



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 12157

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

Elevation 1266 K.B Formation BARTLESVILLE 5d Eff. Pay Ft.

District Augusta Date 5-21-81 Customer Order No.

COMPANY NAME RAYMOND Oil Company, Inc.

ADDRESS 900 ONE MAIN PLACE WICHITA KS 67202

LEASE AND WELL NO. Drake #1 COUNTY Cowley STATE KS Sec. 6 Twp. 30S Rge. 5E

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

Mail Charts To 11 Address No. Copies Requested

Formation Test No. 1 Interval Tested from 2802 ft. to 2825 ft. Total Depth 2825 ft.

Packer Depth 2802 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2797 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2810 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2822 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor R.P.A. Inc. Drill Collar Length 462 I. D. 3.25 in.

Mud Type Chemical Viscosity 35 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2319 I. D. 3.25 in.

Chlorides 2400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 23 ft. Size 5 1/2 in.

Did Well Flow? NO (4' or 5' 11") Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Med. Blow Thru-Out Test

Recovered 62' ft. of Slightly Oil & Water Cut Mud 3% oil 15% water 82% mud

Recovered 185' ft. of Slightly Oil Cut Water & Mud 3% oil 40% mud 57% water

Recovered 185' ft. of Gas

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 11:40 P.M. Time Pick Up Tool 11:50 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 1:45 P.M. Time Started Off Bottom 4:15 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 1450 P.S.I.

Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period Minutes 45 (D) 1215 P.S.I.

Final Flow Period Minutes 30 (E) 115 P.S.I. to (F) 94 P.S.I.

Final Closed In Period Minutes 45 (G) 1194 P.S.I.

Final Hydrostatic Pressure (H) 1420 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 Jim Hellman
Signature of Customer or his authorized representative

Western Representative James Ricketts Thank You.

FIELD INVOICE

Open Hole Test \$ 625.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 25 \$ 18.75
Fluid Sampler \$
Extra Charts \$
Insurance \$
TOTAL \$ 643.75

WESTERN TESTING CO., INC.

Pressure Data

Date 5-21 Recorder No. 10979 Capacity 4100 Test Ticket No. 12157
 Clock No. — Elevation 1266 KB Location 2810 Ft. Well Temperature — °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1441</u> P.S.I.		<u>1:45 A</u> M	
B First Initial Flow Pressure <u>40</u> P.S.I.		<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>59</u> P.S.I.		<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure <u>1217</u> P.S.I.		<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure <u>111</u> P.S.I.		<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure <u>103</u> P.S.I.			
G Final Closed-in Pressure <u>1199</u> P.S.I.			
H Final Hydrostatic Mud <u>1410</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>15</u> Inc.		Breakdown: <u>6</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 0	<u>40</u>	0	<u>59</u>	0	<u>111</u>	0	<u>103</u>
P 2 5	<u>39</u>	3	<u>873</u>	5	<u>111</u>	3	<u>894</u>
P 3 10	<u>47</u>	6	<u>981</u>	10	<u>110</u>	6	<u>979</u>
P 4 15	<u>47</u>	9	<u>1041</u>	15	<u>107</u>	9	<u>1023</u>
P 5 20	<u>50</u>	12	<u>1078</u>	20	<u>103</u>	12	<u>1055</u>
P 6 25	<u>55</u>	15	<u>1107</u>	25	<u>103</u>	15	<u>1080</u>
P 7 30	<u>59</u>	18	<u>1127</u>	30	<u>103</u>	18	<u>1102</u>
P 8 35		21	<u>1145</u>	35		21	<u>1121</u>
P 9 40		24	<u>1162</u>	40		24	<u>1133</u>
P10 45		27	<u>1172</u>	45		27	<u>1145</u>
P11 50		30	<u>1182</u>	50		30	<u>1156</u>
P12 55		33	<u>1193</u>	55		33	<u>1168</u>
P13 60		36	<u>1201</u>	60		36	<u>1174</u>
P14		39	<u>1207</u>	65		39	<u>1182</u>
P15		42	<u>1212</u>	70		42	<u>1191</u>
P16		45	<u>1217</u>	75		45	<u>1199</u>
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company Raymond Oil Company, Inc. Lease & Well No. Drake #1
 Elevation 1266 Kelly Bushing Formation Bartlesville Sand Effective Pay - Ft. Ticket No. 12157
 Date 5/21/81 Sec. 6 Twp. 30S Range 5E County Cowley State Kansas
 Test Approved by Tim Hellman Western Representative James Ricketts
 Formation Test No. 1 Interval Tested from 2802 ft. to 2825 ft. Total Depth 2825 ft.
 Packer Depth 2802 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2797 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2810 ft. Recorder Number 10979 Cap. 4100
 Bottom Recorder Depth (Outside) 2822 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor RRA Inc Drill Collar Length 462 I. D. 2.25 in.
 Mud Type Chemical Viscosity 35 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2319 I. D. 3.25 in.
 Chlorides 2400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 23 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 in.

Blow: Medium blow (4" or 5") throughout test

Recovered 62 ft. of slightly oil & water cut mud - 3% oil; 12% gas; 15% water; 7% mud
 Recovered 185 ft. of slightly oil cut water & mud - 3% oil; 40% mud; 57% water
 Recovered 185 ft. of gas
 Recovered ft. of
 Recovered ft. of

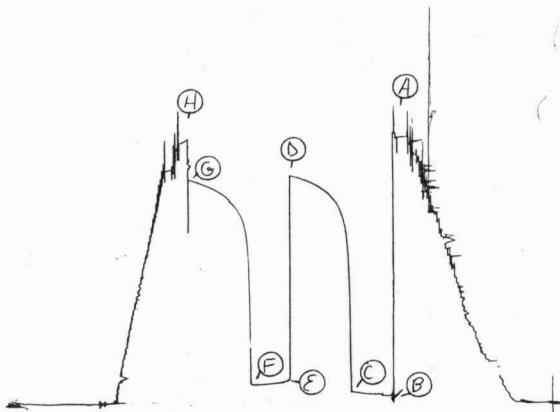
Remarks:

Time Set Packer(s) 1:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:15 ~~P.M.~~ ^{A.M.} Maximum Temperature -
 Initial Hydrostatic Pressure 1441 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 40 P.S.I. to (C) 59 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1217 P.S.I.
 Final Flow Period 30 Minutes (E) 111 P.S.I. to (F) 103 P.S.I.
 Final Closed In Period 45 Minutes (G) 1199 P.S.I.
 Final Hydrostatic Pressure 1410 (H) P.S.I.

TKT # 12157

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10979





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No

12158

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1266 K-B Formation Miss Eff. Pay Ft.District Augusta Date 5-21-81 Customer Order No. _____COMPANY NAME Raymond Oil Company, Inc.
ADDRESS 900 One Main Place Wichita KS. 67202LEASE AND WELL NO. DRAKE #1 COUNTY Cowley STATE KS Sec. 6 Twp 30S Rg SEMail Invoice To Same Co. Name _____ Address _____ No. Copies Requested _____Mail Charts To 11 Address _____ No. Copies Requested _____Formation Test No. 2 Interval Tested from 2861 ft. to 2876 ft. Total Depth 2876 ft.Packer Depth 2861 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.Packer Depth 2856 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2864 ft. Recorder Number 10979 Cap. 4100Bottom Recorder Depth (Outside) 2868 ft. Recorder Number 13240 Cap. 4500

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

Drilling Contractor R.R.A. Drill Collar Length 462' I. D. 2.25 in.Mud Type Chemical Viscosity 35 Weight Pipe Length _____ I. D. _____ in.Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2384 I. D. 3.25 in.Chlorides 2400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.Jars: Make HO 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 7/8 in. Tool Joint Size 4 1/2 x 60 in.Blow: Strong Thru-Out TestRecovered 2' ft. of Oil Cut SALT WATERRecovered 540 ft. of SALT WATER CA 10000 PPM

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location 1:10 A.M. Time Pick Up Tool 1:20 A.M. Time Off Location _____ A.M.Time Set Packer(s) 3:20 A.M. Time Started Off Bottom 5:50 A.M. Maximum Temperature _____Initial Hydrostatic Pressure _____ (A) 1450 P.S.I.Initial Flow Period _____ Minutes 30 (B) 52 P.S.I. to (C) 125 P.S.I.Initial Closed In Period _____ Minutes 95 (D) 1051 P.S.I.Final Flow Period _____ Minutes 30 (E) 188 P.S.I. to (F) 240 P.S.I.Final Closed In Period _____ Minutes 45 (G) 1051 P.S.I.Final Hydrostatic Pressure _____ (H) 1409 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 Jim Beltran
Signature of Customer or his authorized representativeWestern Representative James RickettsThank You

FIELD INVOICE

Open Hole Test \$ 825.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage 25 \$ 18.75
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 643.75

WESTERN TESTING CO., INC.

Pressure Data

Well No. 5-21 Test Ticket No. 12158
 Recorder No. 10979 Capacity 4100 Location 2864 Ft.
 Block No. Elevation 1266 KB Well Temperature °F

Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	<u>1450</u> P.S.I.	<u>3:20 P</u>	<u> </u> M
First Initial Flow Pressure	<u>56</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
First Final Flow Pressure	<u>131</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
Initial Closed-in Pressure	<u>1057</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
Second Initial Flow Pressure	<u>199</u> P.S.I.	<u>45</u> Mins.	<u>48</u> Mins.
Second Final Flow Pressure	<u>238</u> P.S.I.		
Final Closed-in Pressure	<u>1045</u> P.S.I.		
Final Hydrostatic Mud	<u>1409</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
of <u>6</u> Inc.		of <u>15</u> Inc.		of <u>6</u> Inc.		of <u>16</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 ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	<u>56</u>	0	<u>131</u>	0	<u>199</u>	0	<u>238</u>
2	<u>55</u>	3	<u>923</u>	5	<u>197</u>	3	<u>963</u>
3	<u>55</u>	6	<u>985</u>	10	<u>197</u>	6	<u>990</u>
4	<u>65</u>	9	<u>1008</u>	15	<u>213</u>	9	<u>1004</u>
5	<u>88</u>	12	<u>1018</u>	20	<u>226</u>	12	<u>1016</u>
6	<u>107</u>	15	<u>1031</u>	25	<u>232</u>	15	<u>1025</u>
7	<u>131</u>	18	<u>1037</u>	30	<u>238</u>	18	<u>1031</u>
8		21	<u>1043</u>	35		21	<u>1033</u>
9		24	<u>1047</u>	40		24	<u>1035</u>
10		27	<u>1049</u>	45		27	<u>1038</u>
11		30	<u>1050</u>	50		30	<u>1040</u>
12		33	<u>1052</u>	55		33	<u>1041</u>
13		36	<u>1053</u>	60		36	<u>1042</u>
14		39	<u>1054</u>	65		39	<u>1043</u>
15		42	<u>1055</u>	70		42	<u>1044</u>
16		45	<u>1057</u>	75		45	<u>1045</u>
17		48		80		48	<u>1045</u>
18		51		85		51	
19		54		90		54	
20		57				57	
		60				60	

Company Raymond Oil Company, Inc. Lease & Well No. Drake #1
Elevation 1266 Kelly Bushing Mississippi Effective Pay - Ft. Ticket No. 12158
Date 5/21/81 Sec. 6 Twp. 30S Range 5E County Cowley State Kansas
Test Approved by Tim Hellman Western Representative James Ricketts

Formation Test No. 2 Interval Tested from 2861 ft. to 2876 ft. Total Depth 2876 ft.

Packer Depth 2861 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2856 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2864 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2868 ft. Recorder Number 13240 Cap. 4500

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

Drilling Contractor R. R. A. Drlg. Drill Collar Length 462 I. D. 2.25 in.

Mud Type chemical Viscosity 35 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2384 I. D. 3.25 in.

Chlorides 2,400 P.P.M. Test Tool Length 21 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: Strong throughout test.

Recovered 2 ft. of oil cut salt water

Recovered 540 ft. of salt water Chlorides 53,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 3:20 ~~A.M.~~ P.M. Time Started Off Bottom 5:50 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure 1450 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 56 P.S.I. to (C) 131 P.S.I.

Initial Closed In Period 45 Minutes (D) 1057 P.S.I.

Final Flow Period 30 Minutes (E) 199 P.S.I. to (F) 238 P.S.I.

Final Closed In Period 48 Minutes (G) 1045 P.S.I.

Final Hydrostatic Pressure 1409 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/21/81 Test Ticket No. 12158
 Recorder No. 10979 Capacity 4100 Location 2864 Ft.
 Clock No. - Elevation 1266 Kelly Bushing Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1450 P.S.I.	Open Tool	3:20P	M
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	131 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1057 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	199 P.S.I.	Final Closed-in Pressure	45 Mins.	48 Mins.
F Second Final Flow Pressure	238 P.S.I.			
G Final Closed-in Pressure	1045 P.S.I.			
H Final Hydrostatic Mud	1409 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>16</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>56</u>	<u>0</u>	<u>131</u>	<u>0</u>	<u>199</u>	<u>0</u>	<u>238</u>
P 2 <u>5</u>	<u>55</u>	<u>3</u>	<u>923</u>	<u>5</u>	<u>197</u>	<u>3</u>	<u>963</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>985</u>	<u>10</u>	<u>197</u>	<u>6</u>	<u>990</u>
P 4 <u>15</u>	<u>65</u>	<u>9</u>	<u>1008</u>	<u>15</u>	<u>213</u>	<u>9</u>	<u>1004</u>
P 5 <u>20</u>	<u>88</u>	<u>12</u>	<u>1018</u>	<u>20</u>	<u>226</u>	<u>12</u>	<u>1016</u>
P 6 <u>25</u>	<u>107</u>	<u>15</u>	<u>1031</u>	<u>25</u>	<u>232</u>	<u>15</u>	<u>1025</u>
P 7 <u>30</u>	<u>131</u>	<u>18</u>	<u>1037</u>	<u>30</u>	<u>238</u>	<u>18</u>	<u>1031</u>
P 8		<u>21</u>	<u>1043</u>			<u>21</u>	<u>1033</u>
P 9		<u>24</u>	<u>1047</u>			<u>24</u>	<u>1035</u>
P10		<u>27</u>	<u>1049</u>			<u>27</u>	<u>1038</u>
P11		<u>30</u>	<u>1050</u>			<u>30</u>	<u>1040</u>
P12		<u>33</u>	<u>1052</u>			<u>33</u>	<u>1041</u>
P13		<u>36</u>	<u>1053</u>			<u>36</u>	<u>1042</u>
P14		<u>39</u>	<u>1054</u>			<u>39</u>	<u>1043</u>
P15		<u>42</u>	<u>1055</u>			<u>42</u>	<u>1044</u>
P16		<u>45</u>	<u>1057</u>			<u>45</u>	<u>1045</u>
P17						<u>48</u>	<u>1045</u>
P18							
P19							
P20							

TKT # 12158
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