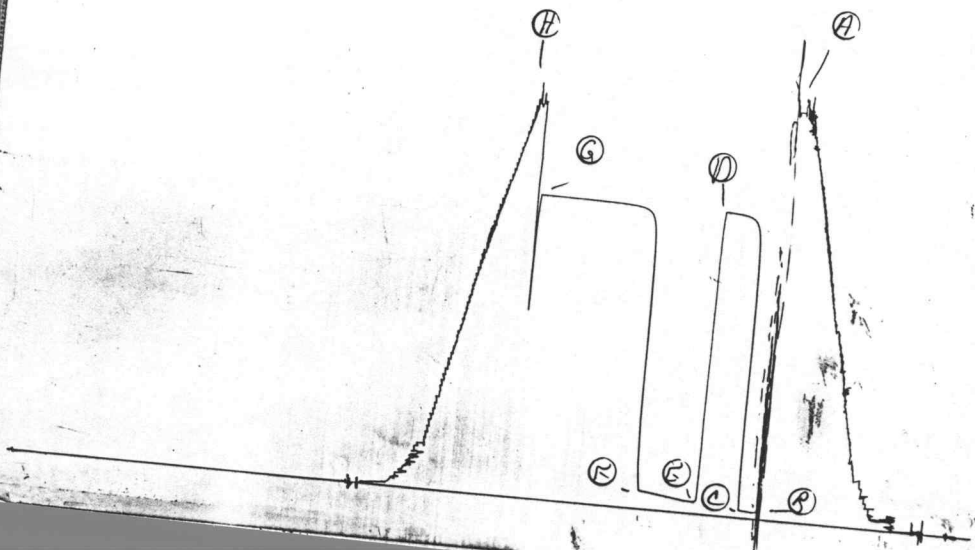


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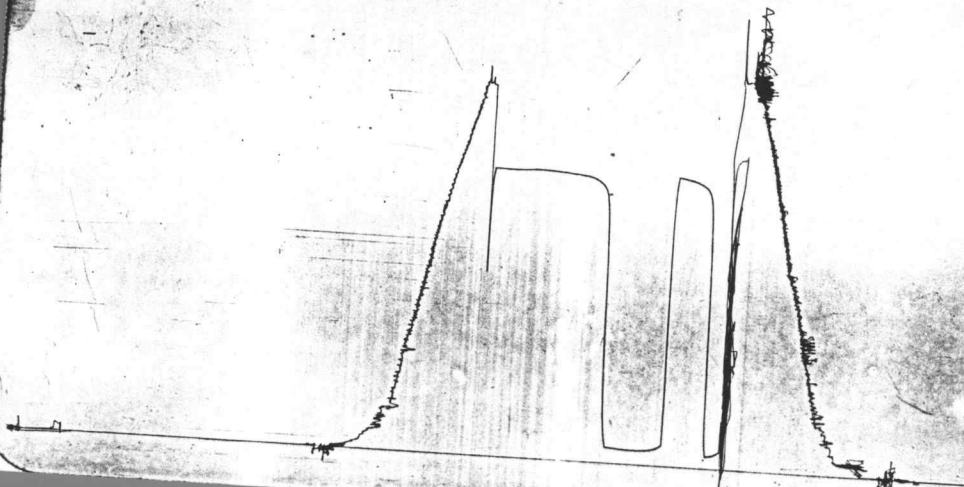
KT 13546
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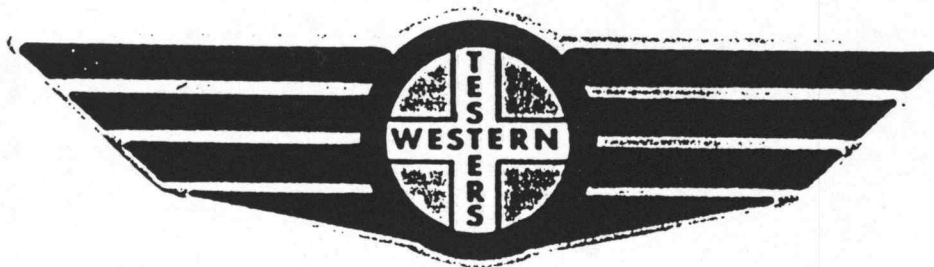
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TKH 13516

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AMES OIL COMPANY LEASE & WELL NO. KOEHN #1 SEC. 35 TWP. 32S RGE. 23W TEST NO. 1 DATE 4/13/88

WESTERN TESTING CO. INC. ,
SUBSURFACE PRESSURE SURVEY

DATE	: 4-13-88	TICKET	: 13516
CUSTOMER	: AMES OIL COMPANY	LEASE	: KOEHN
WELL	: #1 TEST: 1	GEOLOGIST	: S. ALBERG
ELEVATION	:	FORMATION	:
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 23W	STATE	: KS
GAUGE SN#	: 4376	CLOCK	: 12
	COUNTY : CLARK		
	RANGE : 4000		

INTERVAL FROM	: 4464	TO	: 4472	TOTAL DEPTH	: 4472
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 4459	SIZE	: 6.63		
PACKER DEPTH	: 4464	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: EAGLE DRLG. #1		
MUD TYPE	: CHEMICAL	VISCOSITY	: 45
WEIGHT	: 9.1	WATER LOSS (CC)	: 15.0
CHLORIDES (PPM)	: 14000		
JARS-MAKE	: WTC	SERIAL NUMBER	: 420
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 500	FT	I.D. inch	: 2.25
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3930	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 34	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 8	FT	ANCHOR SIZE	: 5.50
SURFACE CHOKE SIZE	: .75	IN	BOTTOM CHOKE SIZE	: .75
MAIN HOLE SIZE	: 7.875	IN	TOOL JOINT SIZE	: 4.5FH

BLOW COMMENT #1 : WEAK BLOW THROUGHOUT TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: OIL CUT WTRY MUD
RECOVERED : FT OF:
RECOVERED : FT OF: 10%OIL 10% WATER
RECOVERED : 180 FT OF: SLI OIL C/MDDY WATER
RECOVERED : FT OF: 5%OIL

Total Barrels Fluid = 0.93
Total Fluid Prod Rate = 22.42 BFPD
Indicated Oil Rate = 1.18 BOPD
Indicated Wtr Rate = 2.24 BWPD
Corrected Oil Rate = 19.84 BOPD
Corrected Wtr Rate = 37.70 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES 110000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 5:00 AM

TIME STARTED OFF BOTTOM : 8:00AM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

(A) 2149

INITIAL FLOW PERIOD MIN: 15

(B) 36 PSI TO (C) : 38

INITIAL CLOSED IN PERIOD MIN: 33

(D) 1596

FINAL FLOW PERIOD MIN: 45

(E) 66 PSI TO (F) : 99

FINAL CLOSED IN PERIOD MIN: 96

(G) 1597

FINAL HYDROSTATIC PRESSURE

(H) 2090

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AMES OIL COMPANY
RIG : CLARK-KS
FIELD : KOEHN
WELL : #1
DATE : 4-13-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

CHLORIDES 110000 PPM

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 4376
DATE : 13/ 4/88

FIELD : KOEHN
JOB # : 13516
DEPTH : 4472
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5: 0: 0	0.000	36.000	116.00	0.000
2	5: 4:59	0.083	36.000	116.00	0.000
3	5:10: 0	0.167	37.000	116.00	1.000
4	5:15: 0	0.250	38.000	116.00	1.000
5	5:18: 0	0.300	558.000	116.00	520.000
6	5:21: 0	0.350	1248.000	116.00	690.000
7	5:24: 0	0.400	1534.000	116.00	286.000
8	5:27: 0	0.450	1566.000	116.00	32.000
9	5:30: 0	0.500	1581.000	116.00	15.000
10	5:33: 0	0.550	1587.000	116.00	6.000
11	5:36: 0	0.600	1590.000	116.00	3.000
12	5:39: 0	0.650	1592.000	116.00	2.000
13	5:42: 0	0.700	1594.000	116.00	2.000
14	5:45: 0	0.750	1595.000	116.00	1.000
15	5:48: 0	0.800	1596.000	116.00	1.000
16	5:49: 0	0.817	66.000	116.00	-1530.000
17	5:52:59	0.883	66.000	116.00	0.000
18	5:58: 0	0.967	66.000	116.00	0.000
19	6: 2:59	1.050	71.000	116.00	5.000
20	6: 7:59	1.133	76.000	116.00	5.000
21	6:13: 0	1.217	81.000	116.00	5.000
22	6:18: 0	1.300	87.000	116.00	6.000
23	6:22:59	1.383	91.000	116.00	4.000
24	6:28: 0	1.467	95.000	116.00	4.000
25	6:33: 0	1.550	99.000	116.00	4.000
26	6:35:59	1.600	320.000	116.00	221.000
27	6:39: 0	1.650	711.000	116.00	391.000
28	6:41:59	1.700	1335.000	116.00	624.000
29	6:45: 0	1.750	1533.000	116.00	198.000
30	6:48: 0	1.800	1567.000	116.00	34.000
31	6:50:59	1.850	1578.000	116.00	11.000
32	6:54: 0	1.900	1583.000	116.00	5.000
33	6:56:59	1.950	1586.000	116.00	3.000
34	7: 0: 0	2.000	1589.000	116.00	3.000
35	7: 3: 0	2.050	1591.000	116.00	2.000
36	7: 5:59	2.100	1593.000	116.00	2.000
37	7: 9: 0	2.150	1594.000	116.00	1.000
38	7:11:59	2.200	1594.000	116.00	0.000
39	7:15: 0	2.250	1594.000	116.00	0.000
40	7:18: 0	2.300	1594.000	116.00	0.000
41	7:21: 0	2.350	1595.000	116.00	1.000
42	7:24: 0	2.400	1595.000	116.00	0.000
43	7:26:59	2.450	1595.000	116.00	0.000
44	7:30: 0	2.500	1595.000	116.00	0.000
45	7:33: 0	2.550	1595.000	116.00	0.000
46	7:36: 0	2.600	1596.000	116.00	1.000
47	7:39: 0	2.650	1596.000	116.00	0.000
48	7:41:59	2.700	1596.000	116.00	0.000
49	7:45: 0	2.750	1596.000	116.00	0.000
50	7:48: 0	2.800	1597.000	116.00	1.000
51	7:51: 0	2.850	1597.000	116.00	0.000
52	7:54: 0	2.900	1597.000	116.00	0.000

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 4376
DATE : 13/ 4/88

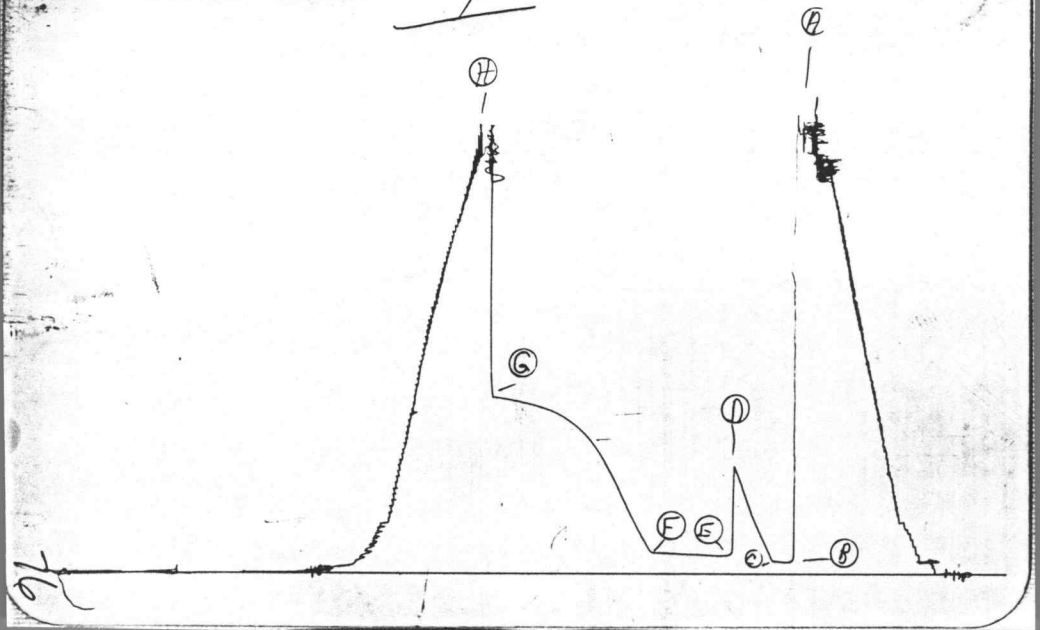
FIELD : KOEHN
JOB # : 13516
DEPTH : 4472
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	7:56:59	2.950	1597.000	116.00	0.000
54	8: 0: 0	3.000	1597.000	116.00	0.000
55	8: 3: 0	3.050	1597.000	116.00	0.000
56	8: 6: 0	3.100	1597.000	116.00	0.000
57	8: 9: 0	3.150	1597.000	116.00	0.000

WESTERN TESTING CO. INC.

TKT 13517

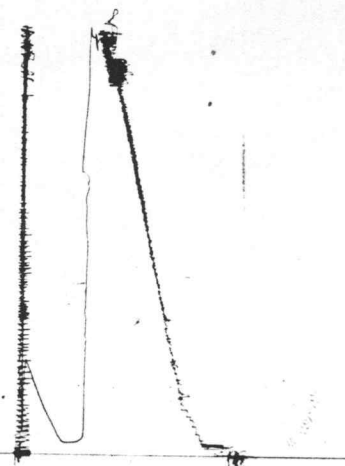
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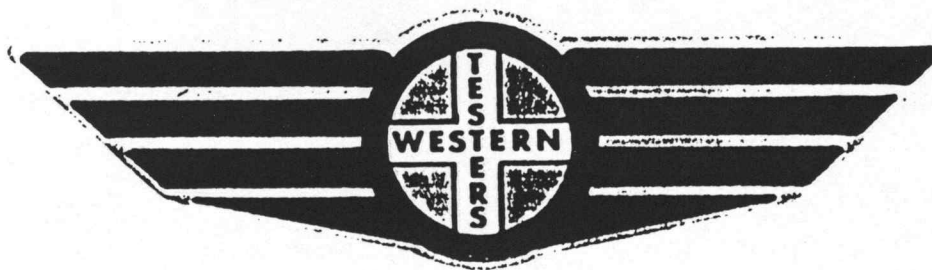
KT 13517

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AMES OIL COMPANY

LEASE & WELL NO.

KOEHN #1

SEC. 35

TWP. 32S RGE. 23W

TEST NO.

2 DATE

4/14/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 4-14-88 TICKET : 13517
CUSTOMER : AMES OIL COMPANY LEASE : KOEHN
WELL : #1 TEST: 2 GEOLOGIST : S. ALBERG
ELEVATION : FORMATION : KANSAS CITY
SECTION : 35 TOWNSHIP : 32S
RANGE : 23W COUNTY : CLARK STATE : KS
GAUGE SN# : 4376 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 4662 TO : 4693 TOTAL DEPTH : 4693
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4657 SIZE : 6.63
PACKER DEPTH : 4662 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : EAGLE #1
MUD TYPE : CHEMICAL VISCOSITY : 50
WEIGHT : 9.2 WATER LOSS (CC) : 12.0
CHLORIDES (PPM) : 23000
JARS-MAKE : WTC SERIAL NUMBER : 420
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 500 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4133 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 31 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5FH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT TEST
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 190 FT OF: SLI OIL&GAS C/WTRY MUD
RECOVERED : 0 FT OF: 8%OIL 20%WATER

Total Barrels Fluid = 0.93
Total Fluid Prod Rate = 17.94 BFPD
Indicated Oil Rate = 1.44 BOPD
Indicated Wtr Rate = 3.59 BWPD
Corrected Oil Rate = 12.35 BOPD
Corrected Wtr Rate = 30.86 BWPD

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

SET PACKER(S) : 3:00 AM

TIME STARTED OFF BOTTOM : 6:45 AM

WELL TEMPERATURE : 118

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 15

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 123

FINAL HYDROSTATIC PRESSURE

(A) 2321

(B) 61 PSI TO (C) : 64

(D) 567

(E) 95 PSI TO (F) : 110

(G) 929

(H) 2250

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AMES OIL COMPANY
RIG : CLARK-KS
FIELD : KOEHN
WELL : #1
DATE : 4-14-88
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 4376
DATE : 14/ 4/88

FIELD : KOEHN
JOB # : 13517
DEPTH : 4693
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3: 0: 0	0.000	61.000	118.00	0.000
2	3: 4: 59	0.083	61.000	118.00	0.000
3	3:10: 0	0.167	62.000	118.00	1.000
4	3:15: 0	0.250	64.000	118.00	2.000
5	3:18: 0	0.300	104.000	118.00	40.000
6	3:21: 0	0.350	152.000	118.00	48.000
7	3:24: 0	0.400	195.000	118.00	43.000
8	3:27: 0	0.450	247.000	118.00	52.000
9	3:30: 0	0.500	299.000	118.00	52.000
10	3:33: 0	0.550	354.000	118.00	55.000
11	3:36: 0	0.600	410.000	118.00	56.000
12	3:39: 0	0.650	472.000	118.00	62.000
13	3:42: 0	0.700	525.000	118.00	53.000
14	3:45: 0	0.750	567.000	118.00	42.000
15	3:46: 0	0.767	95.000	118.00	-472.000
16	3:49:59	0.833	95.000	118.00	0.000
17	3:55: 0	0.917	95.000	118.00	0.000
18	4: 0: 0	1.000	96.000	118.00	1.000
19	4: 4: 59	1.083	98.000	118.00	2.000
20	4:10: 0	1.167	100.000	118.00	2.000
21	4:15: 0	1.250	102.000	118.00	2.000
22	4:19:59	1.333	105.000	118.00	3.000
23	4:25: 0	1.417	106.000	118.00	1.000
24	4:30: 0	1.500	107.000	118.00	1.000
25	4:34:59	1.583	108.000	118.00	1.000
26	4:40: 0	1.667	109.000	118.00	1.000
27	4:45: 0	1.750	110.000	118.00	1.000
28	4:48: 0	1.800	121.000	118.00	11.000
29	4:51: 0	1.850	160.000	118.00	39.000
30	4:54: 0	1.900	198.000	118.00	38.000
31	4:57: 0	1.950	239.000	118.00	41.000
32	5: 0: 0	2.000	280.000	118.00	41.000
33	5: 3: 0	2.050	321.000	118.00	41.000
34	5: 5: 59	2.100	364.000	118.00	43.000
35	5: 9: 0	2.150	404.000	118.00	40.000
36	5:12: 0	2.200	451.000	118.00	47.000
37	5:15: 0	2.250	490.000	118.00	39.000
38	5:18: 0	2.300	530.000	118.00	40.000
39	5:21: 0	2.350	569.000	118.00	39.000
40	5:24: 0	2.400	604.000	118.00	35.000
41	5:27: 0	2.450	637.000	118.00	33.000
42	5:30: 0	2.500	669.000	118.00	32.000
43	5:33: 0	2.550	700.000	118.00	31.000
44	5:36: 0	2.600	721.000	118.00	21.000
45	5:39: 0	2.650	742.000	118.00	21.000
46	5:42: 0	2.700	762.000	118.00	20.000
47	5:45: 0	2.750	782.000	118.00	20.000
48	5:48: 0	2.800	797.000	118.00	15.000
49	5:51: 0	2.850	809.000	118.00	12.000
50	5:54: 0	2.900	824.000	118.00	15.000
51	5:57: 0	2.950	836.000	118.00	12.000
52	6: 0: 0	3.000	847.000	118.00	11.000

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 4376
DATE : 14/ 4/88

FIELD : KOEHN
JOB # : 13517
DEPTH : 4693
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	6: 3: 0	3.050	855.000	118.00	8.000
54	6: 6: 0	3.100	864.000	118.00	9.000
55	6: 9: 0	3.150	871.000	118.00	7.000
56	6:12: 0	3.200	877.000	118.00	6.000
57	6:15: 0	3.250	884.000	118.00	7.000
58	6:18: 0	3.300	889.000	118.00	5.000
59	6:21: 0	3.350	895.000	118.00	6.000
60	6:24: 0	3.400	900.000	118.00	5.000
61	6:27: 0	3.450	905.000	118.00	5.000
62	6:30: 0	3.500	908.000	118.00	3.000
63	6:33: 0	3.550	912.000	118.00	4.000
64	6:36: 0	3.600	917.000	118.00	5.000
65	6:39: 0	3.650	920.000	118.00	3.000
66	6:42: 0	3.700	923.000	118.00	3.000
67	6:45: 0	3.750	926.000	118.00	3.000
68	6:48: 0	3.800	929.000	118.00	3.000

WESTERN TESTING CO. INC.