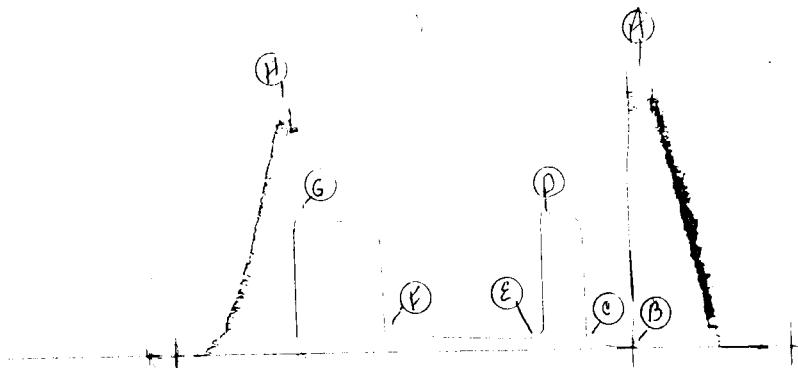
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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	8	0	31	0	92	0	91
P 2 5	8	3	493	5	77	3	552
P 3 10	8	6	670	10	68	6	589
P 4 15	16	9	710	15	67	9	676
P 5 20	22	12	722	20	67	12	689
P 6 25	27	15	726	25	66	15	695
P 7 30	31	18	730	30	68	18	699
P 8 35		21	733	35	68	21	703
P 9 40		24	735	40	71	24	705
P10 45		27	737	45	73	27	708
P11 50		30	739	50	74	30	710
P12 55		33	741	55	75	33	712
P13 60		36		60	75	36	713
P14		39		65	77	39	714
P15		42		70	79	42	715
P16		45		75	81	45	716
P17		48		80	83	48	717
P18		51		85	84	51	718
P19		54		90	85	54	718
P20		57				57	719
		60				60	719
						63	720
						66	720

WTC - 4

98 2295 - 87
 100 - 88
 105 - 89
 110 - 90
 115 - 91

AKA # 5847

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Company Range Oil Company, Inc. Lease & Well No. Mellor #1
Elevation 1378 Kelly Bushing Mississippi Formation ----- Effective Pay ----- Ft. Ticket No. 5847
Date 7/29/80 Sec. 1 Twp. 24S Range 3E County Butler State Kansas
Test Approved by Joe M. Baker Western Representative Fred G. Klaus

Formation Test No. 3 Interval Tested from 2511 ft. to 2526 ft. Total Depth 2526 ft.

Packer Depth 2511 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2506 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2516 ft. Recorder Number 1559 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2519 ft. Recorder Number 1558 Cap. 4200 PSI

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

Drilling Contractor Range Drilling Rig #1 Drill Collar Length 120 I. D. 2 3/4 in.

Mud Type chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 10.1 Water Loss 16 cc. Drill Pipe Length 2371 I. D. 3.8 in.

Chlorides 1,900 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 15 ft. Size 5 1/2 in.

Did Well Flow? No 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: Weak throughout test.

Recovered 2 ft. of free oil

Recovered 15 ft. of oil cut mud

Recovered 170 ft. of muddy water (chlorides 27,000 ppm)

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:20 A.M. ~~P.M.~~ Time Started Off Bottom 4:00 A.M. ~~P.M.~~ Maximum Temperature 98°

Initial Hydrostatic Pressure (A) 1319 P.S.I.

Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period Minutes 33 (D) 741 P.S.I.

Final Flow Period Minutes 115 (E) 92 P.S.I. to (F) 91 P.S.I.

Final Closed In Period Minutes 66 (G) 720 P.S.I.

Final Hydrostatic Pressure (H) 1254 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7/29/80

Test Ticket No. 5847

Recorder No. 1559

Capacity 4200

Location 2516 Ft.

Clock No. - Elevation 1378 Kelly Bushing

Well Temperature 98° °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1319</u> P.S.I.	Open Tool	<u>12:20A30</u> M	
B First Initial Flow Pressure	<u>8</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>90</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>741</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>115</u> Mins.
E Second Initial Flow Pressure	<u>92</u> P.S.I.	Final Closed-in Pressure		<u>66</u> Mins.
F Second Final Flow Pressure	<u>91</u> P.S.I.			
G Final Closed-in Pressure	<u>720</u> P.S.I.			
H Final Hydrostatic Mud	<u>1254</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>11</u> Inc.		Breakdown: <u>23</u> Inc.		Breakdown: <u>22</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>8</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>91</u>
P 2 <u>5</u>	<u>8</u>	<u>3</u>	<u>493</u>	<u>5</u>	<u>77</u>	<u>3</u>	<u>552</u>
P 3 <u>10</u>	<u>8</u>	<u>6</u>	<u>670</u>	<u>10</u>	<u>68</u>	<u>6</u>	<u>589</u>
P 4 <u>15</u>	<u>16</u>	<u>9</u>	<u>710</u>	<u>15</u>	<u>67</u>	<u>9</u>	<u>676</u>
P 5 <u>20</u>	<u>22</u>	<u>12</u>	<u>722</u>	<u>20</u>	<u>67</u>	<u>12</u>	<u>689</u>
P 6 <u>25</u>	<u>27</u>	<u>15</u>	<u>726</u>	<u>25</u>	<u>66</u>	<u>15</u>	<u>695</u>
P 7 <u>30</u>	<u>31</u>	<u>18</u>	<u>730</u>	<u>30</u>	<u>68</u>	<u>18</u>	<u>699</u>
P 8 _____		<u>21</u>	<u>733</u>	<u>35</u>	<u>68</u>	<u>21</u>	<u>703</u>
P 9 _____		<u>24</u>	<u>735</u>	<u>40</u>	<u>71</u>	<u>24</u>	<u>705</u>
P10 _____		<u>27</u>	<u>737</u>	<u>45</u>	<u>73</u>	<u>27</u>	<u>708</u>
P11 _____		<u>30</u>	<u>739</u>	<u>50</u>	<u>74</u>	<u>30</u>	<u>710</u>
P12 _____		<u>33</u>	<u>741</u>	<u>55</u>	<u>75</u>	<u>33</u>	<u>712</u>
P13 _____				<u>60</u>	<u>75</u>	<u>36</u>	<u>713</u>
P14 _____				<u>65</u>	<u>77</u>	<u>39</u>	<u>714</u>
P15 _____				<u>70</u>	<u>79</u>	<u>42</u>	<u>715</u>
P16 _____				<u>75</u>	<u>81</u>	<u>45</u>	<u>716</u>
P17 _____				<u>80</u>	<u>83</u>	<u>48</u>	<u>717</u>
P18 _____				<u>85</u>	<u>84</u>	<u>51</u>	<u>718</u>
P19 _____				<u>90</u>	<u>85</u>	<u>54</u>	<u>718</u>
P20 _____				<u>95</u>	<u>87</u>	<u>57</u>	<u>719</u>
				<u>100</u>	<u>88</u>	<u>60</u>	<u>719</u>
				<u>105</u>	<u>89</u>	<u>63</u>	<u>720</u>
				<u>110</u>	<u>90</u>	<u>66</u>	<u>720</u>
				<u>115</u>	<u>91</u>		