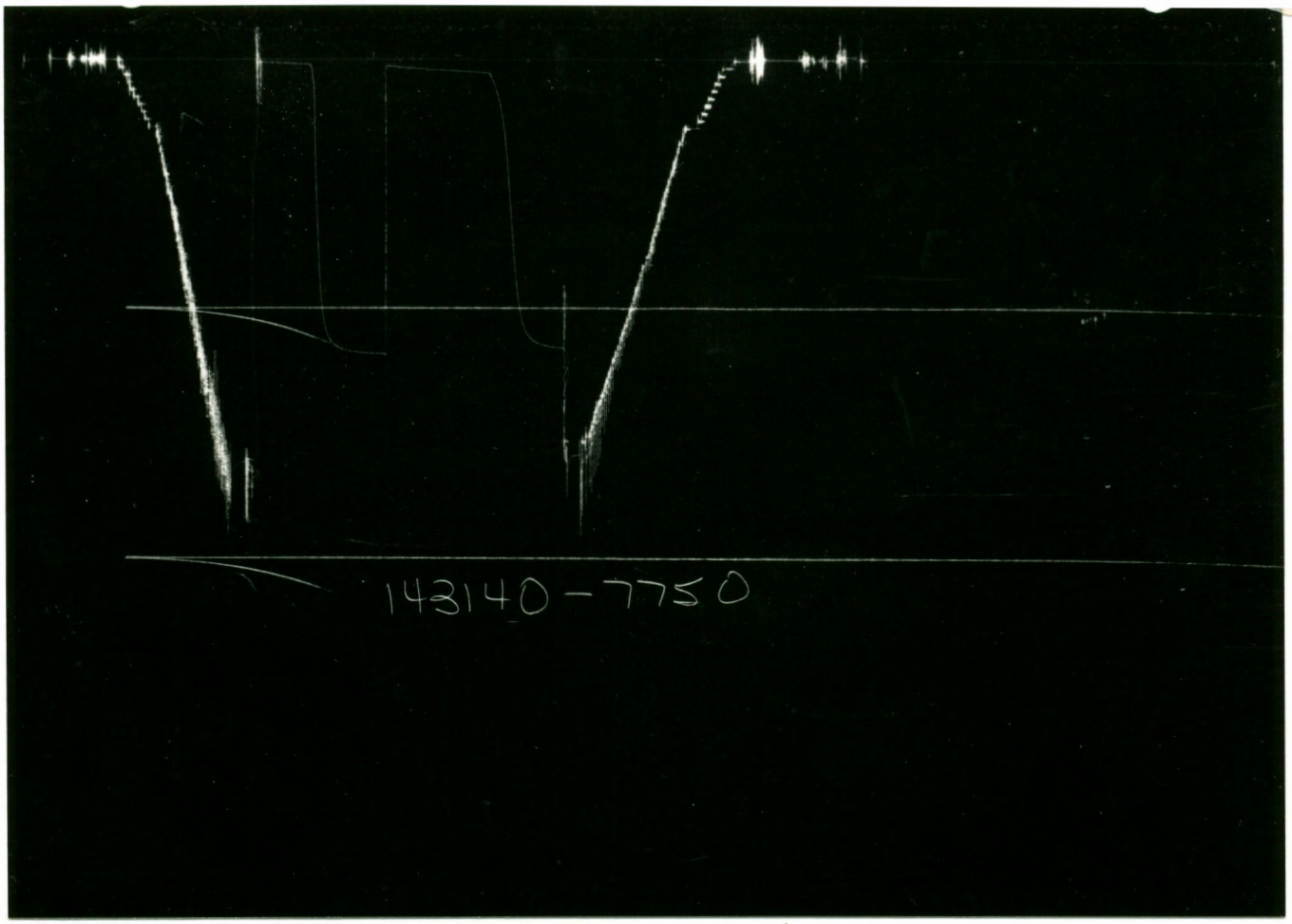
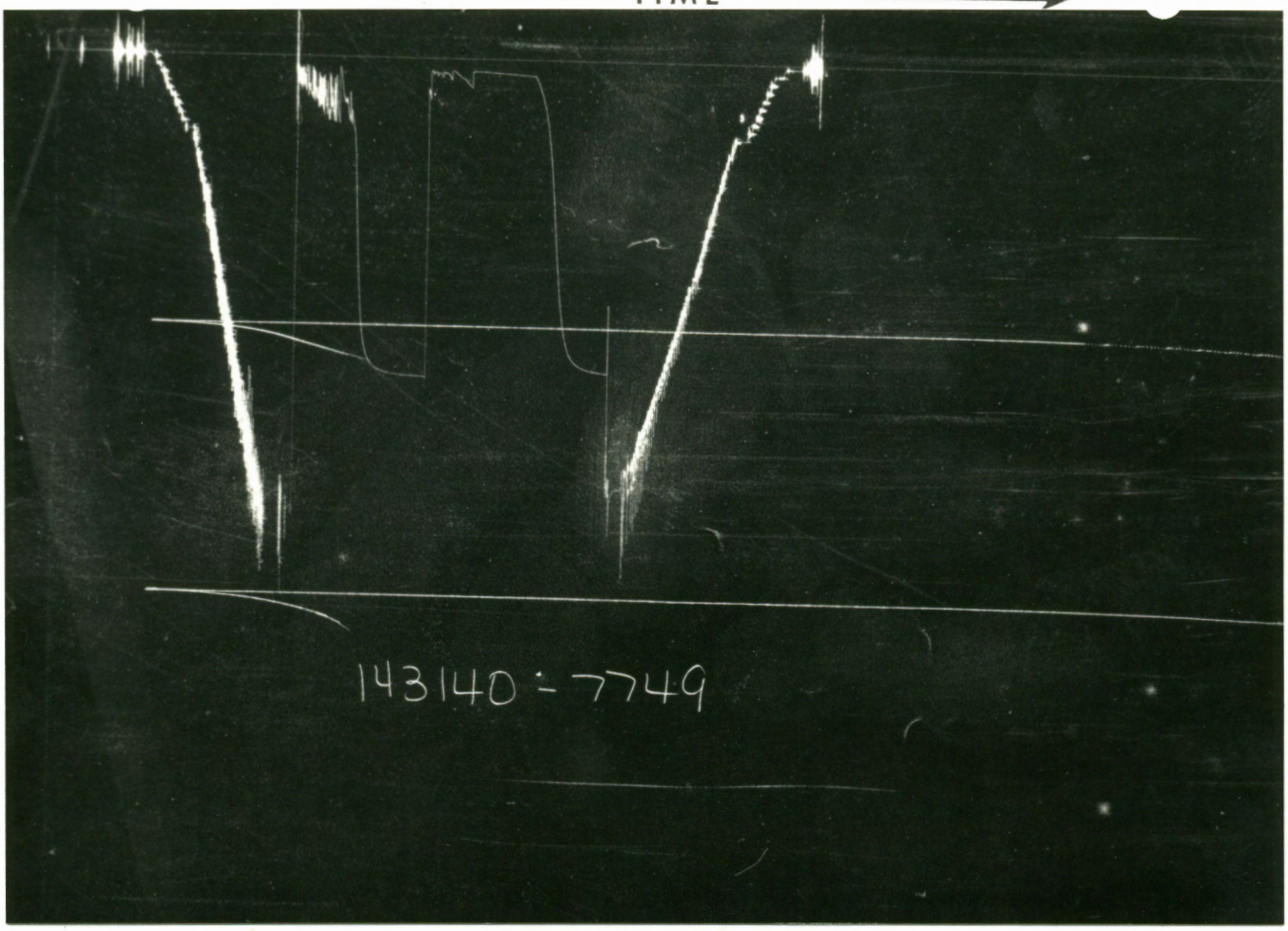


PRESSURE

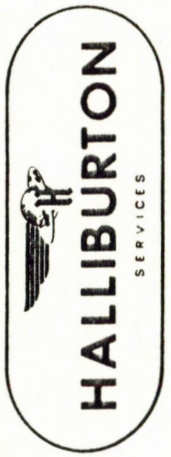
TIME



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

DONELL	1	2	3415' - 3422'	J. A. ALLISON
Lease Name	Well No.	Test No.	Tested Interval	Lease Owner/Company Name

143140	WINFIELD	3-18-82	7750 7749 TEMP.
Ticket Number	Camp	Date	Gauge Number(s)



TICKET NO. 143140 DATE 3-18-82 HALLIBURTON CAMP WINFIELD

LEASE OWNER J. A. ALLISON bc

LEASE NAME DONELL WELL NO. 1 TEST NO. 2

LEGAL LOCATION 5 - 27S - 1W FORMATION TESTED MISSISSIPPIAN

FIELD AREA WEST OF LINK COUNTY SEDGWICK STATE KANSAS

TYPE OF D.S.T. OPEN HOLE

TESTER(S) MR. HALL

WITNESS MR. PIERCE DRILLING CONTRACTOR D N & B RIG #3

DEPTHS MEASURED FROM ROTARY KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.):

210' of GAS IN PIPE

90' of OIL AND GAS CUT MUD

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
TOP	0.90 @ 74 °F	4540		@ °F	
BOTTOM	.458 @ 74 °F	15890		@ °F	
PIT	1.80 @ 74 °F	2270		@ °F	

REMARKS:

Charts indicate partial plugging of perforations during initial flow period and early part of final flow period. SEE PRODUCTION TEST DATA SHEET.

TICKET NO. 143140 DATE 3-18-82 ELEVATION (FT.) 1349' GL

TOP OF TESTED INTERVAL (ft.) 3415' BOTTOM OF TESTED INTERVAL (ft.) 3422'

NET PAY (ft.) _____ TOTAL DEPTH (ft.) 3422'

HOLE OR CASING SIZE (in.) 7.875" MUD WEIGHT (lb./gal.) 9.1 VISCOSITY (sec.) 48

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 _____

ACTUAL 124

DEPTH (ft.) 3417'

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

SERIAL NO. 1396

RECORDER AND PRESSURE DATA

CHARTS READ BY MR. HALL DATA APPROVED BY _____

						TIMES (00:00-24:00 HRS.)	
RECORDERS	GAUGE NUMBER	7750	7749			TOOL OPENED	1415
	GAUGE TYPE	1	2			DATE	3-18
	GAUGE DEPTH (ft.)	3401	3418			BYPASS OPENED	1715
	CLOCK NUMBER	20681	14246			DATE	3-18
	CLOCK RANGE (HR.)	12	12				
	INITIAL HYDROSTATIC	1611.6	1616.7			PERIOD	MINUTES
PRESSURES	INITIAL FLOW	10.7	41.0			XXX	XXX
	1st. FINAL FLOW	20.5	197.4			1st. FLOW	31.3
	CLOSED-IN	1178.9	1183.3			1st. C.I.P.	44.3
	INITIAL FLOW	31.2	116.0			XXX	XXX
	2nd. FINAL FLOW	54.4	60.9			2nd. FLOW	60.5
	CLOSED-IN	1155.7	1161.4			2nd. C.I.P.	43.9
	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW					3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	1582.8	1588.1			XXX	XXX

Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 143140

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
1200					On location
1225					Started making up tool
1250					Tool in table
1255					Started first collar in hole
1415					Tool opened with a weak blow throughout
1445					Closed tool
1530					Opened tool with a fair blow, about
					7" in bucket
1630					Closed tool
1715					Opened by-pass, started off bottom
1900					Started tearing down tool
1950					Tool on truck and charts read

FORM 182-R1—PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S

5

INCREMENTAL PRESSURES FOR TICKET NUMBER 143140 PAGE NO. 1 OF 2

	B. T. No. 7750 Depth 3401			B. T. No. 7749 Depth 3418			B. T. No. Depth		
	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
	FIRST FLOW			FIRST FLOW					
	0		10.7	0		41.0			
	5		12.1	31.3		197.4			
	10		12.9	PLUGGING					
	15		14.5						
	20		16.8						
	25		19.1						
	31.3		20.5						
	FIRST CIP			FIRST CIP					
	0		20.5	0		197.4			
	3		367.5	3		442.0			
	6		922.0	6		911.7			
	9		1079.7	9		1085.0			
	12		1126.6	12		1133.0			
	15		1147.0	15		1152.7			
	18		1157.6	18		1163.3			
	21		1164.7	21		1170.0			
	24		1168.9	24		1174.1			
	27		1172.0	27		1176.6			
	30		1173.6	30		1178.5			
	33		1175.3	33		1179.9			
	36		1176.6	36		1181.3			
	39		1178.1	39		1182.6			
	42		1178.9	42		1183.1			
	44.3		1178.9	44.3		1183.3			
	SECOND FLOW			SECOND FLOW					
	0		31.2	0		116.0			
	10		32.7	10		53.6			
	20		36.6	20		77.3 Q			
	30		41.1	30		47.8			
	40		45.3	40		52.3			
	50		50.5	50		56.2			
	60.5		54.4	60.5		60.9			
	SECOND CIP			SECOND CIP					
	0		54.4	0		60.9			
	3		97.0	3		108.7			
	6		166.0	6		177.7			
	9		286.8	9		303.1			
	12		534.3	12		545.3			
	15		820.6	15		829.6			
	18		997.4	18		1007.8			
	21		1079.0	21		1086.7			
	24		1113.1	24		1118.9			
	27		1130.9	27		1135.6			
	30		1139.7	30		1144.9			
	33		1145.2	33		1150.4			
	36		1149.2	36		1154.5			
	39		1152.3	39		1147.4			

Remarks: Q-Questionable

5

81-350

INCREMENTAL PRESSURES FOR TICKET NUMBER 143140 PAGE NO. 2 OF 2

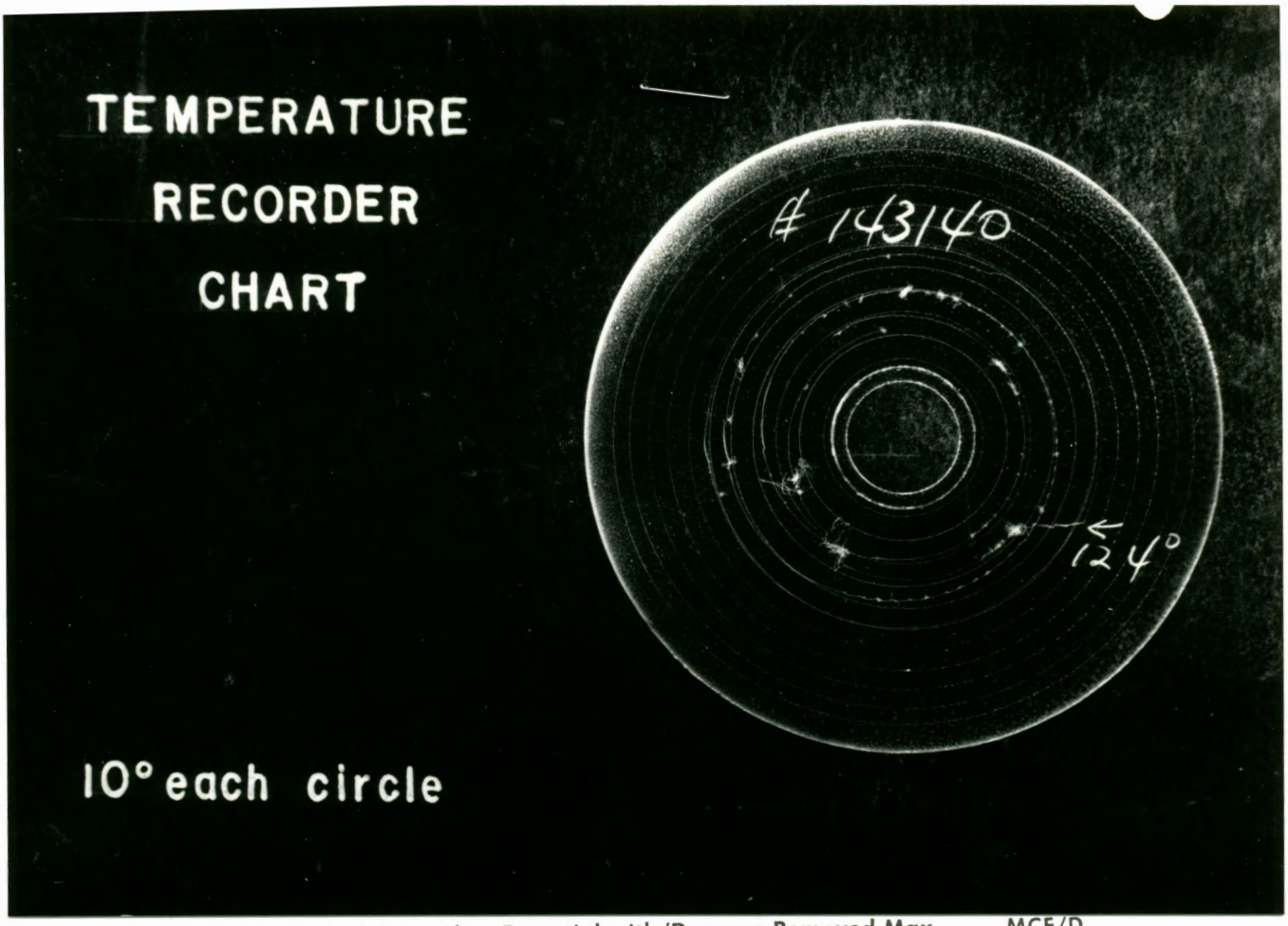
	B. T. No. 7750 Depth 3401'			B. T. No. 7749 Depth 3418'			B. T. No. _____ Depth _____		
	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. (minutes)	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
	42		1154.8	42		1160.3			
	43.9		1155.7	43.9		1161.4			

Remarks: _____

5 81-350

TICKET NO. 143140

Tool Description	O.D.	I.D.	Length	Depth
DRILL PIPE	4.5"	3.826"	2841'	
DRILL COLLARS	6.25"	2.25"	497'	
REVERSING SUB-HOLLOW PIN IMPACT	-	-	1'	3325'
DRILL COLLARS	6.25"	2.25"	60'	
DOUBLE PIN SUB	5.75"	-	1'	
HANDLING SUB	5.87"	-	5'	
DUAL CIP	5.87"	.87"	5'	
HYDROSPRING TESTER	5"	.75"	4'	3397'
AP RUNNING CASE	5"	-	4'	3401'
PACKER	6.75"	1.53"	6'	3415'
HT-500	5"	-	1'	3417'
BLANKED OFF RUNNING CASE	5"	-	4'	3418'
TOTAL DEPTH				3422'



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.