WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 6861

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

Elevation 1980 DF 1982 Building Formation Lindenhart Sand Eff. Pay Ft.

District Pratt Date 9-18-80 Customer Order No.

COMPANY NAME Raymond Oil Co. Inc. Suite #700 Wichita, KS OIL

ADDRESS One Main Plaza

LEASE AND WELL NO. Neely #1 COUNTY Pratt STATE Kansas Sec. 13 Twp. 26S Rge. 14W

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

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4310 ft. to 4330 ft. Total Depth 4330 ft.

Packer Depth 4305 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 4310 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4314 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4317 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Murfin Drilling Co. Rig 19 Drill Collar Length — I. D. — in.

Mud Type Premix Non PAC Viscosity 75 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 9.6 cc. Drill Pipe Length 4290 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make NC Serial Number — Anchor Length 20 ft. Size 5 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 4 1/2 FH in.

Blow: Strong blow on both the initial + final flows - no gas to surface

Recovered 1540 ft. of Gas in pipe

Recovered 175 ft. of Gas & muddy salt oil

Recovered 63 ft. of Gas & oil cut muddy water Chlorides 72,000 P.P.M

Recovered 380 ft. of Water

Recovered ft. of

Remarks:

On loc 1:00 AM Tool up AM tool down P.M off loc P.M

Time Set Packer(s) 7:35 A.M. P.M. Time Started Off Bottom 11:20 A.M. P.M. Maximum Temperature 122° F

Initial Hydrostatic Pressure			(A)	2292	P.S.I.	
Initial Flow Period	Minutes 45		(B)	20	P.S.I. to (C)	124 P.S.I.
Initial Closed In Period	Minutes 60		(D)	1173	P.S.I.	
Final Flow Period	Minutes 45		(E)	208	P.S.I. to (F)	208 P.S.I.
Final Closed In Period	Minutes 60		(G)	1225	P.S.I.	
Final Hydrostatic Pressure			(H)	2271	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.

RECEIVED SEP 19 1980

Test Approved By R E Rowland Signature of Customer or his authorized representative

Western Representative Red Tidd Thank You

FIELD INVOICE

Open Hole Test	$ 600.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Sampler	$
Installation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$ 15 mi 11.25
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 611.25

WESTERN TESTING CO., INC.
Pressure Data

Date 9-18 Test Ticket No. 6861

Recorder No. 2606 Capacity 4150 Location 4314 Ft.

Clock No. — Elevation 1980 K B Well Temperature 122 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2307 P.S.I.		Open Tool	7:35 AM	
B	First Initial Flow Pressure	15 P.S.I.		First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	146 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1182 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	220 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	218 P.S.I.				
G	Final Closed-in Pressure	1224 P.S.I.				
H	Final Hydrostatic Mud	2173 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	15
P 2	5	29
P 3	10	48
P 4	15	67
P 5	20	83
P 6	25	102
P 7	30	116
P 8	35	129
P 9	40	141
P10	45	146
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	146
3	725
6	865
9	923
12	969
15	1004
18	1031
21	1053
24	1068
27	1083
30	1099
33	1112
36	1120
39	1130
42	1139
45	1150
48	1157
51	1164
54	1170
57	1177
60	1182

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

Point Minutes	Press.
0	220
5	216
10	216
15	215
20	215
25	215
30	214
35	214
40	216
45	218
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

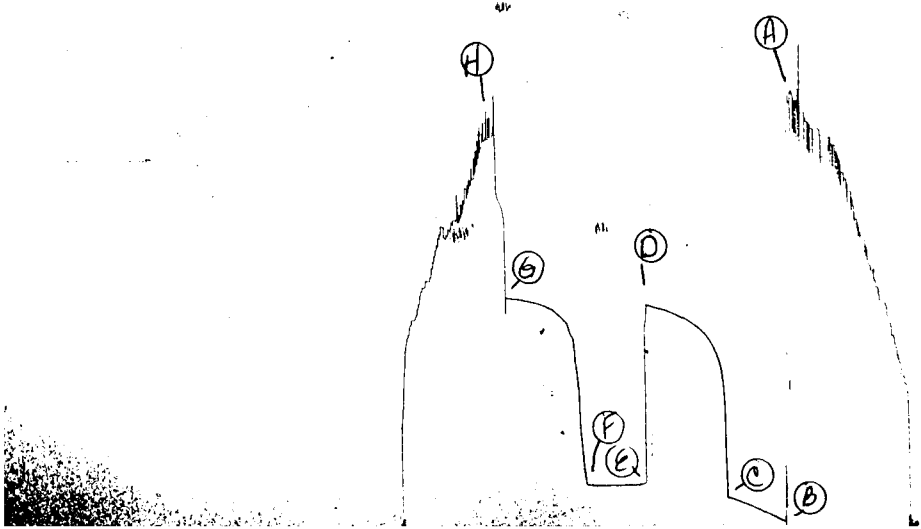
Point Minutes	Press.
0	218
3	437
6	734
9	923
12	1019
15	1079
18	1106
21	1126
24	1147
27	1166
30	1174
33	1184
36	1192
39	1198
42	1201
45	1207
48	1210
51	1214
54	1217
57	1220
60	1224

WTC - 4

2606 DST #1

IKE #6861

I



Company Raymond Oil Company, Inc. Lease & Well No. Neelly #1

Elevation 1980 Kelly Bushing Formation Kinderhook Sand Effective Pay - Ft. Ticket No. 6861

Date 9-18-80 Sec. 13 Twp. 26S Range 14W County Pratt State Kansas

Test Approved by R E Rowland Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4310 ft. to 4330 ft. Total Depth 4330 ft.

Packer Depth 4305 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4310 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4314 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4317 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Murfin Drilling Company Rig #19 Drill Collar Length - I. D. - in.

Mud Type Premix Monpac Viscosity 75 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 9.6 cc. Drill Pipe Length 4290 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½ OD in.

Jars: Make No Serial Number - Anchor Length 20 ft. Size 5½ 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 4½ FH in.

Blow: Strong blow on both flow periods. No gas to surface.

Recovered 1540 ft. of gas in pipe

Recovered 175 ft. of gas and mud cut oil

Recovered 63 ft. of gas and oil cut muddy water

Recovered 380 ft. of water

Recovered ft. of

Remarks: Chlorides 72,000 P.P.M.

Time Set Packer(s) 7:35 ~~P.M.~~ A.M. Time Started Off Bottom 11:20 ~~P.M.~~ A.M. Maximum Temperature 122

Initial Hydrostatic Pressure (A) 2307 P.S.I.

Initial Flow Period Minutes 45 (B) 15 P.S.I. to (C) 146 P.S.I.

Initial Closed In Period Minutes 60 (D) 1182 P.S.I.

Final Flow Period Minutes 45 (E) 220 P.S.I. to (F) 218 P.S.I.

Final Closed In Period Minutes 60 (G) 1224 P.S.I.

Final Hydrostatic Pressure (H) 2173 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9/18/80 Test Ticket No. 6861

Recorder No. 2606 Capacity 4150 Location 4314 Ft.

Clock No. --- Elevation 1980 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2307 P.S.I.	Open Tool	7:35A M	
B First Initial Flow Pressure	15 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	146 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1182 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	220 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	218 P.S.I.			
G Final Closed-in Pressure	1224 P.S.I.			
H Final Hydrostatic Mud	2173 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	15
P 2 5	29
P 3 10	48
P 4 15	67
P 5 20	83
P 6 25	102
P 7 30	116
P 8 35	129
P 9 40	141
P10 45	146
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	146
3	725
6	865
9	923
12	969
15	1004
18	1031
21	1053
24	1068
27	1083
30	1099
33	1112
36	1120
39	1130
42	1139
45	1150
48	1157
51	1164
54	1170
57	1177
60	1182

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

Point Minutes	Press.
0	220
5	216
10	216
15	215
20	215
25	215
30	214
35	214
40	216
45	218

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	218
3	437
6	734
9	923
12	1019
15	1079
18	1106
21	1126
24	1147
27	1166
30	1174
33	1184
36	1192
39	1198
42	1201
45	1207
48	1210
51	1214
54	1217
57	1220
60	1224