



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16751

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

Elevation 1874 GL Formation KC Eff. Pay. — F

District GT. Bend Date 12-4-90 Customer Order No. —

COMPANY NAME H 230 Hutchinson Oil Co.

ADDRESS 105 South Broadway, Suite 470 Wichita, Mo. 67202

LEASE AND WELL NO. ALPERS #1-19 COUNTY STAFFORD STATE Mo Sec. 19 Twp. 22 Rge. 12

Mail Invoice To Co. Name SAME Address ALPERS #1-19 No. Copies Requested Reg

Mail Charts To SAME Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3385 ft. to 3440 ft. Total Depth 3440 ft.

Packer Depth 3380 ft. Size 6 5/8 in.

Packer Depth — ft. Size — in.

Packer Depth 3385 ft. Size 6 5/8 in.

Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3432 ft.

Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3435 ft.

Recorder Number 13268 Cap. 4225

Below Straddle Recorder Depth — ft.

Recorder Number — Cap. —

Drilling Contractor H-30 rig 7

Drill Collar Length — I. D. — in

Mud Type Chemical Viscosity 45

Weight Pipe Length — I. D. — in

Weight 9.2 Water Loss 9.3 cc.

Drill Pipe Length 3365 I. D. 3.8 in

Chlorides 4200 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 in

Jars: Make — Serial Number —

Anchor Length 55 ft. Size 5 1/2 in

Did Well Flow? — Reversed Out —

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: IF - Very WEAK Blow died in 10 min.

FF - No Blow, Flushed Tool

Recovered 10 ft. of Mud

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Chlorides — P.P.M. Sample Jars used 1 Remarks:

Time On Location 6:45 AM

Time Pick Up Tool 10:00 AM

Time Off Location 1:20 AM

Time Set Packer(s) 11:25 AM

Time Started Off Bottom 12:05 AM

Maximum Temperature 104°

Initial Hydrostatic Pressure (A) 1651 P.S.I.

Initial Flow Period Minutes 15 (B) 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 15 (D) 83 P.S.I.

Final Flow Period Minutes 10 (E) 52 P.S.I. to (F) 52 P.S.I.

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

Final Hydrostatic Pressure (H) 1651 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 Kendall M. Lihl
Signature of Customer or his authorized representative

Western Representative Ray Schwager 1925 Thank you

FIELD INVOICE

Open Hole Test 550
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 12-4-90 Test Ticket No. 14751
Recorder No. 10270 Capacity 4150 Location _____ Pt. _____
Clock No. _____ Elevation 1874GL Well Temperature 104 °F
Point _____ Pressure _____ Time Given _____ Time Computed _____
A Initial Hydrostatic Mud 1657 P.S.I. Open Tool 11:25 A
B First Initial Flow Pressure 56 P.S.I. First Flow Pressure 15 Mins 15 Mins.
C First Final Flow Pressure 56 P.S.I. Initial Closed-in Pressure 15 Mins 15 Mins.
D Initial Closed-in Pressure 85 P.S.I. Second Flow Pressure 10 Mins 10 Mins.
E Second Initial Flow Pressure 60 P.S.I. Final Closed-in Pressure _____ Mins _____ Mins.
F Second Final Flow Pressure 60 P.S.I.
G Final Closed-in Pressure _____ P.S.I.
H Final Hydrostatic Mud 1657 P.S.I.

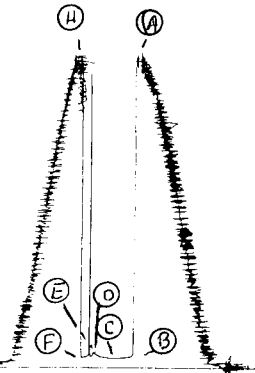
PRESSURE BREAKDOWN

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 <u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>60</u> FT	<u>0</u>	_____
P 2 <u>5</u>	<u>56</u>	<u>3</u>	<u>56</u>	<u>5</u>	<u>60</u>	<u>3</u>	_____
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>58</u>	<u>10</u>	<u>60</u>	<u>6</u>	_____
P 4 <u>15</u>	<u>56</u>	<u>9</u>	<u>60</u>	<u>15</u>	_____	<u>9</u>	_____
P 5 <u>20</u>	_____	<u>12</u>	<u>72</u>	<u>20</u>	_____	<u>12</u>	_____
P 6 <u>25</u>	_____	<u>15</u>	<u>85</u>	<u>25</u>	_____	<u>15</u>	_____
P 7 <u>30</u>	_____	<u>18</u>	_____	<u>30</u>	_____	<u>18</u>	_____
P 8 <u>35</u>	_____	<u>21</u>	_____	<u>35</u>	_____	<u>21</u>	_____
P 9 <u>40</u>	_____	<u>24</u>	_____	<u>40</u>	_____	<u>24</u>	_____
P10 <u>45</u>	_____	<u>27</u>	_____	<u>45</u>	_____	<u>27</u>	_____
P11 <u>50</u>	_____	<u>30</u>	_____	<u>50</u>	_____	<u>30</u>	_____
P12 <u>55</u>	_____	<u>33</u>	_____	<u>55</u>	_____	<u>33</u>	_____
P13 <u>60</u>	_____	<u>36</u>	_____	<u>60</u>	_____	<u>36</u>	_____
P14 <u>65</u>	_____	<u>39</u>	_____	<u>65</u>	_____	<u>39</u>	_____
P15 <u>70</u>	_____	<u>42</u>	_____	<u>70</u>	_____	<u>42</u>	_____
P16 <u>75</u>	_____	<u>45</u>	_____	<u>75</u>	_____	<u>45</u>	_____
P17 <u>80</u>	_____	<u>48</u>	_____	<u>80</u>	_____	<u>48</u>	_____
P18 <u>85</u>	_____	<u>51</u>	_____	<u>85</u>	_____	<u>51</u>	_____
P19 <u>90</u>	_____	<u>54</u>	_____	<u>90</u>	_____	<u>54</u>	_____
P20 <u>95</u>	_____	<u>57</u>	_____	<u>95</u>	_____	<u>57</u>	_____
<u>100</u>	_____	<u>60</u>	_____	<u>100</u>	_____	<u>60</u>	_____

TKT 16751

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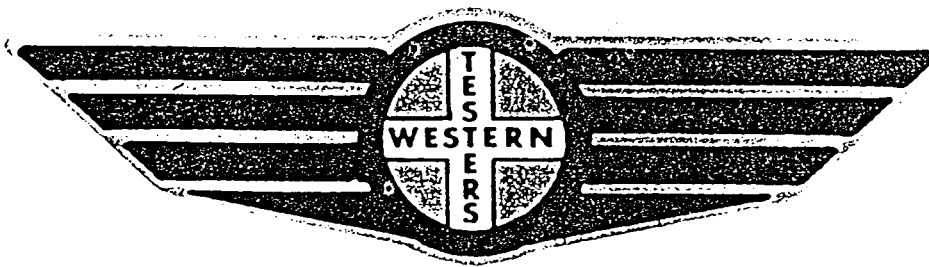


TKT 16751

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OSTH
13268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY LEASE & WELL NO. ALPERS #1-19 SEC. 19 TWP. 22S RGE. 12W TEST NO. 1 DATE 12/4/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	12/4/90	TICKET	:	16751	
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS	
WELL	:	1-19 TEST: 1	GEOLOGIST	:	LILAK	
ELEVATION	:	1874 GL	FORMATION	:	KANSAS CITY	
SECTION	:	19	TOWNSHIP	:	22S	
RANGE	:	12W	COUNTY :	STAFFORD	STATE :	KANSAS
GAUGE SN#	:	10270	RANGE :	4150	CLOCK :	12

INTERVAL FROM	:	3385	TO	:	3440	TOTAL DEPTH	:	3440
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3380	SIZE	:	6.63			
PACKER DEPTH	:	3385	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.2	WATER LOSS (CC)	:	9.3
CHLORIDES (PPM)	:	4200			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3365	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	55	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD VERY WEAK
BLOW COMMENT #2 : BLOW-DIED IN 10 MINUTES.
BLOW COMMENT #3 : FINAL FLOW PERIOD - NO BLOW-
BLOW COMMENT #4 : FLUSHED TOOL.

RECOVERED : 10 FT OF: MUD

Total Barrels Fluid = 0.14
Total Fluid Prod Rate = 8.08 BFPD
Indicated Wtr Rate = 0.81 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:25 AM
WELL TEMPERATURE : 104

TIME STARTED OFF BOTTOM : 12:05 AM

INITIAL HYDROSTATIC PRESSURE

(A) 1657

INITIAL FLOW PERIOD MIN: 15

(B) 56 PSI TO (C) : 56

INITIAL CLOSED IN PERIOD MIN: 15

(D) 85

FINAL FLOW PERIOD MIN: 10

(E) 60 PSI TO (F) : 60

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1657

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : 1-19
DATE : 12/4/90
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-19
GAUGE # : 10270
DATE : 4/12/90

FIELD : ALPERS
JOB # : 16751
DEPTH : 3440
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	11:25: 0	0.000	56.000	104.00	0.000
3	11:29:59	0.083	56.000	104.00	0.000
4	11:35: 0	0.167	56.000	104.00	0.000
5	11:40: 0	0.250	56.000	104.00	0.000
INITIAL SHUT-IN PERIOD					
6	11:43: 0	0.300	56.000	104.00	0.000
7	11:46: 0	0.350	58.000	104.00	2.000
8	11:49: 0	0.400	60.000	104.00	2.000
9	11:52: 0	0.450	72.000	104.00	12.000
10	11:55: 0	0.500	85.000	104.00	13.000
FINAL FLOW PERIOD					
11	11:56: 0	0.517	60.000	104.00	-25.000
12	11:59:59	0.583	60.000	104.00	0.000
13	12: 5: 0	0.667	60.000	104.00	0.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 16752

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

Elevation 1874 GL Formation KC Eff. Pay — F

District GT. Bend Date 12-5-90 Customer Order No. —
COMPANY NAME H230 HUTCHINSON OIL CO.
ADDRESS 105 SOUTH BROADWAY, SUITE 470 WICHITA, KS. 67202
LEASE AND WELL NO. Alpers #1-19 COUNTY STAFFORD STATE Ks Sec 19 Twp 25 Rge 12
Mail Invoice To SAME Co. Name Alpers #1-19 Address — No. Copies Requested Reg
Mail Charts To SAME Address — No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 3507 ft. to 3590 ft. Total Depth 3590 ft.
Packer Depth 3502 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 3507 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —
Top Recorder Depth (Inside) 3582 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 3585 ft. Recorder Number 13268 Cap. 4225
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor H-30 rig 7 Drill Collar Length — I. D. — in.
Mud Type CHEMICAL Viscosity 44 Weight Pipe Length — I. D. — in.
Weight 9.3 Water Loss 8.7 cc. Drill Pipe Length 3487 I. D. 3.8 in.
Chlorides 5500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make — Serial Number — Anchor Length 83 ft. Size 5 1/2 in.
Did Well Flow? — Reversed Out — 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 x H in.

Blow: IF-WEAK BLOW THROUGHOUT 1" TO 3" BLOW
FF-WEAK BLOW THROUGHOUT 1" TO 1 1/2" BLOW
Recovered 65 ft. of SLIGHTLY OIL CUT WATERY MUD 1% OIL 35% WATER 64% MUD
Recovered 120 ft. of WATER
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Chlorides 55000 P.P.M. Sample Jars used 3 Remarks: 1650 142.75 SW

Time On Location 12:15 AM Time Pick Up Tool 2:35 AM Time Off Location 9:30 AM
Time Set Packer(s) 4:15 AM Time Started Off Bottom 7:45 AM Maximum Temperature 107
Initial Hydrostatic Pressure — (A) 1755 P.S.I.
Initial Flow Period 45 Minutes (B) 72 P.S.I. to (C) 93 P.S.I.
Initial Closed In Period 45 Minutes (D) 1246 P.S.I.
Final Flow Period 60 Minutes (E) 114 P.S.I. to (F) 135 P.S.I.
Final Closed In Period 60 Minutes (G) 1226 P.S.I.
Final Hydrostatic Pressure — (H) 1744 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 Randall M. Pilek
Signature of Customer or his authorized representative

Western Representative Ray Schwager 1925
PAK
you

FIELD INVOICE

Open Hole Test ✓ 550
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

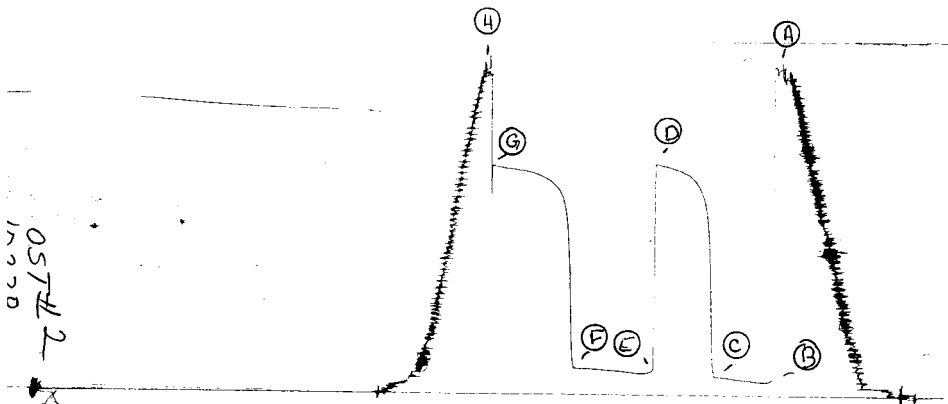
Date 12-5-90 Recorder No. 10270 Capacity 4150 Location _____ Pt. _____
 Clock No. _____ Elevation 1874 GL Well Temperature 107 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mud 1764 P.S.I. Open Tool 4:15 A.M.
 B First Initial Flow Pressure 76 P.S.I. First Flow Pressure 45 Mins. 45 Mins.
 C First Final Flow Pressure 100 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1245 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 119 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 141 P.S.I.
 G Final Closed-in Pressure 1234 P.S.I.
 H Final Hydrostatic Mud 1719 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 <u>0</u>	<u>76</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>119</u>	<u>0</u>	<u>141</u>
P 2 <u>5</u>	<u>76</u>	<u>3</u>	<u>867</u>	<u>5</u>	<u>119</u>	<u>3</u>	<u>813</u>
P 3 <u>10</u>	<u>76</u>	<u>6</u>	<u>1037</u>	<u>10</u>	<u>119</u>	<u>6</u>	<u>1033</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>1100</u>	<u>15</u>	<u>119</u>	<u>9</u>	<u>1089</u>
P 5 <u>20</u>	<u>82</u>	<u>12</u>	<u>1140</u>	<u>20</u>	<u>123</u>	<u>12</u>	<u>1123</u>
P 6 <u>25</u>	<u>84</u>	<u>15</u>	<u>1165</u>	<u>25</u>	<u>127</u>	<u>15</u>	<u>1144</u>
P 7 <u>30</u>	<u>89</u>	<u>18</u>	<u>1185</u>	<u>30</u>	<u>131</u>	<u>18</u>	<u>1158</u>
P 8 <u>35</u>	<u>94</u>	<u>21</u>	<u>1197</u>	<u>35</u>	<u>134</u>	<u>21</u>	<u>1171</u>
P 9 <u>40</u>	<u>97</u>	<u>24</u>	<u>1207</u>	<u>40</u>	<u>137</u>	<u>24</u>	<u>1181</u>
P10 <u>45</u>	<u>100</u>	<u>27</u>	<u>1215</u>	<u>45</u>	<u>139</u>	<u>27</u>	<u>1189</u>
P11 <u>50</u>		<u>30</u>	<u>1221</u>	<u>50</u>	<u>141</u>	<u>30</u>	<u>1198</u>
P12 <u>55</u>		<u>33</u>	<u>1228</u>	<u>55</u>	<u>141</u>	<u>33</u>	<u>1203</u>
P13 <u>60</u>		<u>36</u>	<u>1234</u>	<u>60</u>	<u>141</u>	<u>36</u>	<u>1207</u>
P14 <u>65</u>		<u>39</u>	<u>1237</u>	<u>65</u>		<u>39</u>	<u>1210</u>
P15 <u>70</u>		<u>42</u>	<u>1242</u>	<u>70</u>		<u>42</u>	<u>1212</u>
P16 <u>75</u>		<u>45</u>	<u>1245</u>	<u>75</u>		<u>45</u>	<u>1216</u>
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	<u>1217</u>
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	<u>1222</u>
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>1227</u>
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	<u>1230</u>
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	<u>1234</u>

TKT 16752

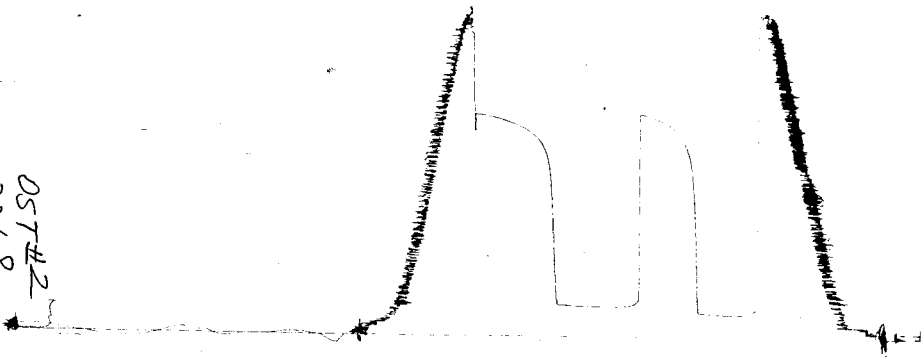
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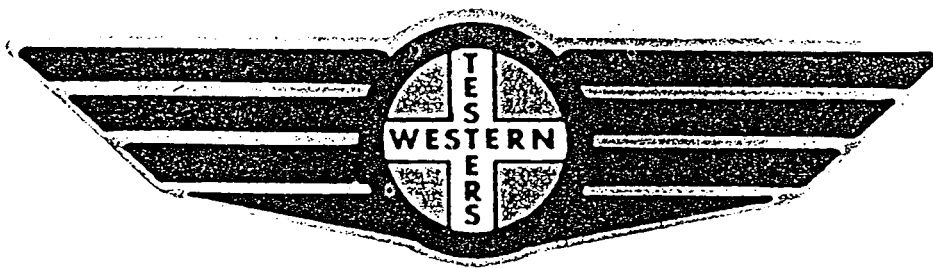
TKT 16752

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OST#2
13268



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	12/5/90	TICKET	:	16752
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	1-19	TEST:	:	2
ELEVATION	:	1874 GL	GEOLOGIST	:	LILAK
SECTION	:	19	FORMATION	:	KANSAS CITY
RANGE	:	12W	TOWNSHIP	:	22S
	:	COUNTY :	STATE	:	KANSAS
GAUGE SN#	:	10270	RANGE	:	4150
	:		CLOCK	:	12

INTERVAL FROM	:	3507	TO	:	3590	TOTAL DEPTH	:	3590
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3502	SIZE	:	6.63			
PACKER DEPTH	:	3507	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	44
WEIGHT	:	9.3	WATER LOSS (CC)	:	8.7
CHLORIDES (PPM)	:	5500			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3487	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	83	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW
BLOW COMMENT #2 : THROUGHOUT 1 TO 3 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD WEAK BLOW-
BLOW COMMENT #4 : 1 TO 1.5 INCH BLOW.

RECOVERED : 65 FT OF: SLIGHTLY OIL CUT WATERY MUD
RECOVERED : 0 FT OF: 1%OIL;35%WATER;64%MUD
RECOVERED : 120 FT OF: WATER
RECOVERED : 0 FT OF: CHLORIDES 55000 PPM

Total Barrels Fluid = 2.59
Total Fluid Prod Rate = 35.59 BFPD
Indicated Oil Rate = 0.13 BOPD
Indicated Wtr Rate = 27.46 BWPD
Corrected Oil Rate = 33.37 BOPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 4:15 AM
WELL TEMPERATURE : 107
INITIAL HYDROSTATIC PRESSURE (A) 1764
INITIAL FLOW PERIOD MIN: 45 (B) 76 PSI TO (C) : 100
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1245
FINAL FLOW PERIOD MIN: 60 (E) 119 PSI TO (F) : 141
FINAL CLOSED IN PERIOD MIN: 60 (G) 1234
FINAL HYDROSTATIC PRESSURE (H) 1719

TIME STARTED OFF BOTTOM : 7:45 AM

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : 1-19
DATE : 12/5/90
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-19
GAUGE # : 10270
DATE : 5/12/90

FIELD : ALPERS
JOB # : 16752
DEPTH : 3590
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	4:15: 0	0.000	76.000	107.00	0.000
3	4:19:59	0.083	76.000	107.00	0.000
4	4:25: 0	0.167	76.000	107.00	0.000
5	4:30: 0	0.250	78.000	107.00	2.000
6	4:34:59	0.333	82.000	107.00	4.000
7	4:40: 0	0.417	86.000	107.00	4.000
8	4:45: 0	0.500	89.000	107.00	3.000
9	4:49:59	0.583	94.000	107.00	5.000
10	4:55: 0	0.667	97.000	107.00	3.000
11	5: 0: 0	0.750	100.000	107.00	3.000
INITIAL SHUT-IN PERIOD					
12	5: 3: 0	0.800	867.000	107.00	767.000
13	5: 6: 0	0.850	1037.000	107.00	170.000
14	5: 9: 0	0.900	1100.000	107.00	63.000
15	5:12: 0	0.950	1140.000	107.00	40.000
16	5:15: 0	1.000	1165.000	107.00	25.000
17	5:18: 0	1.050	1185.000	107.00	20.000
18	5:21: 0	1.100	1197.000	107.00	12.000
19	5:24: 0	1.150	1207.000	107.00	10.000
20	5:27: 0	1.200	1215.000	107.00	8.000
21	5:30: 0	1.250	1221.000	107.00	6.000
22	5:33: 0	1.300	1228.000	107.00	7.000
23	5:36: 0	1.350	1234.000	107.00	6.000
24	5:39: 0	1.400	1237.000	107.00	3.000
25	5:42: 0	1.450	1242.000	107.00	5.000
26	5:45: 0	1.500	1245.000	107.00	3.000
FINAL FLOW PERIOD					
27	5:46: 0	1.517	119.000	107.00	-1126.000
28	5:49:59	1.583	119.000	107.00	0.000
29	5:55: 0	1.667	119.000	107.00	0.000
30	6: 0: 0	1.750	119.000	107.00	0.000
31	6: 4:59	1.833	123.000	107.00	4.000
32	6:10: 0	1.917	127.000	107.00	4.000
33	6:15: 0	2.000	131.000	107.00	4.000
34	6:19:59	2.083	134.000	107.00	3.000
35	6:25: 0	2.167	137.000	107.00	3.000
36	6:30: 0	2.250	139.000	107.00	2.000
37	6:34:59	2.333	141.000	107.00	2.000
38	6:40: 0	2.417	141.000	107.00	0.000
39	6:45: 0	2.500	141.000	107.00	0.000
FINAL SHUT-IN PERIOD					
40	6:48: 0	2.550	813.000	107.00	672.000
41	6:51: 0	2.600	1033.000	107.00	220.000
42	6:54: 0	2.650	1089.000	107.00	56.000
43	6:57: 0	2.700	1123.000	107.00	34.000
44	7: 0: 0	2.750	1144.000	107.00	21.000
45	7: 3: 0	2.800	1158.000	107.00	14.000
46	7: 6: 0	2.850	1171.000	107.00	13.000
47	7: 9: 0	2.900	1181.000	107.00	10.000
48	7:12: 0	2.950	1189.000	107.00	8.000

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-19
GAUGE # : 10270
DATE : 5/12/90

FIELD : ALPERS
JOB # : 16752
DEPTH : 3590
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	7:15: 0	3.000	1198.000	107.00	9.000
50	7:18: 0	3.050	1203.000	107.00	5.000
51	7:21: 0	3.100	1207.000	107.00	4.000
52	7:24: 0	3.150	1210.000	107.00	3.000
53	7:27: 0	3.200	1212.000	107.00	2.000
54	7:30: 0	3.250	1216.000	107.00	4.000
55	7:33: 0	3.300	1217.000	107.00	1.000
56	7:36: 0	3.350	1222.000	107.00	5.000
57	7:39: 0	3.400	1227.000	107.00	5.000
58	7:42: 0	3.450	1230.000	107.00	3.000
59	7:45: 0	3.500	1234.000	107.00	4.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 16753

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

Elevation 1874 GL Formation Simp. sd. Eff. Pay. — F

COMPANY NAME H230 Hutchinson Oil Co.
ADDRESS 105 South Broadway, Suite 470 Wichita, KS, 67202
LEASE AND WELL NO. Alpers #1-19 COUNTY STAFFORD STATE KS Sec 19 Twp 22S Rge 12W
Mail Invoice To SAME Alpers #1-19 Co. Name Address No. Copies Requested Reg
Mail Charts To SAME Address No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 3710 ft. to 3730 ft. Total Depth 3730 ft.
Packer Depth 3705 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 3710 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3722 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 3725 ft. Recorder Number 13268 Cap. 4225
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor H-30 rig 7 Drill Collar Length — I. D. — in.
Mud Type Chemical Viscosity 45 Weight Pipe Length — I. D. — in.
Weight 9.2 Water Loss 11 cc. Drill Pipe Length 3690 I. D. 3.8 in.
Chlorides 5300 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make — Serial Number — Anchor Length 20 ft. Size 5 1/2 in.
Did Well Flow? — Reversed Out — 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 x 1 1/2 in.

Blow: IF - Very Weak Blow, died in 8 min.
FF - NO Blow Flushed Tool
Recovered 5 ft. of Mud
Recovered — ft. of
Recovered — ft. of
Recovered — ft. of
Recovered — ft. of
Chlorides — P.P.M. Sample Jars used 1 Remarks: SW

Time On Location 9:30 A.M. Time Pick Up Tool 10:40 A.M. Time Off Location 2:20 A.M.
Time Set Packer(s) 12:05 P.M. Time Started Off Bottom 12:45 P.M. Maximum Temperature 109°
Initial Hydrostatic Pressure (A) 1827 P.S.I.
Initial Flow Period Minutes 15 (B) 31 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period Minutes 15 (D) 427 P.S.I.
Final Flow Period Minutes 10 (E) 31 P.S.I. to (F) 31 P.S.I.
Final Closed In Period Minutes — (G) — P.S.I.
Final Hydrostatic Pressure (H) 1817 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 Randall M. Lulek
Signature of Customer or his authorized representative

Western Representative Ray Schwager 1925 Thank you

FIELD INVOICE

Open Hole Test 550
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL 550

WESTERN TESTING CO., INC.

Pressure Data

Date 12-5-90 Test Ticket No. 16753
 Recorder No. 10270 Capacity 4150 Location _____ Pt. _____
 Clock No. _____ Elevation 1874 Gt Well Temperature 109 °P
 Point _____ Pressure _____ Time Given 12:05 AM Time Computed _____
 A Initial Hydrostatic Mud 1852 P.S.I. Open Tool _____
 B First Initial Flow Pressure 36 P.S.I. First Flow Pressure 15 Mins. 15 Mins.
 C First Final Flow Pressure 36 P.S.I. Initial Closed-in Pressure 15 Mins. 15 Mins.
 D Initial Closed-in Pressure 441 P.S.I. Second Flow Pressure 10 Mins. 10 Mins.
 E Second Initial Flow Pressure 41 P.S.I. Final Closed-in Pressure _____ Mins. _____ Mins.
 F Second Final Flow Pressure 41 P.S.I.
 G Final Closed-in Pressure _____ P.S.I.
 H Final Hydrostatic Mud 1804 P.S.I.

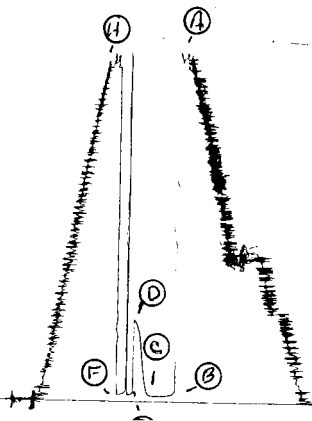
PRESSURE BREAKDOWN

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 <u>0</u>	<u>36</u>	<u>0</u>	<u>36</u>	<u>0</u>	<u>41</u>	<u>0</u>	
P 2 <u>5</u>	<u>36</u>	<u>3</u>	<u>36</u>	<u>5</u>	<u>41</u>	<u>3</u>	
P 3 <u>10</u>	<u>36</u>	<u>6</u>	<u>79</u>	<u>10</u>	<u>41</u>	<u>6</u>	
P 4 <u>15</u>	<u>36</u>	<u>9</u>	<u>283</u>	<u>15</u>		<u>9</u>	
P 5 <u>20</u>		<u>12</u>	<u>407</u>	<u>20</u>		<u>12</u>	
P 6 <u>25</u>		<u>15</u>	<u>441</u>	<u>25</u>		<u>15</u>	
P 7 <u>30</u>		<u>18</u>		<u>30</u>		<u>18</u>	
P 8 <u>35</u>		<u>21</u>		<u>35</u>		<u>21</u>	
P 9 <u>40</u>		<u>24</u>		<u>40</u>		<u>24</u>	
P10 <u>45</u>		<u>27</u>		<u>45</u>		<u>27</u>	
P11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	

TKT 16753

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OST#3
10270

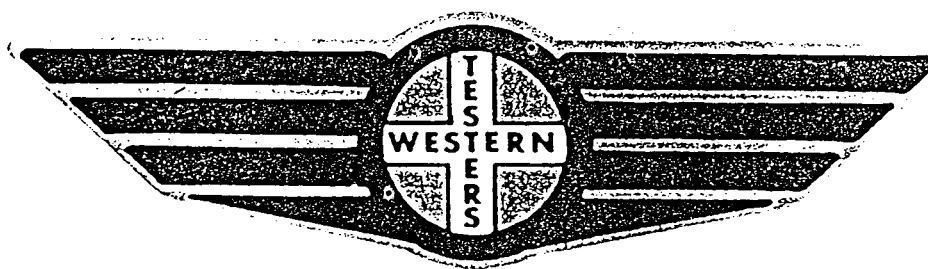


TKT 16753

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OST#3
12268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HUTCHINSON OIL COMPANY

LEASE & WELL NO.

ALPERS #1-19

SEC. 19

TWP. 22S

RGE. 12W

TEST NO.

3

DATE

12/5/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	12/5/90	TICKET	:	16753
CUSTOMER	:	HUTCHINSON OIL COMPANY	LEASE	:	ALPERS
WELL	:	1-19 TEST: 3	GEOLOGIST	:	LILAK
ELEVATION	:	1874 GL	FORMATION	:	SIMPSON SD
SECTION	:	19	TOWNSHIP	:	22S
RANGE	:	12W	COUNTY	:	STAFFORD
GAUGE SN#	:	10270	STATE	:	KANSAS
			RANGE	:	4150
			CLOCK	:	12

INTERVAL FROM	:	3710	TO	:	3730	TOTAL DEPTH	:	3730
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3705	SIZE	:	6.63			
PACKER DEPTH	:	3710	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	H-30 RIG 7			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.2	WATER LOSS (CC)	:	11
CHLORIDES (PPM)	:	5300			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3690	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	20	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1	:	INITIAL FLOW PERIOD VERY WEAK BLOW--
BLOW COMMENT #2	:	DIED IN 8 MINUTES.
BLOW COMMENT #3	:	FINAL FLOW PERIOD NO BLOW--
BLOW COMMENT #4	:	FLUSHED TOOL.

RECOVERED : 5 FT OF: MUD

Total Barrels Fluid = 0.07
Total Fluid Prod Rate = 4.04 BFPD
Indicated Wtr Rate = 0.40 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:05 AM
WELL TEMPERATURE : 109

TIME STARTED OFF BOTTOM : 12:45 AM

INITIAL HYDROSTATIC PRESSURE		(A)	1852	
INITIAL FLOW PERIOD	MIN: 15	(B)	36	PSI TO (C) : 36
INITIAL CLOSED IN PERIOD	MIN: 15	(D)	441	
FINAL FLOW PERIOD	MIN: 10	(E)	41	PSI TO (F) : 41
FINAL CLOSED IN PERIOD	MIN: 0	(G)	0	
FINAL HYDROSTATIC PRESSURE		(H)	1804	

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HUTCHINSON OIL COMPANY
RIG : STAFFORD-KANSAS
FIELD : ALPERS
WELL : 1-19
DATE : 12/5/90
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : HUTCHINSON OIL COMPANY
WELL : 1-19
GAUGE # : 10270
DATE : 5/12/90

FIELD : ALPERS
JOB # : 16753
DEPTH : 3730
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	12: 5: 0	0.000	36.000	109.00	0.000
3	12: 9:59	0.083	36.000	109.00	0.000
4	12:15: 0	0.167	36.000	109.00	0.000
5	12:20: 0	0.250	36.000	109.00	0.000
INITIAL SHUT-IN PERIOD					
6	12:23: 0	0.300	36.000	109.00	0.000
7	12:26: 0	0.350	79.000	109.00	43.000
8	12:29: 0	0.400	283.000	109.00	204.000
9	12:32: 0	0.450	406.000	109.00	123.000
10	12:35: 0	0.500	441.000	109.00	35.000
FINAL FLOW PERIOD					
11	12:36: 0	0.517	41.000	109.00	-400.000
12	12:39:59	0.583	41.000	109.00	0.000
13	12:45: 0	0.667	41.000	109.00	0.000

WESTERN TESTING CO. INC.