



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 3552

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

Elevation 1550' G.L. Formation Miss Eff. Pay Ft.

District Pratt Date 1/21/80 Customer Order No.

COMPANY NAME Raymond Oil Co

ADDRESS One Main Street Suite 900 Wichita Ks

LEASE AND WELL NO. Berry #1 COUNTY Kingman STATE Ks Sec. 1 Twp 30S Rge 9W

Mail Invoice To Same No. Copies Requested 5

Co. Name Address

Mail Charts To Same No. Copies Requested 5

Formation Test No. 1 Interval Tested from 4185 ft. to 4199 ft. Total Depth 4199 ft.

Packer Depth 4180 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4185 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4190 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4193 ft. Recorder Number 3351 * Cap. 4800

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Graves Drlg Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type Drispac Viscosity 58 Weight Pipe Length 4036 I. D. 3.8 in.

Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 4036 I. D. 3.8 in.

Chlorides 12,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 470 Anchor Length 14 ft. Size 5 1/2 in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 2 1/4 in. Bottom Choke Size 2 1/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods Gas to surface in 15 min on preflow see attached sheet for gas measurements.

Recovered 150 ft. of Gas Cut Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Read outside recorder # 3351.

Time Set Packer(s) 9:35 A.M. Time Started Off Bottom 11:20 P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure (A) 2190 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 60 (D) 54 P.S.I.

Final Flow Period Minutes 45 (E) 60 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes 90 (G) 53 P.S.I.

Final Hydrostatic Pressure (H) 2170 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 Hal Clark Signature of Customer or his authorized representative.

Western Representative Jim Worden Thank You

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$1550), Misrun, Straddle Test (\$275), Jars (\$35), Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, and TOTAL (\$860).



GAS FLOW REPORT

Nº 1887

Date 1/21/80 Ticket # 3552 Company Raymond Oil Co.
Well Name and No. Berry #1 Dst No. 1 Interval Tested 4185-4199
County Kingman State Ks Sec. 1 Twp. 30 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
PRE FLOW					
<i>Gas to surface in 15 min</i>					
20	84 ^{#0}	1"			73,100 C.F.P.D
25	10"	"			81,600 " "
30	12"	"			89,800 " "

SECOND FLOW					
5	19 ^{#0}	1"			113,000 C.F.P.D
10	18"	1"			110,000 " "
20	19"	1"			113,000 " "
30					
40					
45					Stabilized through rest of opening

GAS BOTTLE

Serial No. 628 Date Bottle Filled 1/21/80 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 Raymond Oil Co
Authorized by Hal Clark

WESTERN TESTING CO., INC.
Pressure Data

Date 1-21-80 Test Ticket No. 3552
 Recorder No. 2607 3351 Capacity 4150 4000 Location 41903 Ft.
 Clock No. _____ Elevation 1550 ft. Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2204</u>	P.S.I.	<u>9:35 A M</u>	
B First Initial Flow Pressure	<u>40</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>46</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>544</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>60</u>	P.S.I.	<u>90</u>	<u>80</u> Mins.
F Second Final Flow Pressure	<u>61</u>	P.S.I.		
G Final Closed-in Pressure	<u>531</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2167</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: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 30 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>40</u>	0	<u>46</u>	0	<u>60</u>	0	<u>61</u>
P 2	<u>36</u>	3	<u>444</u>	5	<u>57</u>	3	<u>400</u>
P 3	<u>36</u>	6	<u>484</u>	10	<u>57</u>	6	<u>446</u>
P 4	<u>39</u>	9	<u>510</u>	15		9	<u>468</u>
P 5	<u>42</u>	12	<u>518</u>	20		12	<u>480</u>
P 6	<u>44</u>	15	<u>523</u>	25	<u>57</u>	15	<u>488</u>
P 7	<u>46</u>	18	<u>528</u>	30	<u>58</u>	18	<u>492</u>
P 8		21	<u>532</u>	35	<u>59</u>	21	<u>496</u>
P 9		24	<u>533</u>	40	<u>60</u>	24	<u>500</u>
P 10		27	<u>536</u>	45	<u>61</u>	27	<u>504</u>
P 11		30	<u>537</u>	50		30	<u>508</u>
P 12		33	<u>538</u>	55		33	<u>510</u>
P 13		36	<u>539</u>	60		36	<u>512</u>
P 14		39	<u>540</u>	65		39	<u>514</u>
P 15		42	<u>541</u>	70		42	<u>516</u>
P 16		45	<u>542</u>	75		45	<u>518</u>
P 17		48	<u>542</u>	80		48	<u>520</u>
P 18		51	<u>543</u>	85		51	<u>521</u>
P 19		54	<u>543</u>	90		54	<u>522</u>
P 20		57	<u>544</u>			57	<u>523</u>
		60	<u>544</u>			60	<u>524</u>

WESTERN TESTING CO. INC.
Pressure Data

Test Ticket No. 3552

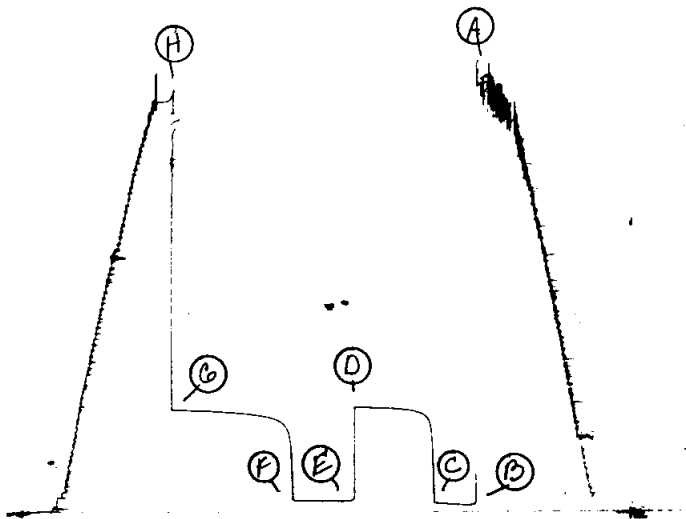
Well No. _____ Capacity _____ Location _____
 Well No. _____ Elevation _____ Well Temperature _____

Pressure		Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
1st Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins	Min
1st Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins	Min
1st Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins	Min
2nd Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins	Min
2nd Final Flow Pressure	P.S.I.			
3rd Initial Closed-in Pressure	P.S.I.			
3rd Final Flow Pressure	P.S.I.			
4th Initial Closed-in Pressure	P.S.I.			
4th Final Flow Pressure	P.S.I.			

PRESSURE BREAKDOWN

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.
63			525
66			526
69			527
72			528
75			528
78			529
81			529
84			530
87			530
90			531
93			
96			
99			
102			
105			
108			
111			
114			
117			
120			

TKT # 3552
0



51

Company Raymond Oil Company, Inc. Lease & Well No. Berry #1
 Elevation 1550 Ground Level Formation Mississippi Effective Pay -- Ft. Ticket No. 3552
 Date 1/21/80 Sec 1 Twp 30S Range 9W County Kingman State Kansas
 Test Approved by Hal Clark Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4185' ft. to 4199' ft. Total Depth 4199' ft.
 Packer Depth 4180 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4185 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4190 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4193 ft. Recorder Number 3351 * Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 58 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 4036 I. D. 3.8 in.
 Chlorides 12,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 14 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. Gas to surface in fifteen minutes on pre-flow. See attached sheet for gas measurements.

Recovered 150 ft. of gas cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: *READ OUTSIDE RECORDER #3351

Time Set Packer(s)	<u>9:35</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>1:20</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>121°</u>
Initial Hydrostatic Pressure			(A)	<u>2204</u>	P.S.I.		
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>40</u>	P.S.I. to (C)	<u>46</u>	P.S.I.
Initial Closed In Period	Minutes	<u>60</u>	(D)	<u>544</u>	P.S.I.		
Final Flow Period	Minutes	<u>45</u>	(E)	<u>60</u>	P.S.I. to (F)	<u>61</u>	P.S.I.
Final Closed In Period	Minutes	<u>90</u>	(G)	<u>531</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>2167</u>	P.S.I.		

GAS FLOW REPORT

Date 1/21/80 Ticket 3552 Company Raymond Oil Company, Inc.
 Well Name and No. Berry #1 Dst No. 1 Interval Tested 4185'-4199'
 County Kingman State Kansas Sec. 1 Twp. 30S 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
Gas to surface in fifteen minutes. PRE FLOW						
	20 min.	8" of water	1" orifice			73,100 CFPD
	25 min.	10" of water	1" orifice			81,600 CFPD
	30 min.	12" of water	1" orifice			89,800 CFPD

SECOND FLOW

	5 min.	19" of water	1" orifice			113,000 CFPD
	10 min.	18" of water	1" orifice			110,000 CFPD
	20 min.	19" of water	1" orifice			113,000 CFPD
	30 min.	19" of water	1" orifice			113,000 CFPD Stabalized through
	40 min.	19" of water	1" orifice			113 000 CFPD rest of opening.
	45 min.	19" of water	1" orifice			113,000 CFPD

GAS BOTTLE

Serial No. 628 Date Bottle Filled 1/21/80 Date to be Invoiced 1/21/80

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 Hal Clark

WESTERN TESTING CO., INC.

Pressure Data

Date 1-21-80 Test Ticket No. 3552
 Recorder No. 3351 Capacity 4000 Location 4193 Ft.
 Clock No. - Elevation 1550 Ground Level Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2204	P.S.I.	9:35A.	M
B First Initial Flow Pressure	40	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	46	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	544	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	60	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	61	P.S.I.		
G Final Closed-in Pressure	531	P.S.I.		
H Final Hydrostatic Mud	2167	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>9</u> Inc.		Breakdown: <u>30</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	0	40	0	60	0	61
P 2	5	3	36	5	57	3	400
P 3	10	6	36	10	57	6	446
P 4	51	9	39	15	57	9	468
P 5	20	12	42	20	57	12	480
P 6	25	15	44	25	58	15	488
P 7	30	18	46	30	59	18	492
P 8		21		35	60	21	496
P 9		24		40	61	24	500
P10		27		45		27	504
P11		30				30	508
P12		33				33	510
P13		36				36	512
P14		39				39	514
P15		42				42	516
P16		45				45	518
P17		48				48	520
P18		51				51	521
P19		54				54	522
P20		57				57	523
		60				60	524

WESTERN TESTING CO., INC.
Pressure Data

Date 1-21-80

Test Ticket No. 3552

Recorder No. 3351 Capacity 4000

Location 4193 Ft.

Clock No. - Elevation 1550 Ground Level

Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2204	P.S.I.	9:35A.	M
B First Initial Flow Pressure	40	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	46	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	544	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	60	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	61	P.S.I.		
G Final Closed-in Pressure	531	P.S.I.		
H Final Hydrostatic Mud	2167	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: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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						63	525
P 2						66	526
P 3						69	527
P 4						72	528
P 5						75	528
P 6						78	529
P 7						81	529
P 8						84	530
P 9						87	530
P10						90	531
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 3553

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

Elevation 1550' G.L. Formation Miss Eff. Pay - Ft.

District Pratt Date 1/22/80 Customer Order No. -

COMPANY NAME Raymond Oil Co

ADDRESS One Main Plaza - Suite 900 Wichita KS

LEASE AND WELL NO. Berry #1 COUNTY Kingman STATE KS Sec. 1 Twp 30S Rge 9W

Mail Invoice To Same Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested from 4199 ft. to 4209 ft. Total Depth 4209 ft.

Packer Depth 4199 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4199 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4200 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4203 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Graves Drlg Rig #1 Drill Collar Length 120 I. D. 2 1/2 in.

Mud Type Drispac Viscosity 58 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 4050 I. D. 3.8 in.

Chlorides 12,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 10 ft. Size 5 1/2 OD in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods Gas to surface in 12 min on preflow see attached sheet for gas measurements

Recovered 100 ft. of Gas Cut Mud

Recovered 120 ft. of Muddy Water

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Remarks:

Time Set Packer(s) 11:30 A.M. Time Started Off Bottom 3:13 A.M. Maximum Temperature 121°

Initial Hydrostatic Pressure (A) 2141 P.S.I.

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

Initial Closed In Period (D) 60 Minutes (E) 539 P.S.I.

Final Flow Period (F) 45 Minutes (G) 95 P.S.I.

Final Closed In Period (H) 90 Minutes (H) 539 P.S.I.

Final Hydrostatic Pressure (H) 2120 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 Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 1550.00
Misrun \$
Straddle Test \$
Jars \$ 225.00
Selective Zone \$
Safety Joint \$ 35.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 860.00



GAS FLOW REPORT

No 1888

Date 11/22/80 Ticket # 3553 Company Raymond Oil Co.
Well Name and No. Berry #1 Dst No. 2 Interval Tested 4199-4209
County Kingman State Ks Sec. 1 Twp. 30 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
PRE FLOW					
<i>Gas to surface in 12 min</i>					
17	8 H ₂ O	3/4"			40,800 C.F.P.D.
22	"	"			" "
30	"	"			" "

SECOND FLOW

5	13 H ₂ O	3/4"			51,400 C.F.P.D.
15	9 "	"			42,500 " "
25	8 "	"			40,000 " "
35	"	"			" "
45	"	"			" "

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 1-22-80 Test Ticket No. 3553
 Recorder No. 2607 Capacity 4150 Location 4200 Fr.
 Clock No. _____ Elevation 15508 f Well Temperature 120 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2198</u>	P.S.I.	Open Tool	<u>10:30 P</u> M	
B First Initial Flow Pressure	<u>90</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>78</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>540</u>	P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>95</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>95</u>	P.S.I.			
G Final Closed-in Pressure	<u>537</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2130</u>	P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>90</u>	0	<u>78</u>	0	<u>95</u>	0	<u>95</u>
P 2 5	<u>74</u>	3	<u>400</u>	5	<u>95</u>	3	<u>377</u>
P 3 10	<u>69</u>	6	<u>441</u>	10	<u>89</u>	6	<u>419</u>
P 4 15	<u>69</u>	9	<u>466</u>	15	<u>89</u>	9	<u>443</u>
P 5 20	<u>70</u>	12	<u>483</u>	20	<u>90</u>	12	<u>460</u>
P 6 25	<u>74</u>	15	<u>494</u>	25	<u>91</u>	15	<u>470</u>
P 7 30	<u>78</u>	18	<u>500</u>	30	<u>92</u>	18	<u>483</u>
P 8 35		21	<u>509</u>	35	<u>93</u>	21	<u>492</u>
P 9 40		24	<u>515</u>	40	<u>94</u>	24	<u>498</u>
P10 45		27	<u>518</u>	45	<u>95</u>	27	<u>502</u>
P11 50		30	<u>520</u>	50		30	<u>508</u>
P12 55		33	<u>522</u>	55		33	<u>511</u>
P13 60		36	<u>525</u>	60		36	<u>514</u>
P14		39	<u>528</u>	65		39	<u>517</u>
P15		42	<u>530</u>	70		42	<u>519</u>
P16		45	<u>531</u>	75		45	<u>521</u>
P17		48	<u>533</u>	80		48	<u>523</u>
P18		51	<u>535</u>	85		51	<u>525</u>
P19		54	<u>536</u>	90		54	<u>527</u>
P20		57	<u>538</u>			57	<u>528</u>
		60	<u>540</u>			60	<u>529</u>

cont

WESTERN TESTING CO. INC.
Pressure Data

Test Ticket No. 3553

No. _____ Capacity _____ Location _____
 Elevation _____ Well Temperature _____

Pressure	Open Tool	Time Given	Time Computed
al Hydrostatic Mud _____ P.S.I.	_____	_____ M	_____
Initial Flow Pressure _____ P.S.I.	First Flow Pressure _____	_____ Mins	_____ Min
Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure _____	_____ Mins	_____ Min
ial Closed-in Pressure _____ P.S.I.	Second Flow Pressure _____	_____ Mins	_____ Min
nd Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure _____	_____ Mins	_____ Min
nd Final Flow Pressure _____ P.S.I.			
al Closed-in Pressure _____ P.S.I.			
al Hydrostatic Mud _____ P.S.I.			

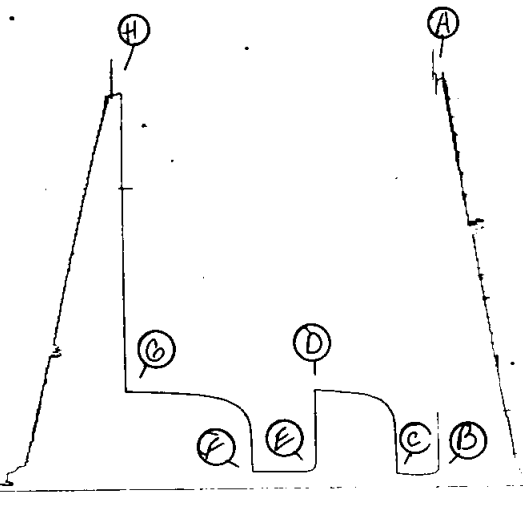
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: _____ Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
--	--	---	--

Press.	Point Minutes	Press.	Point Minutes	Press.
_____	63	_____	63	530
_____	66	_____	66	531
_____	69	_____	69	532
_____	72	_____	72	533
_____	75	_____	75	533
_____	78	_____	78	534
_____	81	_____	81	535
_____	84	_____	84	535
_____	87	_____	87	536
_____	90	_____	90	537
_____	93	_____	93	
_____	96	_____	96	
_____	99	_____	99	
_____	102	_____	102	
_____	105	_____	105	
_____	108	_____	108	
_____	111	_____	111	
_____	114	_____	114	
_____	117	_____	117	
_____	120	_____	120	

Tkt# 2553
I

87



Company Raymond Oil Company, Inc. Lease & Well No. Berry #1
 Elevation 1550 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 3553
 Date 1/22/80 Sec. 1 Twp. 30S Range 9W County Kingman State Kansas
 Test Approved by H. Clark Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4199 ft. to 4209 ft. Total Depth 4209 ft.
 Packer Depth 4194 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4199 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4200 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4203 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 120 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 58 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 10.4 cc. Drill Pipe Length 4050 I. D. 3.8 in.
 Chlorides 12,500 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 10 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. Gas to surface in twelve minutes on pre-flow. See attached sheet for gas measurements.

Recovered 100 ft. of gas cut mud
 Recovered 120 ft. of muddy water
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:30 ~~A.M.~~ P.M. Time Started Off Bottom 3:13 ~~A.M.~~ P.M. Maximum Temperature 121°
 Initial Hydrostatic Pressure (A) 2198 P.S.I.
 Initial Flow Period Minutes 30 (B) 90 P.S.I. to (C) 78 P.S.I.
 Initial Closed In Period Minutes 60 (D) 540 P.S.I.
 Final Flow Period Minutes 45 (E) 95 P.S.I. to (F) 95 P.S.I.
 Final Closed In Period Minutes 90 (G) 537 P.S.I.
 Final Hydrostatic Pressure (H) 2130 P.S.I.

GAS FLOW REPORT

Date 1/22/80 Ticket 3553 Company Raymond Oil Company, Inc.
 Well Name and No. Berry #1 Dst No. 2 Interval Tested 4199'-4209'
 County Kingman State Kansas Sec. 1 Twp. 30S Rg. 9W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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
Gas to surface in twelve minutes. PRE FLOW						
	17 min.	8" of water	3/4" orifice			40,000 CFPD
	22 min.	8" of water	3/4" orifice			40,000 CFPD
	30 min.	8" of water	3/4" orifice			40,000 CFPD

SECOND FLOW						
	5 min.	13" of water	3/4" orifice			51,400 CFPD
	15 min.	9" of water	3/4" orifice			42,500 CFPD
	25 min.	8" of water	3/4" orifice			40,000 CFPD
	35 min.	8" of water	3/4" orifice			40,000 CFPD
	45 min.	8" of water	3/4" orifice			40,000 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled ---- Date to be Invoiced 1/22/80

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 1 1/2% 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 H. Clark

WESTERN TESTING CO., INC.
Pressure Data

Date 1-22-80 Test Ticket No. 3553
 Recorder No. 2607 Capacity 4150 Location 4200 Ft.
 Clock No. - Elevation 1550 Ground Level Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2198	P.S.I.	11:30P.	M
B First Initial Flow Pressure	90	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	78	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	540	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	95	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	95	P.S.I.		
G Final Closed-in Pressure	537	P.S.I.		
H Final Hydrostatic Mud	2130	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
--	---	---	---

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	78	0	95	0	95
P 2	5	3	400	5	95	3	377
P 3	10	6	441	10	89	6	419
P 4	15	9	466	15	89	9	443
P 5	20	12	483	20	90	12	460
P 6	25	15	494	25	91	15	470
P 7	30	18	500	30	92	18	483
P 8		21	509	35	93	21	492
P 9		24	515	40	94	24	498
P10		27	518	45	95	27	502
P11		30	520			30	508
P12		33	522			33	511
P13		36	525			36	514
P14		39	528			39	517
P15		42	530			42	519
P16		45	531			45	521
P17		48	533			48	523
P18		51	535			51	525
P19		54	536			54	527
P20		57	538			57	528
WTC - 4		60	540			60	529

Cont'd on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 1-22-80

Test Ticket No. 3553

Recorder No. 2607 Capacity 4150 Location 4200 Ft.

Clock No. - Elevation 1550 Ground Level Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2198</u> P.S.I.	Open Tool	<u>11:30P.</u> M	
B First Initial Flow Pressure	<u>90</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>78</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>540</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>95</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins	<u>90</u> Mins.
F Second Final Flow Pressure	<u>95</u> P.S.I.			
G Final Closed-in Pressure	<u>537</u> P.S.I.			
H Final Hydrostatic Mud	<u>2130</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: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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>63</u>	<u>530</u>
P 2						<u>66</u>	<u>531</u>
P 3						<u>69</u>	<u>532</u>
P 4						<u>72</u>	<u>533</u>
P 5						<u>75</u>	<u>533</u>
P 6						<u>78</u>	<u>534</u>
P 7						<u>81</u>	<u>535</u>
P 8						<u>84</u>	<u>535</u>
P 9						<u>87</u>	<u>536</u>
P10						<u>90</u>	<u>537</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							