



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET NO 5970

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

Elevation 1555 CL Formation 1 Swope Eff. Pay Ft.

District Augusta Date 13 May 80 Customer Order No.  
COMPANY NAME Raymond Oil Company  
ADDRESS One Main Place ~~Wichita~~ Wichita Kansas 67202  
LEASE AND WELL NO. Hefling #1 COUNTY Reno STATE Kansas Sec. 10 Twp 26S Rge 4W  
Mail Invoice To Same Hefling #1 No. Copies Requested 1  
Co. Name Address  
Mail Charts To Same No. Copies Requested 5  
Address

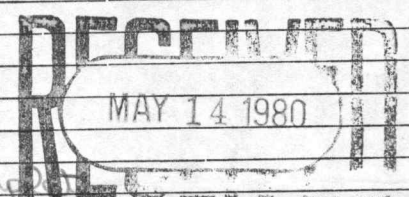
Formation Test No. 1 Interval Tested from 3272 ft. to 3285 ft. Total Depth 3285 ft.  
Packer Depth 3267 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
Packer Depth 3272 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3277 ft. Recorder Number 1559 Cap. 4200  
Bottom Recorder Depth (Outside) 3280 ft. Recorder Number 1558 Cap. 4200  
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co #2 Drill Collar Length 150' I. D. 2 1/4 in.  
Mud Type Pennyc Viscosity 34 Weight Pipe Length 270' I. D. - 2.7 in.  
Weight 9.6 Water Loss 10.6 cc. Drill Pipe Length 2832' I. D. 3.8 in.  
Chlorides 48000 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.  
Jars: Make - 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 in.

Blow: weak blow on initial flow period / fine blow on final flow period

Recovered 450 ft. of muddy salt water  
Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Remarks:



on location 7:00 AM / pick tool up 9:00 AM / job complete  
Time Set Packer(s) 10:40 A.M. Time Started Off Bottom 1:40 P.M. Maximum Temperature 114  
Initial Hydrostatic Pressure (A) 1683 P.S.I.  
Initial Flow Period Minutes 40 (B) 73 P.S.I. to (C) 125 P.S.I.  
Initial Closed In Period Minutes 30 (D) 1336 P.S.I.  
Final Flow Period Minutes 60 (E) 177 P.S.I. to (F) 219 P.S.I.  
Final Closed In Period Minutes 30 (G) 1336 P.S.I.  
Final Hydrostatic Pressure (H) 1672 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 Al Bowls  
Signature of Customer or his authorized representative  
Western Representative Wk Hager Thank You!

FIELD INVOICE  
Open Hole Test \$ 550.00  
Misrun \$  
Straddle Test \$  
Jars \$  
Selective Zone \$  
Safety Joint \$  
Standby \$  
Evaluation \$  
Extra Packer \$  
Circ. Sub. \$  
55 Mileage x 75¢ \$ 41.25  
Fluid Sampler \$  
Extra Charts \$  
TOTAL \$ 591.25

WESTERN TESTING CO., INC.

Pressure Data

Date 5-13-80

Test Ticket No. 5970

Recorder No. 1559

Capacity 4200

Location 3285 Ft.

Clock No. \_\_\_\_\_

Elevation 1555 Y L

Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1717</u> P.S.I.	<u>10:40 A</u> M	
B First Initial Flow Pressure	<u>69</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>117</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1334</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>176</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>217</u> P.S.I.		
G Final Closed-in Pressure	<u>1339</u> P.S.I.		
H Final Hydrostatic Mud	<u>1671</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure  
Breakdown: 12 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.

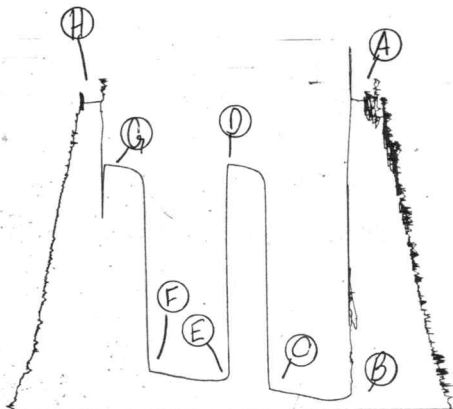
Second Flow Pressure  
Breakdown: 12 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

Final Shut-In  
Breakdown: 11 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>69</u>	0	<u>117</u>	0	<u>176</u>	0	<u>217</u>
P 2 5	<u>63</u>	3	<u>731</u>	5	<u>171</u>	3	<u>824</u>
P 3 10	<u>56</u>	6	<u>1257</u>	10	<u>167</u>	6	<u>1270</u>
P 4 15	<u>53</u>	9	<u>1295</u>	15	<u>169</u>	9	<u>1297</u>
P 5 20	<u>56</u>	12	<u>1303</u>	20	<u>169</u>	12	<u>1311</u>
P 6 25	<u>64</u>	15	<u>1311</u>	25	<u>174</u>	15	<del>1320</del>
P 7 30	<u>71</u>	18	<u>1318</u>	30	<u>180</u>	18	<u>1326</u> <del>1334</del>
P 8 35	<u>82</u>	21	<u>1324</u>	35	<u>186</u>	21	<u>1330</u>
P 9 40	<u>91</u>	24	<u>1328</u>	40	<u>192</u>	24	<u>1332</u>
P10 45	<u>96</u>	27	<u>1332</u>	45	<u>201</u>	27	<u>1334</u>
P11 50	<u>105</u>	30	<u>1334</u>	50	<u>209</u>	30	<u>1336</u>
P12 55	<u>111</u>	<u>33</u>		55	<u>213</u>	33	<u>1339</u>
P13 60	<u>117</u>	<u>36</u>		60	<u>217</u>	<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</u>	
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

TKI#5970

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Company Raymond Oil Company, Inc. Lease & Well No. Hefling #1  
 Elevation 1555 Ground Level Level Swope Effective Pay --- Ft. Ticket No. 5970  
 Date 5/13/80 Sec. 10 Twp. 26S Range 4W County Reno State Kansas  
 Test Approved by R. E. Rowland Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 3272 ft. to 3285 ft. Total Depth 3285 ft.  
 Packer Depth 3267 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3272 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3277 ft. Recorder Number 1559 Cap. 4200  
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 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co. #2 Drill Collar Length 150 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 34 Weight Pipe Length 270 I. D. 2.7 in.  
 Weight 9.6 Water Loss 10.6 cc. Drill Pipe Length 2832 I. D. 3.8 in.  
 Chlorides 48,000 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.  
 Jars: Make - 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 Tool Joint Size 4 1/2 FH in.

Blow: Weak blow on initial flow period/fair blow on final flow period.

Recovered 450 ft. of muddy salt water  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_  
 \_\_\_\_\_

Time Set Packer(s) 10:40 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 1:40 ~~A.M.~~ <sup>P.M.</sup> Maximum Temperature 114°  
 Initial Hydrostatic Pressure ..... (A) 1717 P.S.I.  
 Initial Flow Period ..... Minutes 60 (B) 69 P.S.I. to (C) 117 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 1334 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 176 P.S.I. to (F) 217 P.S.I.  
 Final Closed In Period ..... Minutes 33 (G) 1339 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1671 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 5/13/80 Test Ticket No. 5970  
 Recorder No. 1559 Capacity 4200 Location 3285 Ft.  
 Clock No. - Elevation 1555 Ground Level Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1717</u>	P.S.I.	<u>10:40A</u> M	
B First Initial Flow Pressure	<u>69</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>117</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1334</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>176</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>217</u>	P.S.I.		
G Final Closed-in Pressure	<u>1339</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1671</u>	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	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 Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>69</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>176</u>	<u>0</u>	<u>217</u>	
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>731</u>	<u>5</u>	<u>171</u>	<u>3</u>	<u>824</u>	
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>1257</u>	<u>10</u>	<u>167</u>	<u>6</u>	<u>1270</u>	
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>1295</u>	<u>15</u>	<u>169</u>	<u>9</u>	<u>1297</u>	
P 5 <u>20</u>	<u>56</u>	<u>12</u>	<u>1303</u>	<u>20</u>	<u>169</u>	<u>12</u>	<u>1311</u>	
P 6 <u>25</u>	<u>64</u>	<u>15</u>	<u>1311</u>	<u>25</u>	<u>174</u>	<u>15</u>	<u>1320</u>	
P 7 <u>30</u>	<u>71</u>	<u>18</u>	<u>1318</u>	<u>30</u>	<u>180</u>	<u>18</u>	<u>1326</u>	
P 8 <u>35</u>	<u>82</u>	<u>21</u>	<u>1324</u>	<u>35</u>	<u>186</u>	<u>21</u>	<u>1330</u>	
P 9 <u>40</u>	<u>91</u>	<u>24</u>	<u>1328</u>	<u>40</u>	<u>192</u>	<u>24</u>	<u>1332</u>	
P10 <u>45</u>	<u>96</u>	<u>27</u>	<u>1332</u>	<u>45</u>	<u>201</u>	<u>27</u>	<u>1334</u>	
P11 <u>50</u>	<u>105</u>	<u>30</u>	<u>1334</u>	<u>50</u>	<u>209</u>	<u>30</u>	<u>1336</u>	
P12 <u>55</u>	<u>111</u>			<u>55</u>	<u>213</u>	<u>33</u>	<u>1339</u>	
P13 <u>60</u>	<u>117</u>			<u>60</u>	<u>217</u>			
P14								
P15								
P16								
P17								
P18								
P19								
P20								



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 5971

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

Elevation 1555 GL Formation Harttha Eff. Pay Ft.

District Augusta Date 14 May 80 Customer Order No.

COMPANY NAME Raymond Oil Company Inc.

ADDRESS One Main Place Wichita Ks. 67202

LEASE AND WELL NO. Hefling #1 COUNTY Reno STATE Kan Sec. 10 Twp 26S Rge 4W

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

Mail Charts To Same Address No. Copies Requested 5

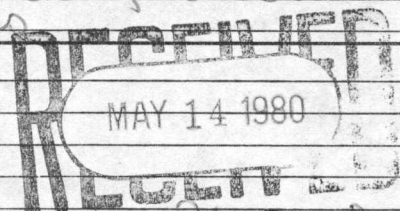
Formation Test No. 2 Interval Tested from 3314 ft. to 3340 ft. Total Depth 3340 ft. Packer Depth 3309 ft. Size 6 3/4 in. Packer Depth 3314 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3324 ft. Recorder Number 1559 Cap 4200 Bottom Recorder Depth (Outside) 3327 ft. Recorder Number 1558 Cap 4200 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Brandt Drilling Co #2 Mud Type Premix Viscosity 34 Weight 9.6 Water Loss 10.6 cc. Chlorides 48000 P.P.M. Jars: Make - Serial Number - Did Well Flow? No Reversed Out yes Drill Collar Length 90' I. D. 2 1/4 in. Weight Pipe Length 270' I. D. 2.7 in. Drill Pipe Length 2934' I. D. 3.8 in. Test Tool Length 46 ft. Tool Size 5 1/2 in. Anchor Length 26 ft. Size 5 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 in.

Blow: Strong blow on initial flow period / strong blow on final flow period see remarks

Recovered 960 ft. of gas in pipe Recovered 1800 ft. of heavy oil & gas cut mud Recovered 400 ft. of oil & gas cut salt water Recovered 120 ft. of salt water Recovered 280 ft. of Remarks: Dip stop 10' to bottom / gas to surface on final flow period on location 11:00pm / pick stop up 11:45 / job complete



Time Set Packer(s) 1:30 A.M. Time Started Off Bottom 4:00 A.M. Maximum Temperature 115 Initial Hydrostatic Pressure (A) 1694 P.S.I. Initial Flow Period Minutes 30 (B) 240 P.S.I. to (C) 481 P.S.I. Initial Closed In Period Minutes 30 (D) 1273 P.S.I. Final Flow Period Minutes 30 (E) 647 P.S.I. to (F) 762 P.S.I. Final Closed In Period Minutes 30 60 (G) 1294 P.S.I. Final Hydrostatic Pressure (H) 1662 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 OK Hager Thank You!

FIELD INVOICE

Open Hole Test \$ 550.00 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub \$ 30.00 Mileage x 75¢ \$ 41.25 Fluid Sampler \$ Extra Charts \$

TOTAL \$ 621.25

WESTERN TESTING CO., INC.

Pressure Data

Date 5-14-80 Recorder No. 1559 Capacity 4200 Location 3340 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1555 H 2 Well Temperature 115 °F  
 Test Ticket No. 5971

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1686</u>	P.S.I.	Open Tool	<u>1:30 A</u>	M
B First Initial Flow Pressure	<u>230</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>483</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1272</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>648</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>754</u>	P.S.I.			
G Final Closed-in Pressure	<u>1297</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1656</u>	P.S.I.			

PRESSURE BREAKDOWN

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

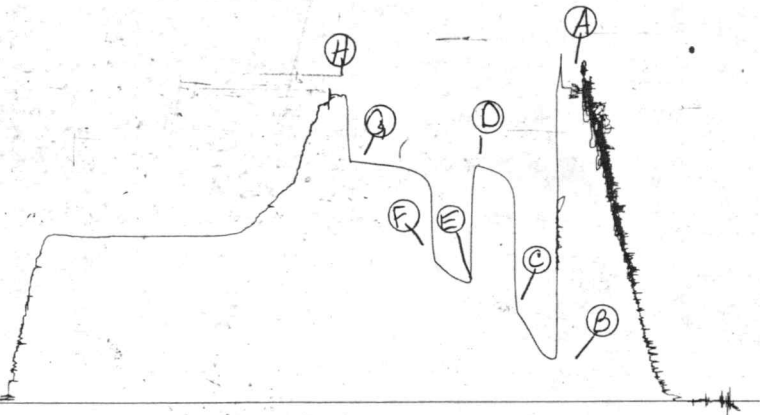
Initial Shut-In  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

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

Final Shut-In  
 Breakdown: 60 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	<u>0</u>	<u>230</u>	<u>0</u>	<u>483</u>	<u>0</u>	<u>648</u>	<u>0</u>	<u>754</u>
P 2	<u>5</u>	<u>232</u>	<u>3</u>	<u>1063</u>	<u>5</u>	<u>652</u>	<u>3</u>	<u>1086</u>
P 3	<u>10</u>	<u>255</u>	<u>6</u>	<u>1165</u>	<u>10</u>	<u>664</u>	<u>6</u>	<u>1188</u>
P 4	<u>15</u>	<u>309</u>	<u>9</u>	<u>1199</u>	<u>15</u>	<u>687</u>	<u>9</u>	<u>1213</u>
P 5	<u>20</u>	<u>382</u>	<u>12</u>	<u>1219</u>	<u>20</u>	<u>720</u>	<u>12</u>	<u>1232</u>
P 6	<u>25</u>	<u>443</u>	<u>15</u>	<u>1234</u>	<u>25</u>	<u>754</u>	<u>15</u>	<u>1242</u>
P 7	<u>30</u>	<u>483</u>	<u>18</u>	<u>1245</u>	<u>30</u>		<u>18</u>	<u>1251</u>
P 8	<u>35</u>		<u>21</u>	<u>1253</u>	<u>35</u>		<u>21</u>	<u>1256</u>
P 9	<u>40</u>		<u>24</u>	<u>1259</u>	<u>40</u>		<u>24</u>	<u>1261</u>
P10	<u>45</u>		<u>27</u>	<u>1265</u>	<u>45</u>		<u>27</u>	<u>1265</u>
P11	<u>50</u>		<u>30</u>	<u>1272</u>	<u>50</u>		<u>30</u>	<u>1270</u>
P12	<u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>1273</u>
P13	<u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>1276</u>
P14			<u>39</u>		<u>65</u>		<u>39</u>	<u>1279</u>
P15			<u>42</u>		<u>70</u>		<u>42</u>	<u>1281</u>
P16			<u>45</u>		<u>75</u>		<u>45</u>	<u>1284</u>
P17			<u>48</u>		<u>80</u>		<u>48</u>	<u>1287</u>
P18			<u>51</u>		<u>85</u>		<u>51</u>	<u>1290</u>
P19			<u>54</u>		<u>90</u>		<u>54</u>	<u>1293</u>
P19			<u>57</u>				<u>57</u>	<u>1295</u>
P20			<u>60</u>				<u>60</u>	<u>1297</u>

TK # 5971  
I



Company Raymond Oil Company, Inc. Lease & Well No. Hefling #1  
 Elevation 1555 Ground Level Formation Hertha Effective Pay ----- Ft. Ticket No. 5971  
 Date 5/14/80 Sec. 10 Twp. 26S Range 4W County Reno State Kansas  
 Test Approved by R. E. Rowland Western Representative W. K. Hager

Formation Test No. 2 Interval Tested from 3314 ft. to 3340 ft. Total Depth 3340 ft.  
 Packer Depth 3309 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3314 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3324 ft. Recorder Number 1559 Cap. 4200  
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 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Brandt Drilling Co. #2 Drill Collar Length 90 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 34 Weight Pipe Length 270 I. D. 2.7 in.  
 Weight 9.6 Water Loss 10.6 cc. Drill Pipe Length 2934 I. D. 3.8 in.  
 Chlorides 48,000 P.P.M. Test Tool Length 46 ft. Tool Size 5 1/2 in.  
 Jars: Make -- Serial Number - Anchor Length 26 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 on final flow period.  
See remarks.

Recovered 960 ft. of gas in pipe  
 Recovered 1800 ft. of heavy oil and gas cut mud  
 Recovered 460 ft. of oil and gas cut salt water  
 Recovered 120 ft. of salt water  
 Recovered        ft. of       

Remarks: Slid tool ten feet to bottom/gas to surface on final shut-in period.

Time Set Packer(s) 1:30 ~~P.M.~~<sup>A.M.</sup> Time Started Off Bottom 4:00 ~~P.M.~~<sup>A.M.</sup> Maximum Temperature 115°  
 Initial Hydrostatic Pressure ..... (A) 1686 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 230 P.S.I. to (C) 483 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 1272 P.S.I.  
 Final Flow Period ..... Minutes 25 (E) 648 P.S.I. to (F) 754 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 1297 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1656 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 5/14/80 Test Ticket No. 5971  
 Recorder No. 1559 Capacity 4200 Location 3340 Ft.  
 Clock No. - Elevation 1555 Ground Level Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1686</u> P.S.I.	Open Tool	<u>1:30A</u> M	
B First Initial Flow Pressure	<u>230</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>483</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1272</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>648</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>754</u> P.S.I.			
G Final Closed-in Pressure	<u>1297</u> P.S.I.			
H Final Hydrostatic Mud	<u>1656</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>5</u> Inc.		Breakdown: <u>60</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>230</u>	<u>0</u>	<u>483</u>	<u>0</u>	<u>648</u>	<u>0</u>	<u>754</u>
P 2 <u>5</u>	<u>232</u>	<u>3</u>	<u>1063</u>	<u>5</u>	<u>652</u>	<u>3</u>	<u>1086</u>
P 3 <u>10</u>	<u>255</u>	<u>6</u>	<u>1165</u>	<u>10</u>	<u>664</u>	<u>6</u>	<u>1188</u>
P 4 <u>15</u>	<u>309</u>	<u>9</u>	<u>1199</u>	<u>15</u>	<u>687</u>	<u>9</u>	<u>1213</u>
P 5 <u>20</u>	<u>382</u>	<u>12</u>	<u>1219</u>	<u>20</u>	<u>720</u>	<u>12</u>	<u>1232</u>
P 6 <u>25</u>	<u>443</u>	<u>15</u>	<u>1234</u>	<u>25</u>	<u>754</u>	<u>15</u>	<u>1242</u>
P 7 <u>30</u>	<u>483</u>	<u>18</u>	<u>1245</u>			<u>18</u>	<u>1251</u>
P 8		<u>21</u>	<u>1253</u>			<u>21</u>	<u>1256</u>
P 9		<u>24</u>	<u>1259</u>			<u>24</u>	<u>1261</u>
P10		<u>27</u>	<u>1265</u>			<u>27</u>	<u>1265</u>
P11		<u>30</u>	<u>1272</u>			<u>30</u>	<u>1270</u>
P12						<u>33</u>	<u>1273</u>
P13						<u>36</u>	<u>1276</u>
P14						<u>39</u>	<u>1279</u>
P15						<u>42</u>	<u>1281</u>
P16						<u>45</u>	<u>1284</u>
P17						<u>48</u>	<u>1287</u>
P18						<u>51</u>	<u>1290</u>
P19						<u>54</u>	<u>1293</u>
P20						<u>57</u>	<u>1295</u>
						<u>60</u>	<u>1297</u>