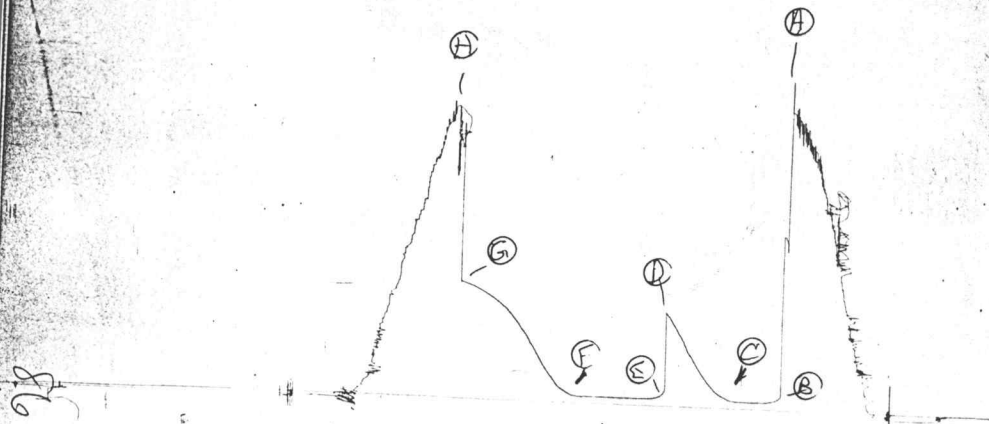


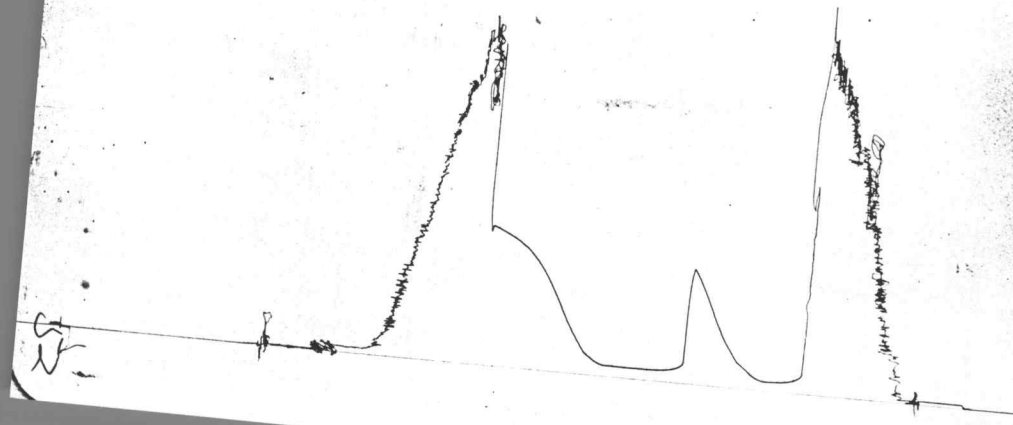
TK4 12985

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TK4 12985

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CLINTON PRODUCTION INC. LEASE & WELL NO. CROW B #1 SEC. 5 TWP. 24S RGE. 8W TEST NO. 1 DATE 7/15/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7-15-87	TICKET	:	12985
CUSTOMER	:	CLINTON PRODUCTION INC.	LEASE	:	CROW "B"
WELL	:	#1	TEST:	:	1
ELEVATION	:	-	GEOLOGIST	:	W. STOUT
SECTION	:	5	FORMATION	:	SWOPE
RANGE	:	8W	TOWNSHIP	:	24S
GAUGE SN#	:	3086	STATE	:	KANSAS
		COUNTY :	RANGE :		CLOCK :
		RENO	4500		12

INTERVAL FROM	:	3486	TO	:	3498	TOTAL DEPTH	:	3498
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3481	SIZE	:	6.63			
PACKER DEPTH	:	3486	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	RED TIGER	RIG #6		
MUD TYPE	:	STARCH	VISCOSITY	:	40
WEIGHT	:	9.4	WATER LOSS (CC)	:	16.0
CHLORIDES (PPM)	:	49000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	408
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3457	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	29	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	12	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 FH

BLOW COMMENT #1	:	WEAK BLOW INCREASED TO STRONG ON THE INITIAL FLOW.
BLOW COMMENT #2	:	STRONG BLOW THROUGHOUT THE FINAL FLOW.
BLOW COMMENT #3	:	
BLOW COMMENT #4	:	

RECOVERED : 80 FT OF: OIL & GAS CUT WATERY MUD
10% OIL-20% GAS-20% WATER

Total Barrels Fluid = 1.12
Total Fluid Prod Rate = 17.95 BFPD
Indicated Oil Rate = 1.80 BOPD
Indicated Wtr Rate = 3.59 BWPD

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

SET PACKER(S) : 1:45 AM
WELL TEMPERATURE : 114
INITIAL HYDROSTATIC PRESSURE (A) 1840
INITIAL FLOW PERIOD MIN: 30 (B) 63 PSI TO (C) : 63
INITIAL CLOSED IN PERIOD MIN: 57 (D) 594
FINAL FLOW PERIOD MIN: 60 (E) 61 PSI TO (F) : 61
FINAL CLOSED IN PERIOD MIN: 90 (G) 741
FINAL HYDROSTATIC PRESSURE (H) 1804

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CLINTON PRODUCTION INC.
RIG : RENO-KANSAS
FIELD : CROW "B"
WELL : #1
DATE : 7-15-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

COMPANY : CLINTON PRODUCTION INC.
WELL : #1
GAUGE # : 3086
DATE : 15/ 7/87

FIELD : CROW "B"
JOB # : 12985
DEPTH : 3498
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:45: 0	0.000	63.000	114.00	0.000
2	1:49:59	0.083	63.000	114.00	0.000
3	1:55: 0	0.167	63.000	114.00	0.000
4	2: 0: 0	0.250	63.000	114.00	0.000
5	2: 4:59	0.333	63.000	114.00	0.000
6	2:10: 0	0.417	63.000	114.00	0.000
7	2:15: 0	0.500	63.000	114.00	0.000
8	2:18: 0	0.550	64.000	114.00	1.000
9	2:21: 0	0.600	69.000	114.00	5.000
10	2:24: 0	0.650	75.000	114.00	6.000
11	2:27: 0	0.700	85.000	114.00	10.000
12	2:30: 0	0.750	96.000	114.00	11.000
13	2:33: 0	0.800	113.000	114.00	17.000
14	2:36: 0	0.850	140.000	114.00	27.000
15	2:39: 0	0.900	163.000	114.00	23.000
16	2:42: 0	0.950	199.000	114.00	36.000
17	2:45: 0	1.000	229.000	114.00	30.000
18	2:48: 0	1.050	267.000	114.00	38.000
19	2:51: 0	1.100	314.000	114.00	47.000
20	2:54: 0	1.150	347.000	114.00	33.000
21	2:57: 0	1.200	396.000	114.00	49.000
22	3: 0: 0	1.250	445.000	114.00	49.000
23	3: 3: 0	1.300	488.000	114.00	43.000
24	3: 6: 0	1.350	526.000	114.00	38.000
25	3: 9: 0	1.400	564.000	114.00	38.000
26	3:12: 0	1.450	594.000	114.00	30.000
27	3:13: 0	1.467	61.000	114.00	-533.000
28	3:16:59	1.533	61.000	114.00	0.000
29	3:22: 0	1.617	61.000	114.00	0.000
30	3:27: 0	1.700	61.000	114.00	0.000
31	3:31:59	1.783	61.000	114.00	0.000
32	3:37: 0	1.867	61.000	114.00	0.000
33	3:42: 0	1.950	61.000	114.00	0.000
34	3:46:59	2.033	61.000	114.00	0.000
35	3:52: 0	2.117	61.000	114.00	0.000
36	3:57: 0	2.200	61.000	114.00	0.000
37	4: 1:59	2.283	61.000	114.00	0.000
38	4: 7: 0	2.367	61.000	114.00	0.000
39	4:12: 0	2.450	61.000	114.00	0.000
40	4:15: 0	2.500	61.000	114.00	0.000
41	4:18: 0	2.550	63.000	114.00	2.000
42	4:21: 0	2.600	69.000	114.00	6.000
43	4:24: 0	2.650	83.000	114.00	14.000
44	4:27: 0	2.700	96.000	114.00	13.000
45	4:30: 0	2.750	113.000	114.00	17.000
46	4:33: 0	2.800	144.000	114.00	31.000
47	4:36: 0	2.850	175.000	114.00	31.000
48	4:39: 0	2.900	211.000	114.00	36.000
49	4:42: 0	2.950	249.000	114.00	38.000
50	4:45: 0	3.000	295.000	114.00	46.000
51	4:48: 0	3.050	334.000	114.00	39.000
52	4:51: 0	3.100	374.000	114.00	40.000

COMPANY : CLINTON PRODUCTION INC.

WELL : #1

GAUGE # : 3086

DATE : 15/ 7/87

FIELD : CROW "B",

JOB # : 12985

DEPTH : 3498

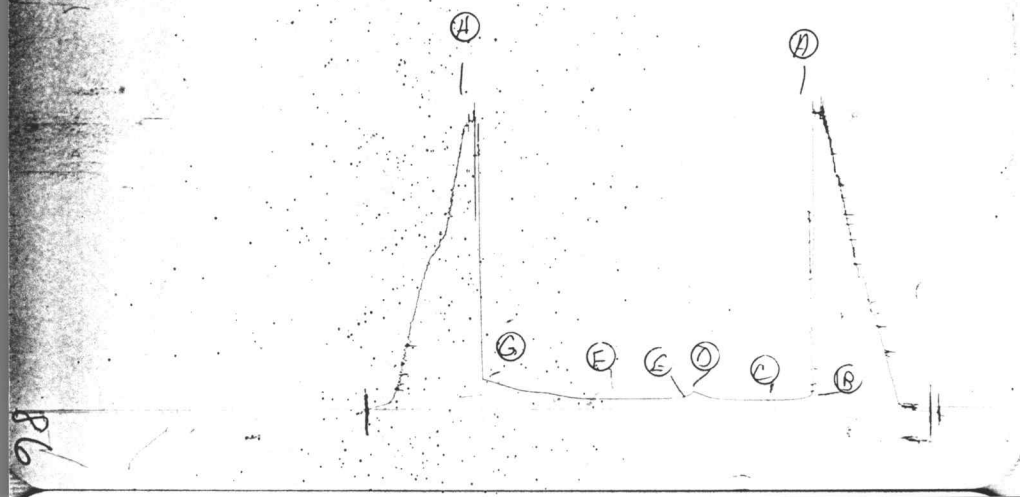
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	4:54: 0	3.150	418.000	114.00	44.000
54	4:57: 0	3.200	453.000	114.00	35.000
55	5: 0: 0	3.250	490.000	114.00	37.000
56	5: 3: 0	3.300	520.000	114.00	30.000
57	5: 6: 0	3.350	552.000	114.00	32.000
58	5: 9: 0	3.400	579.000	114.00	27.000
59	5:12: 0	3.450	602.000	114.00	23.000
60	5:15: 0	3.500	622.000	114.00	20.000
61	5:18: 0	3.550	639.000	114.00	17.000
62	5:21: 0	3.600	657.000	114.00	18.000
63	5:24: 0	3.650	671.000	114.00	14.000
64	5:27: 0	3.700	685.000	114.00	14.000
65	5:30: 0	3.750	700.000	114.00	15.000
66	5:33: 0	3.800	712.000	114.00	12.000
67	5:36: 0	3.850	722.000	114.00	10.000
68	5:39: 0	3.900	730.000	114.00	8.000
69	5:42: 0	3.950	741.000	114.00	11.000

WESTERN TESTING CO. INC.

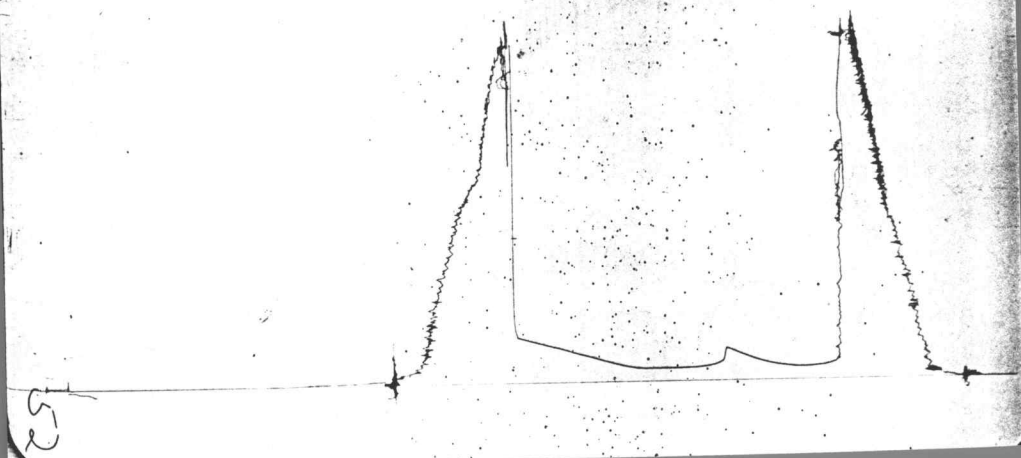
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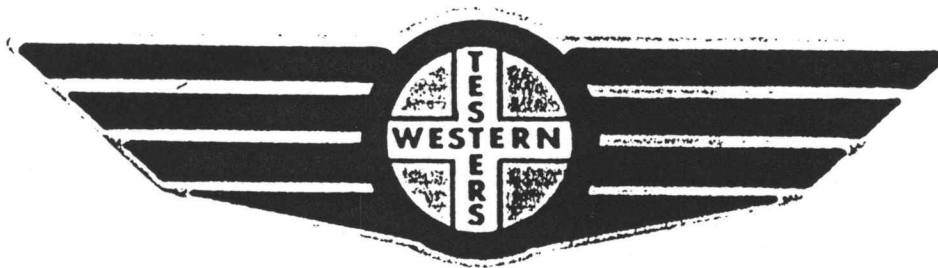
HA 12986

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CLINTON PRODUCTION INC. LEASE & WELL NO. CROW B #1 SEC. 5 TWP. 24S RGE. 8W TEST NO. 2 DATE 7/16/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 7-16-87	TICKET	: 12986
CUSTOMER	: CLINTON PRODUCTION INC.	LEASE	: CROW "B"
WELL	: #1 TEST: 2	GEOLOGIST	: W. STOUT
ELEVATION	: -	FORMATION	: -
SECTION	: 5	TOWNSHIP	: 24S
RANGE	: 8W	STATE	: KANSAS
GAUGE SN#	: 3086	CLOCK	: 12
	COUNTY : RENO		
	RANGE : 4500		

INTERVAL FROM	: 3520	TO	: 3565	TOTAL DEPTH	: 3565
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3515	SIZE	: 6.63		
PACKER DEPTH	: 3520	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: RED TIGER	RIG #6		
MUD TYPE	: STARCH	VISCOSITY	: 43	
WEIGHT	: 9.3	WATER LOSS (CC)	: 13.2	
CHLORIDES (PPM)	: 56000			
JARS-MAKE	: WTC	SERIAL NUMBER	: 408	
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO	

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	: 0.00
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3491	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 29	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 45	FT	ANCHOR SIZE	: 5.50
SURFACE CHOKE SIZE	: .75	IN	BOTTOM CHOKE SIZE	: .75
MAIN HOLE SIZE	: 7.875	IN	TOOL JOINT SIZE	: 4.5 FH

BLOW COMMENT #1	: WEAK BLOW THROUGHOUT THE INITIAL FLOW.
BLOW COMMENT #2	: FAIR BLOW THROUGHOUT THE FINAL FLOW.
BLOW COMMENT #3	:
BLOW COMMENT #4	:

RECOVERED : 35 FT OF: DRILLING MUD

Total Barrels Fluid = 0.49

Total Fluid Prod Rate = 7.85 BFPD

Indicated Wtr Rate = 0.79 BWPD

REMARK 1 :

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 11:20 PM

TIME STARTED OFF BOTTOM : 3:20 PM

WELL TEMPERATURE : 115

INITIAL HYDROSTATIC PRESSURE

(A) 1827

INITIAL FLOW PERIOD MIN: 30

(B) 77 PSI TO (C) : 77

INITIAL CLOSED IN PERIOD MIN: 57

(D) 130

FINAL FLOW PERIOD MIN: 60

(E) 90 PSI TO (F) : 90

FINAL CLOSED IN PERIOD MIN: 96

(G) 212

FINAL HYDROSTATIC PRESSURE

(H) 1791

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CLINTON PRODUCTION INC.
RIG : RENO-KANSAS
FIELD : CROW "B"
WELL : #1
DATE : 7-16-87
GAUGE NO : 3086

OPERATIONAL COMMENTS

COMPANY : CLINTON PRODUCTION INC.
WELL : #1
GAUGE # : 3086
DATE : 16/ 7/87

FIELD : CRGW "B"
JOB # : 12986
DEPTH : 3565
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
1	11:20: 0	0.000	77.000	115.00	0.000
2	11:24:59	0.083	77.000	115.00	0.000
3	11:30: 0	0.167	77.000	115.00	0.000
4	11:35: 0	0.250	77.000	115.00	0.000
5	11:39:59	0.333	77.000	115.00	0.000
6	11:45: 0	0.417	77.000	115.00	0.000
7	11:50: 0	0.500	77.000	115.00	0.000
8	11:53: 0	0.550	77.000	115.00	0.000
9	11:56: 0	0.600	77.000	115.00	0.000
10	11:59: 0	0.650	77.000	115.00	0.000
11	12: 2: 0	0.700	77.000	115.00	0.000
12	12: 5: 0	0.750	77.000	115.00	0.000
13	12: 8: 0	0.800	80.000	115.00	3.000
14	12:11: 0	0.850	80.000	115.00	0.000
15	12:14: 0	0.900	80.000	115.00	0.000
16	12:17: 0	0.950	81.000	115.00	1.000
17	12:20: 0	1.000	83.000	115.00	2.000
18	12:23: 0	1.050	83.000	115.00	0.000
19	12:26: 0	1.100	85.000	115.00	2.000
20	12:29: 0	1.150	88.000	115.00	3.000
21	12:32: 0	1.200	91.000	115.00	3.000
22	12:35: 0	1.250	94.000	115.00	3.000
23	12:38: 0	1.300	102.000	115.00	8.000
24	12:41: 0	1.350	113.000	115.00	11.000
25	12:44: 0	1.400	121.000	115.00	8.000
26	12:47: 0	1.450	130.000	115.00	9.000
27	12:48: 0	1.467	90.000	115.00	-40.000
28	12:51:59	1.533	90.000	115.00	0.000
29	12:57: 0	1.617	90.000	115.00	0.000
30	13: 2: 0	1.700	90.000	115.00	0.000
31	13: 6:59	1.783	90.000	115.00	0.000
32	13:12: 0	1.867	90.000	115.00	0.000
33	13:17: 0	1.950	90.000	115.00	0.000
34	13:21:59	2.033	90.000	115.00	0.000
35	13:27: 0	2.117	90.000	115.00	0.000
36	13:32: 0	2.200	90.000	115.00	0.000
37	13:36:59	2.283	90.000	115.00	0.000
38	13:42: 0	2.367	90.000	115.00	0.000
39	13:47: 0	2.450	90.000	115.00	0.000
40	13:50: 0	2.500	90.000	115.00	0.000
41	13:53: 0	2.550	90.000	115.00	0.000
42	13:56: 0	2.600	90.000	115.00	0.000
43	13:59: 0	2.650	90.000	115.00	0.000
44	14: 2: 0	2.700	90.000	115.00	0.000
45	14: 5: 0	2.750	90.000	115.00	0.000
46	14: 8: 0	2.800	90.000	115.00	0.000
47	14:11: 0	2.850	92.000	115.00	2.000
48	14:14: 0	2.900	94.000	115.00	2.000
49	14:17: 0	2.950	97.000	115.00	3.000
50	14:20: 0	3.000	101.000	115.00	4.000
51	14:23: 0	3.050	104.000	115.00	3.000
52	14:26: 0	3.100	110.000	115.00	6.000

COMPANY : CLINTON PRODUCTION INC.
WELL : #1
GAUGE # : 3086
DATE : 16/ 7/87

FIELD : CROW "B"
JOB # : 12986
DEPTH : 3565
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	14:29: 0	3.150	115.000	115.00	5.000
54	14:32: 0	3.200	118.000	115.00	3.000
55	14:35: 0	3.250	125.000	115.00	7.000
56	14:38: 0	3.300	128.000	115.00	3.000
57	14:41: 0	3.350	130.000	115.00	2.000
58	14:44: 0	3.400	132.000	115.00	2.000
59	14:47: 0	3.450	134.000	115.00	2.000
60	14:50: 0	3.500	137.000	115.00	3.000
61	14:53: 0	3.550	139.000	115.00	2.000
62	14:56: 0	3.600	145.000	115.00	6.000
63	14:59: 0	3.650	152.000	115.00	7.000
64	15: 2: 0	3.700	161.000	115.00	9.000
65	15: 5: 0	3.750	170.000	115.00	9.000
66	15: 8: 0	3.800	177.000	115.00	7.000
67	15:11: 0	3.850	184.000	115.00	7.000
68	15:14: 0	3.900	193.000	115.00	9.000
69	15:17: 0	3.950	200.000	115.00	7.000
70	15:20: 0	4.000	206.000	115.00	6.000
71	15:23: 0	4.050	212.000	115.00	6.000

WESTERN TESTING CO. INC.