



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 19889

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3010 GR Formation Lansing Top Eff. Pay Ft.

District Colby Date Oct 26 1993 Customer Order No.

COMPANY NAME Raymond Oil Co., Inc

ADDRESS PO Box 48788 Wichita KS.

LEASE AND WELL NO. Ladenburger #1 COUNTY Logan STATE KS. Sec. 7 Twp. 13 Rge. 33

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

Mail Charts To Co. Name Same Address #1 Ladenburger No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3917 ft. to 3930 ft. Total Depth 3930 ft.

Packer Depth 3912 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3917 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3920 ft. Recorder Number 13760 Cap. 3950

Bottom Recorder Depth (Outside) 3923 ft. Recorder Number 13400 Cap. 3950

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

Drilling Contractor Murpin Rig #2 Drill Collar Length 414 I. D. 22 in.

Mud Type Chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 8.7 Water Loss 9.2 cc. Drill Pipe Length 3430 I. D. 38 in.

Chlorides 2000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 13 ft. Size 5 1/2 in.

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

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

Blow: FFP- Dead blow- dead in 3 min FFP- no blow

Recovered 3 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 3:00 A.M. P.M. Time Pick Up Tool 5:30 A.M. P.M. Time Off Location 12:00 A.M. P.M.

Time Set Packer(s) 7:50 A.M. P.M. Time Started Off Bottom 9:50 A.M. P.M. Maximum Temperature 116

Initial Hydrostatic Pressure (A) 1849 P.S.I.

Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period Minutes 30 (D) 29 P.S.I.

Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 29 P.S.I.

Final Closed In Period Minutes 30 (G) 29 P.S.I.

Final Hydrostatic Pressure (H) 1839 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 of Customer or his authorized representative

Western Representative Mike Skubert

Thanks!

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19889

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

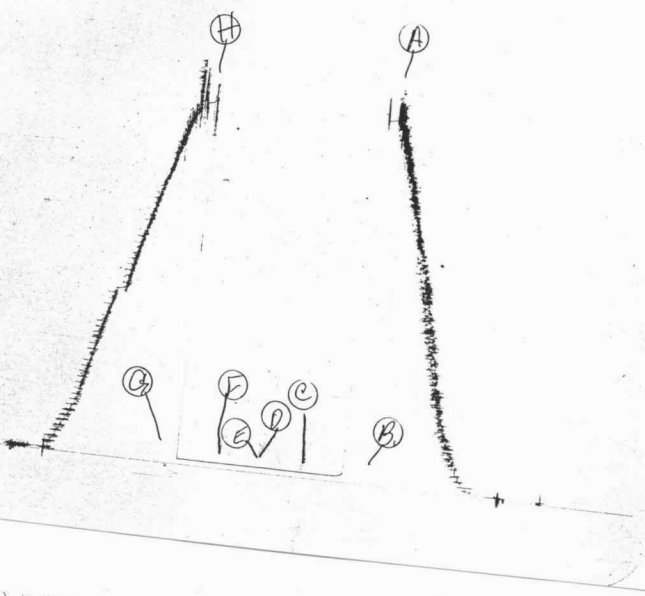
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1849</u>	P.S.I.		M
B First Initial Flow Pressure	<u>27</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>27</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>27</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>27</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>27</u>	P.S.I.		
G Final Closed-in Pressure	<u>27</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1809</u>	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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>27</u>	0	<u>27</u>	0	<u>27</u>	0	<u>27</u>
P 2 5		3		5		3	
P 3 10		6		10		6	
P 4 15		9		15		9	
P 5 20		12		20		12	
P 6 25	<u>27</u>	15		25	<u>27</u>	15	
P 7 30		18		30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27	<u>27</u>	45		27	<u>27</u>
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

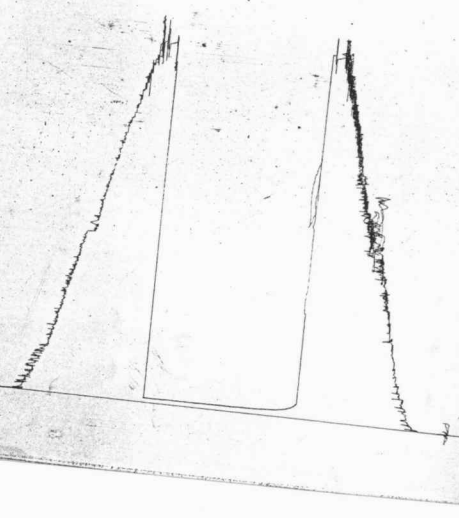
13 DS

TL# 19889
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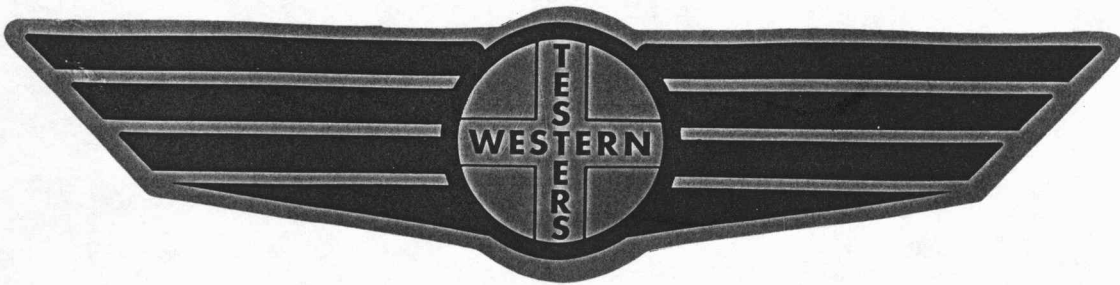


13 DS TL#

TL# 19889
O.



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10/26/93
CUSTOMER : RAYMOND OIL COMPANY, INC.
WELL : 1 TEST: 1
ELEVATION: 3010 GR
SECTION : 7
RANGE : 33W COUNTY: LOGAN
GAUGE SN#: 13760 RANGE : 3950
TICKET : 19889
LEASE : LADENBURGER
GEOLOGIST: SANDBERG
FORMATION: LANSING-TOPEKA
TOWNSHIP : 13S
STATE : KS
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 3917.00 ft TO: 3930.00 ft TVD: 3930.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3920.0 ft 3923.0 ft
TEMPERATURE: 116.0
DRILL COLLAR LENGTH: 464.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3430.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 23.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 13.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 3912.0 ft SIZE: 6.750 in
PACKER DEPTH: 3917.0 ft SIZE: 6.750 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 41.00 cp
WEIGHT : 8.700 ppg WATER LOSS: 9.200 cc
CHLORIDES : 2000 ppm
JARS-MAKE : NO SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DEAD IN 3 MINUTES.
FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
3.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	
GAS VOLUME:	0.0000	SCF	TOTAL FLOW TIME: 60.0000 min.
MUD VOLUME:	0.0141	STB	AVERAGE OIL RATE: 0.0000 STB/D
WATER VOLUME:	0.0000	STB	AVERAGE WATER RATE: 0.0000 STB/D
TOTAL FLUID :	0.0141	STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1849.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	29.00	29.00
INITIAL SHUT-IN	30.00		29.00
FINAL FLOW	30.00	29.00	29.00
FINAL SHUT-IN	30.00		29.00

FINAL HYDROSTATIC PRESSURE: 1839.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1849.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	27.00	27.00
INITIAL SHUT-IN	30.00		27.00
FINAL FLOW	30.00	27.00	27.00
FINAL SHUT-IN	30.00		27.00

FINAL HYDROSTATIC PRESSURE: 1807.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/26/93	TICKET : 19889
CUSTOMER : RAYMOND OIL COMPANY, INC.	LEASE : LADENBURGER
WELL : 1 TEST: 1	GEOLOGIST: SANDBERG
ELEVATION: 3010 GR	FORMATION: LANSING-TOPEKA
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	27.00	27.00
5.00	27.00	0.00
10.00	27.00	0.00
15.00	27.00	0.00
20.00	27.00	0.00
25.00	27.00	0.00
30.00	27.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	27.00	27.00	0.00
6.00	27.00	0.00	0.00
9.00	27.00	0.00	0.00
12.00	27.00	0.00	0.00
15.00	27.00	0.00	0.00
18.00	27.00	0.00	0.00
21.00	27.00	0.00	0.00
24.00	27.00	0.00	0.00
27.00	27.00	0.00	0.00
30.00	27.00	0.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	27.00	27.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	27.00	0.00
10.00	27.00	0.00
15.00	27.00	0.00
20.00	27.00	0.00
25.00	27.00	0.00
30.00	27.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	27.00	27.00	0.00
6.00	27.00	0.00	0.00
9.00	27.00	0.00	0.00
12.00	27.00	0.00	0.00
15.00	27.00	0.00	0.00
18.00	27.00	0.00	0.00
21.00	27.00	0.00	0.00
24.00	27.00	0.00	0.00
27.00	27.00	0.00	0.00
30.00	27.00	0.00	0.00



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 19890

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 3010 GR Formation LHC 'B' Eff. Pay Ft.

District Colby Date Oct 27 1993 Customer Order No.

COMPANY NAME Raymond Oil Co Inc

ADDRESS PO Box 48788 Wichita ks.

LEASE AND WELL NO. Ladenburger #1 COUNTY Logan STATE KS Sec. 7 Twp. 13 Rge. 33

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

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 3944 ft. to 3974 ft. Total Depth 3970 3974 ft. Packer Depth 3939 ft. Size 6 3/4 in. Packer Depth 3944 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 3947 ft. Recorder Number 13720 Cap. 3950 Bottom Recorder Depth (Outside) 3950 ft. Recorder Number 13400 Cap. 3950 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Murfin Rig #2 Drill Collar Length 424 I. D. 2.2 in. Mud Type Chemical Viscosity 45 Weight 9.0 Water Loss 9.4 cc. Drill Pipe Length 34 5/8 I. D. 3.8 in. Chlorides 2400 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in. Jars: Make NO Serial Number Anchor Length 30 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 7/8 in. Tool Joint Size 1 1/2 in.

Blow: IFF - fair blow - increased to 4" in water FFP - weak steady blow - 2" in water

Recovered 1 ft. of oil Recovered 660 ft. of water Recovered ft. of Recovered ft. of Recovered ft. of Chlorides 28,000 P.P.M. Sample Jars used Remarks:

Time On Location 8:00 A.M. Time Pick Up Tool 9:00 P.M. Time Off Location 5:00 A.M. P.M.

Time Set Packer(s) 11:05 A.M. Time Started Off Bottom 2:35 P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 1858 P.S.I. Initial Flow Period Minutes 30 (B) 19 P.S.I. to (C) 136 P.S.I. Initial Closed In Period Minutes 60 (D) 1200 P.S.I. Final Flow Period Minutes 45 (E) 166 P.S.I. to (F) 292 P.S.I. Final Closed In Period Minutes 75 (G) 1250 P.S.I. Final Hydrostatic Pressure (H) 1849 P.S.I.

COMPANY TERMS

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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 [Signature] Thanks!

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. 19890

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	M	Time Computed	Mins.
A Initial Hydrostatic Mud	1892	P.S.I.	Open Tool	11:05	M		
B First Initial Flow Pressure	53	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C First Final Flow Pressure	195	P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D Initial Closed-in Pressure	1254	P.S.I.	Second Flow Pressure	45	Mins.	40	Mins.
E Second Initial Flow Pressure	225	P.S.I.	Final Closed-in Pressure	75	Mins.	75	Mins.
F Second Final Flow Pressure	314	P.S.I.					
G Final Closed-in Pressure	1246	P.S.I.					
H Final Hydrostatic Mud	1804	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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	53	0	195	0	225	0	314
P 2 5	63	3	1165	5	232	3	1159
P 3 10	90	6	1201	10	246	6	1191
P 4 15	119	9	1219	15	260	9	1205
P 5 20	150	12	1228	20	273	12	1215
P 6 25	176	15	1236	25	283	15	1222
P 7 30	195	18	1240	30	295	18	1226
P 8 35		21	1241	35	309	21	1232
P 9 40		24	1242	40	314	24	1236
P10 45		27	1243	45		27	1237
P11 50		30	1244	50		30	1238
P12 55		33	1245	55		33	1239
P13 60		36	1246	60		36	1240
P14 65		39	1247	65		39	1240
P15 70		42	1248	70		42	1241
P16 75		45	1249	75		45	1241
P17 80		48	1250	80		48	1242
P18 85		51	1251	85		51	1242
P19 90		54	1252	90		54	1243
P20 95		57	1253	95		57	1243
100		60	1254	100		60	1244

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 19890

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

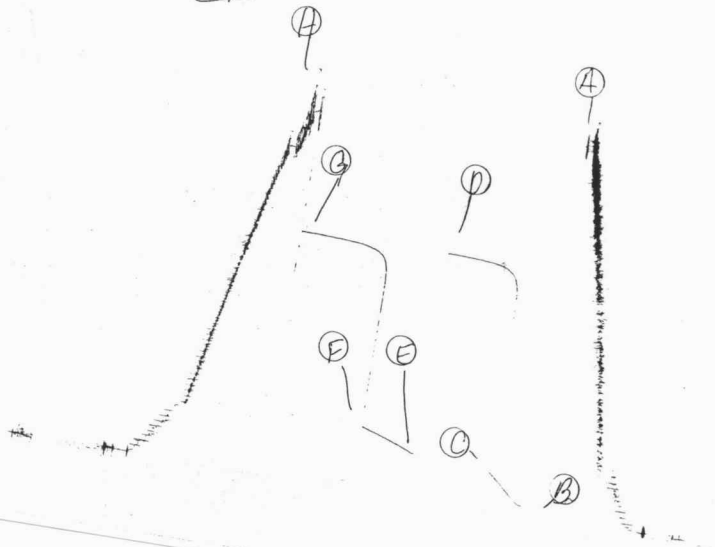
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool	_____ M	_____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	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 _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105	_____	63	_____	105	_____	63	1244
P 2 110	_____	66	_____	110	_____	66	1245
P 3 115	_____	69	_____	115	_____	69	1245
P 4 120	_____	72	_____	120	_____	72	1246
P 5 125	_____	75	_____	125	_____	75	1246
P 6 130	_____	78	_____	130	_____	78	_____
P 7 135	_____	81	_____	135	_____	81	_____
P 8 140	_____	84	_____	140	_____	84	_____
P 9 145	_____	87	_____	145	_____	87	_____
P10 150	_____	90	_____	150	_____	90	_____
P11 155	_____	93	_____	155	_____	93	_____
P12 160	_____	96	_____	160	_____	96	_____
P13 165	_____	99	_____	165	_____	99	_____
P14 170	_____	102	_____	170	_____	102	_____
P15 175	_____	105	_____	175	_____	105	_____
P16 180	_____	108	_____	180	_____	108	_____
P17 185	_____	111	_____	185	_____	111	_____
P18 190	_____	114	_____	190	_____	114	_____
P19 195	_____	117	_____	195	_____	117	_____
P20 200	_____	120	_____	200	_____	120	_____

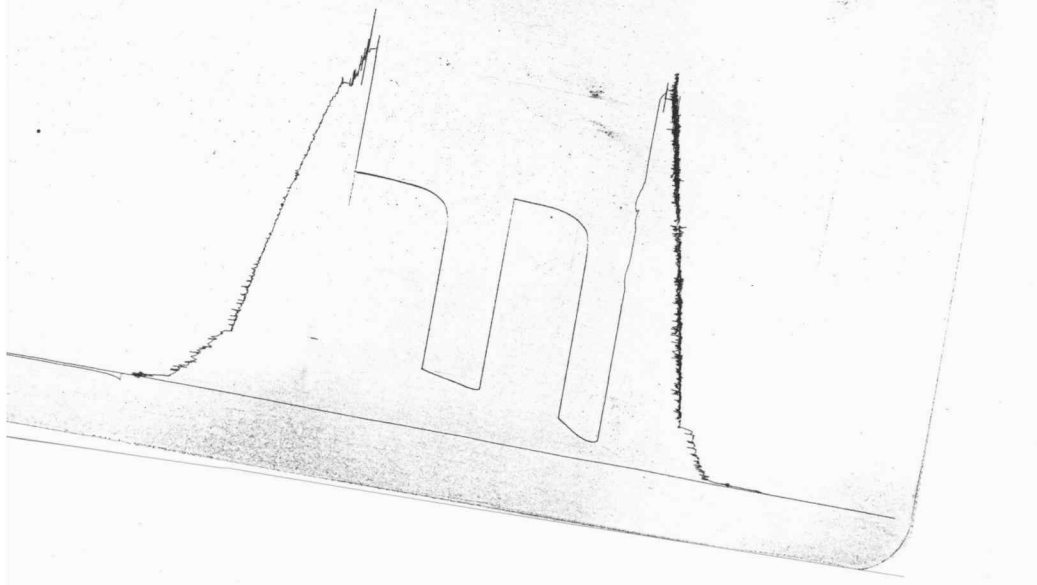
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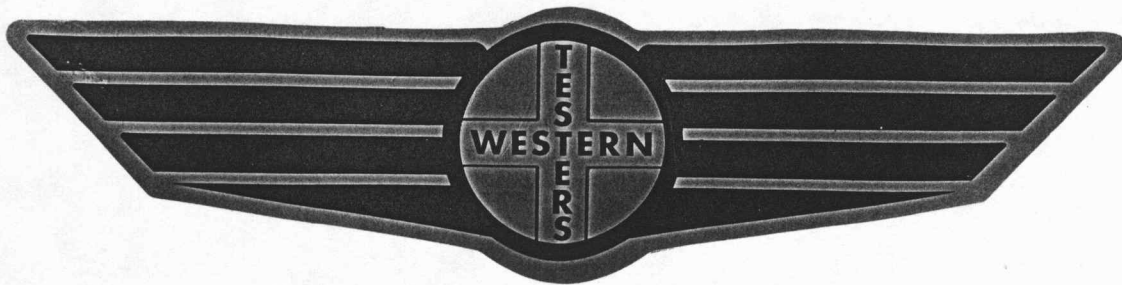


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DS
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TK-#19890
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 80 - 688 - 7021**

DST REPORT

GENERAL INFORMATION

DATE : 10/27/93	TICKET : 19890
CUSTOMER : RAYMOND OIL COMPANY, INC.	LEASE : LADENBURGER
WELL : 1 TEST: 2	GEOLOGIST: SANDBERG
ELEVATION: 3010 GR	FORMATION: L KANSAS CITY B
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 3944.00 ft	TO: 3974.00 ft	TVD: 3974.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3947.0 ft	3950.0 ft	
TEMPERATURE: 117.0		

DRILL COLLAR LENGTH: 464.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3457.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 30.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 3939.0 ft	SIZE:	6.750 in
PACKER DEPTH: 3944.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 2	
MUD TYPE : CHEMICAL	VISCOSITY : 45.00 cp
WEIGHT : 9.000 ppg	WATER LOSS: 9.400 cc
CHLORIDES : 2400 ppm	
JARS-MAKE : NO	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD FAIR BLOW - INCREASED TO 4 INCHES IN WATER. FINAL FLOW PERIOD WEAK STEADY BLOW - 2 INCHES IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	100.0	0.0	0.0	0.0	OIL
660.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 28000 PPM

RATE INFORMATION

OIL VOLUME:	0.0140	STB	TOTAL FLOW TIME:	70.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.2885	STB/D
MUD VOLUME:	0.0000	STB	AVERAGE WATER RATE:	101.4294	STB/D
WATER VOLUME:	4.9306	STB			
TOTAL FLUID :	4.9446	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1858.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	19.00	136.00
INITIAL SHUT-IN	60.00		1200.00
FINAL FLOW	45.00	166.00	292.00
FINAL SHUT-IN	75.00		1250.00

FINAL HYDROSTATIC PRESSURE: 1849.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1872.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	53.00	195.00
INITIAL SHUT-IN	60.00		1254.00
FINAL FLOW	40.00	225.00	314.00
FINAL SHUT-IN	75.00		1246.00

FINAL HYDROSTATIC PRESSURE: 1864.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/27/93	TICKET : 19890
CUSTOMER : RAYMOND OIL COMPANY, INC.	LEASE : LADENBURGER
WELL : 1 TEST: 2	GEOLOGIST: SANDBERG
ELEVATION: 3010 GR	FORMATION: L KANSAS CITY B
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	53.00	53.00
5.00	63.00	10.00
10.00	90.00	27.00
15.00	119.00	29.00
20.00	150.00	31.00
25.00	176.00	26.00
30.00	195.00	19.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1165.00	1165.00	0.00
6.00	1201.00	36.00	0.00
9.00	1219.00	18.00	0.00
12.00	1228.00	9.00	0.00
15.00	1236.00	8.00	0.00
18.00	1240.00	4.00	0.00
21.00	1241.00	1.00	0.00
24.00	1242.00	1.00	0.00
27.00	1243.00	1.00	0.00
30.00	1244.00	1.00	0.00
33.00	1245.00	1.00	0.00
36.00	1246.00	1.00	0.00
39.00	1247.00	1.00	0.00
42.00	1248.00	1.00	0.00
45.00	1249.00	1.00	0.00
48.00	1250.00	1.00	0.00
51.00	1251.00	1.00	0.00
54.00	1252.00	1.00	0.00
57.00	1253.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1254.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	225.00	225.00
5.00	232.00	7.00
10.00	246.00	14.00
15.00	260.00	14.00
20.00	273.00	13.00
25.00	283.00	10.00
30.00	295.00	12.00
35.00	307.00	12.00
40.00	314.00	7.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1157.00	1157.00	0.00
6.00	1191.00	34.00	0.00
9.00	1205.00	14.00	0.00
12.00	1215.00	10.00	0.00
15.00	1222.00	7.00	0.00
18.00	1226.00	4.00	0.00
21.00	1232.00	6.00	0.00
24.00	1236.00	4.00	0.00
27.00	1237.00	1.00	0.00
30.00	1238.00	1.00	0.00
33.00	1239.00	1.00	0.00
36.00	1240.00	1.00	0.00
39.00	1240.00	0.00	0.00
42.00	1241.00	1.00	0.00
45.00	1241.00	0.00	0.00
48.00	1242.00	1.00	0.00
51.00	1242.00	0.00	0.00
54.00	1243.00	1.00	0.00
57.00	1243.00	0.00	0.00
60.00	1244.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
63.00	1244.00	0.00	0.00
66.00	1245.00	1.00	0.00
69.00	1245.00	0.00	0.00
72.00	1246.00	1.00	0.00
75.00	1246.00	0.00	0.00



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 19891

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3010 GR Formation L. KC H Eff. Pay Ft.

District Colby Date Oct 26 1993 Customer Order No.

COMPANY NAME Raymond Oil Co Inc

ADDRESS PO Box 48786 Wichita KS.

LEASE AND WELL NO. Lodenburger #1 COUNTY Logan STATE KS Sec. 7 Twp. 13 Rge. 33

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

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

Formation Test No. 3 Interval Tested From 4062 ft. to 4106 ft. Total Depth 4106 ft.

Packer Depth 4077 ft. Size 2 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4062 ft. Size 2 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4065 ft. Recorder Number 13760 Cap. 3960

Bottom Recorder Depth (Outside) 4068 ft. Recorder Number 13400 Cap. 3950

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

Drilling Contractor Murfin Rig #2 Drill Collar Length 1164 I. D. 2.2 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 9.2 cc. Drill Pipe Length 3595 I. D. 3.8 in.

Chlorides 3600 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 24 ft. Size 5 1/2 OD in.

Did Well Flow? - Reversed Out - Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

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

Blow: IFP - Weak blow - died in 2 min
FFP - no blow

Recovered 10 ft. of mud to flow oil spots - oil less than 190

Recovered ft. of

Recovered ft. of Some oil on top of tool

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 9:00 A.M. Time Pick Up Tool 9:30 A.M. Time Off Location 4:00 P.M.

Time Set Packer(s) 11:10 A.M. Time Started Off Bottom 1:10 P.M. Maximum Temperature 118

Initial Hydrostatic Pressure (A) 1947 P.S.I.

Initial Flow Period Minutes 30 (B) 19 P.S.I. to (C) 19 P.S.I.

Initial Closed In Period Minutes 30 (D) 1190 P.S.I.

Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 29 P.S.I.

Final Closed In Period Minutes 30 (G) 1141 P.S.I.

Final Hydrostatic Pressure (H) 1927 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 Marvin Daepfler
Signature of Customer or his authorized representative

Western Representative Mike Skuluit

Shank

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19891

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

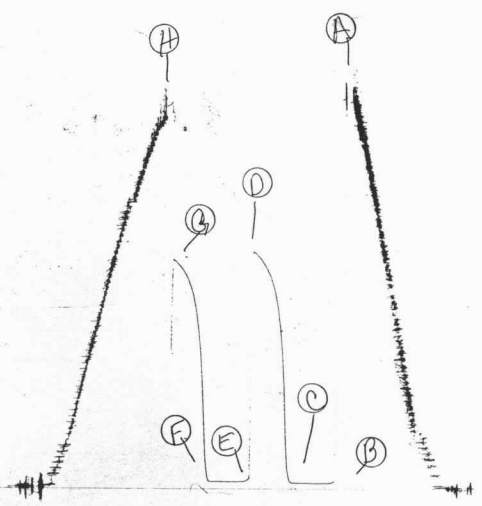
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1955</u>	P.S.I.		M
B First Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>28</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1199</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>35</u>	P.S.I.	<u>30</u> Mins.	<u>29</u> Mins.
F Second Final Flow Pressure	<u>33</u>	P.S.I.		
G Final Closed-in Pressure	<u>1136</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1937</u>	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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>27</u>	0	<u>28</u>	0	<u>35</u>	0	<u>33</u>
P 2 5	<u>25</u>	3	<u>92</u>	5	<u>33</u>	3	<u>146</u>
P 3 10	<u>25</u>	6	<u>553</u>	10		6	<u>628</u>
P 4 15	<u>26</u>	9	<u>850</u>	15		9	<u>656</u>
P 5 20	<u>26</u>	12	<u>913</u>	20		12	<u>961</u>
P 6 25	<u>27</u>	15	<u>1049</u>	25		15	<u>1033</u>
P 7 30	<u>28</u>	18	<u>1096</u>	30	<u>33</u>	18	<u>1019</u>
P 8 35		21	<u>1134</u>	35		21	<u>1112</u>
P 9 40		24	<u>1163</u>	40		24	<u>1136</u>
P10 45		27	<u>1187</u>	45		27	<u>1150</u>
P11 50		30	<u>1199</u>	50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

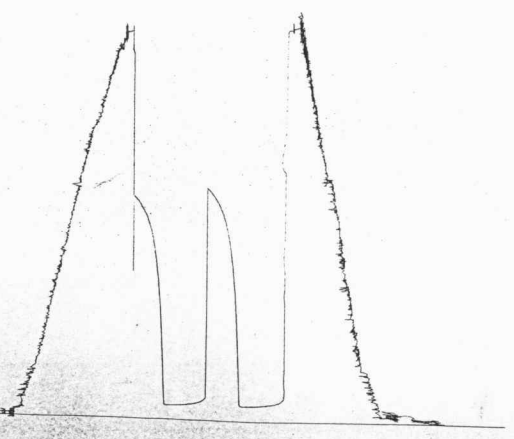
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DST#3

TL#19891
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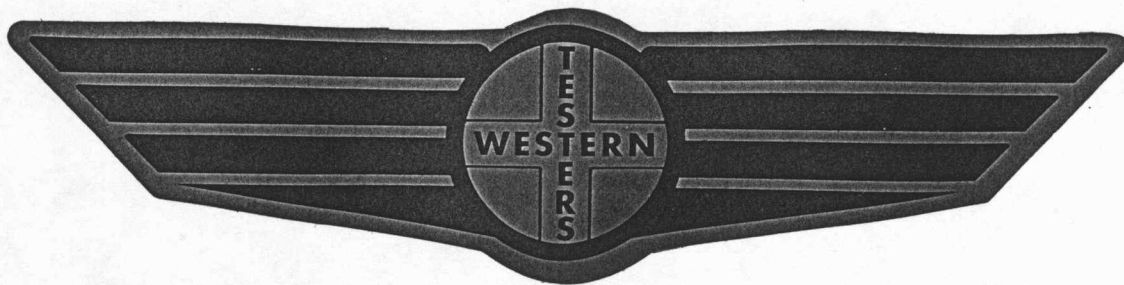


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 80 - 688 - 7021**

DST REPORT

GENERAL INFORMATION

DATE : 10/28/93
CUSTOMER : RAYMOND OIL COMPANY, INC.
WELL : 1 TEST: 3
ELEVATION: 3010 GR
SECTION : 7
RANGE : 33W COUNTY: LOGAN
GAUGE SN#: 13760 RANGE : 3950
TICKET : 19891
LEASE : LADENBURGER
GEOLOGIST: DOUGLASS
FORMATION: L KANSAS CITY H
TOWNSHIP : 13S
STATE : KS
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4082.00 ft TO: 4106.00 ft TVD: 4106.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4085.0 ft 4088.0 ft
TEMPERATURE: 118.0
DRILL COLLAR LENGTH: 464.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3595.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 23.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 24.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 4077.0 ft SIZE: 6.750 in
PACKER DEPTH: 4082.0 ft SIZE: 6.750 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 2
MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 9.200 cc
CHLORIDES : 3600 ppm
JARS-MAKE : NO SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DIED IN 2 MINUTES.
FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	MUD W/FEW OIL SPOTS OIL-
0.0	0.0	0.0	0.0	0.0	LESS THAN 1%
0.0	0.0	0.0	0.0	0.0	SCUM OF OIL ON TOP TOOL

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0470	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0470	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1947.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	19.00	19.00
INITIAL SHUT-IN	30.00		1190.00
FINAL FLOW	30.00	29.00	29.00
FINAL SHUT-IN	30.00		1141.00

FINAL HYDROSTATIC PRESSURE: 1927.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1955.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	27.00	28.00
INITIAL SHUT-IN	30.00		1199.00
FINAL FLOW	30.00	35.00	33.00
FINAL SHUT-IN	27.00		1156.00

FINAL HYDROSTATIC PRESSURE: 1937.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/28/93	TICKET : 19891
CUSTOMER : RAYMOND OIL COMPANY, INC.	LEASE : LADENBURGER
WELL : 1 TEST: 3	GEOLOGIST: DOUGLASS
ELEVATION: 3010 GR	FORMATION: L KANSAS CITY H
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	27.00	27.00
5.00	25.00	-2.00
10.00	25.00	0.00
15.00	26.00	1.00
20.00	26.00	0.00
25.00	27.00	1.00
30.00	28.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	92.00	92.00	0.00
6.00	553.00	461.00	0.00
9.00	856.00	303.00	0.00
12.00	973.00	117.00	0.00
15.00	1049.00	76.00	0.00
18.00	1096.00	47.00	0.00
21.00	1134.00	38.00	0.00
24.00	1163.00	29.00	0.00
27.00	1187.00	24.00	0.00
30.00	1199.00	12.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	35.00	35.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	33.00	-2.00
10.00	33.00	0.00
15.00	33.00	0.00
20.00	33.00	0.00
25.00	33.00	0.00
30.00	33.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	146.00	146.00	0.00
6.00	628.00	482.00	0.00
9.00	656.00	28.00	0.00
12.00	961.00	305.00	0.00
15.00	1033.00	72.00	0.00
18.00	1079.00	46.00	0.00
21.00	1112.00	33.00	0.00
24.00	1136.00	24.00	0.00
27.00	1156.00	20.00	0.00



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 19892

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 3010 GR Formation L KC I-5 Eff. Pay Ft.

District Carby Date Oct 29 1993 Customer Order No.

COMPANY NAME Raymond Oil Co Inc

ADDRESS PO Box 48788 Wichita ks.

LEASE AND WELL NO. Ladenburger #1 COUNTY Logan STATE KS Sec. 7 Twp. 13 Rge. 33

Mail Invoice To Same #1 Ladenburger No. Copies Requested Reg

Co. Name Same #1 Ladenburger Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 4 Interval Tested From 4110 ft. to 4180 ft. Total Depth 4180 ft.

Packer Depth 4111 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4110 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4119 ft. Recorder Number 13700 Cap. 3950

Bottom Recorder Depth (Outside) 4122 ft. Recorder Number 13400 Cap. 3950

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

Drilling Contractor Murfin Rig #2 Drill Collar Length 464 I. D. 2.2 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 9.2 cc. Drill Pipe Length 3629 I. D. 3.8 in.

Chlorides 3600 P.P.M. Test Tool Length 23 ft. Tool Size 5/200 in.

Jars: Make ne Serial Number - Anchor Length 64 ft. Size 5/200 in.

Did Well Flow? ne Reversed Out ne Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4/200 in.

Blow: IFP Weak blow - 44" in water

FFP no Blow

Recovered 10 ft. of mud & few oil spots

Recovered ft. of Oil less than 1%

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 5:00 A.M. Time Pick Up Tool 5:45 A.M. Time Off Location 1:00 P.M.

Time Set Packer(s) 7:40 P.M. Time Started Off Bottom 10:10 A.M. Maximum Temperature 118

Initial Hydrostatic Pressure (A) 1976 P.S.I.

Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period Minutes 60 (D) 1171 P.S.I.

Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 29 P.S.I.

Final Closed In Period Minutes 30 (G) 916 P.S.I.

Final Hydrostatic Pressure (H) 1956 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 Marvin Douglas Signature of Customer or his authorized representative

Western Representative Mike Schubert

Thanks!

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 1989

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

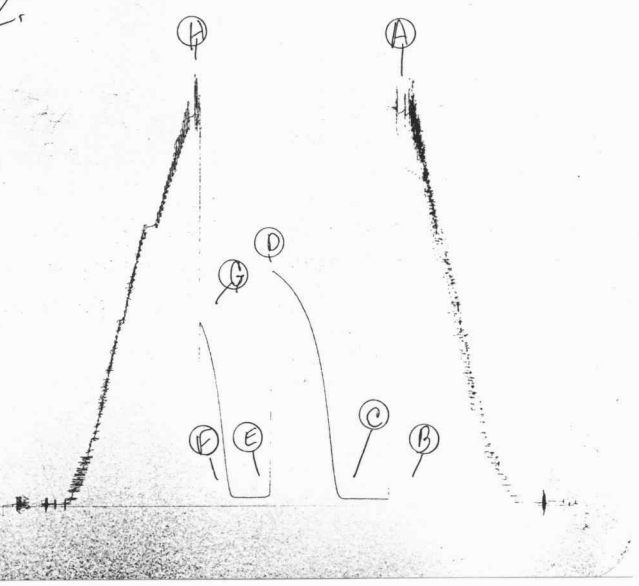
Point	Pressure	P.S.I.	Open Tool	Time Given	Mins.	Time Computed	Mins.
A Initial Hydrostatic Mud	<u>1994</u>	P.S.I.	Open Tool				
B First Initial Flow Pressure	<u>33</u>	P.S.I.	First Flow Pressure	<u>30</u>	Mins.	<u>30</u>	Mins.
C First Final Flow Pressure	<u>33</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	Mins.	<u>59</u>	Mins.
D Initial Closed-in Pressure	<u>1189</u>	P.S.I.	Second Flow Pressure	<u>30</u>	Mins.	<u>30</u>	Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	Final Closed-in Pressure	<u>30</u>	Mins.	<u>30</u>	Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.					
G Final Closed-in Pressure	<u>927</u>	P.S.I.					
H Final Hydrostatic Mud	<u>1978</u>	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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>33</u>	0	<u>33</u>	0	<u>41</u>	0	<u>41</u>
P 2 5		3	<u>33</u>	5		3	<u>90</u>
P 3 10		6	<u>49</u>	10		6	<u>238</u>
P 4 15		9	<u>109</u>	15		9	<u>410</u>
P 5 20		12	<u>311</u>	20		12	<u>592</u>
P 6 25		15	<u>508</u>	25		15	<u>702</u>
P 7 30	<u>33</u>	18	<u>630</u>	30	<u>41</u>	18	<u>784</u>
P 8 35		21	<u>741</u>	35		21	<u>850</u>
P 9 40		24	<u>823</u>	40		24	<u>901</u>
P10 45		27	<u>899</u>	45		27	<u>922</u>
P11 50		30	<u>963</u>	50		30	<u>927</u>
P12 55		33	<u>1000</u>	55		33	
P13 60		36	<u>1045</u>	60		36	
P14 65		39	<u>1095</u>	65		39	
P15 70		42	<u>1102</u>	70		42	
P16 75		45	<u>1123</u>	75		45	
P17 80		48	<u>1148</u>	80		48	
P18 85		51	<u>1165</u>	85		51	
P19 90		54	<u>1181</u>	90		54	
P20 95		57	<u>1189</u>	95		57	
100		<u>60</u>		100		60	

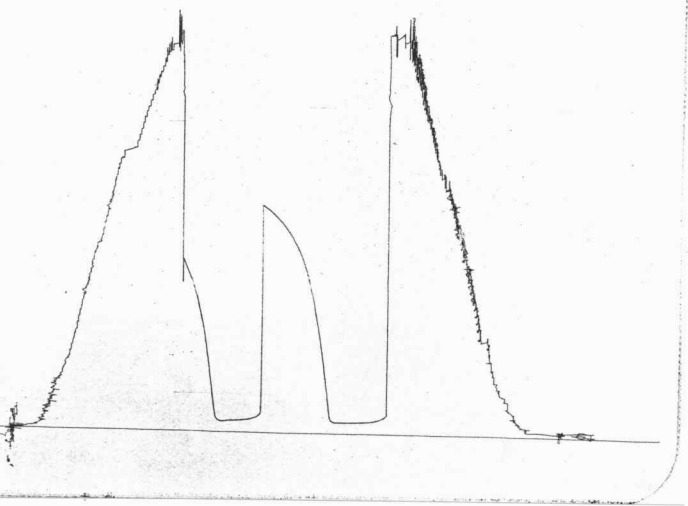
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TL#19892
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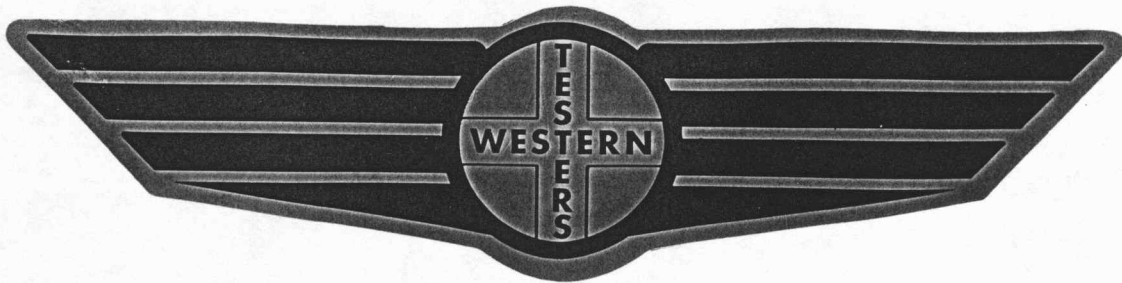


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TL#19892
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10/29/93	TICKET : 19892
CUSTOMER : RAYMOND OIL COMPANY, INC.	LEASE : LADENBURGER
WELL : 1 TEST: 4	GEOLOGIST: DOUGLASS
ELEVATION: 3010 GR	FORMATION: L KANSAS CITY I-J
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4116.00 ft	TO: 4180.00 ft	TVD: 4180.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4119.0 ft	4122.0 ft	
TEMPERATURE: 118.0		

DRILL COLLAR LENGTH: 464.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3629.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 64.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4111.0 ft	SIZE:	6.750 in
PACKER DEPTH: 4116.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 2	
MUD TYPE : CHEMICAL	VISCOSITY : 45.00 cp
WEIGHT : 9.100 ppg	WATER LOSS: 9.200 cc
CHLORIDES : 3600 ppm	
JARS-MAKE : NO	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - 1/4 INCH IN WATER.
FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	MUD W/FEW OIL SPOTS OIL- LESS THAN 1%
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0470	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0470	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1976.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	29.00	29.00
INITIAL SHUT-IN	60.00		1171.00
FINAL FLOW	30.00	29.00	29.00
FINAL SHUT-IN	30.00		916.00

FINAL HYDROSTATIC PRESSURE: 1956.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1994.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	33.00
INITIAL SHUT-IN	57.00		1189.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	30.00		927.00

FINAL HYDROSTATIC PRESSURE: 1978.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/29/93	TICKET	: 19892
CUSTOMER	: RAYMOND OIL COMPANY, INC.	LEASE	: LADENBURGER
WELL	: 1 TEST: 4	GEOLOGIST	: DOUGLASS
ELEVATION	: 3010 GR	FORMATION	: L KANSAS CITY I-J
SECTION	: 7	TOWNSHIP	: 13S
RANGE	: 33W COUNTY: LOGAN	STATE	: KS
GAUGE SN#	: 13760 RANGE : 3950	CLOCK	: 12 HR.

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	33.00	33.00
5.00	33.00	0.00
10.00	33.00	0.00
15.00	33.00	0.00
20.00	33.00	0.00
25.00	33.00	0.00
30.00	33.00	0.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	33.00	33.00	0.00
6.00	49.00	16.00	0.00
9.00	109.00	60.00	0.00
12.00	311.00	202.00	0.00
15.00	508.00	197.00	0.00
18.00	630.00	122.00	0.00
21.00	741.00	111.00	0.00
24.00	823.00	82.00	0.00
27.00	897.00	74.00	0.00
30.00	963.00	66.00	0.00
33.00	1000.00	37.00	0.00
36.00	1045.00	45.00	0.00
39.00	1075.00	30.00	0.00
42.00	1102.00	27.00	0.00
45.00	1123.00	21.00	0.00
48.00	1148.00	25.00	0.00
51.00	1165.00	17.00	0.00
54.00	1181.00	16.00	0.00
57.00	1189.00	8.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	41.00	41.00
5.00	41.00	0.00
10.00	41.00	0.00
15.00	41.00	0.00
20.00	41.00	0.00
25.00	41.00	0.00
30.00	41.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	90.00	90.00	0.00
6.00	238.00	148.00	0.00
9.00	410.00	172.00	0.00
12.00	572.00	162.00	0.00
15.00	702.00	130.00	0.00
18.00	784.00	82.00	0.00
21.00	850.00	66.00	0.00
24.00	901.00	51.00	0.00
27.00	922.00	21.00	0.00
30.00	927.00	5.00	0.00



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 19893

LAST

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 3010 GR Formation Johnson Eff. Pay Ft.

District Colby Date Oct 30 1993 Customer Order No.

COMPANY NAME Raymond Oil Co Inc.

ADDRESS PO Box 48788 Wichita KS.

LEASE AND WELL NO. Ladenburger #1 COUNTY Logan STATE KS. Sec. 7 Twp. 13 Rge. 33

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

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 5 Interval Tested From 4466 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4469 ft. Recorder Number 13760 Cap. 3950

Bottom Recorder Depth (Outside) 4472 ft. Recorder Number 13400 Cap. 3950

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Murpen Rig #2 Drill Collar Length 464 I. D. 2.2 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.35 Water Loss 10.4 cc. Drill Pipe Length 3979 I. D. 3.8 in.

Chlorides 7000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 49 ft. Size 5 1/2 in.

Did Well Flow? NO 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 in.

Blow: IFP - fair blow increased to strong - 8" in water

FFP - fair blow - increased to 6" in water

Recovered 210 ft. of oil 38 Gravity corrected to 60°

Recovered 164 ft. of oil and mud

Recovered ft. of

Recovered 240 ft. of gas odor in pipe above fluid

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Clock on IS Recorder stopped

Time On Location 700 A.M. Time Pick Up Tool 830 A.M. Time Off Location 844 A.M.

Time Set Packer(s) 1030 P.M. Time Started Off Bottom 200 P.M. Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2196 P.S.I.

Initial Flow Period Minutes 30 (B) 96 P.S.I. to (C) 96 P.S.I.

Initial Closed In Period Minutes 60 (D) 1082 P.S.I.

Final Flow Period Minutes 49 (E) 145 P.S.I. to (F) 155 P.S.I.

Final Closed In Period Minutes 75 (G) 1052 P.S.I.

Final Hydrostatic Pressure (H) 2136 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 Wesley Hansen Signature of Customer or his authorized representative

Western Representative Mike Shuckert

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Mistrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

FAX Bill Raymond 316-733-5415

Thanks!



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 19893

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 3910 GR Formation Johnson Eff. Pay Ft.

District Colby Date Oct 30 1993 Customer Order No.

COMPANY NAME Raymond Oil Co Inc

ADDRESS PO Box 48788 Wichita KS

LEASE AND WELL NO. Hadenburger #1 COUNTY Logan STATE KS Sec. 7 Twp 13 Rge 33

Mail Invoice To Same No. Copies Requested 100

Co. Name Address

Mail Charts To Same No. Copies Requested 100

Address

Formation Test No. 5 Interval Tested From 4466 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4466 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4469 ft. Recorder Number 13760 Cap 3950

Bottom Recorder Depth (Outside) 4472 ft. Recorder Number 13400 Cap 3950

Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor Murfin Rig #2 Drill Collar Length 469 I. D. 2 3/8 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.31 Water Loss 10.4 cc Drill Pipe Length 3979 I. D. 3 1/2 in.

Chlorides 7000 P.P.M. Test Tool Length 23 ft. Tool Size 5/8 in.

Jars: Make AC Serial Number - Anchor Length 49 ft. Size 5/8 in.

Did Well Flow? No Reversed Out No Surface Choke Size 2 1/4 in. Bottom Choke Size 3/4 in.

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

Blow: 1FP - fair blow increased to string - 8" in water

FFP - fair blow - increased to 6" in water

Recovered 210 ft. of oil 38 Gravity corrected to 60°

Recovered 164 ft. of oil out mud

Recovered ft. of

Recovered 240 ft. of gas odor in pipe above fluid

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Clock on 35 Recorder stopped

Time On Location 7:00 AM Time Pick Up Tool 8:30 AM Time Off Location 8:44 AM

Time Set Packer (s) 10 sec PM Time Started Off Bottom 2:00 PM Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2196 P.S.I.

Initial Flow Period Minutes 30 (B) 96 P.S.I. to (C) 96 P.S.I.

Initial Closed In Period Minutes 60 (D) 1082 P.S.I.

Final Flow Period Minutes 45 (E) 145 P.S.I. to (F) 155 P.S.I.

Final Closed In Period Minutes 75 (G) 1052 P.S.I.

Final Hydrostatic Pressure (H) 2196 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: [Signature]

FIELD INVOICE

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

FAI Bill # 111-111-111

WESTERN TESTING CO., INC.
Pressure Data

Date: Oct 30 1993
 Well No: 13400
 Section: 3016 GR
 Test Meter No: 19893
 Location: 4472
 Well Temperature: 120

Pressure	PSI	Open Tool	Time Given	Time Computed
Initial Hydrostatic Head	<u>2196</u>			
First Initial Flow Pressure	<u>87</u>			
First Final Flow Pressure	<u>87</u>			
Initial Closed-to Pressure	<u>1086</u>			
Second Initial Flow Pressure	<u>145</u>			
Second Final Flow Pressure	<u>160</u>			
Final Closed-to Pressure	<u>1050</u>			
Final Hydrostatic Head	<u>2156</u>			
Open Tool				
First Flow Pressure			<u>30</u> Min	<u>30</u> Min
Initial Closed-to Pressure			<u>40</u> Min	<u>40</u> Min
Second Flow Pressure			<u>45</u> Min	<u>45</u> Min
Final Closed-to Pressure			<u>75</u> Min	<u>75</u> Min

PRESSURE BREAKDOWN

Shot	Initial Shot-In	Second Flow Pressure	Final Shot-In
Line	Breakdown: Inc. of <u>5</u> min. and a final inc. of <u>0</u> Min.	Breakdown: Inc. of <u>5</u> min. and a final inc. of <u>0</u> Min.	Breakdown: Inc. of <u>3</u> min. and a final inc. of <u>0</u> Min.
Point Minutes	Press.	Point Minutes	Press.
1	0	0	0
2	5	5	3
3	10	10	6
4	15	15	9
5	20	20	12
6	25	25	15
7	30	30	18
8	35	35	21
9	40	40	24
10	45	45	27
11	50	50	30
12	55	55	33
13	60	60	36
14	65	65	39
15	70	70	42
16	75	75	45
17	80	80	48
18	85	85	51
19	90	90	54
20	95	95	57
	100	100	60

WESTERN TESTING CO., INC
Pressure Data

Oct 20 1935
13400

Order No.
Job No.
Plant

Revisions: 3016 GR

Test Order No. 19393
Location 4472
Well Temperature 120

Pressure	Open Test	Time Given	Time Computed
Initial Hydrostatic Head: 21920 PSI	First Flow Pressure	36 Min.	36 Min.
First Initial Flow Pressure: 87 PSI	Initial Closed in Pressure	60 Min.	48 Min.
First Final Flow Pressure: 87 PSI	Second Flow Pressure	65 Min.	49 Min.
Initial Closed in Pressure: 10860 PSI	Final Closed in Pressure	75 Min.	75 Min.
Second Initial Flow Pressure: 145 PSI			
Second Final Flow Pressure: 160 PSI			
Final Closed in Pressure: 1000 PSI			
Final Hydrostatic Head: 21560 PSI			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown	Initial Shut-In Breakdown	Second Flow Pressure Breakdown	Final Shut-In Breakdown
at 5 min and a final inc of 0 Min	at 3 min and a final inc of 0 Min	at 5 min and a final inc of 0 Min	at 3 min and a final inc of 0 Min
Point Minutes	Point Minutes	Point Minutes	Point Minutes
0 87	0 87	0 145	0 160
2 87	3 282	5 145	3 284
10 87	6 445	10 145	6 387
15 87	9 519	15 145	9 474
20 87	12 670	20 145	12 562
25 87	15 780	25 147	15 686
30 87	18 966	30 151	18 782
35	21 933	35 156	21 890
40	24 980	40 160	24 897
45	27 1013	45 160	27 925
50	30 1035	50	30 944
55	33 1046	55	33 964
60	36 1058	60	36 978
65	39 1066	65	39 988
70	42 1072	70	42 997
75	45 1078	75	45 1007
80	48 1080	80	48 1015
85	51 1082	85	51 1023
90	54 1085	90	54 1027
95	57 1085	95	57 1027
100	60 1086	100	60 1037

Pressure Data

Date _____ Test Ticker No. _____

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	_____ P.S.I.	_____ M	_____ M
B First Initial Flow Pressure	_____ P.S.I.	_____ Mins	_____ Mins
C First Final Flow Pressure	_____ P.S.I.	_____ Mins	_____ Mins
D Initial Closed-in Pressure	_____ P.S.I.	_____ Mins	_____ Mins
E Second Initial Flow Pressure	_____ P.S.I.	_____ Mins	_____ Mins
F Second Final Flow Pressure	_____ P.S.I.	_____ Mins	_____ Mins
G Final Closed-in Pressure	_____ P.S.I.	_____ Mins	_____ Mins
H Final Hydrostatic Mud	_____ P.S.I.	_____ Mins	_____ Mins

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 _____ mins. and a	final inc. of _____ Min.	of _____ mins. and a	final inc. of _____ Min.	of _____ mins. and a	final inc. of _____ Min.	of _____ mins. and a	final inc. of _____ Min.
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	105	63		63	105	63	1039	63
P 2	110	66		66	110	66	1042	66
P 3	115	69		69	115	69	1046	69
P 4	120	72		72	120	72	1048	72
P 5	125	75		75	125	75	1050	75
P 6	130	78		78	130	78		78
P 7	135	81		81	135	81		81
P 8	140	84		84	140	84		84
P 9	145	87		87	145	87		87
P 10	150	90		90	150	90		90
P 11	155	93		93	155	93		93
P 12	160	96		96	160	96		96
P 13	165	99		99	165	99		99
P 14	170	102		102	170	102		102
P 15	175	105		105	175	105		105
P 16	180	108		108	180	108		108
P 17	185	111		111	185	111		111
P 18	190	114		114	190	114		114
P 19	195	117		117	195	117		117
P 20	200	120		120	200	120		120

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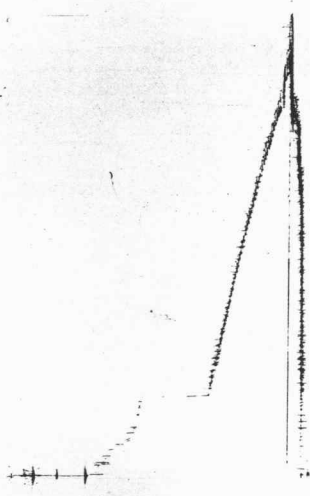
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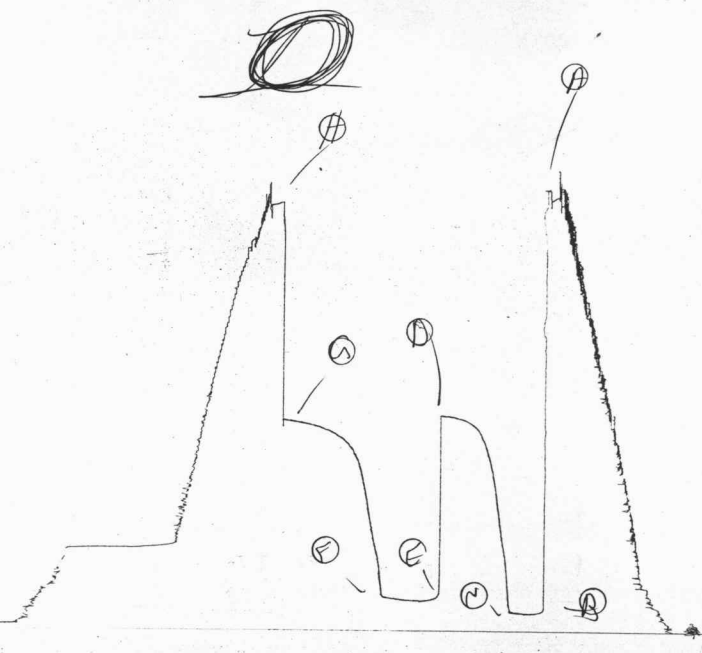
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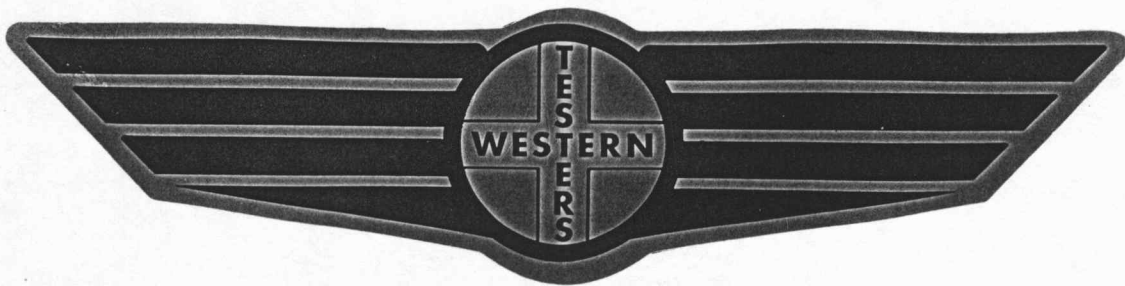


JK 1989

13400



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 80 - 688 - 7021**

DST REPORT

GENERAL INFORMATION

DATE : 10-30-93	TICKET : 19893
CUSTOMER : RAYMOND OIL COMPANY INC.	LEASE : LADENBURGER
WELL : 1 TEST: 5	GEOLOGIST: HANSEN
ELEVATION: 3010 G.L.	FORMATION: JOHNSON
SECTION : 7	TOWNSHIP : 13S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13400 RANGE : 3950	CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4466.00 ft	TO: 4515.00 ft	TVD: 4515.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4469.0 ft	4472.0 ft	
TEMPERATURE: 120.0		

DRILL COLLAR LENGTH: 464.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3979.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 49.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4461.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4466.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 2	VISCOSITY : 50.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.400 cc
WEIGHT : 9.300 ppg	
CHLORIDES : 7000 ppm	SERIAL NUMBER:
JARS-MAKE : NO	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD FAIR BLOW INCREASED TO STRONG
 BLOW 8 INCHES OF WATER
 FINAL FLOW PERIOD FAIR BLOW INCREASED TO 6 INCHES

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IN WATER

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
210.0	100.0	0.0	0.0	0.0	OIL 38 GRAVITY AT 60 DEG
164.0	50.0	0.0	0.0	50.0	OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	240 FT GAS ODER IN PIPE

RATE INFORMATION

OIL VOLUME:	1.4359 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	35.3114 STB/D
MUD VOLUME:	0.4032 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	1.8391 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2196.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	96.00	96.00
INITIAL SHUT-IN	60.00		1082.00
FINAL FLOW	45.00	145.00	155.00
FINAL SHUT-IN	75.00		1052.00

FINAL HYDROSTATIC PRESSURE: 2156.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2195.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	87.00	87.00
INITIAL SHUT-IN	60.00		1086.00
FINAL FLOW	45.00	145.00	160.00
FINAL SHUT-IN	75.00		1050.00

FINAL HYDROSTATIC PRESSURE: 2160.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-30-93	TICKET : 19893
CUSTOMER : RAYMOND OIL COMPANY	LEASE : LADENBURGER
WELL : 1 TEST: 5	GEOLOGIST: HANSEN
ELEVATION: 3010 G.L.	FORMATION: JOHNSON
SECTION : 7	TOWNSHIP : 13
RANGE : 33 COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13400 RANGE : 3950	CLOCK : 12 HR.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	87.00	87.00
5.00	87.00	0.00
10.00	87.00	0.00
15.00	87.00	0.00
20.00	87.00	0.00
25.00	87.00	0.00
30.00	87.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	282.00	282.00	11.00
6.00	405.00	123.00	6.00
9.00	519.00	114.00	4.33
12.00	670.00	151.00	3.50
15.00	780.00	110.00	3.00
18.00	866.00	86.00	2.67
21.00	933.00	67.00	2.43
24.00	980.00	47.00	2.25
27.00	1013.00	33.00	2.11
30.00	1035.00	22.00	2.00
33.00	1046.00	11.00	1.91
36.00	1058.00	12.00	1.83
39.00	1066.00	8.00	1.77
42.00	1072.00	6.00	1.71
45.00	1078.00	6.00	1.67
48.00	1080.00	2.00	1.63
51.00	1082.00	2.00	1.59
54.00	1083.00	1.00	1.56
57.00	1085.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1086.00	1.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	145.00	145.00
5.00	145.00	0.00
10.00	145.00	0.00
15.00	145.00	0.00
20.00	145.00	0.00
25.00	147.00	2.00
30.00	151.00	4.00
35.00	156.00	5.00
40.00	160.00	4.00
45.00	160.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	160.00	160.00	16.00
6.00	284.00	124.00	8.50
9.00	387.00	103.00	6.00
12.00	474.00	87.00	4.75
15.00	562.00	88.00	4.00
18.00	680.00	118.00	3.50
21.00	782.00	102.00	3.14
24.00	850.00	68.00	2.88
27.00	925.00	75.00	2.67
30.00	944.00	19.00	2.50
33.00	964.00	20.00	2.36
36.00	978.00	14.00	2.25
39.00	988.00	10.00	2.15
42.00	997.00	9.00	2.07
45.00	1007.00	10.00	2.00
48.00	1015.00	8.00	1.94
51.00	1023.00	8.00	1.88
54.00	1027.00	4.00	1.83
57.00	1033.00	6.00	1.79

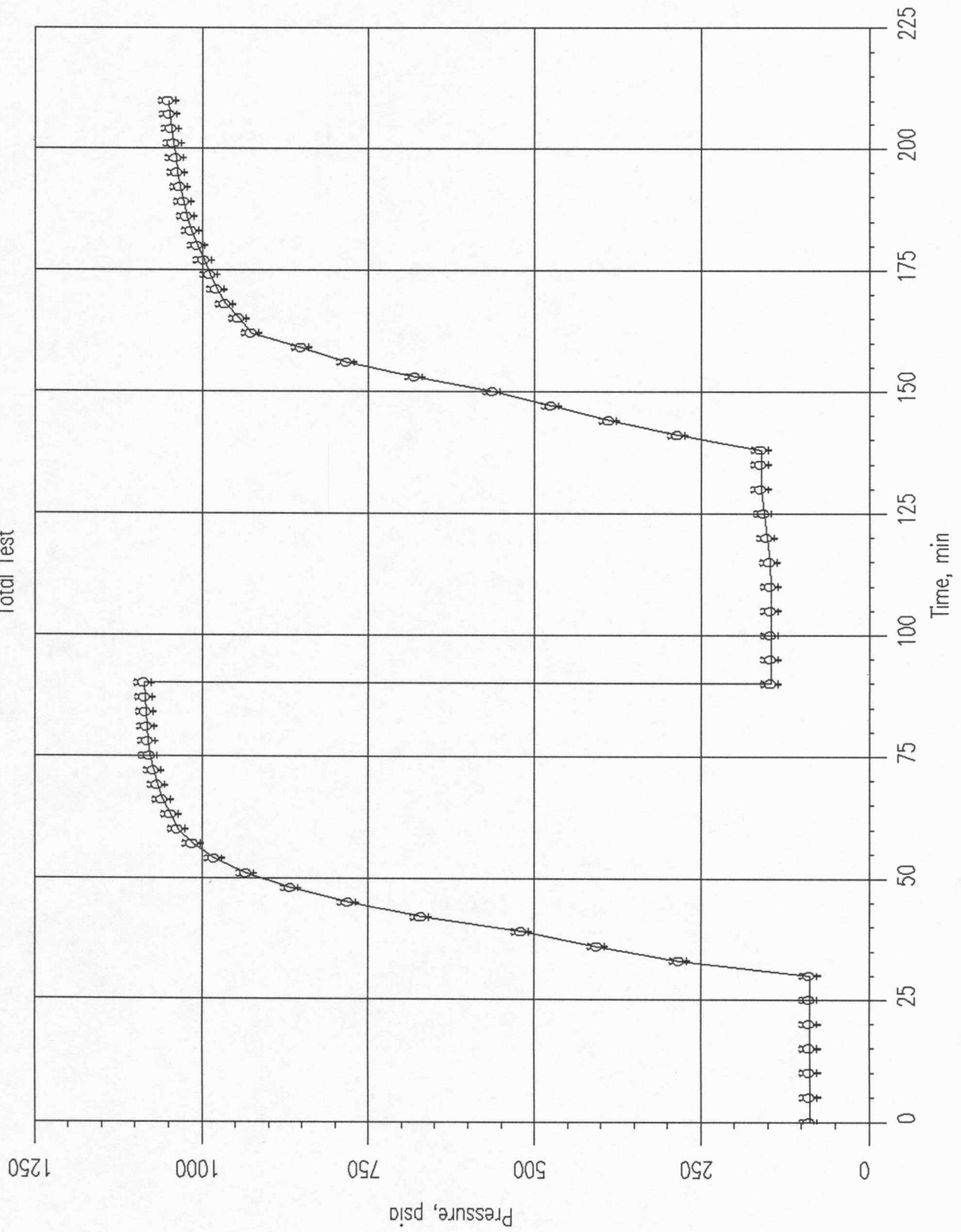
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1037.00	4.00	1.75
63.00	1039.00	2.00	1.71
66.00	1042.00	3.00	1.68
69.00	1046.00	4.00	1.65
72.00	1048.00	2.00	1.63
75.00	1050.00	2.00	1.60

Profile Plot

Total Test

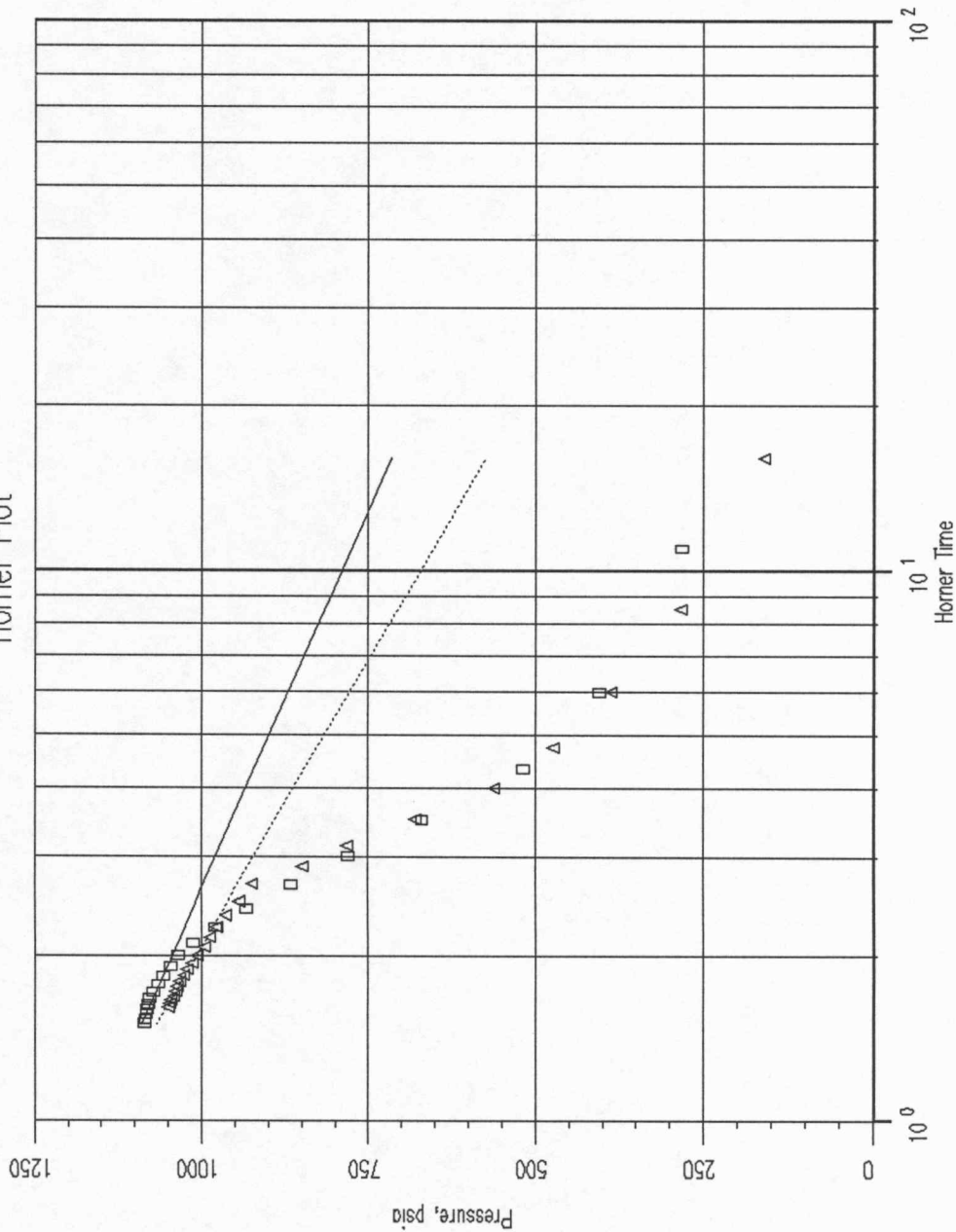


DATE 10-30-93
 CUSTOMER RAYMOND OIL COMPANY
 WELL 1
 ELEVATION 3010 G.L.
 SECTION 7
 RANGE 33
 GAUGE SN# 13400

TEST 5
 COUNTY LOGAN
 RANGE 3950

TICKET 19893
 LEASE LADENBURGER
 GEOLOGIST HANSEN
 FORMATION JOHNSON
 TOWNSHIP 13
 STATE KS
 CLOCK 12 HR.

Horner Plot



Result

	#1	#2
tp, hrs	0.50	0.75
Slope	-364.92	-479.65
Pstar, psig	1154.29	1151.21
P1hr, psig	1090.03	1034.64
Skin	1.22	0.16
k, md	0.90	0.69
kh/u, md-ft/cp	17.64	13.42
ri, ft	3.78	4.03
DR, %	1.27	0.89
Drawdown Factor, %		3.315
Drawdown P*, %		0.267

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 10-30-93	TICKET : 19893
CUSTOMER : RAYMOND OIL COMPANY	LEASE : LADENBURGER
WELL : 1 TEST: 5	GEOLOGIST: HANSEN
ELEVATION: 3010 G.L.	FORMATION: JOHNSON
SECTION : 7	TOWNSHIP : 13
RANGE : 33 COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13400 RANGE : 3950	CLOCK : 12 HR.

Input Data

Porosity 0.100 Rw: 0.328 ft h: 20.000 ft

qo 35.3 STB GOR 249.5 SCF/STB

Pvt Data

Evaluation Pressure : 1086.0
 Evaluation Temperature: 120.0

Oil Grav 38.00 API	Gas Grav 0.65 API	Pb 1086.00 PSIA	
Bo 1.121 RBL/STB	Vis 1.000 cp	Ct 3.2599E-004	1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.75 hrs
slope	-364.92	-479.65
pstar	1154.29 psig	1151.21 psig
plhr	1090.03 psig	1034.64 psig
skin	1.22	0.16
permeability	0.90 md	0.69 md
transmisability	17.64 md-ft/cp	13.42 md-ft/cp
radius of investigation	3.78 ft	4.03 ft
Damage-Ratio	1.3 percent	0.89 percent
Drawdown Factor		3.315 percent
Drawdown P*		0.267 percent