



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 6762

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

Elevation 1237 KB Formation Miss. Eff. Pay Ft.

District Augusta Date 4-6-81 Customer Order No. _____
COMPANY NAME Range Oil Co Inc
ADDRESS 240 Page Court 220 W Douglas Wichita, Kans 67202
LEASE AND WELL NO. Drake #1 COUNTY Cowley STATE Kans Sec 5 Twp 35 Rge 5E
Mail Invoice To Same No. Copies Requested 1
Co. Name Address
Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 2875 ft. to 2890 ft. Total Depth 2890 ft.
Packer Depth 2870 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2875 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2882 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 2885 ft. Recorder Number 5666 Cap. 3950
Below Straddle Recorder Depth - ft. Recorder Number _____ Cap. _____

Drilling Contractor ROC 1 #2 Drill Collar Length 150 I. D. 2 1/4 in.
Mud Type Chem Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss N/A cc. Drill Pipe Length 2846 I. D. 3.8 in.
Chlorides N/A P.P.M. Test Tool Length 22 ft. Tool Size 5 in.
Jars: Make - Serial Number _____ Anchor Length 15 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 XH in.

Initial flow
Blow: Weak to fairly strong (8" in water in 25 min backing off)
2nd open backed off to 1/2" in bucket in 12 min and held thru out

Recovered 360 ft. of GAS
Recovered 120 ft. of GAS + oil cut FROGGY mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

ON Loc 11:00 AM Pick up tool 12:15 pm Job complete 7:45 pm
Time Set Packer(s) 2:00 P.M. Time Started Off Bottom 5:30 P.M. Maximum Temperature 114
Initial Hydrostatic Pressure _____ (A) 1510 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 65 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 630 P.S.I.
Final Flow Period _____ Minutes 90 (E) 65 P.S.I. to (F) 75 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 790 P.S.I.
Final Hydrostatic Pressure _____ (H) 1465 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 D. Wade
Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Open Hole Test \$ 625.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
28 Mileage \$ 21.00
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 646.00

Did not do Test #1

WESTERN TESTING CO., INC.

Pressure Data

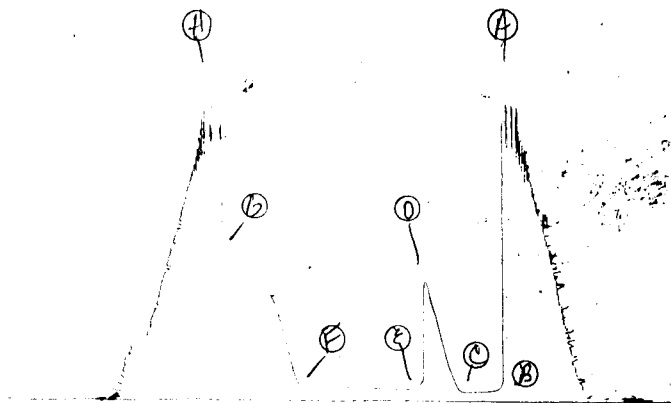
Date 4-6 Recorder No. 3354 Capacity 4200 Test Ticket No. 6762 Location 2882 Ft.
Clock No. Elevation 1237 KB Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1523</u> P.S.I.	Open Tool	<u>2:00 P</u> M	
B First Initial Flow Pressure	<u>84</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>645</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>88</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>86</u> P.S.I.			
G Final Closed-in Pressure	<u>801</u> P.S.I.			
H Final Hydrostatic Mud	<u>1480</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>18</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>84</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>88</u>	<u>0</u>	<u>84</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>72</u>	<u>5</u>	<u>76</u>	<u>3</u>	<u>116</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>118</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>190</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>171</u>	<u>15</u>	<u>65</u>	<u>9</u>	<u>272</u>
P 5 <u>20</u>	<u>50</u>	<u>12</u>	<u>243</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>348</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>316</u>	<u>25</u>	<u>66</u>	<u>15</u>	<u>422</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>405</u>	<u>30</u>	<u>69</u>	<u>18</u>	<u>496</u>
P 8 <u>35</u>		<u>21</u>	<u>485</u>	<u>35</u>	<u>70</u>	<u>21</u>	<u>550</u>
P 9 <u>40</u>		<u>24</u>	<u>559</u>	<u>40</u>	<u>72</u>	<u>24</u>	<u>607</u>
P10 <u>45</u>		<u>27</u>	<u>624</u>	<u>45</u>	<u>74</u>	<u>27</u>	<u>652</u>
P11 <u>50</u>		<u>30</u>	<u>645</u>	<u>50</u>	<u>74</u>	<u>30</u>	<u>688</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>75</u>	<u>33</u>	<u>724</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>76</u>	<u>36</u>	<u>748</u>
P14		<u>39</u>		<u>65</u>	<u>76</u>	<u>39</u>	<u>772</u>
P15		<u>42</u>		<u>70</u>	<u>76</u>	<u>42</u>	<u>780</u>
P16		<u>45</u>		<u>75</u>	<u>77</u>	<u>45</u>	<u>788</u>
P17		<u>48</u>		<u>80</u>	<u>79</u>	<u>48</u>	<u>801</u>
P18		<u>51</u>		<u>85</u>	<u>81</u>	<u>51</u>	<u>803</u>
P19		<u>54</u>		<u>90</u>	<u>86</u>	<u>54</u>	<u>803</u>
P20		<u>57</u>				<u>57</u>	<u>801</u>
		<u>60</u>				<u>60</u>	

SK #1 6762
I



Company Range Oil Company, Inc. Lease & Well No. Drake #1
Elevation 1237 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 6762
Date 4/6/81 Sec. 5 Twp. 31S Range 5E County Cowley State Kansas
Test Approved by Stephen D Wade Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 2875 ft. to 2890 ft. Total Depth 2890 ft.

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Bottom Recorder Depth (Outside) 2885 ft. Recorder Number 5666 Cap 3950

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

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Blow: Initial flow period weak to fairly strong (8" in water in 25 minutes backing off) Final
flow period backed off to 1/2" in bucket in 12 minutes and held throughout

Recovered 360 ft. of gas

Recovered 120 ft. of gas & oil cut froggy mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 2:00 ~~AM~~ P.M. Time Started Off Bottom 5:30 ~~AM~~ P.M. Maximum Temperature 114

Initial Hydrostatic Pressure (A) 1523 P.S.I.

Initial Flow Period Minutes 30 (B) 84 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 30 (D) 645 P.S.I.

Final Flow Period Minutes 90 (E) 88 P.S.I. to (F) 86 P.S.I.

Final Closed In Period Minutes 57 (G) 801 P.S.I.

Final Hydrostatic Pressure (H) 1480 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/6/81 Recorder No. 3354 Capacity 4200 Test Ticket No. 6762
 Clock No. - Elevation 1237 Kelly Bushing Location 2882 Ft. 114 °F
 Well Temperature

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1523 P.S.I.	Open Tool	2:00P	M
B First Initial Flow Pressure	84 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	50 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	645 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	88 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	86 P.S.I.			
G Final Closed-in Pressure	801 P.S.I.			
H Final Hydrostatic Mud	1480 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>18</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 0	84	0	50	0	88	0	86
P 2 5	61	3	72	5	76	3	116
P 3 10	55	6	118	10	65	6	190
P 4 15	53	9	171	15	65	9	272
P 5 20	50	12	243	20	65	12	348
P 6 25	50	15	316	25	66	15	422
P 7 30	50	18	405	30	69	18	496
P 8		21	485	35	70	21	550
P 9		24	559	40	72	24	607
P10		27	624	45	74	27	652
P11		30	645	50	74	30	688
P12				55	75	33	724
P13				60	76	36	748
P14				65	76	39	772
P15				70	76	42	780
P16				75	77	45	788
P17				80	79	48	801
P18				85	81	51	803
P19				90	86	54	803
P20						57	801