



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 4421

Elevation 1679 G.L. Formation Indian Cave Eff. Pay — Ft.

District Pratt Date 1/11/80 Customer Order No. —
COMPANY NAME Raymond Oil Company Inc
ADDRESS One Main Street Suite 200 Wichita Ks 67202
LEASE AND WELL NO. Tiesmeyer #1 COUNTY Kingman STATE Ks Sec. 12 Twp. 29S Rge. 9W
Mail Invoice To Same No. Copies Requested 5
Co. Name Address
Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 2385 ft. to 2444 ft. Total Depth 2444 ft.
Packer Depth — ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Packer Depth 2385 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) <u>2402</u> ft.	Recorder Number <u>2607</u>	Cap. <u>4150</u>
Bottom Recorder Depth (Outside) <u>2405</u> ft.	Recorder Number <u>3351</u>	Cap. <u>4000</u>
Below Straddle Recorder Depth <u>—</u> ft.	Recorder Number <u>—</u>	Cap. <u>—</u>
Drilling Contractor <u>Graves Drlg Rig #1</u>	Drill Collar Length <u>125</u>	I. D. <u>2 1/4</u> in.
Mud Type <u>Pemix</u> Viscosity <u>36</u>	Weight Pipe Length <u>—</u>	I. D. <u>—</u> in.
Weight <u>9.8</u> Water Loss <u>72.8</u> cc.	Drill Pipe Length <u>2245</u>	I. D. <u>3.8</u> in.
Chlorides <u>93,000</u> P.P.M.	Test Tool Length <u>15</u> ft.	Tool Size <u>5500</u> in.
Jars: Make <u>—</u> Serial Number <u>—</u>	Anchor Length <u>59</u> ft.	Size <u>5500</u> in.
Did Well Flow? <u>Yes</u> Reversed Out <u>No</u>	Surface Choke Size <u>3/4</u> in.	Bottom Choke Size <u>4 1/2</u> in.
	Main Hole Size <u>7 7/8</u> in.	Tool Joint Size <u>4 1/2 FH</u> in.

Blow: Strong blow throughout flow periods Flowed salt water after 10 min on second flow
Gase surface in 15 min on first flow

Recovered 855 ft. of Gassy Salt Water (79,000 p.p.m)
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —

Remarks: —

Time Set Packer(s) <u>7:00</u> <u>A.M.</u>	Time Started Off Bottom <u>9:45</u> <u>A.M.</u>	Maximum Temperature <u>95.2</u>
Initial Hydrostatic Pressure <u>—</u>	(A) <u>1269</u> P.S.I.	
Initial Flow Period <u>30</u> Minutes	(B) <u>190</u> P.S.I.	to (C) <u>497</u> P.S.I.
Initial Closed In Period <u>60</u> Minutes	(D) <u>841</u> P.S.I.	
Final Flow Period <u>15</u> Minutes	(E) <u>518</u> P.S.I.	to (F) <u>560</u> P.S.I.
Final Closed In Period <u>60</u> Minutes	(G) <u>841</u> P.S.I.	
Final Hydrostatic Pressure <u>—</u>	(H) <u>1248</u> 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 Sinathy D. Hallman
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thand Goes

FIELD INVOICE

Open Hole Test	\$ <u>500.00</u>
Misrun	\$ <u>—</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>—</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Standby	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Extra Packer	\$ <u>—</u>
Circ. Sub.	\$ <u>—</u>
Mileage	\$ <u>—</u>
Fluid Sampler	\$ <u>—</u>
Extra Charts	\$ <u>—</u>

TOTAL \$ 500.00



GAS FLOW REPORT

Nº 1886

Date 1/11/80 Ticket #4421 Company Raymond Oil Co
Well Name and No. Tiesmeyer #1 Dst No. 1 Interval Tested 2385-2444
County Kingman State Ks Sec. 12 Twp. 29 Rg. 9

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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[illegible]

SECOND FLOW

[illegible]

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

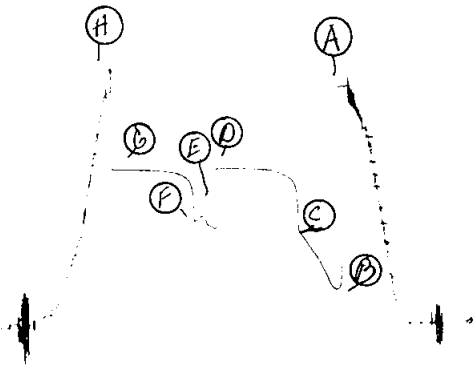
Pressure Data

Date 1-11-80 Test Ticket No. 4421
 Recorder No. 2607 Capacity 4150 Location 2402 Ft.
 Clock No. _____ Elevation 1679 H.L. Well Temperature 95 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1284 P.S.I. Open Tool 7:00 A M
 B First Initial Flow Pressure 193 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 512 P.S.I. Initial Closed-in Pressure 60 Mins. 60 Mins.
 D Initial Closed-in Pressure 851 P.S.I. Second Flow Pressure 15 Mins. 15 Mins.
 E Second Initial Flow Pressure 529 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 569 P.S.I.
 G Final Closed-in Pressure 850 P.S.I.
 H Final Hydrostatic Mud 1259 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>3</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 <u>0</u>	<u>193</u>	<u>0</u>	<u>512</u>	<u>0</u>	<u>529</u>	<u>0</u>	<u>569</u>
P 2 <u>5</u>	<u>199</u>	<u>3</u>	<u>750</u>	<u>5</u>	<u>550</u>	<u>3</u>	<u>766</u>
P 3 <u>10</u>	<u>265</u>	<u>6</u>	<u>789</u>	<u>10</u>	<u>592</u>	<u>6</u>	<u>797</u>
P 4 <u>15</u>	<u>339</u>	<u>9</u>	<u>804</u>	<u>15</u>	<u>569</u>	<u>9</u>	<u>814</u>
P 5 <u>20</u>	<u>394</u>	<u>12</u>	<u>814</u>	<u>20</u>		<u>12</u>	<u>824</u>
P 6 <u>25</u>	<u>449</u>	<u>15</u>	<u>824</u>	<u>25</u>		<u>15</u>	<u>829</u>
P 7 <u>30</u>	<u>512</u>	<u>18</u>	<u>831</u>	<u>30</u>		<u>18</u>	<u>832</u>
P 8 <u>35</u>		<u>21</u>	<u>837</u>	<u>35</u>		<u>21</u>	<u>834</u>
P 9 <u>40</u>		<u>24</u>	<u>841</u>	<u>40</u>		<u>24</u>	<u>837</u>
P 10 <u>45</u>		<u>27</u>	<u>843</u>	<u>45</u>		<u>27</u>	<u>839</u>
P 11 <u>50</u>		<u>30</u>	<u>845</u>	<u>50</u>		<u>30</u>	<u>841</u>
P 12 <u>55</u>		<u>33</u>	<u>846</u>	<u>55</u>		<u>33</u>	<u>842</u>
P 13 <u>60</u>		<u>36</u>	<u>847</u>	<u>60</u>		<u>36</u>	<u>843</u>
P 14		<u>39</u>	<u>848</u>	<u>65</u>		<u>39</u>	<u>844</u>
P 15		<u>42</u>	<u>849</u>	<u>70</u>		<u>42</u>	<u>845</u>
P 16		<u>45</u>	<u>850</u>	<u>75</u>		<u>45</u>	<u>845</u>
P 17		<u>48</u>	<u>851</u>	<u>80</u>		<u>48</u>	<u>846</u>
P 18		<u>51</u>		<u>85</u>		<u>51</u>	<u>847</u>
P 19		<u>54</u>		<u>90</u>		<u>54</u>	<u>848</u>
P 20		<u>57</u>				<u>57</u>	<u>848</u>
		<u>60</u>	<u>851</u>			<u>60</u>	<u>850</u>

Plot # 4421
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Company Raymond Oil Company, Inc. Lease & Well No. Tiesmeyer #1
Elevation 1679 Ground Level Formation Indian Cave Effective Pay -- Ft. Ticket No. 4421
Date 1/11/80 Sec. 12 Twp. 29S Range 9W County Kingman State Kansas
Test Approved by Timothy D. Hellman Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 2385 ft. to 2444 ft. Total Depth 2444 ft.

Packer Depth 2385 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) 2402 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 2405 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Graves Drilling Co. Rig #1 Drill Collar Length 125 I. D. 2 1/4 in.

Mud Type premix Viscosity 36 Weight Pipe Length -- I. D. -- in.

Weight 9.8 Water Loss 72.8 cc. Drill Pipe Length 2245 I. D. 3.8 in.

Chlorides 93,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number -- Anchor Length 59 ft. Size 5 1/2 OD in.

Did Well Flow? Yes 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: Strong blow throughout flow periods. Flowed salt water after ten minutes on second flow. Gas to surface in fifteen minutes on first flow. See attached sheet for gas measurements.

Recovered 855 ft. of gassy salt water (79,000 chlorides ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:00 A.M. Time Started Off Bottom 9:45 A.M. Maximum Temperature 95°

Initial Hydrostatic Pressure (A) 1284 P.S.I.

Initial Flow Period Minutes 30 (B) 193 P.S.I. to (C) 512 P.S.I.

Initial Closed In Period Minutes 60 (D) 851 P.S.I.

Final Flow Period Minutes 15 (E) 529 P.S.I. to (F) 569 P.S.I.

Final Closed In Period Minutes 60 (G) 850 P.S.I.

Final Hydrostatic Pressure (H) 1259 P.S.I.

GAS FLOW REPORT

Date 1/11/80 Ticket 4421 Company Raymond Oil Company, Inc.
 Well Name and No. Tiesmeyer #1 Dst No. 1 Interval Tested 2385'-2444'
 County Kingman State Kansas Sec. 12 Twp. 29S Rg. 9W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
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Gas to surface in fifteen minutes. **PRE FLOW**

	20 min.	40" of	water 1/2" orifice			39,600 CFPD
	30 min.	60" of	water 1/2" orifice			48,600 CFPD

SECOND FLOW

GAS BOTTLE

Serial No. ----- Date Bottle Filled ----- Date to be Invoiced 1/11/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Raymond Oil Company, Inc.

Authorized by Timothy D. Hellman

WESTERN TESTING CO., INC.

Pressure Data

Date 1/11/80 Recorder No. 2607 Capacity 4150 Test Ticket No. 4421
 Location 2402 Ft. Clock No. -- Elevation 1597 Ground Level Well Temperature 95 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1284 P.S.I.	Open Tool	7:00A	M
B First Initial Flow Pressure	193 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	512 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	851 P.S.I.	Second Flow Pressure	15 Mins.	15 Mins.
E Second Initial Flow Pressure	529 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	569 P.S.I.			
G Final Closed-in Pressure	850 P.S.I.			
H Final Hydrostatic Mud	1259 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>3</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 <u>0</u>	<u>193</u>	<u>0</u>	<u>512</u>	<u>0</u>	<u>529</u>	<u>0</u>	<u>569</u>
P 2 <u>5</u>	<u>199</u>	<u>3</u>	<u>750</u>	<u>5</u>	<u>550</u>	<u>3</u>	<u>766</u>
P 3 <u>10</u>	<u>265</u>	<u>6</u>	<u>789</u>	<u>10</u>	<u>592</u>	<u>6</u>	<u>797</u>
P 4 <u>15</u>	<u>339</u>	<u>9</u>	<u>804</u>	<u>15</u>	<u>569</u>	<u>9</u>	<u>874</u>
P 5 <u>20</u>	<u>394</u>	<u>12</u>	<u>814</u>			<u>12</u>	<u>824</u>
P 6 <u>25</u>	<u>449</u>	<u>15</u>	<u>824</u>			<u>15</u>	<u>829</u>
P 7 <u>30</u>	<u>512</u>	<u>18</u>	<u>831</u>			<u>18</u>	<u>832</u>
P 8		<u>21</u>	<u>837</u>			<u>21</u>	<u>834</u>
P 9		<u>24</u>	<u>841</u>			<u>24</u>	<u>837</u>
P10		<u>27</u>	<u>843</u>			<u>27</u>	<u>839</u>
P11		<u>30</u>	<u>845</u>			<u>30</u>	<u>841</u>
P12		<u>33</u>	<u>846</u>			<u>33</u>	<u>842</u>
P13		<u>36</u>	<u>847</u>			<u>36</u>	<u>843</u>
P14		<u>39</u>	<u>848</u>			<u>39</u>	<u>844</u>
P15		<u>42</u>	<u>849</u>			<u>42</u>	<u>845</u>
P16		<u>45</u>	<u>850</u>			<u>45</u>	<u>845</u>
P17		<u>48</u>	<u>851</u>			<u>48</u>	<u>846</u>
P18		<u>51</u>	<u>851</u>			<u>51</u>	<u>847</u>
P19		<u>54</u>	<u>851</u>			<u>54</u>	<u>848</u>
P20		<u>57</u>	<u>851</u>			<u>57</u>	<u>848</u>
WTC - 4		<u>60</u>	<u>851</u>			<u>60</u>	<u>850</u>