



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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET No 3542

Elevation 1444 KB Formation MISS. Eff. Pay ✓ Ft.

District Augusta Date 3-22-80 Customer Order No. —

COMPANY NAME RANGE O.I. Company
ADDRESS 240 Page Court, 220 West Douglas, Wichita, Kan. 67202

LEASE AND WELL NO. RAMSEY #1 COUNTY BUTLER STATE KS. Sec. 9 Twp 24S Rge 5E

Mail Invoice To SAME Co. Name RAMSEY #1 Address — No. Copies Requested 5

Mail Charts To SAME Address — No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2522 ft. to 2535 ft. Total Depth 2535 ft.
Packer Depth 2517 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Packer Depth 2522 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set ✓

Top Recorder Depth (Inside) 2525 ft. Recorder Number 3354 Cap. 4200 PSI
Bottom Recorder Depth (Outside) 2528 ft. Recorder Number 2605 Cap. 4150 PSI
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Co. Tools Drill Collar Length 120 I. D. 2 1/4 in.
Mud Type CHEM. Viscosity 34 Weight Pipe Length — I. D. — in.
Weight 9 1/2 Water Loss 16 cc. Drill Pipe Length 2382' I. D. 3.8 in.
Chlorides 1100 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.
Jars: Make NONE Serial Number ✓ Anchor Length 13 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 FH in.

Blow: Very weak blow on vertical flow period / very weak blow
on 22 minutes on final flow period

Recovered 3 ft. of mud with a few specks of oil on top of tool
Recovered — ft. of
Recovered — ft. of
Recovered — ft. of
Recovered — ft. of

Remarks: —

RECEIVED
MAR 24 1980

Time Set Packer(s)	12:00 A.M.	Time Started Off Bottom	2:30 A.M.	Maximum Temperature
Initial Hydrostatic Pressure	(A) 1318 P.S.I.			
Initial Flow Period	Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.			
Initial Closed In Period	Minutes 30 (D) 632 P.S.I.			
Final Flow Period	Minutes 30 (E) 42 P.S.I. to (F) 42 P.S.I.			
Final Closed In Period	Minutes 60 (G) 664 P.S.I.			
Final Hydrostatic Pressure	(H) 1265 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]
Signature of Customer or his authorized representative

Western Representative W.H. Hager Thank You!

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 3-22-80 Test Ticket No. 3542
 Recorder No. 3354 Capacity 4200 Location 2525 Ft.
 Clock No. _____ Elevation 1444 K.B. Well Temperature _____ °F

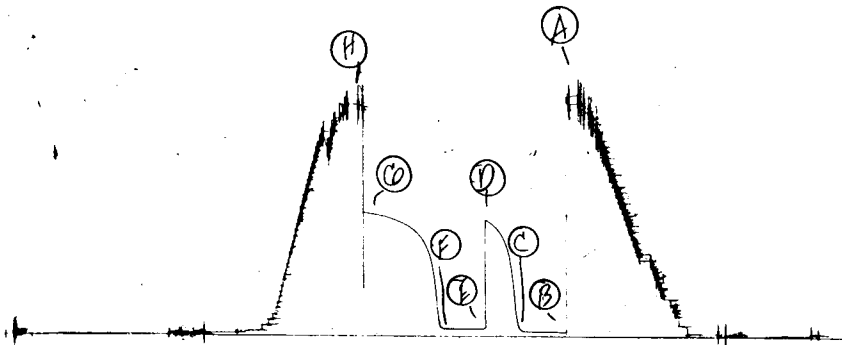
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1301</u>	P.S.I.	<u>12:00 A</u>	M
B First Initial Flow Pressure	<u>16</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>628</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>35</u>	P.S.I.	<u>60</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>35</u>	P.S.I.		
G Final Closed-in Pressure	<u>673</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1257</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
<u>6</u> Inc.		<u>10</u> Inc.		<u>6</u> Inc.		<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>16</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>35</u>
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>31</u>	<u>5</u>		<u>3</u>	<u>48</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>124</u>	<u>10</u>		<u>6</u>	<u>221</u>
P 4 <u>15</u>		<u>9</u>	<u>318</u>	<u>15</u>		<u>9</u>	<u>377</u>
P 5 <u>20</u>		<u>12</u>	<u>436</u>	<u>20</u>		<u>12</u>	<u>459</u>
P 6 <u>25</u>		<u>15</u>	<u>506</u>	<u>25</u>		<u>15</u>	<u>504</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>546</u>	<u>30</u>	<u>35</u>	<u>18</u>	<u>537</u>
P 8 <u>35</u>		<u>21</u>	<u>575</u>	<u>35</u>		<u>21</u>	<u>563</u>
P 9 <u>40</u>		<u>24</u>	<u>599</u>	<u>40</u>		<u>24</u>	<u>580</u>
P10 <u>45</u>		<u>27</u>	<u>616</u>	<u>45</u>		<u>27</u>	<u>597</u>
P11 <u>50</u>		<u>30</u>	<u>628</u>	<u>50</u>		<u>30</u>	<u>609</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>618</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>626</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>637</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>643</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>649</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>656</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>660</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>664</u>
P20		<u>57</u>				<u>57</u>	<u>668</u>
		<u>60</u>				<u>60</u>	<u>673</u>

3354

Wt# 3542
I



Company Range Oil Company, Inc. Lease & Well No. Ramsey #1
Elevation 1444 Kelly Bushing Mississippi Effective Pay ----- Ft. Ticket No. 3542
Date 3/22/80 Sec. 9 Twp. 24S Range 5E County Butler State Kansas
Test Approved by Stephen M. Kreidler Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 2522 ft. to 2535 ft. Total Depth 2535 ft.

Packer Depth 2517 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2522 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2525 ft. Recorder Number 3354 Cap 4200 PSI

Bottom Recorder Depth (Outside) 2528 ft. Recorder Number 2605 Cap 4150 PSI

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

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

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

Weight 9.4 Water Loss 16 cc. Drill Pipe Length 2382 I. D. 3.8 in.

Chlorides 1,100 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number - Anchor Length 13 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 FH in.

Blow: Very weak blow on initial flow period/very weak blow died in twenty-two minutes on final flow period.

Recovered 3 ft. of mud with a few specks of oil on top of tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:00 A.M. ~~P.M.~~ Time Started Off Bottom 2:30 A.M. ~~P.M.~~ Maximum Temperature -

Initial Hydrostatic Pressure (A) 1301 P.S.I.

Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period Minutes 30 (D) 628 P.S.I.

Final Flow Period Minutes 30 (E) 35 P.S.I. to (F) 35 P.S.I.

Final Closed In Period Minutes 60 (G) 673 P.S.I.

Final Hydrostatic Pressure (H) 1257 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-22-80 Test Ticket No. 3542
 Recorder No. 3354 Capacity 4200 Location 2525 Ft.
 Clock No. _____ Elevation 1444 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1301	P.S.I.	12:00 A.M.	
B First Initial Flow Pressure	16	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	21	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	628	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	35	P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	35	P.S.I.		
G Final Closed-in Pressure	673	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>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 0	16	0	21	0	35	0	35
P 2 5	18	3	31	5	35	3	48
P 3 10	21	6	124	10	35	6	221
P 4 15	21	9	318	15	35	9	377
P 5 20	21	12	436	20	35	12	459
P 6 25	21	15	506	25	35	15	504
P 7 30	21	18	546	30	35	18	537
P 8		21	575			21	563
P 9		24	599			24	580
P10		27	616			27	597
P11		30	628			30	609
P12						33	618
P13						36	626
P14						39	637
P15						42	643
P16						45	649
P17						48	656
P18						51	660
P19						54	664
P20						57	668
						60	673



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 3543

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation 1444 KB Formation Mississippi Eff. Pay Ft.

District Augusta Date 22 Mar 80 Customer Order No.

COMPANY NAME Range Oil Company Inc

ADDRESS 240 Page Court 220 West Douglas Wichita Kan 67202

LEASE AND WELL NO Ramsey #1 COUNTY Butler STATE Kan Sec 9 Twp 24S Rge 5E

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

Mail Charts To Sarco Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 2535 ft. to 2555 ft. Total Depth 2555 ft.
Packer Depth 2530 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2535 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

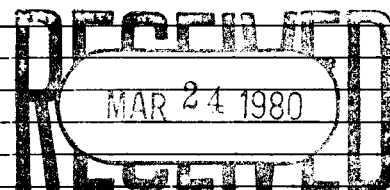
Top Recorder Depth (Inside) 2545 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 2548 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Company Tools #1 Drill Collar Length 120' I. D. 2 1/4 in.
Mud Type Charcoal Viscosity 42 Weight Pipe Length - I. D. - in.
Weight 9.5 Water Loss 16 cc. Drill Pipe Length 2395' I. D. 3.8 in.
Chlorides 1100 P.P.M. Test Tool Length 40 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 yes 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: Strong flow on initial flow period / strong blow decreasing to very weak on final flow period

Recovered 1900 ft. of free oil
Recovered 200 ft. of heavy oil cut mud
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of

Remarks:



Time Set Packer(s) 3:25 P.M. Time Started Off Bottom 6:55 P.M. Maximum Temperature 106
Initial Hydrostatic Pressure (A) 1265 P.S.I.
Initial Flow Period Minutes 30 (B) 189 P.S.I. to (C) 622 P.S.I.
Initial Closed In Period Minutes 30 (D) 717 P.S.I.
Final Flow Period Minutes 60 (E) 632 P.S.I. to (F) 717 P.S.I.
Final Closed In Period Minutes 90 (G) 717 P.S.I.
Final Hydrostatic Pressure (H) 1240 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. Kreilly
Signature of Customer or his authorized representative

Western Representative WK Hager Thank You!

FIELD INVOICE

Open Hole Test \$ 500.00
Mistrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Arc. Sub. \$ 25.00
Mileage \$
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 525.00

WESTERN TESTING CO., INC.

Pressure Data

Date 3-27-80 Test Ticket No. 3543
 Recorder No. 3354 Capacity 4200 Location 2545 Ft.
 Clock No. _____ Elevation 1444 K.B. Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1267</u>	P.S.I.	<u>3:25 P</u>	M
B First Initial Flow Pressure	<u>196</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>616</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>723</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>641</u>	P.S.I.	<u>90</u>	Mins. <u>90</u> Mins.
F Second Final Flow Pressure	<u>732</u>	P.S.I.		
G Final Closed-in Pressure	<u>737</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1251</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>30</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>196</u>	<u>0</u>	<u>616</u>	<u>0</u>	<u>641</u>	<u>0</u>	<u>732</u>
P 2 <u>5</u>	<u>257</u>	<u>3</u>	<u>713</u>	<u>5</u>	<u>660</u>	<u>3</u>	<u>732</u>
P 3 <u>10</u>	<u>358</u>	<u>6</u>	<u>717</u>	<u>10</u>	<u>683</u>	<u>6</u>	<u>732</u>
P 4 <u>15</u>	<u>443</u>	<u>9</u>	<u>718</u>	<u>15</u>	<u>700</u>	<u>9</u>	<u>732</u>
P 5 <u>20</u>	<u>516</u>	<u>12</u>	<u>720</u>	<u>20</u>	<u>710</u>	<u>12</u>	<u>732</u>
P 6 <u>25</u>	<u>567</u>	<u>15</u>	<u>720</u>	<u>25</u>	<u>717</u>	<u>15</u>	<u>732</u>
P 7 <u>30</u>	<u>616</u>	<u>18</u>	<u>721</u>	<u>30</u>	<u>723</u>	<u>18</u>	<u>732</u>
P 8 <u>35</u>		<u>21</u>	<u>721</u>	<u>35</u>	<u>725</u>	<u>21</u>	<u>732</u>
P 9 <u>40</u>		<u>24</u>	<u>722</u>	<u>40</u>	<u>727</u>	<u>24</u>	<u>732</u>
P 10 <u>45</u>		<u>27</u>	<u>722</u>	<u>45</u>	<u>729</u>	<u>27</u>	<u>732</u>
P 11 <u>50</u>		<u>30</u>	<u>723</u>	<u>50</u>	<u>730</u>	<u>30</u>	<u>732</u>
P 12 <u>55</u>		<u>33</u>		<u>55</u>	<u>731</u>	<u>33</u>	<u>735</u>
P 13 <u>60</u>		<u>36</u>		<u>60</u>	<u>732</u>	<u>36</u>	<u>735</u>
P 14		<u>39</u>		<u>65</u>		<u>39</u>	<u>735</u>
P 15		<u>42</u>		<u>70</u>		<u>42</u>	<u>735</u>
P 16		<u>45</u>		<u>75</u>		<u>45</u>	<u>735</u>
P 17		<u>48</u>		<u>80</u>		<u>48</u>	<u>735</u>
P 18		<u>51</u>		<u>85</u>		<u>51</u>	<u>735</u>
P 19		<u>54</u>		<u>90</u>		<u>54</u>	<u>735</u>
P 20		<u>57</u>				<u>57</u>	<u>735</u>
		<u>60</u>				<u>60</u>	<u>735</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 3543

Recorder No. _____ Capacity _____ Location _____ Ft.

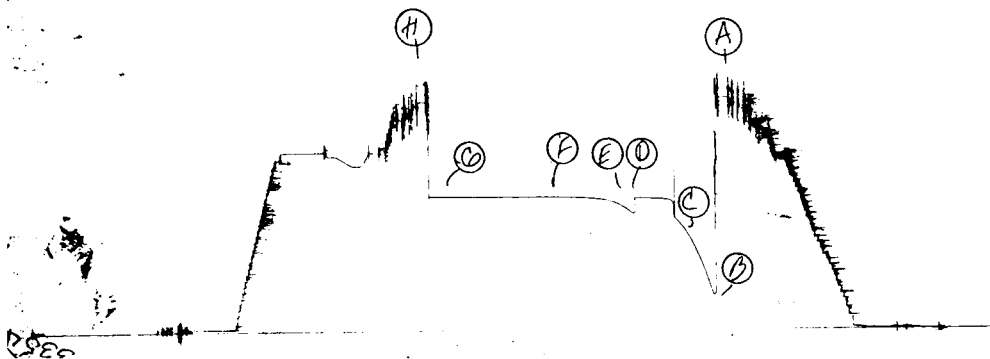
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins _____	Mins _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins _____	Mins _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins _____	Mins _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins _____	Mins _____
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 _____		63				63	736
P 2 _____		66				66	736
P 3 _____		69				69	736
P 4 _____		72				72	737
P 5 _____		75				75	737
P 6 _____		78				78	737
P 7 _____		81				81	737
P 8 _____		84				84	737
P 9 _____		87				87	737
P10 _____		90				90	737
P11 _____		93				93	737
P12 _____		96				96	737
P13 _____		99				99	737
P14 _____		102				102	737
P15 _____		105				105	737
P16 _____		108				108	737
P17 _____		111				111	737
P18 _____		114				114	737
P19 _____		117				117	737
P20 _____		120				120	737

TKL# 3543
I



Company Range Oil Company, Inc. Lease & Well No. Ramsey #1
Elevation 1444 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 3543
Date 3/22/80 Sec. 9 Twp. 24S Range 5E County Butler State Kansas
Test Approved by Stephen M. Kreidler Western Representative W. K. Hager

Formation Test No. 2 Interval Tested from 2535 ft. to 2555 ft. Total Depth 2555 ft.

Packer Depth 2530 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2535 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2545 ft. Recorder Number 3354 Cap 4200

Bottom Recorder Depth (Outside) 2548 ft. Recorder Number 2605 Cap 4150

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

Drilling Contractor Range Drilling

Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type chemical Viscosity 42

Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 16 cc.

Drill Pipe Length 2395 I. D. 3.8 in.

Chlorides 1,100 P.P.M.

Test Tool Length 40 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 Yes

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 FH in.

Blow: Strong blow on initial flow period/strong blow decreasing to very weak
on final flow period.

Recovered 1900 ft. of free oil

Recovered 200 ft. of heavy oil cut mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 3:25 ~~AM~~ AM = P.M. Time Started Off Bottom 6:55 AM P.M. Maximum Temperature 106°

Initial Hydrostatic Pressure (A) 1267 P.S.I.

Initial Flow Period Minutes 30 (B) 196 P.S.I. to (C) 616 P.S.I.

Initial Closed In Period Minutes 30 (D) 723 P.S.I.

Final Flow Period Minutes 60 (E) 631 P.S.I. to (F) 732 P.S.I.

Final Closed In Period Minutes 90 (G) 737 P.S.I.

Final Hydrostatic Pressure (H) 1251 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/27/80 Test Ticket No. 3543
 Recorder No. 3354 Capacity 4200 Location 2545 Ft.
 Clock No. ----- Elevation 1444 Kelly Bushing Well Temperature 106 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1267</u> P.S.I.	<u>3:25P</u> M	
B First Initial Flow Pressure	<u>196</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>616</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>723</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>631</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>732</u> P.S.I.		
G Final Closed-in Pressure	<u>737</u> P.S.I.		
H Final Hydrostatic Mud	<u>1251</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>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</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>196</u>	<u>0</u>	<u>616</u>	<u>0</u>	<u>641</u>	<u>0</u>	<u>732</u>
P 2 <u>5</u>	<u>257</u>	<u>3</u>	<u>713</u>	<u>5</u>	<u>660</u>	<u>3</u>	<u>732</u>
P 3 <u>10</u>	<u>358</u>	<u>6</u>	<u>717</u>	<u>10</u>	<u>683</u>	<u>6</u>	<u>732</u>
P 4 <u>15</u>	<u>443</u>	<u>9</u>	<u>718</u>	<u>15</u>	<u>700</u>	<u>9</u>	<u>732</u>
P 5 <u>20</u>	<u>516</u>	<u>12</u>	<u>720</u>	<u>20</u>	<u>710</u>	<u>12</u>	<u>732</u>
P 6 <u>25</u>	<u>567</u>	<u>15</u>	<u>720</u>	<u>25</u>	<u>717</u>	<u>15</u>	<u>732</u>
P 7 <u>30</u>	<u>616</u>	<u>18</u>	<u>721</u>	<u>30</u>	<u>723</u>	<u>18</u>	<u>732</u>
P 8		<u>21</u>	<u>721</u>	<u>35</u>	<u>725</u>	<u>21</u>	<u>732</u>
P 9		<u>24</u>	<u>722</u>	<u>40</u>	<u>727</u>	<u>24</u>	<u>732</u>
P10		<u>27</u>	<u>722</u>	<u>45</u>	<u>729</u>	<u>27</u>	<u>732</u>
P11		<u>30</u>	<u>723</u>	<u>50</u>	<u>730</u>	<u>30</u>	<u>732</u>
P12				<u>55</u>	<u>731</u>	<u>33</u>	<u>735</u>
P13				<u>60</u>	<u>732</u>	<u>36</u>	<u>735</u>
P14						<u>39</u>	<u>735</u>
P15						<u>42</u>	<u>735</u>
P16						<u>45</u>	<u>735</u>
P17						<u>48</u>	<u>735</u>
P18						<u>51</u>	<u>735</u>
P19						<u>54</u>	<u>735</u>
P20						<u>57</u>	<u>735</u>
						<u>60</u>	<u>735</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 3/27/80

Test Ticket No. 3543

Recorder No. 3354 Capacity 4200 Location 2545 Ft.

Clock No. ----- Elevation 1444 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1267</u> P.S.I.	Open Tool	<u>3:25P</u> M	
B First Initial Flow Pressure	<u>196</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>616</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>723</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>631</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>732</u> P.S.I.			
G Final Closed-in Pressure	<u>737</u> P.S.I.			
H Final Hydrostatic Mud	<u>1251</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>30</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>63</u>	<u>736</u>
P 2						<u>66</u>	<u>736</u>
P 3						<u>68</u>	<u>736</u>
P 4						<u>72</u>	<u>736</u>
P 5						<u>75</u>	<u>737</u>
P 6						<u>78</u>	<u>737</u>
P 7						<u>81</u>	<u>737</u>
P 8						<u>84</u>	<u>737</u>
P 9						<u>87</u>	<u>737</u>
P10						<u>90</u>	<u>737</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							