



WESTERN TESTING CO., INC.

267-4214

FORMATION TESTING

TICKET No 3573

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

Elevation 1804 G.L. Formation Indian Cave Eff. Pay Ft.

District Pratt Date 2/19/80 Customer Order No. -

COMPANY NAME Raymond Oil Co

ADDRESS One Main Place Suite 900 Wichita, Ks 67202

LEASE AND WELL NO Brandt #2-A COUNTY Pratt STATE Ks Sec. 31 Twp 28S Rge 11W

Mail Invoice To Same Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2603 ft. to 2649 ft. Total Depth 2649 ft.

Packer Depth 2597 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2603 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2639 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 2642 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Big Spring Oils Rig #2 Drill Collar Length - I. D. - in.

Mud Type Salt-Gel Starch Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 10.2 cc. Drill Pipe Length 2582 I. D. 3.8 in.

Chlorides 77,000 P.P.M. Test Tool Length 21 ft. Tool Size 5500 in.

Jars: Make - Serial Number - Anchor Length 46 ft. Size 5500 in.

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

Main Hole Size 7 3/8 in. Tool Joint Size 4 5/8 in.

Blow: Very Weak blow died in 13 min on first flow period No blow on second flow period

Recovered 3 ft. of Orlg Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED FEB 21 1980

Time Set Packer(s) 8:10 P.M. Time Started Off Bottom 10:10 A.M. Maximum Temperature 101°

Initial Hydrostatic Pressure (A) 1521 P.S.I.

Initial Flow Period Minutes 30 (B) 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 30 (D) 52 P.S.I.

Final Flow Period Minutes 30 (E) 52 P.S.I. to (F) 52 P.S.I.

Final Closed In Period Minutes 30 (G) 52 P.S.I.

Final Hydrostatic Pressure (H) 1500 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 Jimathy D. Wellman Signature of Customer or his authorized representative

Western Representative Jim Woods Thank You

cannot find

FIELD INVOICE

Open Hole Test \$ 1500.00 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$ Fluid Sampler \$ Extra Charts \$

TOTAL \$ 500.00

# WESTERN TESTING CO., INC.

## Pressure Data

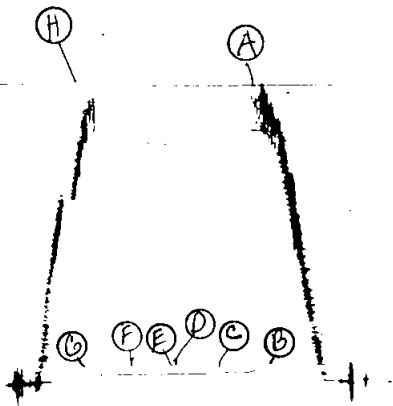
Date 2-19-80 Test Ticket No. 3573  
 Recorder No. 2607 Capacity 4150 Location 2639 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1804 ft. Well Temperature 101 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1529</u>	P.S.I.	<u>8:10</u> P M	
B First Initial Flow Pressure	<u>65</u>	P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>62</u>	P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>59</u>	P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>58</u>	P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
F Second Final Flow Pressure	<u>58</u>	P.S.I.		
G Final Closed-in Pressure	<u>58</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1521</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>0</u> Inc.		Breakdown: <u>10</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>65</u>	0	<u>62</u>	0	<u>58</u>	0	<u>58</u>
P 2	<u>62</u>	3	<u>59</u>	5		3	
P 3		6		10		6	
P 4		9		15		9	
P 5		12		20		12	
P 6		15		25		15	
P 7	<u>62</u>	18		30	<u>58</u>	18	
P 8		21		35		21	
P 9		24		40		24	
P10		27		45		27	
P11		30	<u>59</u>	50		30	<u>58</u>
P12		33		55		33	
P13		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT# 3573  
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Company Raymond Oil Company Lease & Well No. Brandt "A"#2  
 Elevation 1804 Ground Level Formation Indian Cave Effective Pay ---- Ft. Ticker No. 3573  
 Date 2/19/80 Sec. 31 Twp. 28S Range 11W County Pratt State Kansas  
 Test Approved by Timothy D. Hellman Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 2603 ft. to 2649 ft. Total Depth 2649 ft.  
 Packer Depth 2597 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
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 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

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 Mud Type salt-gel-starch Viscosity 38 Weight Pipe Length - I. D. - in.  
 Weight 10.0 Water Loss 10.2 cc. Drill Pipe Length 2582 I. D. 3.8 in.  
 Chlorides 77,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 46 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: Very weak blow died in thirteen minutes on first flow period. No blow on second flow period.

Recovered 3 ft. of drilling mud  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

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

Time Set Packer(s) 8:10 ~~A.M.~~ P.M. Time Started Off Bottom 10:10 ~~A.M.~~ P.M. Maximum Temperature 101°  
 Initial Hydrostatic Pressure ..... (A) 1529 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 65 P.S.I. to (C) 62 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 59 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 58 P.S.I. to (F) 58 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 58 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1521 P.S.I.

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**Pressure Data**

Date 2/19/80 Test Ticket No. 3573  
 Recorder No. 2607 Capacity 4150 Location 2639 Ft.  
 Clock No. ----- Elevation 1804 Ground Level Well Temperature 101 °F

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B First Initial Flow Pressure	65	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	62	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	59	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	58	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	58	P.S.I.		
G Final Closed-in Pressure	58	P.S.I.		
H Final Hydrostatic Mud	1521	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	5 mins.	and a	final inc. of	0 Min.			
	of	3 mins.	and a	final inc. of	0 Min.			
	of	5 mins.	and a	final inc. of	0 Min.			
	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	65	0	62	0	58	0	58	
P 2 5	62	3	59	5	58	3	58	
P 3 10	62	6	59	10	58	6	58	
P 4 15	62	9	59	15	58	9	58	
P 5 20	62	12	59	20	58	12	58	
P 6 25	62	15	59	25	58	15	58	
P 7 30	62	18	59	30	58	18	58	
P 8		21	59			21	58	
P 9		24	59			24	58	
P10		27	59			27	58	
P11		30	59			30	58	
P12								
P13								
P14								
P15								
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P19								
P20								