



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7716

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1333 KB EST Formation Viola Eff. Pay Ft.

District Augusta Date 10-10-80 Customer Order No.

COMPANY NAME RWB Oil Co

ADDRESS RR #1 Eskridge, Ks. 66423

LEASE AND WELL NO. CLARK #1 COUNTY Wabaunsee STATE Kans. Sec. 31 Twp 14s Rge 12E

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

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2942 ft. to 2947 ft. Total Depth 2947 ft.

Packer Depth 2942 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2931 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 2934 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor Western Well Pump Rig 1 Drill Collar Length - I. D. - in.

Mud Type Chem Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12 cc. Drill Pipe Length 2931 I. D. 2 1/2 in.

Chlorides 1200 P.P.M. Test Tool Length 27 ft. Tool Size OD 4 1/2 in.

Jars: Make WTC Serial Number 404 Anchor Length 5 ft. Size OD 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 2 7/8 IF in.

Blow: WEAK 30 min DC. 4 1/2 FH

Recovered 65 ft. of Heavy oil

Recovered 30 ft. of Drill mud

Remarks:

Time On Location 11:00 A.M. Time Pick Up Tool 2:00 P.M. Time Off Location 10-11-80 2:30 A.M.

Time Set Packer(s) 7:30 P.M. Time Started Off Bottom 10:30 P.M. Maximum Temperature 118

Initial Hydrostatic Pressure (A) 1470 P.S.I.

Initial Flow Period Minutes 30 (B) 55 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period Minutes 30 (D) 885 P.S.I.

Final Flow Period Minutes 60 (E) - (PL 480 mg) P.S.I. to (F) - P.S.I.

Final Closed In Period Minutes 60 (G) 990 P.S.I.

Final Hydrostatic Pressure (H) 1435 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 Harold Robinson Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE table with items: Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date 10-10 Test Ticket No. 7716
 Recorder No. 3354 Capacity 4200 Location 2931 Ft.
 Clock No. Elevation 1333 KB Well Temperature 118 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1459</u> P.S.I.	<u>7:30 P</u> M	
B First Initial Flow Pressure	<u>57</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>51</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>871</u> 871 * P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>Plugging Action</u> P.S.I.	<u>60</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>85</u> * P.S.I.		
G Final Closed-in Pressure	<u>983</u> P.S.I.		
H Final Hydrostatic Mud	<u>1418</u> P.S.I.		

* Pressures questionable due to plugging action

PRESSURE BREAKDOWN

<p>First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>57</u>	0	<u>51</u>	0	<u>Plugging Action</u>	0	<u>85</u> *
P 2 5	<u>44</u>	3	<u>74</u>	5	}	3	<u>709</u> *
P 3 10	<u>42</u>	6	<u>307</u>	10		6	<u>801</u>
P 4 15	<u>42</u>	9	<u>564</u> *	15		9	<u>871</u>
P 5 20	<u>46</u>	12	<u>696</u> *	20		12	<u>910</u>
P 6 25	<u>50</u>	15	<u>752</u> *	25		15	<u>938</u>
P 7 30	<u>51</u>	18	<u>736</u> +	30		18	<u>943</u>
P 8 35		21	<u>808</u> *	35		21	<u>953</u>
P 9 40		24	<u>847</u> *	40		24	<u>958</u>
P 10 45		27	<u>871</u> *	45		27	<u>966</u>
P 11 50		30	871 *	50		30	<u>970</u>
P 12 55		33		55	33	<u>975</u>	
P 13 60		36		60	36	<u>979</u>	
P 14		39		65	39	<u>981</u>	
P 15		42		70	42	<u>981</u>	
P 16		45		75	45	<u>983</u>	
P 17		48		80	48	983	
P 18		51		85	51		
P 19		54		90	54		
P 20		57			57		
		60			60		

34 # 7716

0

(A)

(A)

(G)

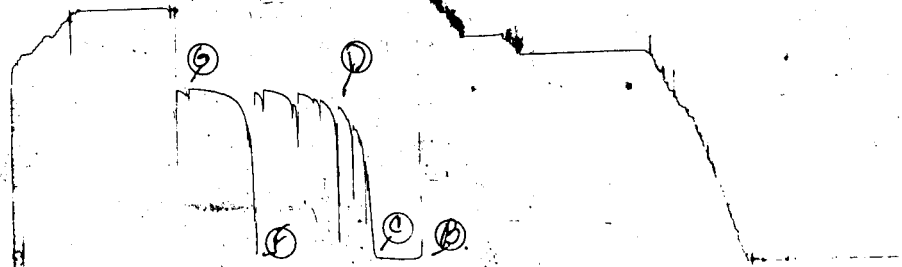
(D)

(F)

(C)

(B)

12.0 km



Company R.W.B. Oil Company Lease & Well No. Clark #1
 Elevation 1333 Kelly Bushing Est. Viola Formation Effective Pay ---- Ft. Ticket No. 7716
 Date 10/10/86 Sec. 31 Twp. 14S Range 12E County Wabaunsee State Kansas
 Test Approved by Harold Robinson Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 2942 ft. to 2947 ft. Total Depth 2947 ft.
 Packer Depth 2942 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set ----

Top Recorder Depth (Inside) 2931 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 2934 ft. Recorder Number 10980 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Western Well & Pump Rig #1 Drill Collar Length - I. D. - in.
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 12 cc. Drill Pipe Length 2931 I. D. 2 1/4 in.
 Chlorides 1,200 P.P.M. Test Tool Length 27 ft. Tool Size 4 1/2 OD in.
 Jars: Make WTC Serial Number 404 Anchor Length 5 ft. Size 4 1/2 OD in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 2 7/8 in.

Blow: Weak thirty minutes.

Recovered 65 ft. of heavy oil
 Recovered 30 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:30 ~~AM~~ PM Time Started Off Bottom 10:30 ~~AM~~ PM Maximum Temperature 118°
 Initial Hydrostatic Pressure (A) 1459 P.S.I.
 Initial Flow Period Minutes 30 (B) 57 P.S.I. to (C) 51 P.S.I.
 Initial Closed In Period Minutes 27 (D) 871 * P.S.I.
 Final Flow Period Minutes 60 (E) Plugging action to (F) 85 * P.S.I.
 Final Closed In Period Minutes 45 (G) 983 P.S.I.
 Final Hydrostatic Pressure (H) 1418 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/10/80 Test Ticket No. 7716
 Recorder No. 3354 Capacity 4200 Location 2931 Ft.
 Clock No. ---- Elevation 1333 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1459	P.S.I.	7:30P	M
B First Initial Flow Pressure	57	P.S.I.	30	Mins.
C First Final Flow Pressure	51	P.S.I.	30	Mins.
D Initial Closed-in Pressure	871 *	P.S.I.	60	Mins.
E Second Initial Flow Pressure	Plugging Action	P.S.I.	60	Mins.
F Second Final Flow Pressure	85 *	P.S.I.		
G Final Closed-in Pressure	983	P.S.I.		
H Final Hydrostatic Mud	1418	P.S.I.		

* Pressures questionable due to plugging action

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>15</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>57</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>PLUGGING ACTION</u>	<u>0</u>	<u>85 *</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>PLUGGING ACTION</u>	<u>3</u>	<u>809 *</u>
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>307</u>	<u>10</u>	<u>PLUGGING ACTION</u>	<u>6</u>	<u>801</u>
P 4 <u>15</u>	<u>42</u>	<u>9</u>	<u>564 *</u>	<u>15</u>	<u>PLUGGING ACTION</u>	<u>9</u>	<u>871</u>
P 5 <u>20</u>	<u>46</u>	<u>12</u>	<u>696 *</u>	<u>20</u>	<u>PLUGGING ACTION</u>	<u>12</u>	<u>910</u>
P 6 <u>25</u>	<u>50</u>	<u>15</u>	<u>752 *</u>	<u>25</u>	<u>PLUGGING ACTION</u>	<u>15</u>	<u>928</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>736 *</u>	<u>30</u>	<u>PLUGGING ACTION</u>	<u>18</u>	<u>943</u>
P 8		<u>21</u>	<u>808 *</u>	<u>35</u>	<u>PLUGGING ACTION</u>	<u>21</u>	<u>953</u>
P 9		<u>24</u>	<u>847 *</u>	<u>40</u>	<u>PLUGGING ACTION</u>	<u>24</u>	<u>958</u>
P10		<u>27</u>	<u>871 *</u>	<u>45</u>	<u>PLUGGING ACTION</u>	<u>27</u>	<u>966</u>
P11				<u>50</u>	<u>PLUGGING ACTION</u>	<u>30</u>	<u>970</u>
P12				<u>55</u>	<u>PLUGGING ACTION</u>	<u>33</u>	<u>975</u>
P13				<u>60</u>	<u>85 *</u>	<u>36</u>	<u>979</u>
P14						<u>39</u>	<u>981</u>
P15						<u>42</u>	<u>981</u>
P16						<u>45</u>	<u>983</u>
P17							
P18							
P19							
P20							