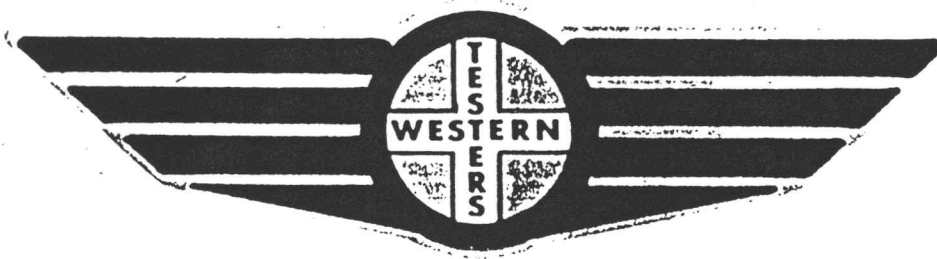


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861.

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 5-28-87 TICKET : 13076
CUSTOMER : BRANDT PRODUCTION CO. INC. LEASE : MELLIES
WELL : #6 TEST: 1 GEOLOGIST : E. BRANDT
ELEVATION : 1388 KB FORMATION : KANSAS CITY
SECTION : 15 TOWNSHIP : 29S
RANGE : 6E COUNTY : BUTLER STATE : KANSAS
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2235 TO : 2248 TOTAL DEPTH : 2248
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2235 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRLG. RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 36
WEIGHT : 8.7 WATER LOSS (CC) : 14.2
CHLORIDES (PPM) : 1000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 404 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 1816 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 13 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 XH

BLOW COMMENT #1 : FAIR BLOW DIMINISHING TO WEAK AT END OF TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 1 FT OF: FREE OIL
RECOVERED : 180 FT OF: THIN DRILLING / WITH SLIGHT SHOW OF OIL
(LESS THAN 1% OIL)
CHLORIDES: 1250 PPM

Total Barrels Fluid = 0.89
Total Fluid Prod Rate = 19.72 BFPD
Indicated Oil Rate = 0.11 BOPD
Indicated Wtr Rate = 4.90 BWPD

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

SET PACKER(S) : 2:45 PM TIME STARTED OFF BOTTOM : 5:30 PM
WELL TEMPERATURE : 92
INITIAL HYDROSTATIC PRESSURE (A) 1053
INITIAL FLOW PERIOD MIN: 35 (B) 8 PSI TO (C) : 88
INITIAL CLOSED IN PERIOD MIN: 45 (D) 666
FINAL FLOW PERIOD MIN: 30 (E) 116 PSI TO (F) : 116
FINAL CLOSED IN PERIOD MIN: 60 (G) 582
FINAL HYDROSTATIC PRESSURE (H) 1018

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : BRANDT PRODUCTION CO. INC.
RIG : BUTLER-KANSAS
FIELD : MELLIES
WELL : #6
DATE : 5-28-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

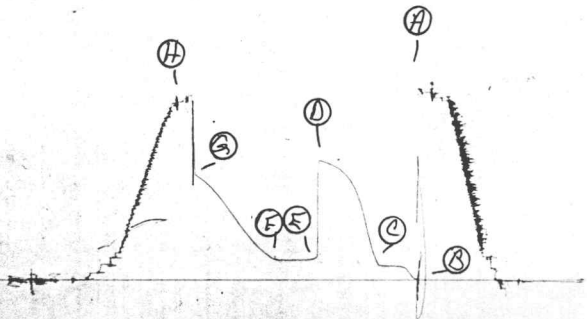
COMPANY : BRANDT PRODUCTION CO. INC.
 WELL : #6
 GAUGE # : 10979
 DATE : 28/ 5/87

FIELD : MELLIES
 JOB # : 13076
 DEPTH : 2248
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:45:0	0.000	8.000	92.00	0.000
2	2:49:59	0.083	12.000	92.00	4.000
3	2:55:0	0.167	24.000	92.00	12.000
4	3:0:0	0.250	73.000	92.00	49.000
5	3:4:59	0.333	84.000	92.00	11.000
6	3:10:0	0.417	86.000	92.00	2.000
7	3:15:0	0.500	87.000	92.00	1.000
8	3:19:59	0.583	88.000	92.00	1.000
9	3:22:59	0.633	130.000	92.00	42.000
10	3:25:59	0.683	200.000	92.00	70.000
11	3:28:59	0.733	286.000	92.00	86.000
12	3:31:59	0.783	377.000	92.00	91.000
13	3:34:59	0.833	450.000	92.00	73.000
14	3:37:59	0.883	506.000	92.00	56.000
15	3:40:59	0.933	550.000	92.00	44.000
16	3:43:59	0.983	578.000	92.00	28.000
17	3:46:59	1.033	602.000	92.00	24.000
18	3:49:59	1.083	619.000	92.00	17.000
19	3:52:59	1.133	633.000	92.00	14.000
20	3:55:59	1.183	642.000	92.00	9.000
21	3:58:59	1.233	651.000	92.00	9.000
22	4:1:59	1.283	658.000	92.00	7.000
23	4:4:59	1.333	666.000	92.00	8.000
24	4:6:0	1.350	116.000	92.00	-550.000
25	4:9:59	1.417	116.000	92.00	0.000
26	4:15:0	1.500	116.000	92.00	0.000
27	4:19:59	1.583	116.000	92.00	0.000
28	4:24:59	1.667	116.000	92.00	0.000
29	4:30:0	1.750	116.000	92.00	0.000
30	4:34:59	1.833	116.000	92.00	0.000
31	4:37:59	1.883	127.000	92.00	11.000
32	4:40:59	1.933	141.000	92.00	14.000
33	4:43:59	1.983	159.000	92.00	18.000
34	4:46:59	2.033	179.000	92.00	20.000
35	4:49:59	2.083	201.000	92.00	22.000
36	4:52:59	2.133	225.000	92.00	24.000
37	4:55:59	2.183	250.000	92.00	25.000
38	4:58:59	2.233	277.000	92.00	27.000
39	5:1:59	2.283	307.000	92.00	30.000
40	5:4:59	2.333	337.000	92.00	30.000
41	5:7:59	2.383	366.000	92.00	29.000
42	5:10:59	2.433	396.000	92.00	30.000
43	5:13:59	2.483	427.000	92.00	31.000
44	5:16:59	2.533	458.000	92.00	31.000
45	5:19:59	2.583	486.000	92.00	28.000
46	5:22:59	2.633	514.000	92.00	28.000
47	5:25:59	2.683	535.000	92.00	21.000
48	5:28:59	2.733	552.000	92.00	17.000
49	5:31:59	2.783	568.000	92.00	16.000
50	5:34:59	2.833	582.000	92.00	14.000

TKF 13076

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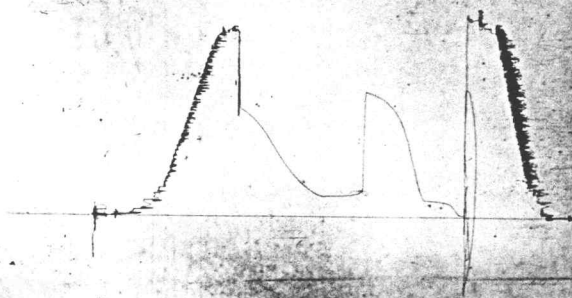
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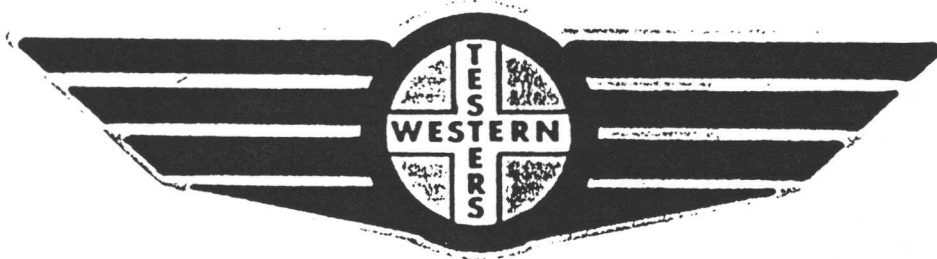
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 5-29-87 TICKET : 13077
CUSTOMER : BRANDT PRODUCTION CO. INC. LEASE : MELLIES
WELL : #6 TEST: 2 GEOLOGIST : E. BRANDT
ELEVATION : 1388 KB FORMATION : KANSAS CITY
SECTION : 15 TOWNSHIP : 29S
RANGE : 6E COUNTY : BUTLER STATE : KANSAS
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2273 TO : 2285 TOTAL DEPTH : 2285
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2273 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRLG. RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 35
WEIGHT : 8.8 WATER LOSS (CC) : 14.2
CHLORIDES (PPM) : 1000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2018 FT I.D. inch : 3.80
TEST TOOL LENGTH : 15 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 XH

BLOW COMMENT #1 : FAIR BLOW THROUGHOUT THE TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 45 FT OF: HEAVY OIL & GAS CUT MUD
50% OIL-25% GAS-25% MUD
RECOVERED : 60 FT OF: SLIGHTLY OIL & GAS CUT MUDDY SALT WATER
.24 RES. @ 65 DEG.F.
CHLORIDES: 60000 PPM

Total Barrels Fluid = 0.52
Total Fluid Prod Rate = 12.39 BFPD
Indicated Oil Rate = 2.77 BOPD
Indicated Wtr Rate = 5.31 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 315 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:15 AM TIME STARTED OFF BOTTOM : 5:30 AM
WELL TEMPERATURE : 95
INITIAL HYDROSTATIC PRESSURE (A) 1073
INITIAL FLOW PERIOD MIN: 30 (B) 31 PSI TO (C) : 37
INITIAL CLOSED IN PERIOD MIN: 30 (D) 665
FINAL FLOW PERIOD MIN: 30 (E) 51 PSI TO (F) : 54
FINAL CLOSED IN PERIOD MIN: 45 (G) 682
FINAL HYDROSTATIC PRESSURE (H) 1050

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : BRANDT PRODUCTION CO. INC.
RIG : BUTLER-KANSAS
FIELD : MELLIES
WELL : #6
DATE : 5-29-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

RECOVERED 315 FEET OF GAS ABOVE FLUID.

COMPANY : BRANDT PRODUCTION CO. INC.
 WELL : #6
 GAUGE # : 10979
 DATE : 29/ 5/87

FIELD : MELLIES
 JOB # : 13077
 DEPTH : 2285
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:15: 0	0.000	31.000	95.00	0.000
2	3:19:59	0.083	31.000	95.00	0.000
3	3:25: 0	0.167	31.000	95.00	0.000
4	3:30: 0	0.250	32.000	95.00	1.000
5	3:34:59	0.333	33.000	95.00	1.000
6	3:40: 0	0.417	35.000	95.00	2.000
7	3:45: 0	0.500	37.000	95.00	2.000
8	3:48: 0	0.550	67.000	95.00	30.000
9	3:51: 0	0.600	114.000	95.00	47.000
10	3:54: 0	0.650	190.000	95.00	76.000
11	3:57: 0	0.700	305.000	95.00	115.000
12	4: 0: 0	0.750	449.000	95.00	144.000
13	4: 3: 0	0.800	549.000	95.00	100.000
14	4: 6: 0	0.850	606.000	95.00	57.000
15	4: 9: 0	0.900	640.000	95.00	34.000
16	4:12: 0	0.950	663.000	95.00	23.000
17	4:15: 0	1.000	665.000	95.00	2.000
18	4:16: 0	1.017	51.000	95.00	-614.000
19	4:19:59	1.083	51.000	95.00	0.000
20	4:25: 0	1.167	51.000	95.00	0.000
21	4:30: 0	1.250	51.000	95.00	0.000
22	4:34:59	1.333	53.000	95.00	2.000
23	4:40: 0	1.417	54.000	95.00	1.000
24	4:45: 0	1.500	54.000	95.00	0.000
25	4:48: 0	1.550	68.000	95.00	14.000
26	4:51: 0	1.600	97.000	95.00	29.000
27	4:54: 0	1.650	139.000	95.00	42.000
28	4:57: 0	1.700	199.000	95.00	60.000
29	5: 0: 0	1.750	281.000	95.00	82.000
30	5: 3: 0	1.800	382.000	95.00	101.000
31	5: 6: 0	1.850	477.000	95.00	95.000
32	5: 9: 0	1.900	550.000	95.00	73.000
33	5:12: 0	1.950	594.000	95.00	44.000
34	5:15: 0	2.000	620.000	95.00	26.000
35	5:18: 0	2.050	640.000	95.00	20.000
36	5:21: 0	2.100	656.000	95.00	16.000
37	5:24: 0	2.150	668.000	95.00	12.000
38	5:27: 0	2.200	676.000	95.00	8.000
39	5:30: 0	2.250	682.000	95.00	6.000

WESTERN TESTING CO. INC.

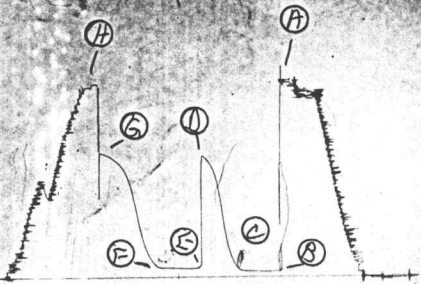
10979

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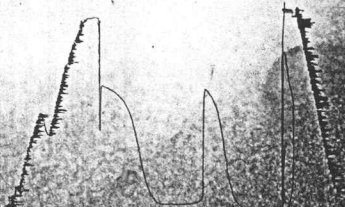
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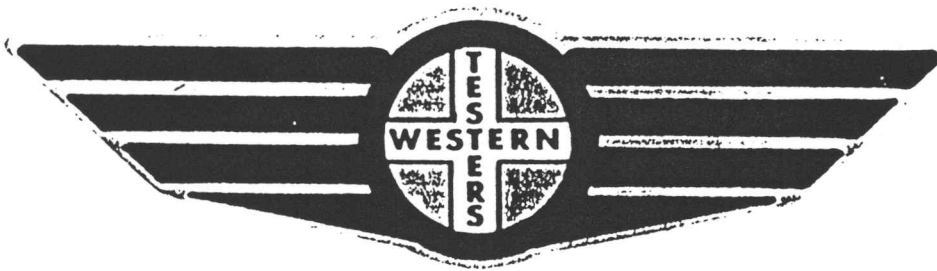


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 5-31-87 TICKET : 13078
CUSTOMER : BRANDT PRODUCTION CO. INC. LEASE : MELLIES
WELL : #6 TEST: 3 GEOLOGIST : E. BRANDT
ELEVATION : 1388 KB FORMATION : ARBUCKLE
SECTION : 15 TOWNSHIP : 29S
RANGE : 6E COUNTY : BUTLER STATE : KANSAS
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 3114 TO : 3123 TOTAL DEPTH : 3123
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3114 SIZE : 6.75
PACKER DEPTH : 3109 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRLG. RIG #3
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.2 WATER LOSS (CC) : 12.4
CHLORIDES (PPM) : 1400
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? :

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2794 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 9 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 XH

BLOW COMMENT #1 : FAIR BLOW THROUGHOUT THE TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : BRANDT PRODUCTION CO. INC.
RIG : BUTLER-KANSAS
FIELD : MELLIES
WELL : #6
DATE : 5-31-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

RECOVERED 180 FEET OF GAS ABOVE FLUID.

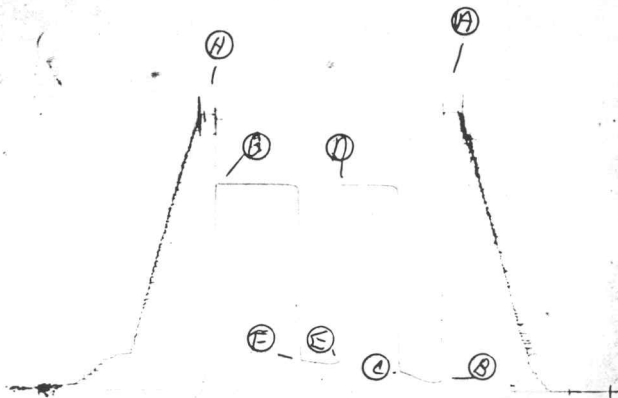
COMPANY : BRANDT PRODUCTION CO. INC.
 WELL : #6
 GAUGE # : 10979
 DATE : 31/ 5/87

FIELD : MELLIES
 JOB # : 13078
 DEPTH : 3123
 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	7: 0: 0	0.000	52.000	116.00	0.000
2	7: 4:59	0.083	52.000	116.00	0.000
3	7:10: 0	0.167	54.000	116.00	2.000
4	7:15: 0	0.250	66.000	116.00	12.000
5	7:19:59	0.333	82.000	116.00	16.000
6	7:25: 0	0.417	98.000	116.00	16.000
7	7:30: 0	0.500	111.000	116.00	13.000
8	7:33: 0	0.550	786.000	116.00	675.000
9	7:36: 0	0.600	1116.000	116.00	330.000
10	7:39: 0	0.650	1121.000	116.00	5.000
11	7:42: 0	0.700	1123.000	116.00	2.000
12	7:45: 0	0.750	1124.000	116.00	1.000
13	7:48: 0	0.800	1125.000	116.00	1.000
14	7:51: 0	0.850	1125.000	116.00	0.000
15	7:54: 0	0.900	1125.000	116.00	0.000
16	7:57: 0	0.950	1125.000	116.00	0.000
17	8: 0: 0	1.000	1125.000	116.00	0.000
18	8: 2:59	1.050	1125.000	116.00	0.000
19	8: 6: 0	1.100	1125.000	116.00	0.000
20	8: 9: 0	1.150	1125.000	116.00	0.000
21	8:12: 0	1.200	1125.000	116.00	0.000
22	8:15: 0	1.250	1125.000	116.00	0.000
23	8:16: 0	1.267	154.000	116.00	-971.000
24	8:19:59	1.333	154.000	116.00	0.000
25	8:25: 0	1.417	154.000	116.00	0.000
26	8:30: 0	1.500	158.000	116.00	4.000
27	8:34:59	1.583	162.000	116.00	4.000
28	8:40: 0	1.667	167.000	116.00	5.000
29	8:45: 0	1.750	171.000	116.00	4.000
30	8:48: 0	1.800	784.000	116.00	613.000
31	8:51: 0	1.850	1117.000	116.00	333.000
32	8:54: 0	1.900	1122.000	116.00	5.000
33	8:57: 0	1.950	1124.000	116.00	2.000
34	9: 0: 0	2.000	1125.000	116.00	1.000
35	9: 3: 0	2.050	1126.000	116.00	1.000
36	9: 5:59	2.100	1127.000	116.00	1.000
37	9: 9: 0	2.150	1127.000	116.00	0.000
38	9:12: 0	2.200	1127.000	116.00	0.000
39	9:15: 0	2.250	1127.000	116.00	0.000
40	9:18: 0	2.300	1127.000	116.00	0.000
41	9:21: 0	2.350	1127.000	116.00	0.000
42	9:24: 0	2.400	1127.000	116.00	0.000
43	9:27: 0	2.450	1127.000	116.00	0.000
44	9:30: 0	2.500	1127.000	116.00	0.000
45	9:33: 0	2.550	1127.000	116.00	0.000
46	9:36: 0	2.600	1127.000	116.00	0.000
47	9:39: 0	2.650	1127.000	116.00	0.000
48	9:42: 0	2.700	1127.000	116.00	0.000
49	9:45: 0	2.750	1127.000	116.00	0.000
50	9:48: 0	2.800	1127.000	116.00	0.000
51	9:51: 0	2.850	1127.000	116.00	0.000

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