



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16156

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

Elevation 1851 KB Formation Miss Eff. Pay Ft.

District Pratt Date 9-16-93 Customer Order No.
COMPANY NAME Raymond Oil Co. Inc.
ADDRESS P.O. Box 48788 Wichita, Kansas 67204
LEASE AND WELL NO. Thomas A-1 COUNTY Stafford STATE Kansas Sec. 29 Twp. 25S Rge. 11W
Mail Invoice To Social No. Copies Requested Reg
Co. Name Stine #1-A Thomas Address No. Copies Requested Reg
Mail Charts To Address

Formation Test No. 1 Interval Tested From 3984 ft. to 4070 ft. Total Depth 4070 ft.
Packer Depth 3979 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.
Packer Depth 3984 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4003 ft. Recorder Number 13265 Cap. 3975
Bottom Recorder Depth (Outside) 4006 ft. Recorder Number 13759 Cap. 3900
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Duke Drilling Rig #2 Drill Collar Length 0 I. D. in.
Mud Type Chem Viscosity 40 Weight Pipe Length 0 I. D. in.
Weight 7.3 Water Loss 7.6 cc. Drill Pipe Length 3962 I. D. 3.8 in.
Chlorides 5500 P.P.M. Test Tool Length 22 ft. Tool Size 5/200 in.
Jars: Make No Serial Number T Anchor Length 86 (30 + 56) Size 4 1/2 + 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 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow in 10 minutes on initial flow
Strong blow on final flow. No gas to surface
Recovered 480 ft. of Gas in Pipe
Recovered 15 ft. of slightly oil spotted mud 5% gas - 95% mud (slight show of oil)
Recovered 60 ft. of gas & oil mud 10% gas - 5% oil - 85% mud
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 11:30 A.M. Time Pick Up Tool 12:40 A.M. Time Off Location 10:00 A.M.
Time Set Packer(s) 2:45 P.M. Time Started Off Bottom 7:45 A.M. Maximum Temperature 122 SF
Initial Hydrostatic Pressure (A) 2000 P.S.I.
Initial Flow Period Minutes 60 (B) 50 P.S.I. to (C) 50 P.S.I.
Initial Closed In Period Minutes 120 (D) 652 P.S.I.
Final Flow Period Minutes 60 (E) 50 P.S.I. to (F) 50 P.S.I.
Final Closed In Period Minutes 120 (G) 553 P.S.I.
Final Hydrostatic Pressure (H) 1949 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 Tim Hellman
Signature of Customer or his authorized representative

Western Representative Rod Grist - Thank you

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 9-16-92

Test Ticket No. 16156

Recorder No. 12265

Capacity

Location

Ft.

Clock No. Elevation

Well Temperature °F

Point Pressure

Time Given

Time Computed

A Initial Hydrostatic Mud 2004 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 1975 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: Inc.

of 5 mins. and a

final inc. of 0 Min.

Initial Shut-In

Breakdown: Inc.

of 3 mins. and a

final inc. of 0 Min.

Second Flow Pressure

Breakdown: Inc.

of 5 mins. and a

final inc. of 0 Min.

Final Shut-In

Breakdown: Inc.

of 3 mins. and a

final inc. of 0 Min.

Point Mins.	Press.
P 1 0	<u>52</u>
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	<u>51</u>
P14 65	
P15 70	
P16 75	
P17 80	
P18 85	
P19 90	
P20 95	
100	

Point Minutes	Press.
0	<u>52</u>
3	<u>59</u>
6	<u>63</u>
9	<u>70</u>
12	<u>76</u>
15	<u>83</u>
18	<u>94</u>
21	<u>104</u>
24	<u>112</u>
27	<u>112</u>
30	<u>132</u>
33	<u>142</u>
36	<u>154</u>
39	<u>165</u>
42	<u>177</u>
45	<u>187</u>
48	<u>205</u>
51	<u>215</u>
54	<u>231</u>
57	<u>247</u>
60	<u>264</u>

Point Minutes	Press.
0	<u>25</u>
5	
10	
15	
20	
25	
30	<u>25</u>
35	<u>26</u>
40	<u>5</u>
45	<u>26</u>
50	
55	
60	<u>26</u>
65	
70	
75	
80	
85	
90	
95	
100	

Point Minutes	Press.
0	<u>26</u>
3	<u>83</u>
6	<u>89</u>
9	<u>100</u>
12	<u>111</u>
15	<u>125</u>
18	<u>135</u>
21	<u>147</u>
24	<u>159</u>
27	<u>169</u>
30	<u>180</u>
33	<u>194</u>
36	<u>206</u>
39	<u>217</u>
42	<u>229</u>
45	<u>242</u>
48	<u>253</u>
51	<u>267</u>
54	<u>279</u>
57	<u>294</u>
60	<u>306</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: _____

Test Ticket No. 1654

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

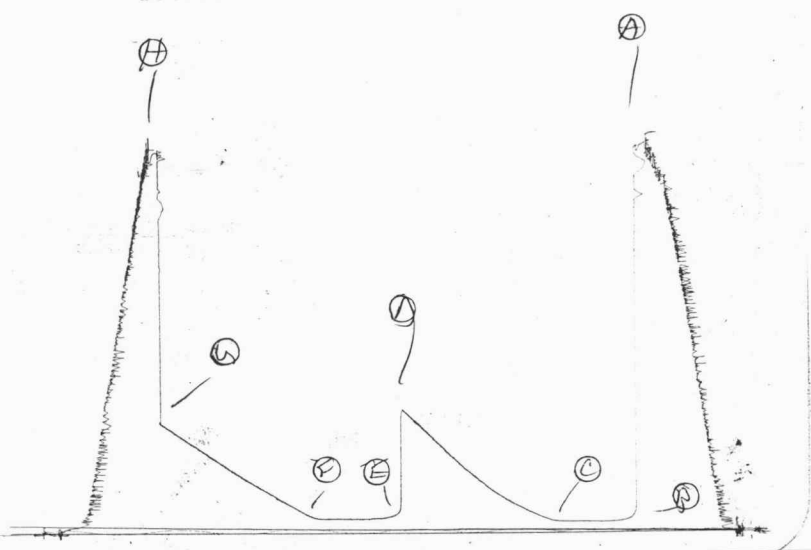
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ 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	283	105		63	318
P 2 110		66	298	110		66	332
P 3 115		69	314	115		69	347
P 4 120		72	329	120		72	361
P 5 125		75	348	125		75	375
P 6 130		78	370	130		78	387
P 7 135		81	385	135		81	402
P 8 140		84	401	140		84	415
P 9 145		87	416	145		87	429
P10 150		90	447	150		90	447
P11 155		93	460	155		93	460
P12 160		96	484	160		96	472
P13 165		99	504	165		99	488
P14 170		102	524	170		102	500
P15 175		105	546	175		105	514
P16 180		108	564	180		108	529
P17 185		111	580	185		111	542
P18 190		114	597	190		114	557
P19 195		117	620	195		117	569
P20 200		120	654	200		120	

13265- DST #1

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KT 16156

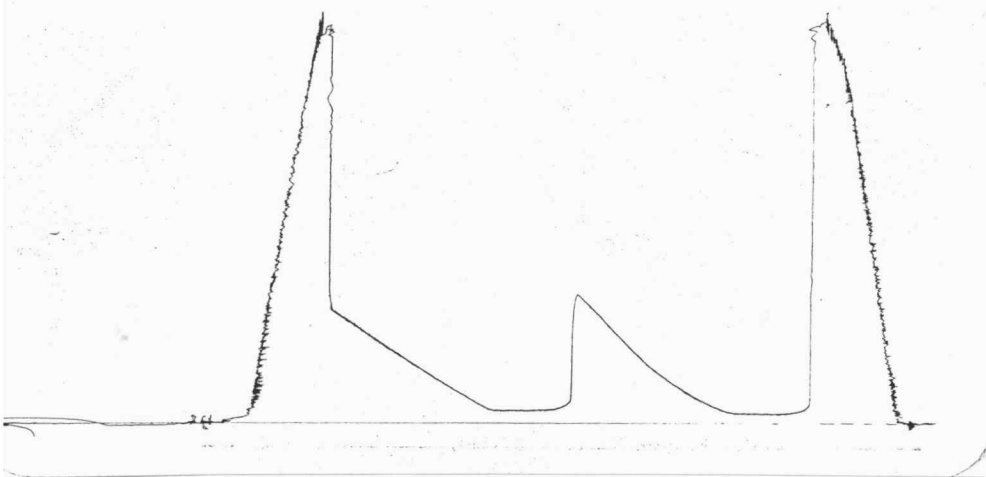
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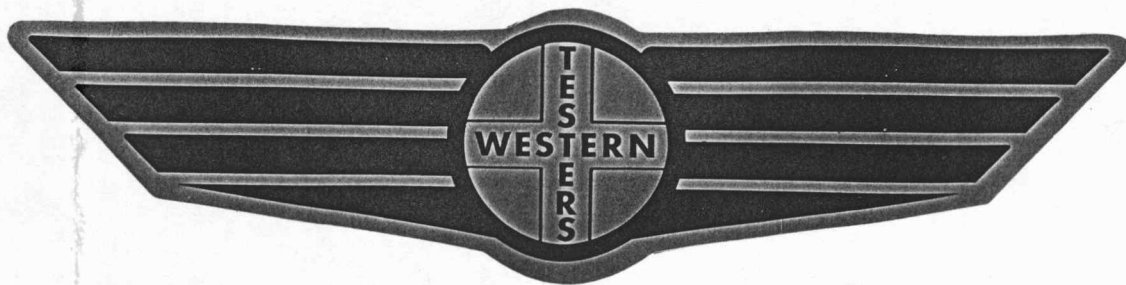
13759 DST #1

KT 16156

O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE	: 9/16/93	TICKET	: 16156
CUSTOMER	: RAYMOND OIL COMPANY INC.	LEASE	: THOMAS
WELL	: #1-A	TEST: 1	GEOLOGIST: HELLMAN
ELEVATION	: 1851 KB	FORMATION	: MISSISSIPPI
SECTION	: 29	TOWNSHIP	: 25S
RANGE	: 11W	COUNTY: STAFFORD	STATE : KS
GAUGE SN#	: 13265	RANGE : 3975	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3984.00 ft	TO:	4070.00 ft	TVD:	4070.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4003.0 ft		4006.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3962.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	86.0 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:	3979.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3984.0 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. :	DUKE DRLG RIG 2	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	7.600 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	
CHLORIDES :	5500 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW IN 10 MINUTES.
FINAL FLOW PERIOD STRONG BLOW. NO GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	480 FT GAS ABOVE FLUID
15.0	0.0	5.0	0.0	95.0	SLIGHTLY OIL SPOTTED MUD
0.0	0.0	0.0	0.0	0.0	SLIGHT SHOW OF OIL
60.0	5.0	10.0	0.0	85.0	GAS & OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0421 STB	
GAS VOLUME:	0.5316 SCF	TOTAL FLOW TIME: 120.0000 min.
MUD VOLUME:	0.9152 STB	AVERAGE OIL RATE: 9.0891 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE: 0.0000 STB/D
TOTAL FLUID :	0.9573 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2000.00

Description	Duration	p1	p End
INITIAL FLOW	60.00	50.00	50.00
INITIAL SHUT-IN	120.00		652.00
FINAL FLOW	60.00	50.00	50.00
FINAL SHUT-IN	120.00		553.00

FINAL HYDROSTATIC PRESSURE: 1949.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2004.00

Description	Duration	p1	p End
INITIAL FLOW	60.00	52.00	52.00
INITIAL SHUT-IN	120.00		636.00
FINAL FLOW	60.00	75.00	76.00
FINAL SHUT-IN	117.00		569.00

FINAL HYDROSTATIC PRESSURE: 1975.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/16/93	TICKET : 16156
CUSTOMER : RAYMOND OIL COMPANY INC.	LEASE : THOMAS
WELL : #1-A TEST: 1	GEOLOGIST: HELLMAN
ELEVATION: 1851 KB	FORMATION: MISSISSIPPI
SECTION : 29	TOWNSHIP : 25S
RANGE : 11W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 13265 RANGE : 3975	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	52.00	52.00
5.00	52.00	0.00
10.00	52.00	0.00
15.00	52.00	0.00
20.00	52.00	0.00
25.00	52.00	0.00
30.00	52.00	0.00
35.00	52.00	0.00
40.00	52.00	0.00
45.00	52.00	0.00
50.00	52.00	0.00
55.00	52.00	0.00
60.00	52.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	59.00	59.00	0.00
6.00	63.00	4.00	0.00
9.00	70.00	7.00	0.00
12.00	76.00	6.00	0.00
15.00	83.00	7.00	0.00
18.00	94.00	11.00	0.00
21.00	104.00	10.00	0.00
24.00	112.00	8.00	0.00
27.00	122.00	10.00	0.00
30.00	133.00	11.00	0.00
33.00	142.00	9.00	0.00
36.00	154.00	12.00	0.00
39.00	165.00	11.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
42.00	177.00	12.00	0.00
45.00	191.00	14.00	0.00
48.00	205.00	14.00	0.00
51.00	215.00	10.00	0.00
54.00	231.00	16.00	0.00
57.00	247.00	16.00	0.00
60.00	264.00	17.00	0.00
63.00	283.00	19.00	0.00
66.00	298.00	15.00	0.00
69.00	316.00	18.00	0.00
72.00	329.00	13.00	0.00
75.00	348.00	19.00	0.00
78.00	370.00	22.00	0.00
81.00	385.00	15.00	0.00
84.00	401.00	16.00	0.00
87.00	426.00	25.00	0.00
90.00	447.00	21.00	0.00
93.00	466.00	19.00	0.00
96.00	486.00	20.00	0.00
99.00	504.00	18.00	0.00
102.00	524.00	20.00	0.00
105.00	546.00	22.00	0.00
108.00	564.00	18.00	0.00
111.00	580.00	16.00	0.00
114.00	597.00	17.00	0.00
117.00	620.00	23.00	0.00
120.00	636.00	16.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	75.00	75.00
5.00	75.00	0.00
10.00	75.00	0.00
15.00	75.00	0.00
20.00	75.00	0.00
25.00	75.00	0.00
30.00	75.00	0.00
35.00	76.00	1.00
40.00	76.00	0.00
45.00	76.00	0.00
50.00	76.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
55.00	76.00	0.00
60.00	76.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	83.00	83.00	0.00
6.00	89.00	6.00	0.00
9.00	100.00	11.00	0.00
12.00	111.00	11.00	0.00
15.00	125.00	14.00	0.00
18.00	135.00	10.00	0.00
21.00	147.00	12.00	0.00
24.00	159.00	12.00	0.00
27.00	169.00	10.00	0.00
30.00	180.00	11.00	0.00
33.00	194.00	14.00	0.00
36.00	206.00	12.00	0.00
39.00	217.00	11.00	0.00
42.00	239.00	22.00	0.00
45.00	242.00	3.00	0.00
48.00	253.00	11.00	0.00
51.00	267.00	14.00	0.00
54.00	279.00	12.00	0.00
57.00	294.00	15.00	0.00
60.00	306.00	12.00	0.00
63.00	318.00	12.00	0.00
66.00	332.00	14.00	0.00
69.00	347.00	15.00	0.00
72.00	361.00	14.00	0.00
75.00	375.00	14.00	0.00
78.00	387.00	12.00	0.00
81.00	403.00	16.00	0.00
84.00	415.00	12.00	0.00
87.00	430.00	15.00	0.00
90.00	447.00	17.00	0.00
93.00	460.00	13.00	0.00
96.00	473.00	13.00	0.00
99.00	488.00	15.00	0.00
102.00	500.00	12.00	0.00
105.00	514.00	14.00	0.00
108.00	529.00	15.00	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>
111.00	542.00	13.00	0.00
114.00	557.00	15.00	0.00
117.00	569.00	12.00	0.00



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16157

Elevation 1851 LB Formation Viola Eff. Pay _____ Ft.

District Pratt Date 9-17-93 Customer Order No. _____

COMPANY NAME Raymond Oil Co Inc

ADDRESS P.O. Box 48788 Wichita, Kansas 67201

LEASE AND WELL NO. THOMAS "A" - 1 COUNTY Stafford STATE Kansas Sec. 29 Twp. E.55 Rge. 11W

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. 2 Interval Tested From 4201 ft. to 4212 ft. Total Depth 4212 ft.

Packer Depth 4296 ft. Size 2 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4201 ft. Size 2 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4203 ft. Recorder Number 13265 Cap. 3975

Bottom Recorder Depth (Outside) 4206 ft. Recorder Number 13759 Cap. 3900

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

Drilling Contractor Duke Drilling Rig 2 Drill Collar Length 0 I. D. _____ in.

Mud Type Chem Viscosity 56 Weight Pipe Length 0 I. D. _____ in.

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 4179 I. D. 3.8 in.

Chlorides 6500 P.P.M. Test Tool Length 22 ft. Tool Size 5/8 OD in.

Jars: Make NO Serial Number 7 Anchor Length 11 ft. Size 5/8 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 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow building to a 3 inch blow in 45 min. on initial flow
Weak to a 4" blow on final flow

Recovered _____ ft. of _____

Recovered 90 ft. of Slightly oil cut muddy water 60% water 40% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: NO outside chart 83,000 CHL

Time On Location 8:30 A.M. Time Pick Up Tool 9:00 A.M. Time Off Location 3:30 A.M.

Time Set Packer(s) 10:10 A.M. Time Started Off Bottom 1:40 A.M. Maximum Temperature 124 °F

Initial Hydrostatic Pressure _____ (A) 2198 P.S.I.

Initial Flow Period _____ Minutes 45 (B) 50 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1297 P.S.I.

Final Flow Period _____ Minutes 45 (E) 70 P.S.I. to (F) 70 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1198 P.S.I.

Final Hydrostatic Pressure _____ (H) 2148 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 Tim Hellman
Signature of Customer or his authorized representative

Western Representative Red Irill Thank you

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 9-17-92 Test Ticket No. 16157

Recorder No. 13265 Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2140</u> P.S.I.		M
B First Initial Flow Pressure	_____ P.S.I.	_____ Mins.	<u>40</u> 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.		
H Final Hydrostatic Mud	<u>2100</u> P.S.I.		

PRESSURE BREAKDOWN

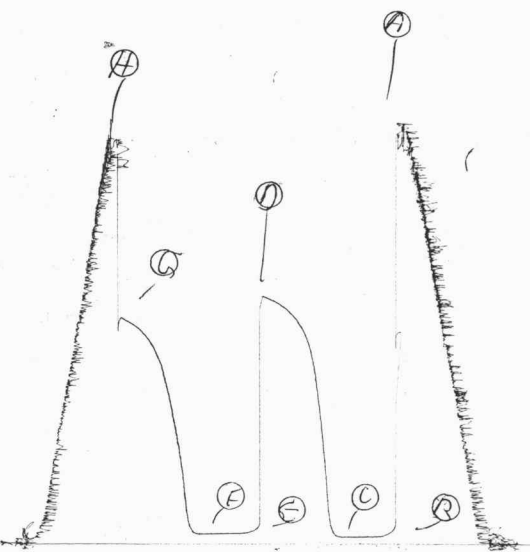
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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>40</u>	0		0	<u>54</u>	0	<u>54</u>
P 2 5		3	<u>44</u>	5		3	<u>67</u>
P 3 10		6	<u>53</u>	10		6	<u>95</u>
P 4 15		9	<u>118</u>	15		9	<u>225</u>
P 5 20		12	<u>562</u>	20		12	<u>404</u>
P 6 25	<u>40</u>	15	<u>529</u>	25		15	<u>534</u>
P 7 30		18	<u>732</u>	30		18	<u>650</u>
P 8 35		21	<u>886</u>	35		21	<u>752</u>
P 9 40	<u>40</u>	24	<u>983</u>	40		24	<u>839</u>
P10 45		27	<u>1060</u>	45	<u>56</u>	27	<u>917</u>
P11 50		30	<u>1104</u>	50		30	<u>971</u>
P12 55		33	<u>1140</u>	55		33	<u>1020</u>
P13 60		36	<u>1167</u>	60		36	<u>1050</u>
P14 65		39	<u>1191</u>	65		39	<u>1074</u>
P15 70		42	<u>1212</u>	70		42	<u>1099</u>
P16 75		45	<u>1230</u>	75		45	<u>1121</u>
P17 80		48	<u>1245</u>	80		48	<u>1138</u>
P18 85		51	<u>1255</u>	85		51	<u>1147</u>
P19 90		54	<u>1265</u>	90		54	<u>1159</u>
P20 95		57	<u>1275</u>	95		57	<u>1172</u>
100		60	<u>1282</u>	100		60	

13265 DS#2

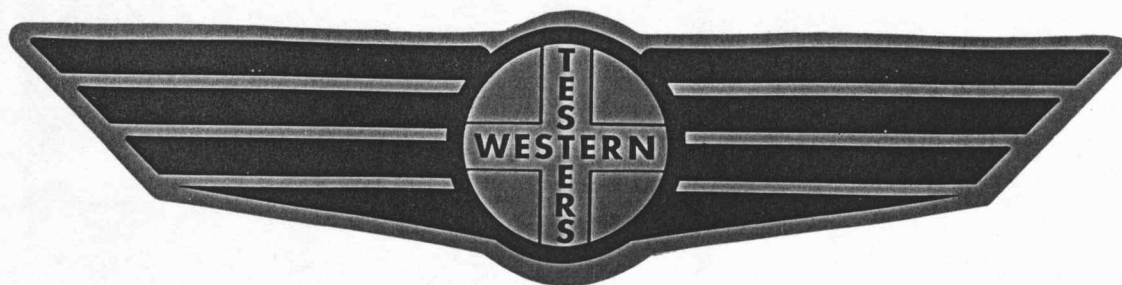
KT 16157



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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	: 9/17/93	TICKET	: 16157
CUSTOMER	: RAYMOND OIL COMPANY INC.	LEASE	: THOMAS
WELL	: #1-A TEST: 2	GEOLOGIST	: HELLMAN
ELEVATION	: 1851 KB	FORMATION	: VIOLA
SECTION	: 29	TOWNSHIP	: 25S
RANGE	: 11W	STATE	: KS
GAUGE SN#	: 13265	CLOCK	: 12
COUNTY	: STAFFORD		
RANGE	: 3975		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4201.00 ft	TO:	4212.00 ft	TVD:	4212.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4203.0 ft		4206.0 ft		
TEMPERATURE:	124.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4179.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	11.0 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:	4196.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4201.0 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. :	DUKE DRLG RIG 2	VISCOSITY :	56.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	6500 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW BUILDING TO AN 8
INCH BLOW IN 45 MINUTES. FINAL FLOW PERIOD WEAK
BLOW TO A 4 INCH BLOW.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

NO OUTSIDE CHART

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	0.0	60.0	40.0	SL OIL CUT MUDDY WATER
0.0	0.0	0.0	0.0	0.0	SKIM OF OIL ON TOP OF WTR
0.0	0.0	0.0	0.0	0.0	CHLORIDES 83000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	0.5049 STB	
WATER VOLUME:	0.7574 STB	
TOTAL FLUID :	1.2624 STB	
		TOTAL FLOW TIME: 85.0000 min.
		AVERAGE OIL RATE: 0.0000 STB/D
		AVERAGE WATER RATE: 21.3861 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2198.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	50.00	50.00
INITIAL SHUT-IN	60.00		1297.00
FINAL FLOW	45.00	70.00	70.00
FINAL SHUT-IN	60.00		1198.00

FINAL HYDROSTATIC PRESSURE: 2148.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2140.00

Description	Duration	p1	p End
INITIAL FLOW	40.00	40.00	40.00
INITIAL SHUT-IN	60.00		1283.00
FINAL FLOW	45.00	56.00	56.00
FINAL SHUT-IN	57.00		1172.00

FINAL HYDROSTATIC PRESSURE: 2100.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/17/93	TICKET : 16157
CUSTOMER : RAYMOND OIL COMPANY INC.	LEASE : THOMAS
WELL : #1-A	GEOLOGIST: HELLMAN
ELEVATION: 1851 KB	FORMATION: VIOLA
SECTION : 29	TOWNSHIP : 25S
RANGE : 11W	STATE : KS
GAUGE SN#: 13265	CLOCK : 12
COUNTY: STAFFORD	
RANGE : 3975	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	40.00	40.00
5.00	40.00	0.00
10.00	40.00	0.00
15.00	40.00	0.00
20.00	40.00	0.00
25.00	40.00	0.00
30.00	40.00	0.00
35.00	40.00	0.00
40.00	40.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	44.00	44.00	0.00
6.00	53.00	9.00	0.00
9.00	118.00	65.00	0.00
12.00	363.00	245.00	0.00
15.00	579.00	216.00	0.00
18.00	733.00	154.00	0.00
21.00	886.00	153.00	0.00
24.00	983.00	97.00	0.00
27.00	1060.00	77.00	0.00
30.00	1104.00	44.00	0.00
33.00	1140.00	36.00	0.00
36.00	1167.00	27.00	0.00
39.00	1191.00	24.00	0.00
42.00	1213.00	22.00	0.00
45.00	1230.00	17.00	0.00
48.00	1245.00	15.00	0.00
51.00	1255.00	10.00	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>
54.00	1265.00	10.00	0.00
57.00	1275.00	10.00	0.00
60.00	1283.00	8.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	56.00	56.00
5.00	56.00	0.00
10.00	56.00	0.00
15.00	56.00	0.00
20.00	56.00	0.00
25.00	56.00	0.00
30.00	56.00	0.00
35.00	56.00	0.00
40.00	56.00	0.00
45.00	56.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	67.00	67.00	0.00
6.00	99.00	32.00	0.00
9.00	225.00	126.00	0.00
12.00	404.00	179.00	0.00
15.00	534.00	130.00	0.00
18.00	650.00	116.00	0.00
21.00	757.00	107.00	0.00
24.00	839.00	82.00	0.00
27.00	917.00	78.00	0.00
30.00	971.00	54.00	0.00
33.00	1020.00	49.00	0.00
36.00	1050.00	30.00	0.00
39.00	1076.00	26.00	0.00
42.00	1099.00	23.00	0.00
45.00	1121.00	22.00	0.00
48.00	1138.00	17.00	0.00
51.00	1147.00	9.00	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>
54.00	1159.00	12.00	0.00
57.00	1172.00	13.00	0.00