MEIS	1	1	3449 3482'	KANSAS PETROLEUM INCORPORATED
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name

138271	PRATT	12-1-81	1717 6144 HT 500
Ticket Number	Camp	Date	Gauge Number(s)

5

30-23s-12w

15-185-21479

HALLIBURTON SERVICES

TICKET NO. 138271 DATE 12-1-81 HALLIBURTON CAMP PRATT

LEASE OWNER KANSAS PETROLEUM INCORPORATED /sm

LEASE NAME MEIS WELL NO. 1 TEST NO. 1

LEGAL LOCATION 30 23S 12W FORMATION TESTED LANSING B & D

FIELD AREA COUNTY STAFFORD STATE KANSAS

TYPE OF D.S.T. OPEN HOLE

TESTER(S) ROBERT E. MARTIN

WITNESS ROGER MARTIN (GEOLOGIST) DRILLING CONTRACTOR D.R. LAUCK

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE MERLA

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

30 FEET OF GAS CUT MUD

61 FEET OF SLIGHTLY OIL ANG GAS CUT MUD

71 FEET OF MODERATELY OIL AND GAS CUT MUD

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	@ °F	40,000		@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS:

TICKET NO. 138271 DATE 12-1-81 ELEVATION (FT.)

TOP OF TESTED INTERVAL (ft.) 3449' BOTTOM OF TESTED INTERVAL (ft.) 3482'

NET PAY (ft.) 10' TOTAL DEPTH (ft.) 3482'

HOLE OR CASING SIZE (in.) 7.875" MUD WEIGHT (lb./gal.) 9.5 VISCOSITY (sec.) 30

SURFACE CHOKE (in.) .25" BOTTOM CHOKE (in.) .75"

OIL GRAVITY @ °F GAS GRAVITY—ESTIMATED ACTUAL

SAMPLER DATA

PRESSURE (P.S.I.) CUBIC FT. OF GAS

C.C.'s OF OIL C.C.'s OF WATER

C.C.'s OF MUD TOTAL LIQUID C.C.'s

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

TEMPERATURE (°F)

ESTIMATE 104

ACTUAL 95

DEPTH (ft.) 3477'

H.T.-500 ☒; THERMOMETER ☐;
T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO. 365

RECORDER AND PRESSURE DATA

CHARTS READ BY ROBERT E. MARTIN DATA APPROVED BY

						TIMES (00:00-24:00 HRS.)	
RECORDERS	GAUGE NUMBER	1717	6144			TOOL OPENED 0858	
	GAUGE TYPE	1	2			DATE 12-1-81	
	GAUGE DEPTH (ft.)	3438	3479			BYPASS OPENED 1130	
	CLOCK NUMBER	17481	2476			DATE 12-1-81	
	CLOCK RANGE (HR.)	12	12				
PRESSURES	INITIAL HYDROSTATIC	1748.2	1734.5			PERIOD	MINUTES
	INITIAL FLOW	180.3	157.9			XXX	XXX
	1st. FINAL FLOW	156.8	157.9			1st. FLOW	20.3
	CLOSED-IN	1325.2	1314.9			1st. C.I.P.	29.9
	INITIAL FLOW	153.6	151.4			XXX	XXX
	2nd. FINAL FLOW	148.6	149.8			2nd. FLOW	40.6
	CLOSED-IN	1315.9	1312.0			2nd. C.I.P.	61.2
	INITIAL FLOW	ALL READINGS ON B.T. # 1717 ARE QUESTIONABLE				XXX	XXX
	3rd. FINAL FLOW	DUE TO FAINTNESS OF CHART.....				3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	1719.1	1715.5			XXX	XXX

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 138271

Gas gravity _____ Oil gravity _____ GOR _____

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0145 12-1-81					Called out
0330					On location, rig circulating
0630					Started clocks
0645					Picked up tool
0720					Tool at table
0735					Tool thru table
0855					Tool on bottom
0858					Tool opened with fair to strong blow
0901	1"				Gas to the surface
0905	1"	21	749		
0910	1"	23	796		
0915	1"	23	796		
0919					Closed tool
0949					Opened tool with strong blow, gas to
0950	1"	17	650		the surface immediately
0955	"	22	773		
1000	"	23	796		
1005	"	23	796		
1010	"	23	796		
1015	"	23	796		
1020	"	23	796		
1025	"	23	796		
1029					Closed tool
1130					Tool off bottom (bypass open)
1259					Tool at table
1350					Tool laid down

FORM 182-R1—PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S

KANSAS PETROLEUM, INCORPORATED — 138271

Lease Owner/Company Name — Ticket Number

B.T. 1717 B.T. 6144 B.T. _____

Depth 3438' Depth 3479' Depth _____

INITIAL FLOW

Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.
0		180.3	0		157.9			
4		157.6	4		156.4			
8		151.6	8		158.2			
12		160.0	12		162.0			
16		160.0	16		159.0			
20.3		156.8	20.3		157.9			
INITIAL CLOSED IN PRESSURE								
0		156.8	0		157.9			
2		1271.1	2		1275.4			
4		1291.0	4		1295.1			
6		1305.4	6		1304.9			
8		1311.8	8		1309.9			
10		1314.5	10		1311.3			
12		1315.4	12		1312.6			
14		1317.0	14		1312.7			
16		1317.0	16		1313.5			
18		1317.0	18		1313.6			
20		1317.8	20		1313.5			
22		1318.7	22		1313.6			
24		1318.8	24		1314.7			
26		1318.8	26		1314.7			
28		1320.4	28		1314.7			
29.9		1325.2	29.9		1314.9			
SECOND FLOW								
0		153.6	0		151.4			
8		140.3	8		141.5			
16		139.4	16		141.5			
24		141.9	24		143.4			
32		145.9	32		149.1			
40.6		148.6	40.6		149.8			

Remarks: _____

KANSAS PETROLEUM, INCORPORATED

Lease Owner/Company Name

138271

Ticket Number

B.T. 1717	B.T. 6144	B.T.
Depth 3438'	Depth 3479'	Depth

SECOND CLOSED IN PRESSURE

Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\Theta}{\Theta}$	PSIG Temp. Corr.
0		148.6	0		149.8			
4		1282.9	4		1287.3			
8		1303.8	8		1304.2			
12		1310.0	12		1307.5			
16		1312.2	16		1309.0			
20		1312.5	20		1309.0			
24		1313.7	24		1310.7			
28		1314.7	28		1310.7			
32		1315.1	32		1311.3			
36		1315.1	36		1311.3			
40		1315.1	40		1312.0			
44		1315.1	44		1312.0			
48		1315.3	48		1312.0			
52		1316.1	52		1312.0			
56		1316.1	56		1312.0			
61.2		1315.9	61.2		1312.0			

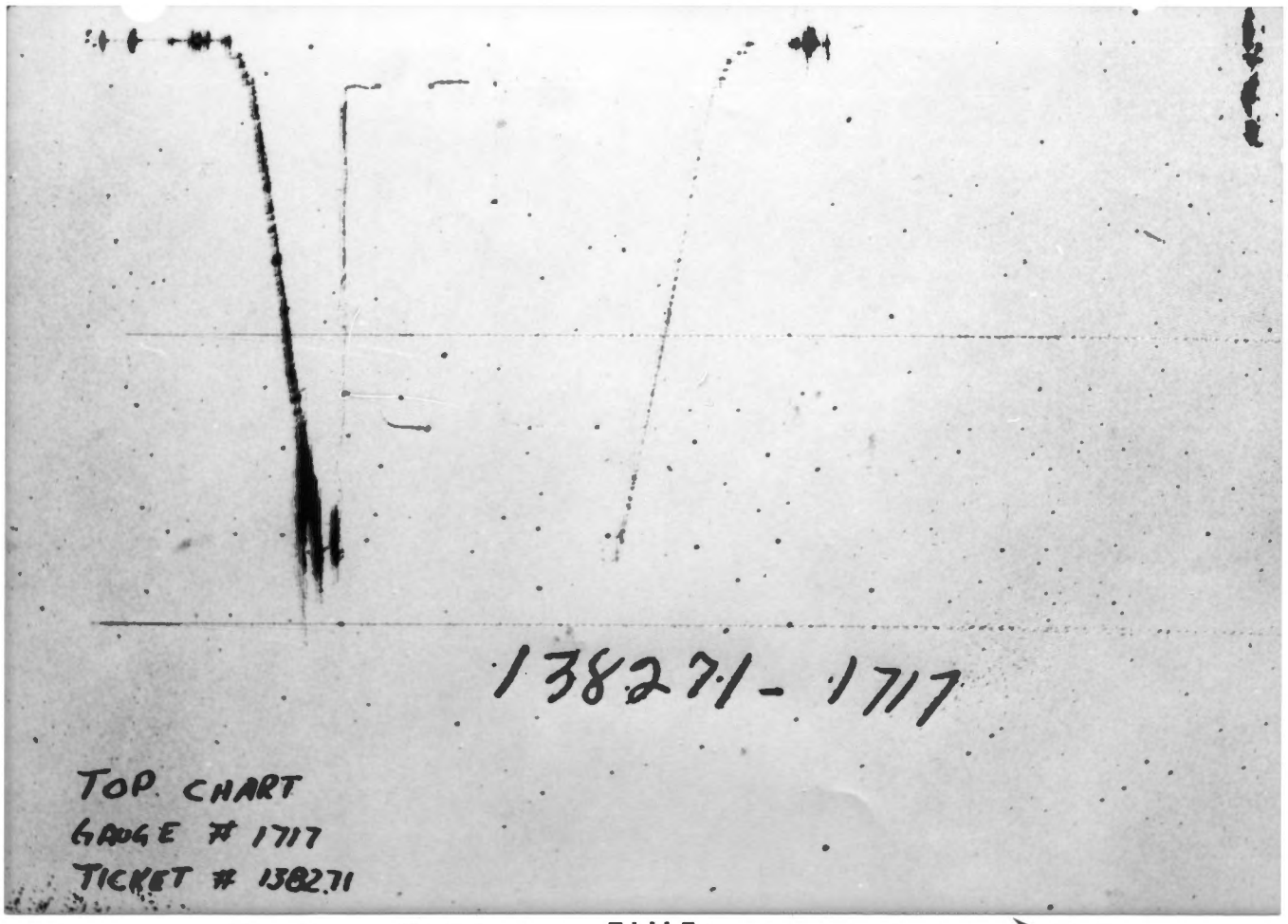
Remarks: _____

80-2860

5

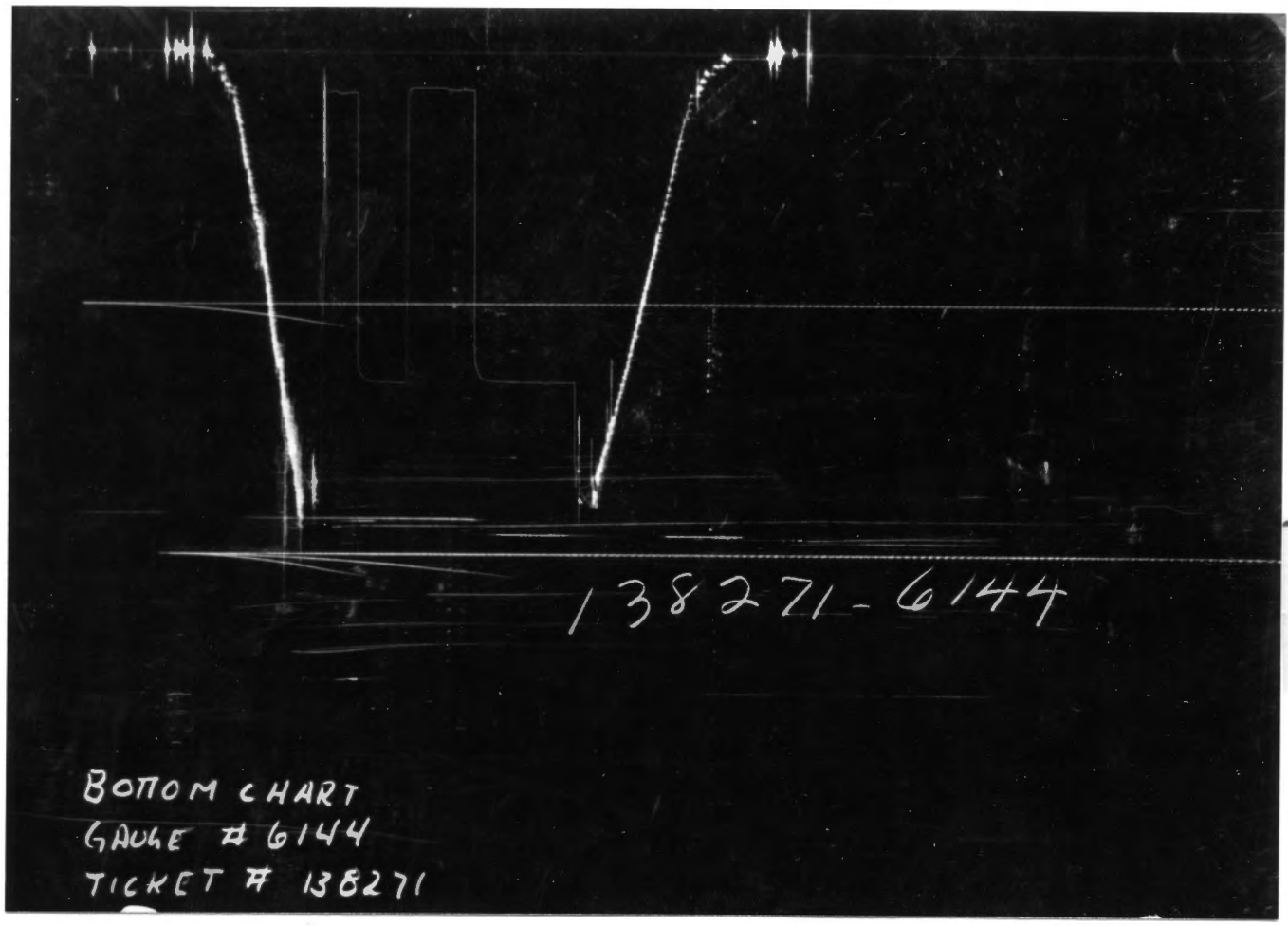
TICKET NO. 138271

Tool Description	O.D.	I.D.	Length	Depth
Drill pipe	4.50"	3.826"	3054'	
Drill collars	6.25"	2.25"	248'	
Reversing sub	5.625"	2"	1'	3302'
Drill collars	6.25"	2.25"	121'	
Double pin (C O Sub)	6.25"	2.25"	1'	3424'
Dual CIP Valve	5"	.870"	5'	
Hydrospring tester	5"	.750"	5'	3430'
AP Running case	5"	3.06"	4'	3438'
NR Packer	6.75"	1.53"	6'	3443'
NR Packer	6.75"	1.53"	6'	3449'
Flush joint anchor	5"	2.37"	26'	
HT 500	5"	2.25"	1'	3477'
BT Running case	5"	3.06"	4'	3479'
Total depth				3482'

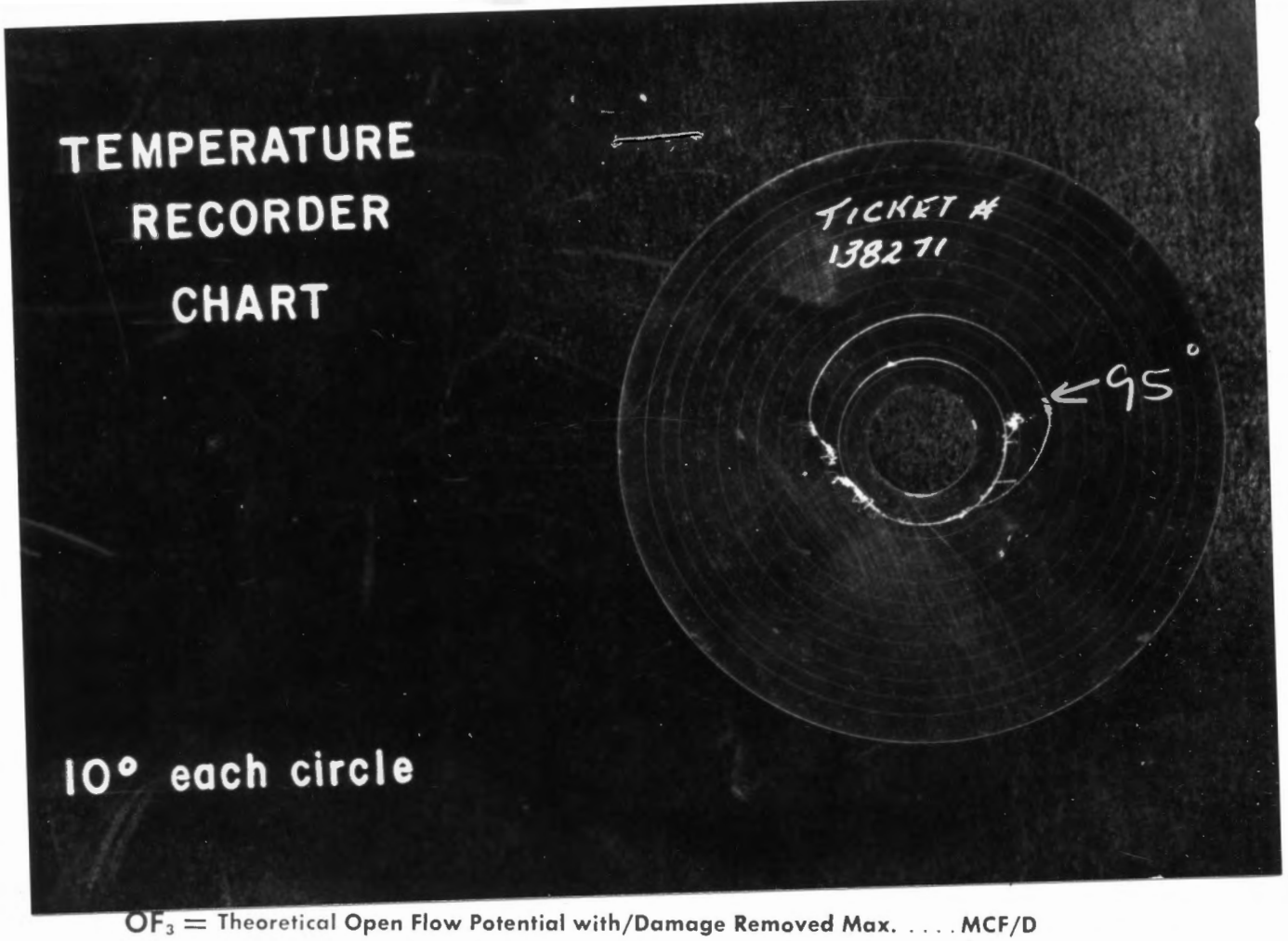


PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.



OF_3 = Theoretical Open Flow Potential with/Damage Removed Max. . . . . MCF/D

OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. . . . . MCF/D

P_s = Extrapolated Static Pressure . . . . . Psig.

P_F = Final Flow Pressure . . . . . Psig.

P_{ot} = Potentiometric Surface (Fresh Water*) . . . . . Feet

Q = Average Adjusted Production Rate During Test . . . . . bbls/day

Q_1 = Theoretical Production w/Damage Removed . . . . . bbls/day

Q_g = Measured Gas Production Rate . . . . . MCF/D

R = Corrected Recovery . . . . . bbls

r_w = Radius of Well Bore . . . . . Feet

t = Flow Time . . . . . Minutes

t_o = Total Flow Time . . . . . Minutes

T = Temperature Rankine . . . . . °R

Z = Compressibility Factor . . . . . ——

μ = Viscosity Gas or Liquid . . . . . CP

Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

MEIS	1	2	3609' - 3645'	KANSAS PETROLEUM, INCORPORATED
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name

138272	PRATT	12-2-81	1717	6144	TEMP.
Ticket Number	Camp	Date	Gauge Number(s)		

TICKET NO. 138272 DATE 12-2-81 HALLIBURTON CAMP PRATT

LEASE OWNER KANSAS PETROLEUM, INCORPORATED NM/ bc

LEASE NAME MEIS WELL NO. 1 TEST NO. 2

LEGAL LOCATION 30 - 23S - 12W FORMATION TESTED LANSING-KANSAS CITY (K zone)

FIELD AREA COUNTY STAFFORD STATE KANSAS

TYPE OF D.S.T. OPEN HOLE

TESTER(S) MR. ROBERT E. MARTIN

WITNESS MR.ROGER MARTIN DRILLING CONTRACTOR D. R. LAUCK

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE MERLA 1" CHOKE-PITOT TUBE 2"

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

72' of FREE OIL

GRAVITY 34 TEMPERATURE 58°

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	@ °F	40,000		@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS:

TICKET NO. 138272 DATE 12-2-81 ELEVATION (FT.) 1880' KB

TOP OF TESTED INTERVAL (ft.) 3609' BOTTOM OF TESTED INTERVAL (ft.) 3645'

NET PAY (ft.) 8' TOTAL DEPTH (ft.) 3645'

HOLE OR CASING SIZE (in.) 7 7/8" MUD WEIGHT (lb./gal.) 9.5 VISCOSITY (sec.) 41

SURFACE CHOKE (in.) .25" BOTTOM CHOKE (in.) .75"

OIL GRAVITY 34.2 @ 60 °F GAS GRAVITY—ESTIMATED ACTUAL

SAMPLER DATA

PRESSURE (P.S.I.) CUBIC FT. OF GAS

C.C.'s OF OIL C.C.'s OF WATER

C.C.'s OF MUD TOTAL LIQUID C.C.'s

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

TEMPERATURE (°F)

ESTIMATE 106

ACTUAL 97

DEPTH (ft.) 3640'

H.T.-500* ☒ THERMOMETER ☐; T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO. 435

RECORDER AND PRESSURE DATA

CHARTS READ BY MR. ROBERT E. MARTIN DATA APPROVED BY

RECORDERS	GAUGE NUMBER	1717	6144			
	GAUGE TYPE	1	2			
	GAUGE DEPTH (ft.)	3598	3642			
	CLOCK NUMBER	17481	2476			
	CLOCK RANGE (HR.)	12	12			
PRESSURES	INITIAL HYDROSTATIC	1775.3	1830.9			
	1st. INITIAL FLOW	884.9	908.5			
	1st. FINAL FLOW	675.4	682.7			
	1st. CLOSED-IN	1324.1	1326.8			
	2nd. INITIAL FLOW	928.9	957.1			
	2nd. FINAL FLOW	670.6	676.8			
	2nd. CLOSED-IN	1328.0	1330.6			
	3rd. INITIAL FLOW					
	3rd. FINAL FLOW					
	3rd. CLOSED-IN					
	FINAL HYDROSTATIC	1776.4	1783.4			

TIMES (00:00-24:00 HRS.)

TOOL OPENED 1013

DATE 12-2

BYPASS OPENED 1300

DATE 12-2

PERIOD	MINUTES
XXX	XXX
1st. FLOW	27.9
1st. C.I.P.	32.5
XXX	XXX
2nd. FLOW	44.2
2nd. C.I.P.	60.5
XXX	XXX
3rd. FLOW	
3rd. C.I.P.	
XXX	XXX

Casing perfs. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 138272

Gas gravity _____ Oil gravity _____ GOR _____ Page 1

Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date 12-2-81 Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0600					Called out
0705					On location, rig came out of hole
0804					Started clocks
0815					Picked up tool
0835					Tool at table
0845					Tool through table
1010					Tool on bottom
1013					Opened tool with an immediate strong blow
1014					Gas to surface
1015	2" PITOT	24	3690		
1020	"	20	3310		
1025	"	17	2930		
1030	"	14	2740		
1035	"	14	2740		
1040	"	14	2740		
1043					Closed tool
1114	"	20	3310		Opened tool, gas to surface immediately
1119	"	26	3880		
1124	"	26	3880		
1129	"	26	3880		
1134	"	26	3880		
1139	"	20	3310		
1144	"	20	3310		Began to spray oil
1149	"	20	3310		
1154	"	20	3310		

138272

Casing perfs.____ Bottom choke____ Surf. temp.____ °F Ticket No.____

Gas gravity____ Oil gravity____ GOR____

Spec. gravity____ Chlorides____ ppm Res.____ @____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
1159					Closed tool
1300					Tool off bottom
1428					Tool at table
1519					Tool laid down

KANSAS PETROLEUM, INCORPORATED
Lease Owner/Company Name

138272
Ticket Number

B.T. 1717 B.T. 6144 B.T. _____

Depth 3598' Depth 3642' Depth _____

Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
FIRST FLOW			FIRST FLOW					
0		884.9	0		908.5			
27.9		675.4	5		865.6			
			10		775.9			
			15		730.4			
			20		712.6			
			25		691.2			
			27.9		682.7			
FIRST CLOSED-IN			FIRST CLOSED-IN					
0		675.4	0		682.7			
32.5		1324.1	2		973.9			
			4		1044.4			
			6		1093.0			
			8		1131.5			
			10		1164.5			
			12		1194.6			
			14		1219.7			
			16		1241.1			
			18		1259.5			
			20		1276.9			
			22		1289.0			
			24		1299.0			
			26		1307.5			
			28		1314.4			
			30		1320.8			
			32.5		1326.8			
SECOND FLOW			SECOND FLOW					
0		928.9	0		957.1			
44.2		670.6	9		812.9			
			18		744.6			
			27		704.3			
			36		677.7			
			44.2		676.8			

Remarks: No segmented readings on B.T. #1717 due to split stylus point.

80-2860

5

KANSAS PETROLEUM, INCORPORATED
Lease Owner/Company Name

138272
Ticket Number

B.T. 1717 B.T. 6144 B.T. _____

Depth 3598' Depth 3642' Depth _____

Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
SECOND	CLOSED-IN		SECOND	CLOSED-IN				
0		670.6	0		676.8			
60.5		1328.0	4		1013.3			
			8		1105.4			
			12		1170.6			
			16		1219.0			
			20		1253.2			
			24		1276.1			
			28		1290.1			
			32		1300.4			
			36		1307.5			
			40		1313.0			
			44		1317.9			
			48		1321.4			
			52		1324.5			
			56		1327.0			
			60.5		1330.6			

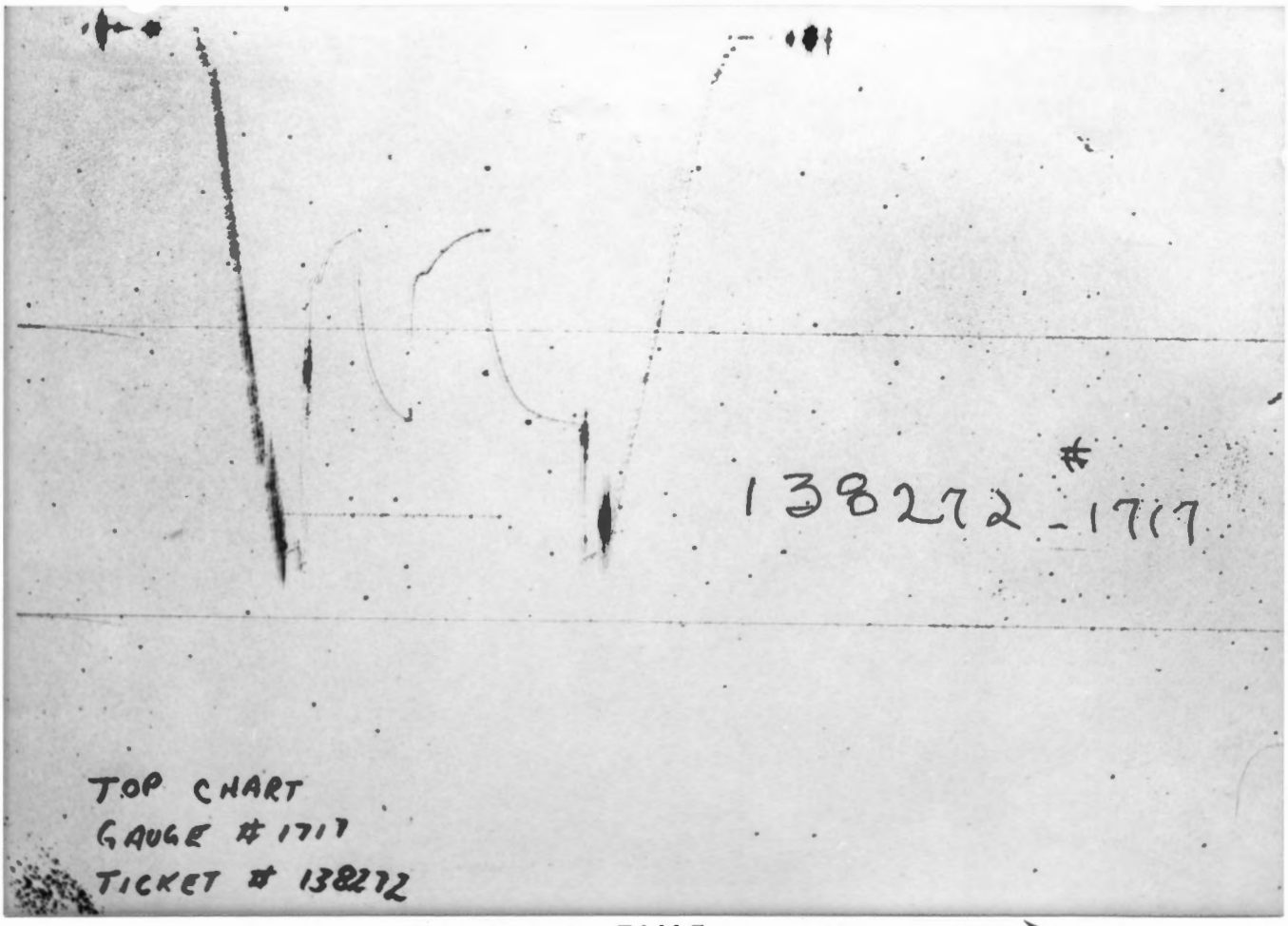
Remarks: _____

80-2860

5

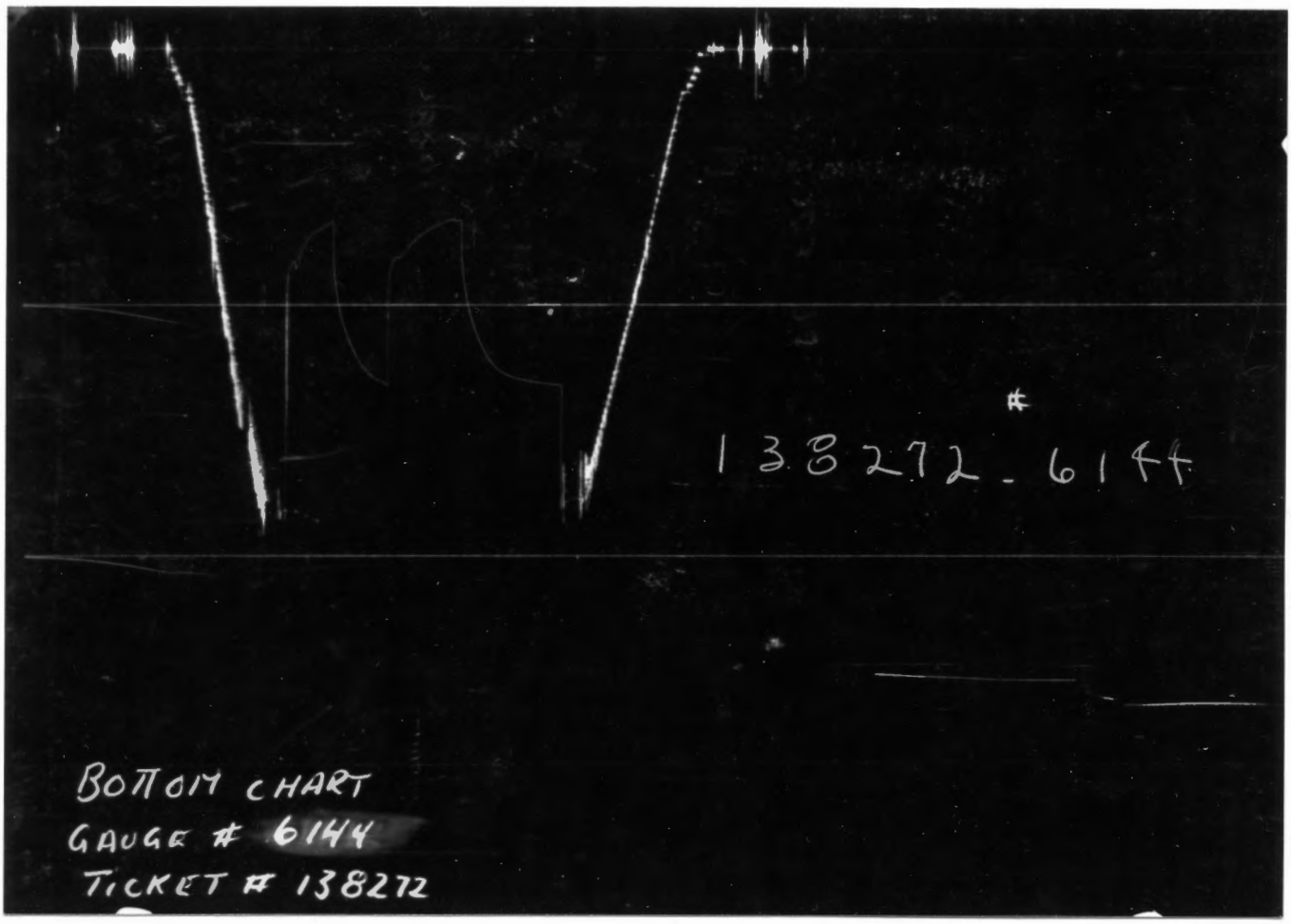
TICKET NO. 138272

Tool Description	O.D.	I.D.	Length	Depth
DRILL PIPE	4.50"	3.826"	3214'	
DRILL COLLARS	6.25"	2.25"	248'	
REVERSING SUB	5.625"	2"	1'	3462'
DRILL COLLARS	6.25"	2.25"	121'	3463'
DOUBLE PIN XO SUB	6.25"	2.25"	1'	3584'
DUAL CIP VALVE	5"	.87"	5'	3585'
HYDROSPRING TESTER	5"	.75"	5'	3590'
AP RUNNING CASE	5"	3.06"	4'	3598'
PACKER	6.75"	1.53"	6'	3603'
PACKER	6.75"	1.53"	6'	3609'
FLUSH JOINT ANCHOR	5"	2.37"	29'	
HT-500	5"	2.25"	1'	3640'
B.T. RUNNING CASE	5"	3.06"	4'	3642'
TOTAL DEPTH				3645'

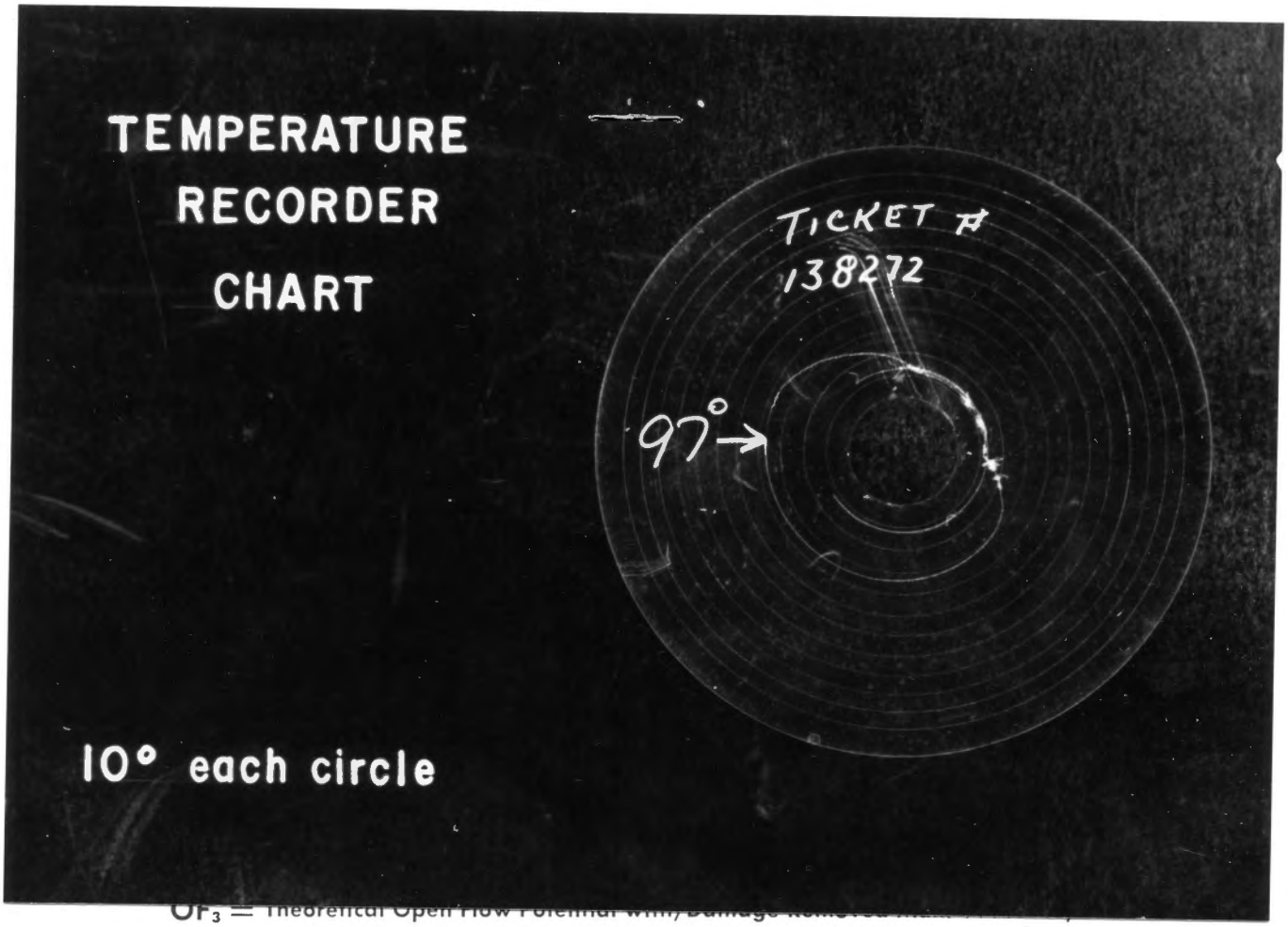


PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.



OF_3 = Theoretical Open Flow Potential with/Damage Removed ... MCF/D

OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. .... MCF/D

P_s = Extrapolated Static Pressure ..... Psig.

P_F = Final Flow Pressure ..... Psig.

P_{ot} = Potentiometric Surface (Fresh Water*) ..... Feet

Q = Average Adjusted Production Rate During Test ..... bbls/day

Q_1 = Theoretical Production w/Damage Removed ..... bbls/day

Q_g = Measured Gas Production Rate ..... MCF/D

R = Corrected Recovery ..... bbls

r_w = Radius of Well Bore ..... Feet

t = Flow Time ..... Minutes

t_o = Total Flow Time ..... Minutes

T = Temperature Rankine ..... °R

Z = Compressibility Factor ..... ——

μ = Viscosity Gas or Liquid ..... CP

Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

MEIS	1	3	3706' - 3770'	KANSAS PETROLEUM INCORPORATED
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name

5

138273	PRATT	12-3-81	1717 - 6144 - TEMP.
Ticket Number	Camp	Date	Gauge Number(s)

HALLIBURTON
SERVICES

TICKET NO. 138273 DATE 12-3-81 HALLIBURTON CAMP PRATT

LEASE OWNER KANSAS PETROLEUM INCORPORATED PW/ic

LEASE NAME MEIS WELL NO. 1 TEST NO. 3

LEGAL LOCATION SEC. 30 - 23S - 12W FORMATION TESTED VIOLA

FIELD AREA - COUNTY STAFFORD STATE KANSAS

TYPE OF D.S.T. OPEN HOLE

TESTER(S) ROBERT E. MARTIN

WITNESS ROGER MARTIN DRILLING CONTRACTOR D. R. LAUCK

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE MERLA 1½"

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.): 76' MUD

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	@ °F	35,000		@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS: CHARTS INDICATE PARTIAL PLUGGING OF ANCHOR PERFORATIONS DURING FLOW PERIODS. SEE PRODUCTION TEST DATA SHEET.

TICKET NO. 138273 DATE 12-3-81 ELEVATION (FT). 1880' KB

TOP OF TESTED INTERVAL (ft.) 3706' BOTTOM OF TESTED INTERVAL (ft.) 3770'

NET PAY (ft.) 9' TOTAL DEPTH (ft.) 3770'

HOLE OR CASING SIZE (in.) 7 7/8" MUD WEIGHT (lb./gal.) 9.3 VISCOSITY (sec.) 40

SURFACE CHOKE (in.) .25" BOTTOM CHOKE (in.) .75"

OIL GRAVITY _____ @ _____ °F GAS GRAVITY—ESTIMATED _____ ACTUAL _____

SAMPLER DATA

PRESSURE (P.S.I.) _____ CUBIC FT. OF GAS _____

C.C.'s OF OIL _____ C.C.'s OF WATER _____

C.C.'s OF MUD _____ TOTAL LIQUID C.C.'s _____

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER _____ OTHER _____

TEMPERATURE (°F)

ESTIMATE 107

ACTUAL 100

DEPTH (ft.) 3765'

H.T.-500 ☐; THERMOMETER ☐;
T.E. OR R.T.-7 ☒; OTHER ☐

SERIAL NO. 435

RECORDER AND PRESSURE DATA

CHARTS READ BY ROBERT E. MARTIN DATA APPROVED BY _____

						TIMES (00:00-24:00 HRS.)	
RECORDERS	GAUGE NUMBER	1717	6144			TOOL OPENED	10:19
	GAUGE TYPE	1	2			DATE	12-3
	GAUGE DEPTH (ft.)	3695'	3767			BYPASS OPENED	12:56
	CLOCK NUMBER	17481	2476			DATE	12-3
	CLOCK RANGE (HR.)	12	12				
	INITIAL HYDROSTATIC	1841.0	1870.2			PERIOD	MINUTES
	INITIAL FLOW	38.0	89.4			XXX	XXX
PRESSURES	1st. FINAL FLOW	38.0	124.2			1st. FLOW	30
	CLOSED-IN	195.8	221.6			1st. C.I.P.	45
	INITIAL FLOW	68.4	98.4			XXX	XXX
	2nd. FINAL FLOW	58.2	100.3			2nd. FLOW	37
	CLOSED-IN	91.2	129.2			2nd. C.I.P.	45
	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW					3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	1836.7	1861.3			XXX	XXX

Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 138273

Gas gravity_____ Oil gravity_____ GOR_____

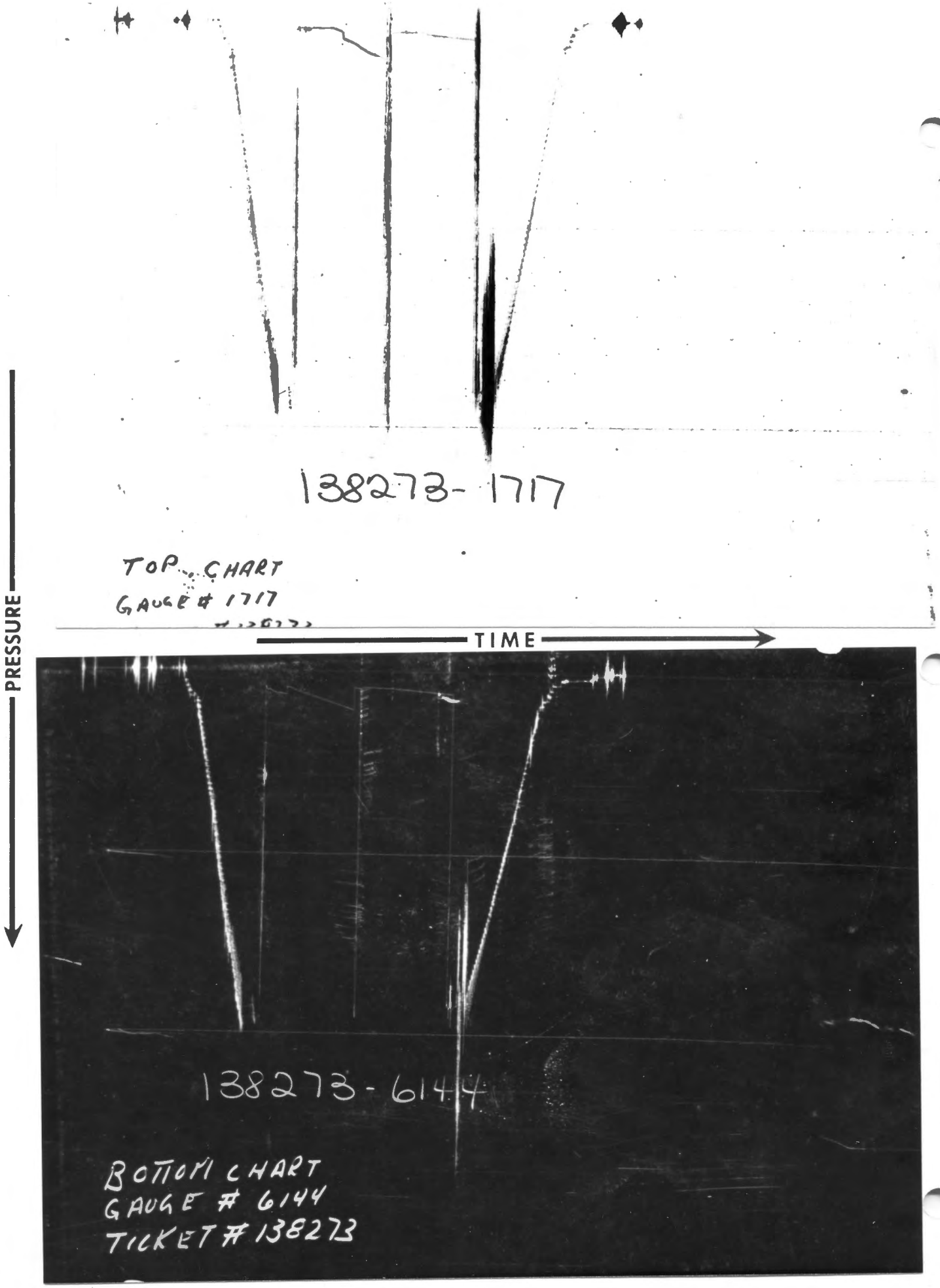
Spec. gravity_____ Chlorides_____ ppm Res._____ @_____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED_____

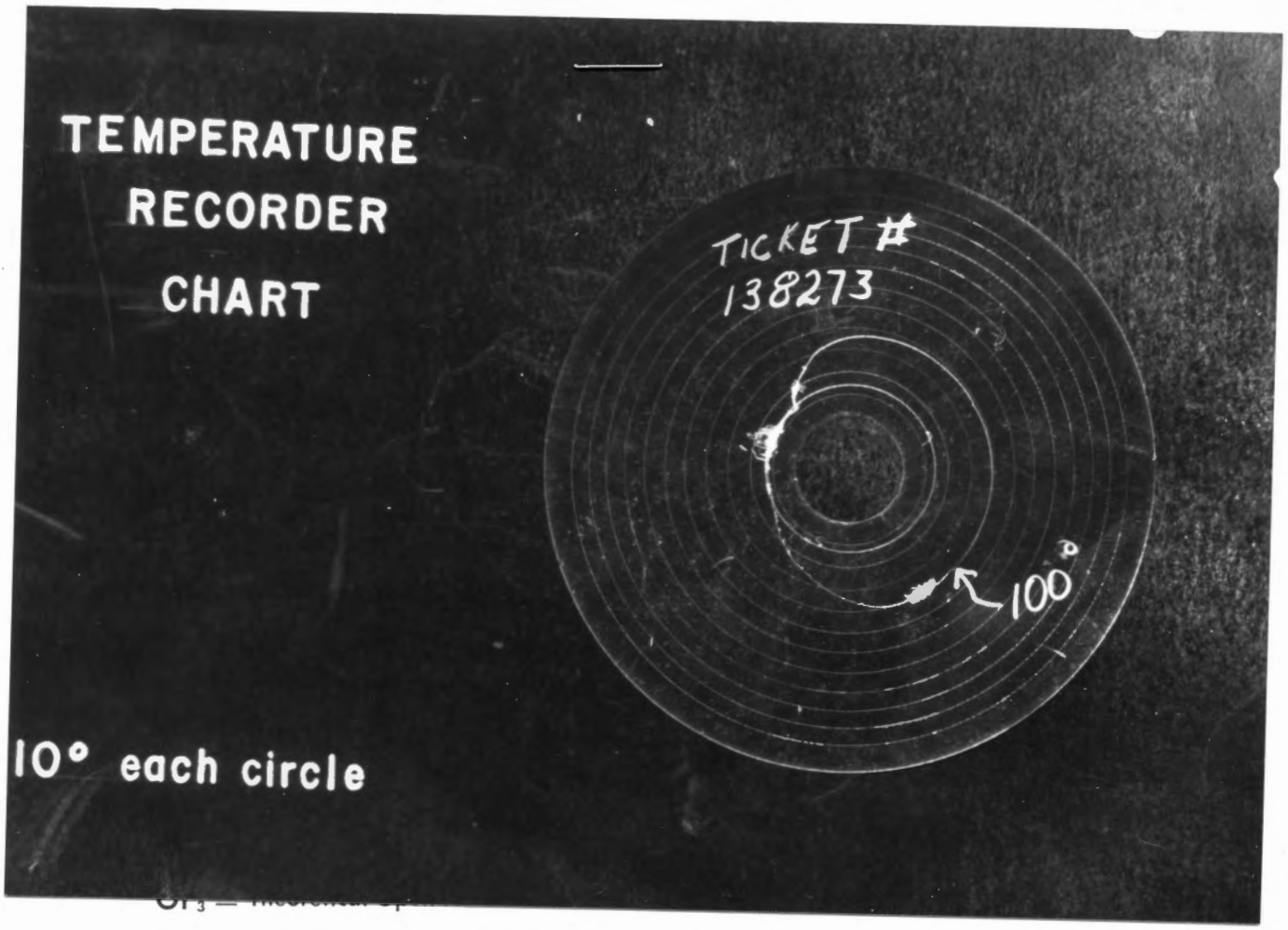
Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
06:00					Called out.
07:20					On location-rig coming out of hole.
07:45					Started clocks.
08:00					Picked up tool.
08:25					Tool at table.
08:50					Tool through table.
10:16					On bottom.
10:19					Opened tool with weak blow-3" in bucket.
10:49					Closed tool.
11:34					Opened tool with no blow.
11:40					FLushed tool with weak blow that died
					in 27 minutes.
12:11					Closed tool.
12:56					Off bottom.
14:30					Tool at table.
15:18					Tool laid down.

TICKET NO. 138273

Tool Description	O.D.	I.D.	Length	Depth
Drill Pipe	4.50"	3.826"	3343'	
Drill Collars	6.25"	2.25"	216'	
Reversing Sub	5.625"	2.0"	1'	3559'
Drill Collars	6.25"	2.25"	121'	
CO Sub	5.0"	2.0"	1'	
Dual CIP Valve	5.0"	.87"	5'	
Hydrospring Tester	5.0"	.75"	5'	3687'
AP Running Case	5.0"	3.06"	4'	3695'
Packer	6.75"	1.53"	6'	3700'
Packer	6.75"	1.53"	6'	3706'
Flush Joint Anchor	5.0"	2.37"	8'	
CO Sub	5.0"	2.0"	1'	
Drill COllars	6.25"	2.25"	32'	
Double Pin Sub	6.25"	2.25"	1'	
CO Sub	6.25"	2.25"	1'	
Flush Joint ANchor	5.0"	2.37"	14'	
HT-500	5.0"	2.25"	1'	3765'
Blanked Off BT Case	5.0"	3.06"	4'	3767'
TOTAL DEPTH				3770'



Each Horizontal Line Equal to 1000 p.s.i.



OF_3 = [illegible]

OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. . . . . MCF/D

P_s = Extrapolated Static Pressure . . . . . Psig.

P_F = Final Flow Pressure . . . . . Psig.

P_{ot} = Potentiometric Surface (Fresh Water*) . . . . . Feet

Q = Average Adjusted Production Rate During Test . . . . . bbls/day

Q_1 = Theoretical Production w/Damage Removed . . . . . bbls/day

Q_g = Measured Gas Production Rate . . . . . MCF/D

R = Corrected Recovery . . . . . bbls

r_w = Radius of Well Bore . . . . . Feet

t = Flow Time . . . . . Minutes

t_o = Total Flow Time . . . . . Minutes

T = Temperature Rankine . . . . . °R

Z = Compressibility Factor . . . . . ——

μ = Viscosity Gas or Liquid . . . . . CP

Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

MEIS	1	4	3845 - 3893'	KANSAS PETROLEUM, INCORPORATED
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name

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243867	PRATT	12-4-81	1717 6144 HT 500
Ticket Number	Camp	Date	Gauge Number(s)

TICKET NO. 243867 DATE 12-4-81 HALLIBURTON CAMP PRATT

LEASE OWNER KANSAS PETROLEUM, INCORPORATED NM/sm

LEASE NAME MEIS WELL NO. 1 TEST NO. 4

LEGAL LOCATION 30-23-12W FORMATION TESTED SIMPSON

FIELD AREA COUNTY STAFFORD STATE KANSAS

TYPE OF D.S.T. OPEN HOLE

TESTER(S) J. AREND

WITNESS R. MARTIN DRILLING CONTRACTOR D.R. LAUCK DRILLING # 1

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE MERLA

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

6 FEET OF MUD

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
PIT	.13 @ 70 °F	35,000		@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS:

TICKET NO. 243867 DATE 12-4-81 ELEVATION (FT.)

TOP OF TESTED INTERVAL (ft.) 3845' BOTTOM OF TESTED INTERVAL (ft.) 3893'

NET PAY (ft.) TOTAL DEPTH (ft.) 3893'

HOLE OR CASING SIZE (in.) 7.875" MUD WEIGHT (lb./gal.) 9.3 VISCOSITY (sec.) 40

SURFACE CHOKE (in.) .25" BOTTOM CHOKE (in.) .75"

OIL GRAVITY @ °F GAS GRAVITY—ESTIMATED ACTUAL

SAMPLER DATA

PRESSURE (P.S.I.) CUBIC FT. OF GAS

C.C.'s OF OIL C.C.'s OF WATER

C.C.'s OF MUD TOTAL LIQUID C.C.'s

GAS/OIL RATIO (cu. ft. per bbl.)

FROM SAMPLER OTHER

TEMPERATURE (°F)

ESTIMATE 108

ACTUAL 98

DEPTH (ft.) 3888

H.T.-500 ☒; THERMOMETER ☐;
T.E. OR R.T.-7 ☐; OTHER ☐

SERIAL NO.

RECORDER AND PRESSURE DATA

CHARTS READ BY AREND DATA APPROVED BY

RECORDERS	GAUGE NUMBER	1717	6144			
	GAUGE TYPE	1	2			
	GAUGE DEPTH (ft.)	3832	3890			
	CLOCK NUMBER	17481	2476			
	CLOCK RANGE (HR.)	12	12			
PRESSURES	INITIAL HYDROSTATIC	1929.5	1953.5			
	1st. INITIAL FLOW	15.2	46.7			
	1st. FINAL FLOW	16.8	46.7			
	1st. CLOSED-IN	29.5	60.6			
	2nd. INITIAL FLOW	18.5	52.6			
	2nd. FINAL FLOW	20.2	52.6			
	2nd. CLOSED-IN	30.4	65.6			
	3rd. INITIAL FLOW					
	3rd. FINAL FLOW					
	3rd. CLOSED-IN					
	FINAL HYDROSTATIC	1914.0	1932.6			

TIMES
(00:00-24:00 HRS.)

TOOL OPENED 1055

DATE 12-4-81

BYPASS OPENED 1255

DATE 12-4-81

PERIOD	MINUTES
XXX	XXX
1st. FLOW	30
1st. C.I.P.	30
XXX	XXX
2nd. FLOW	30
2nd. C.I.P.	30
XXX	XXX
3rd. FLOW	
3rd. C.I.P.	
XXX	XXX

Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 243867

Gas gravity_____ Oil gravity_____ GOR_____

Sec. gravity_____ Chlorides_____ ppm Res._____ @_____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED_____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0710					Called for test
0850					On location
0900					Started clocks
0905					Picked up tool
0930					Tool thru table
1041					Tool on bottom
1045					Opened tool-unable to set slips..
					picked up another joint
1051					Tool on bottom
1055					Tool opened with weak blow
1106					Blow died in 11 minutes.
1125					Closed tool
1155					Opened with no bubble
1200					Flushed tool
1208					Tool opened with weak blow
1215					Blow died in 2 minutes.
1225					Closed tool
1255					Opened bypass and started out of hole
					Tool at table
					Tool laid down.

FORM 182-R1—PRINTED IN U.S.A.

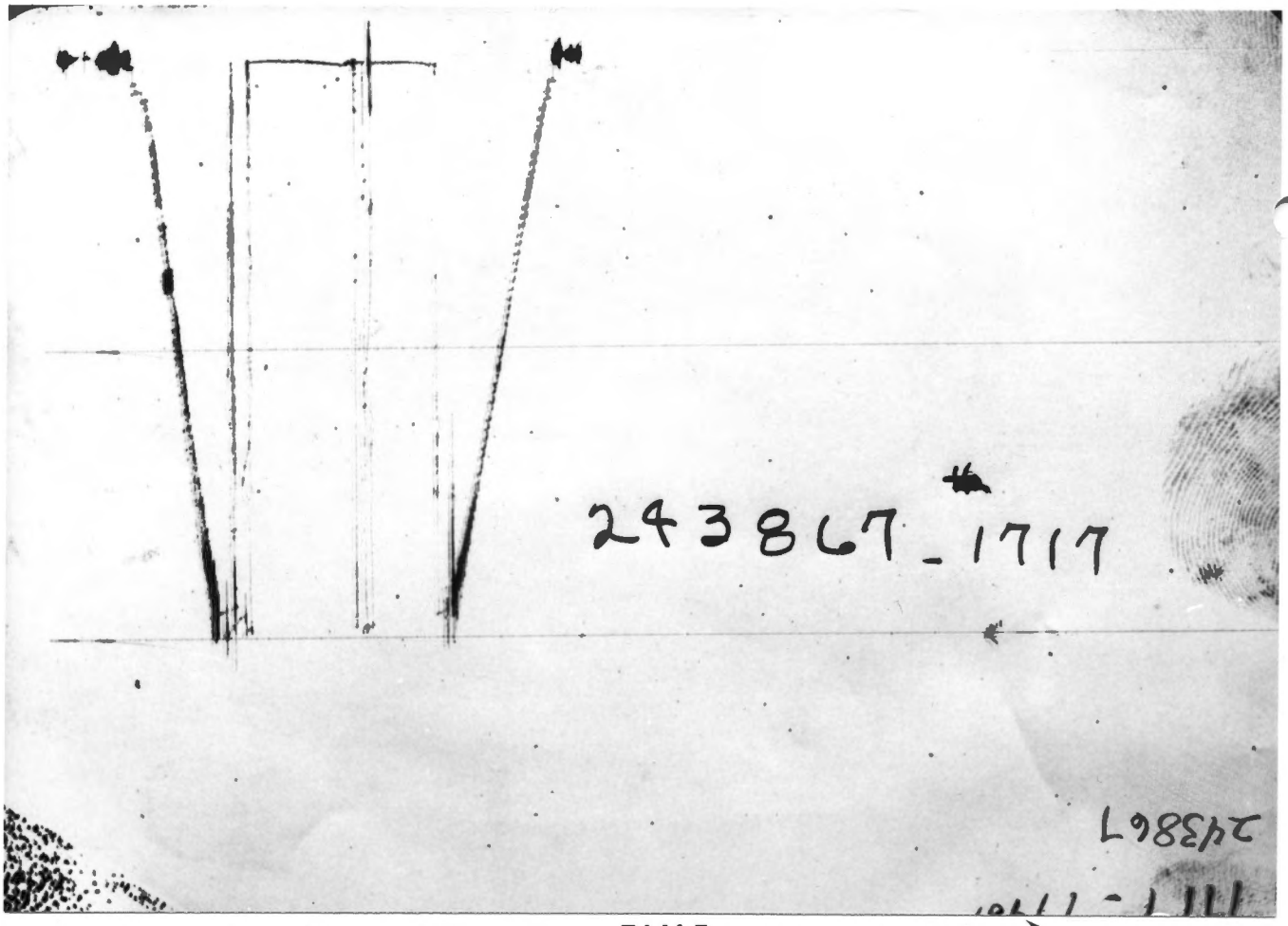
PRODUCTION TEST DATA

LITTLE'S

5

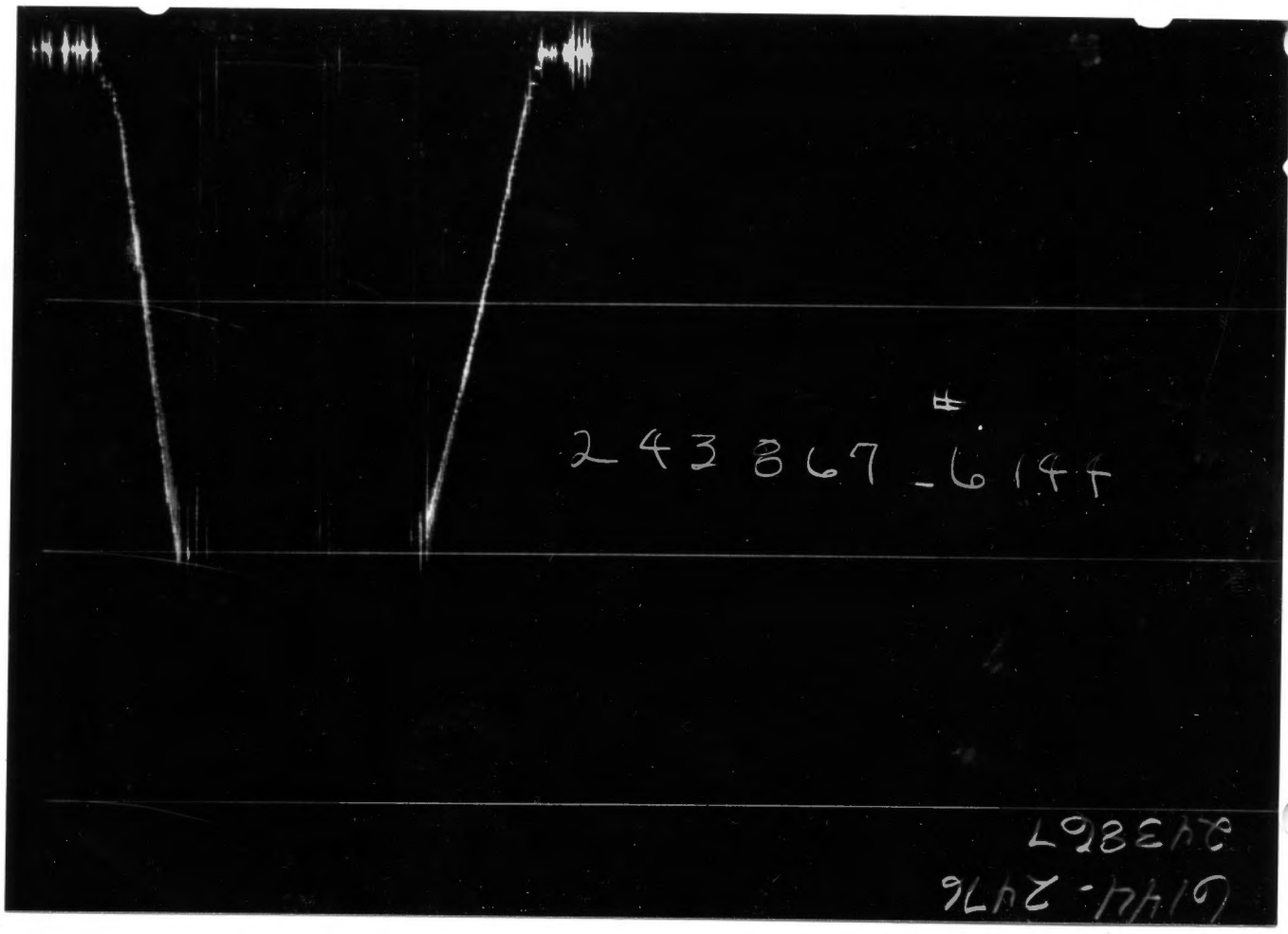
TICKET NO. 243867

Tool Description	O.D.	I.D.	Length	Depth
Drill pipe	4½"	3.826"	3485'	
Drill collars	6"	2"	213'	
Reversing sub	6"	2"	1'	3695'
Drill collars	6"	2"	124'	
Dual CIP	5.875"	.87"	6'	
Hydrospring	5.875"	.75"	5'	3826'
AP Running case	5"	3.06"	4'	3832'
Packer	6.875"	1.53"	6'	3839'
Packer	6.875"	1.53"	6'	3845'
Flush joint anchor	5"	2.36"	1'	
Cross over	6"	2"	1'	
Drill collar	6"	2"	32'	
Crossovers	6"	2"	2'	
Flush joint anchor	5"	2.36"	5'	
HT 500	5"	2.25"	1'	3888'
Blanked off running case	5"	2.44"	4'	3890'
Total depth				3893'

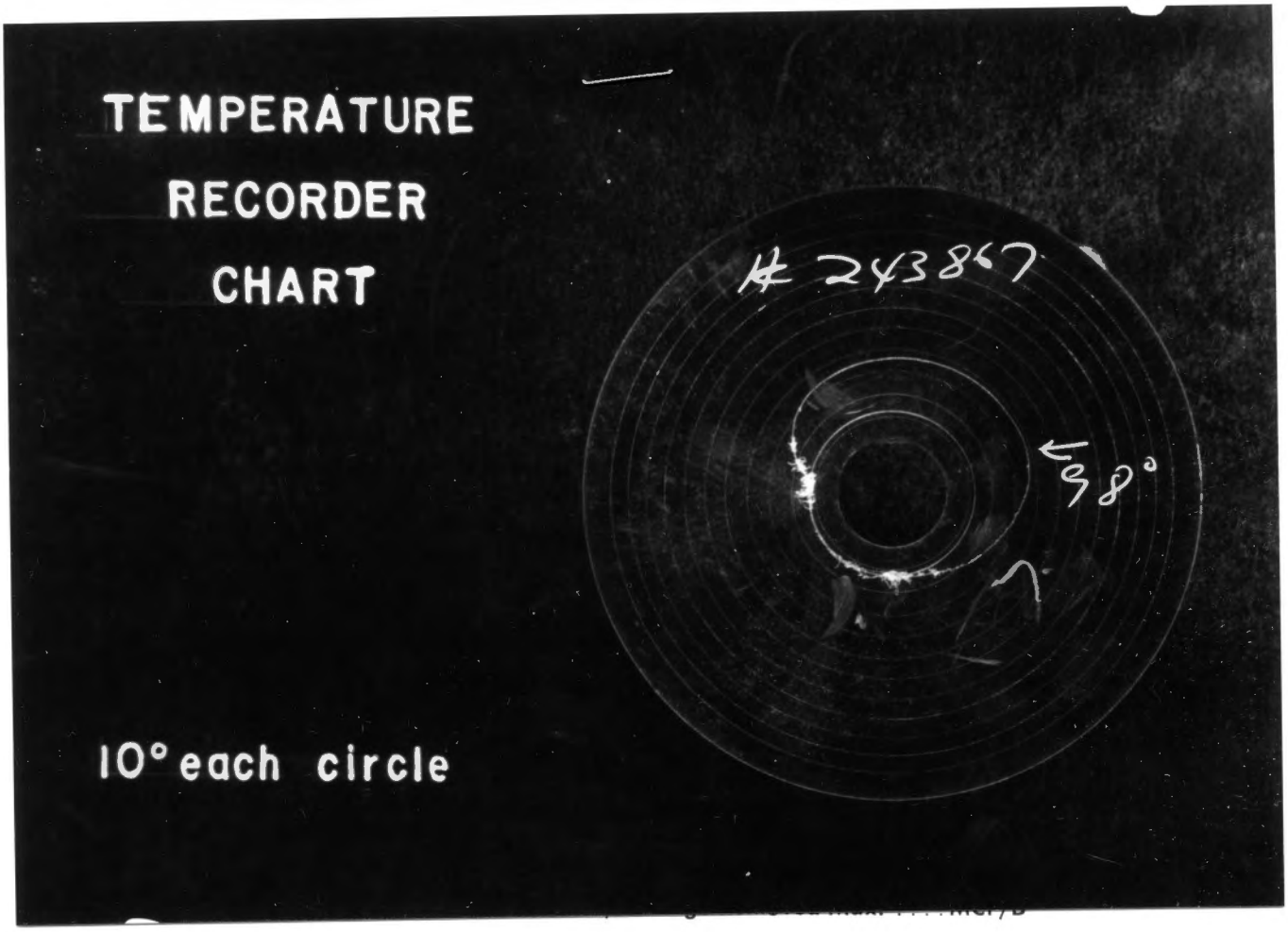


PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.



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P_f = Final Flow Pressure . . . . . Psig.

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t = Flow Time . . . . . Minutes

t_o = Total Flow Time . . . . . Minutes

T = Temperature Rankine . . . . . °R

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