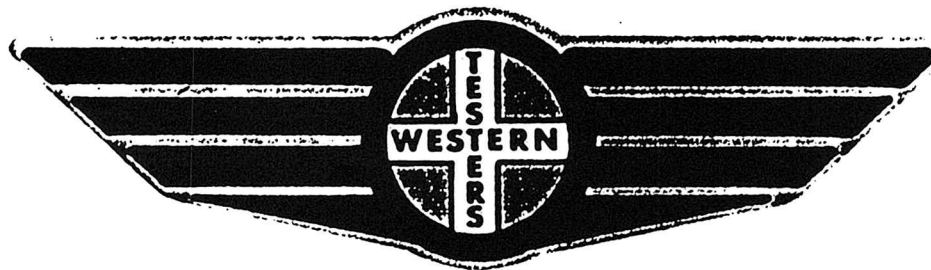


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AMES OIL COMPANY

LEASE & WELL NO.

ASHLAND #1

SEC. 35 TWP. 32S RGE. 23W TEST NO. 1 DATE 2/9/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	2-9-88	TICKET	:	12854	
CUSTOMER	:	AMES OIL COMPANY	LEASE	:	ASHLAND	
WELL	:	#1	TEST:	:	1	
ELEVATION	:	-	GEOLOGIST	:	S. ALBERG	
SECTION	:	35	FORMATION	:	LANSING	
RANGE	:	23W	TOWNSHIP	:	32S	
Gauge SN#	:	13552	STATE	:	KANSAS	
		COUNTY :	CLARK			
		RANGE :	4050	CLOCK	:	12

INTERVAL FROM	:	4462	TO	:	4477	TOTAL DEPTH	:	4477
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4457	SIZE	:	6.63			
PACKER DEPTH	:	4462	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	EAGLE RIG 1			
MUD TYPE	:	DRISPAC	VISCOSITY	:	48
WEIGHT	:	9.1	WATER LOSS (CC)	:	11.0
CHLORIDES (PPM)	:	8000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	420
DID WELL FLOW ?	:	YES	REVERSED OUT ?	:	YES

DRILL COLLAR LENGTH	:	500	FT	I.D. inch	:	2.25
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3933	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	29	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	15	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 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 : GAS TO SURFACE IN 10 MINUTES.
BLOW COMMENT #3 : SEE ATTACHED FLOW CHART.
BLOW COMMENT #4 :

RECOVERED : 3120 FT OF: CLEAN GASSY OIL 39 GRAVITY
RECOVERED : 120 FT OF: SALT WATER

CHLORIDES: 50000 PPM

Total Barrels Fluid = 40.89
Total Fluid Prod Rate = 1177.66 BFPD
Indicated Oil Rate = 1134.04 BOPD
Indicated Wtr Rate = 43.62 BWPD
Corrected Oil Rate = 406.61 BOPD
Corrected Wtr Rate = 15.64 BWPD

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

SET PACKER(S) : 9:45 AM TIME STARTED OFF BOTTOM : 1:10 PM
WELL TEMPERATURE : 123
INITIAL HYDROSTATIC PRESSURE (A) 2219
INITIAL FLOW PERIOD MIN: 20 (B) 156 PSI TO (C) : 254
INITIAL CLOSED IN PERIOD MIN: 51 (D) 1610
FINAL FLOW PERIOD MIN: 30 (E) 390 PSI TO (F) : 558
FINAL CLOSED IN PERIOD MIN: 93 (G) 1612
FINAL HYDROSTATIC PRESSURE (H) 2165

GAS FLOW REPORT

Date : 2-9-88 Ticket # : 12854
 Customer : AMES OIL COMPANY Lease : ASHLAND
 Well : #1 Test : 1 Geologist : S. ALBERG
 Elevation (KB) : - Formation : LANSING
 Section : 35 Township : 32S
 Range : 23W County : CLARK State : KANSAS
 Gauge SN # : 13552 Range : 4050 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

15	MERLA	1"	13 "	OF WTR93600 CFPD
20			4	51600 CFPD

SECOND FLOW

5	MERLA	1/2"	5" OF WTR	14100 CFPD
10			15	24500 CFPD
20			20	28000 CFPD
30			9	18800 CFPD
35			9	18800 CFPD

Gas Bottle SN # : 36P
 Date Bottle Filled : 2-9-88
 Date to be Invoiced :

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AMES OIL COMPANY
RIG : CLARK-KANSAS
FIELD : ASHLAND
WELL : #1
DATE : 2-9-88
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 13552
DATE : 9/ 2/88

FIELD : ASHLAND
JOB # : 12854
DEPTH : 4477
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	9:45: 0	0.000	156.000	123.00	0.000
2	9:49:59	0.083	167.000	123.00	11.000
3	9:55: 0	0.167	191.000	123.00	24.000
4	10: 0: 0	0.250	230.000	123.00	39.000
5	10: 4:59	0.333	254.000	123.00	24.000
6	10: 7:59	0.383	731.000	123.00	477.000
7	10:10:59	0.433	1287.000	123.00	556.000
8	10:13:59	0.483	1440.000	123.00	153.000
9	10:16:59	0.533	1520.000	123.00	80.000
10	10:19:59	0.583	1551.000	123.00	31.000
11	10:22:59	0.633	1575.000	123.00	24.000
12	10:25:59	0.683	1582.000	123.00	7.000
13	10:28:59	0.733	1590.000	123.00	8.000
14	10:31:59	0.783	1596.000	123.00	6.000
15	10:34:59	0.833	1600.000	123.00	4.000
16	10:37:59	0.883	1602.000	123.00	2.000
17	10:40:59	0.933	1604.000	123.00	2.000
18	10:43:59	0.983	1608.000	123.00	4.000
19	10:46:59	1.033	1609.000	123.00	1.000
20	10:49:59	1.083	1610.000	123.00	1.000
21	10:52:59	1.133	1610.000	123.00	0.000
22	10:55:59	1.183	1610.000	123.00	0.000
23	10:57: 0	1.200	390.000	123.00	-1220.000
24	11: 0:59	1.267	390.000	123.00	0.000
25	11: 6: 0	1.350	411.000	123.00	21.000
26	11:10:59	1.433	444.000	123.00	33.000
27	11:15:59	1.517	486.000	123.00	42.000
28	11:21: 0	1.600	523.000	123.00	37.000
29	11:25:59	1.683	558.000	123.00	35.000
30	11:28:59	1.733	890.000	123.00	332.000
31	11:31:59	1.783	1317.000	123.00	427.000
32	11:34:59	1.833	1443.000	123.00	126.000
33	11:37:59	1.883	1514.000	123.00	71.000
34	11:40:59	1.933	1547.000	123.00	33.000
35	11:43:59	1.983	1568.000	123.00	21.000
36	11:46:59	2.033	1580.000	123.00	12.000
37	11:49:59	2.083	1589.000	123.00	9.000
38	11:52:59	2.133	1595.000	123.00	6.000
39	11:55:59	2.183	1597.000	123.00	2.000
40	11:58:59	2.233	1600.000	123.00	3.000
41	12: 1:59	2.283	1603.000	123.00	3.000
42	12: 4:59	2.333	1605.000	123.00	2.000
43	12: 7:59	2.383	1607.000	123.00	2.000
44	12:10:59	2.433	1609.000	123.00	2.000
45	12:13:59	2.483	1609.000	123.00	0.000
46	12:16:59	2.533	1609.000	123.00	0.000
47	12:19:59	2.583	1610.000	123.00	1.000
48	12:22:59	2.633	1610.000	123.00	0.000
49	12:25:59	2.683	1610.000	123.00	0.000
50	12:28:59	2.733	1611.000	123.00	1.000
51	12:31:59	2.783	1611.000	123.00	0.000
52	12:34:59	2.833	1612.000	123.00	1.000

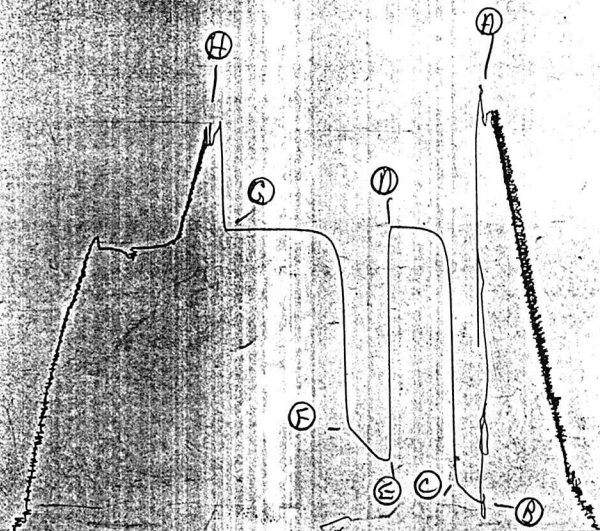
COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 13552
DATE : 9/ 2/88

FIELD : ASHLAND
JOB # : 12854
DEPTH : 4477
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	12:37:59	2.883	1612.000	123.00	0.000
54	12:40:59	2.933	1612.000	123.00	0.000
55	12:43:59	2.983	1612.000	123.00	0.000
56	12:46:59	3.033	1612.000	123.00	0.000
57	12:49:59	3.083	1612.000	123.00	0.000
58	12:52:59	3.133	1612.000	123.00	0.000
59	12:55:59	3.183	1612.000	123.00	0.000
60	12:58:59	3.233	1612.000	123.00	0.000

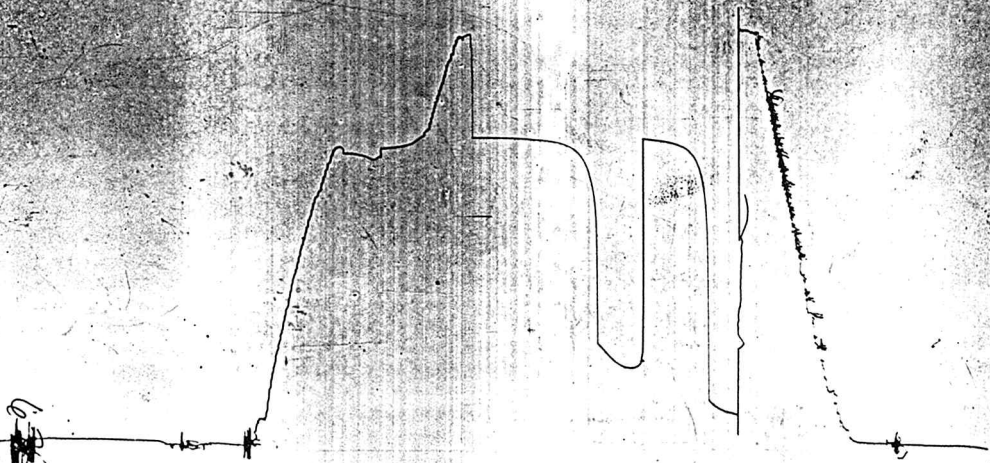
WESTERN TESTING CO. INC.

TKA 12854

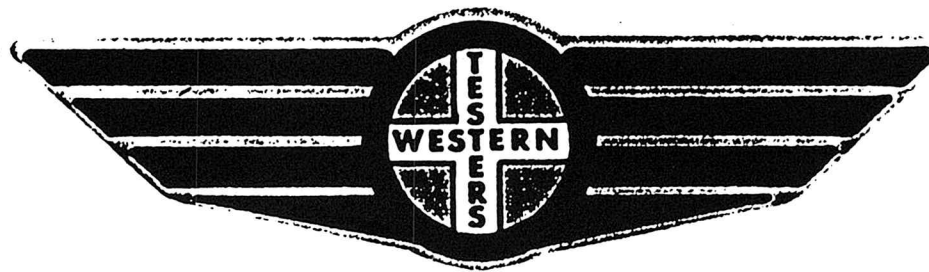


5
24

HK 12854



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AMES OIL COMPANY

LEASE & WELL NO. ASHLAND #1

SEC. 35

TWP. 32S

RGE. 23W

TEST NO.

2 DATE

2/10/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	2-10-88	TICKET	:	12855
CUSTOMER	:	AMES OIL COMPANY	LEASE	:	ASHLAND
WELL	:	#1	TEST:	:	2
ELEVATION	:	2040 KB	GEOLOGIST	:	S. ALBERG
SECTION	:	35	FORMATION	:	LANSING
RANGE	:	23W	TOWNSHIP	:	32S
	:	COUNTY :	STATE	:	KANSAS
GAUGE SN#	:	13552	RANGE :	:	4050
	:		CLOCK	:	12

INTERVAL FROM	:	4663	TO	:	4690	TOTAL DEPTH	:	4690
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4658	SIZE	:	6.63			
PACKER DEPTH	:	4663	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	EAGLE RIG 1			
MUD TYPE	:	DRISPAC	VISCOSITY	:	48
WEIGHT	:	9.1	WATER LOSS (CC)	:	11.0
CHLORIDES (PPM)	:	10000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	420
DID WELL FLOW ?	:	YES	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	:	4134	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	29	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	27	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 : STRONG BLOW THROUGHOUT FLOW PERIODS.
BLOW COMMENT #2 : GAS TO SURFACE IN 26 MINUTES ON THE INITIAL FLOW.
BLOW COMMENT #3 : SEE ATTACHED FLOW CHART.
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: GAS CUT MUD

Total Barrels Fluid = 0.59
Total Fluid Prod Rate = 15.45 BFPD
Indicated Wtr Rate = 1.54 BWPD

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

SET PACKER(S) : 10:05 AM

TIME STARTED OFF BOTTOM : 1:35 PM

WELL TEMPERATURE : 124

INITIAL HYDROSTATIC PRESSURE

(A) 2327

INITIAL FLOW PERIOD MIN: 30

(B) 58 PSI TO (C) : 58

INITIAL CLOSED IN PERIOD MIN: 57

(D) 918

FINAL FLOW PERIOD MIN: 25

(E) 73 PSI TO (F) : 73

FINAL CLOSED IN PERIOD MIN: 90

(G) 891

FINAL HYDROSTATIC PRESSURE

(H) 2273

GAS FLOW REPORT

Date : 2-10-88
Customer : AMES OIL COMPANY

Ticket # : 12855
Lease : ASHLAND

Well : #1 Test : 2

Geologist : S. ALBERG

Elevation (KB) : 2040 Formation : LANSING

Section : 35 Township : 32S

Range : 23W County : CLARK State : KANSAS

Gauge SN # : 13552 Range : 4050 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

30	MERLA	1/4"	4 "	OF WTR 3370 CFPD
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SECOND FLOW

5	MERLA	1/4"	30 "	OF WTR 9200 CFPD
10			26	8560 CFPD
20			19	7320 CFPD
30			19	7320 CFPD

Gas Bottle SN # : 37P
Date Bottle Filled : 2-10-88
Date to be Invoiced :

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AMES OIL COMPANY
RIG : CLARK-KANSAS
FIELD : ASHLAND
WELL : #1
DATE : 2-10-88
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 13552
DATE : 10/ 2/88

FIELD : ASHLAND
JOB # : 12855
DEPTH : 4690
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10: 5: 0	0.000	58.000	124.00	0.000
2	10: 9:59	0.083	58.000	124.00	0.000
3	10:15: 0	0.167	58.000	124.00	0.000
4	10:20: 0	0.250	58.000	124.00	0.000
5	10:24:59	0.333	58.000	124.00	0.000
6	10:30: 0	0.417	58.000	124.00	0.000
7	10:35: 0	0.500	58.000	124.00	0.000
8	10:38: 0	0.550	143.000	124.00	85.000
9	10:41: 0	0.600	401.000	124.00	258.000
10	10:44: 0	0.650	567.000	124.00	166.000
11	10:47: 0	0.700	672.000	124.00	105.000
12	10:50: 0	0.750	734.000	124.00	62.000
13	10:53: 0	0.800	777.000	124.00	43.000
14	10:56: 0	0.850	807.000	124.00	30.000
15	10:59: 0	0.900	828.000	124.00	21.000
16	11: 2: 0	0.950	846.000	124.00	18.000
17	11: 5: 0	1.000	856.000	124.00	10.000
18	11: 8: 0	1.050	869.000	124.00	13.000
19	11:11: 0	1.100	880.000	124.00	11.000
20	11:14: 0	1.150	887.000	124.00	7.000
21	11:17: 0	1.200	894.000	124.00	7.000
22	11:20: 0	1.250	900.000	124.00	6.000
23	11:23: 0	1.300	905.000	124.00	5.000
24	11:26: 0	1.350	910.000	124.00	5.000
25	11:29: 0	1.400	915.000	124.00	5.000
26	11:32: 0	1.450	918.000	124.00	3.000
27	11:33: 0	1.467	73.000	124.00	-845.000
28	11:36:59	1.533	73.000	124.00	0.000
29	11:42: 0	1.617	73.000	124.00	0.000
30	11:47: 0	1.700	73.000	124.00	0.000
31	11:51:59	1.783	73.000	124.00	0.000
32	11:57: 0	1.867	73.000	124.00	0.000
33	12: 0: 0	1.917	114.000	124.00	41.000
34	12: 3: 0	1.967	254.000	124.00	140.000
35	12: 6: 0	2.017	416.000	124.00	162.000
36	12: 9: 0	2.067	529.000	124.00	113.000
37	12:12: 0	2.117	598.000	124.00	69.000
38	12:15: 0	2.167	658.000	124.00	60.000
39	12:18: 0	2.217	698.000	124.00	40.000
40	12:21: 0	2.267	728.000	124.00	30.000
41	12:24: 0	2.317	750.000	124.00	22.000
42	12:27: 0	2.367	770.000	124.00	20.000
43	12:30: 0	2.417	784.000	124.00	14.000
44	12:33: 0	2.467	801.000	124.00	17.000
45	12:36: 0	2.517	812.000	124.00	11.000
46	12:39: 0	2.567	823.000	124.00	11.000
47	12:42: 0	2.617	830.000	124.00	7.000
48	12:45: 0	2.667	837.000	124.00	7.000
49	12:48: 0	2.717	845.000	124.00	8.000
50	12:51: 0	2.767	850.000	124.00	5.000
51	12:54: 0	2.817	855.000	124.00	5.000
52	12:57: 0	2.867	860.000	124.00	5.000

COMPANY : AMES OIL COMPANY
WELL : #1
GAUGE # : 13552
DATE : 10/ 2/88

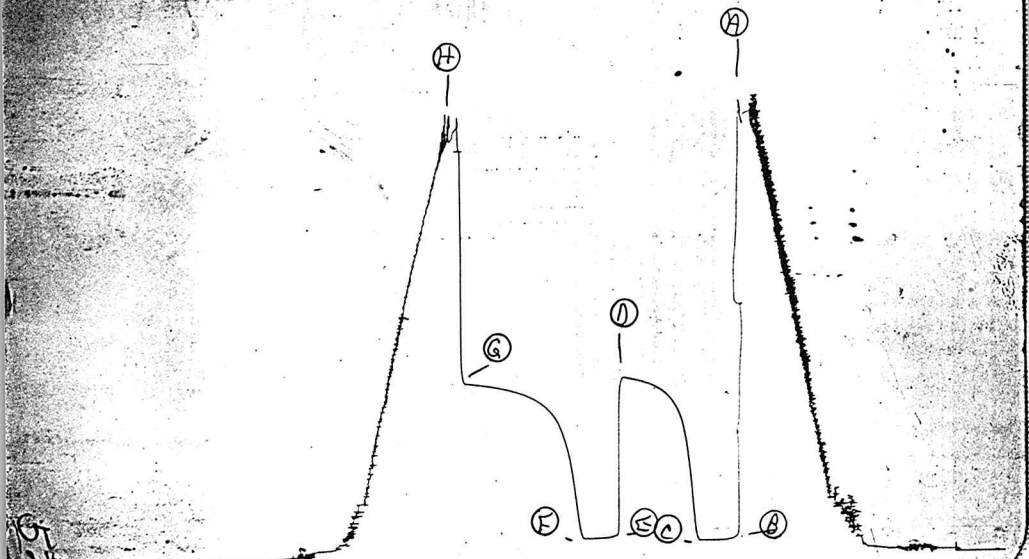
FIELD : ASHLAND
JOB # : 12855
DEPTH : 4690
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	13: 0: 0	2.917	864.000	124.00	4.000
54	13: 3: 0	2.967	868.000	124.00	4.000
55	13: 6: 0	3.017	872.000	124.00	4.000
56	13: 9: 0	3.067	876.000	124.00	4.000
57	13:12: 0	3.117	880.000	124.00	4.000
58	13:15: 0	3.167	883.000	124.00	3.000
59	13:18: 0	3.217	885.000	124.00	2.000
60	13:21: 0	3.267	887.000	124.00	2.000
61	13:24: 0	3.317	889.000	124.00	2.000
62	13:27: 0	3.367	891.000	124.00	2.000

WESTERN TESTING CO. INC.

TK4 12855

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TH4 12855.

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