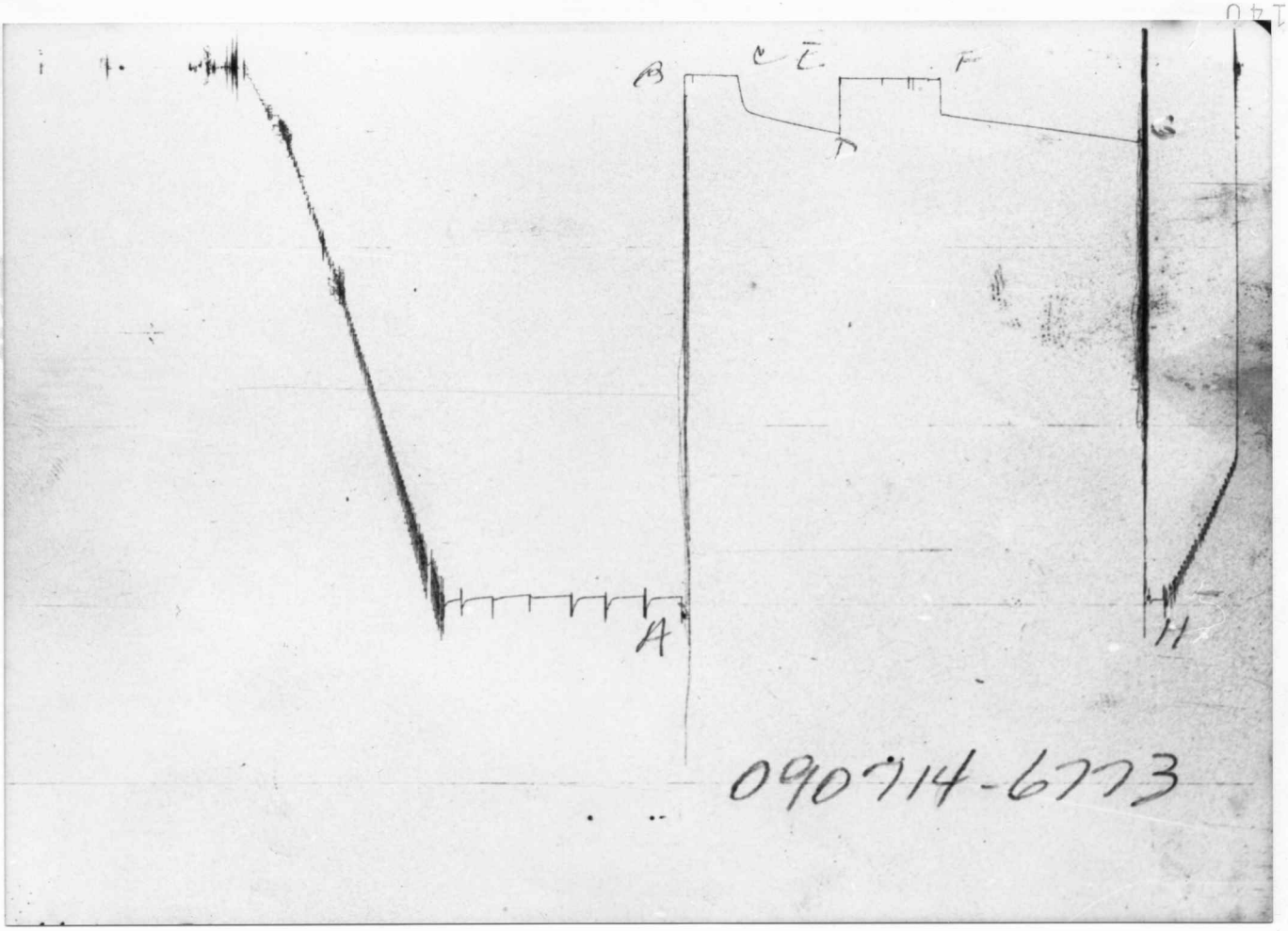
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
THOMPSON	1-9	1	6062.0 - 6150.0	DONALD C. SLAWSON

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
9-35S-32W		SEWARD	KANSAS IC

C NW-SE

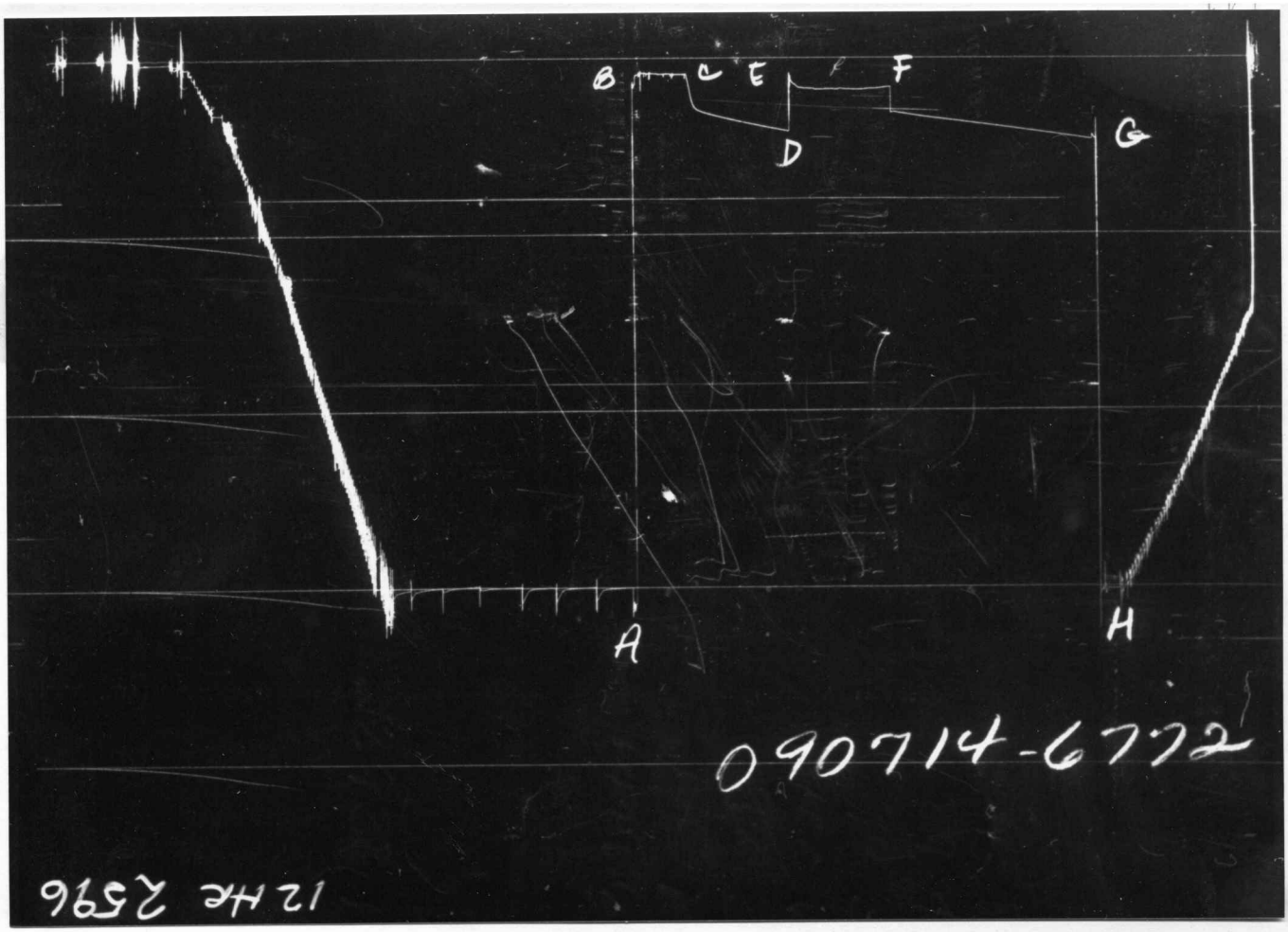
TICKET NO. 09071400
07-JAN-86
LIBERAL

FORMATION TESTING SERVICE REPORT



GAUGE NO: 6773 DEPTH: 6046.9 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3031	2975.4			
B	INITIAL FIRST FLOW	49	43.3	30.0	31.2	F
C	FINAL FIRST FLOW	58	50.1			
C	INITIAL FIRST CLOSED-IN	58	50.1	60.0	59.8	C
D	FINAL FIRST CLOSED-IN	384	378.1			
E	INITIAL SECOND FLOW	67	63.6	60.0	59.1	F
F	FINAL SECOND FLOW	76	69.9			
F	INITIAL SECOND CLOSED-IN	76	69.9	120.0	119.9	C
G	FINAL SECOND CLOSED-IN	434	429.2			
H	FINAL HYDROSTATIC	3031	2987.2			



GAUGE NO: 6772 DEPTH: 6147.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2938	3014.8			
B	INITIAL FIRST FLOW	89	135.7	30.0	31.2	F
C	FINAL FIRST FLOW	92	91.7			
C	INITIAL FIRST CLOSED-IN	92	91.7	60.0	59.8	C
D	FINAL FIRST CLOSED-IN	400	423.4			
E	INITIAL SECOND FLOW	92	103.3	60.0	59.1	F
F	FINAL SECOND FLOW	155	168.3			
F	INITIAL SECOND CLOSED-IN	155	168.3	120.0	119.9	C
G	FINAL SECOND CLOSED-IN	449	472.2			
H	FINAL HYDROSTATIC	2938	3024.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: L. MORROW & CHESTER
NET PAY (ft): 24.0
GROSS TESTED FOOTAGE: 88.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 2757.0 KELLY BUSHING
TOTAL DEPTH (ft): 6150.0
PACKER DEPTH(S) (ft): 6062
FINAL SURFACE CHOKE (in): 0.25000
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.05
MUD VISCOSITY (sec): 43
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 121 @ 6144.7 ft

TICKET NUMBER: 09071400

DATE: 1-1-86 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: LIBERAL

TESTER: JEFF CLARK

WITNESS: WAYNE FREDRICKS

DRILLING CONTRACTOR: SLAWSON DRILLING COMPANY RIG #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY			CHLORIDES
PIT	0.824	@	59 °F	4517 ppm
SAMPLER	0.402	@	59 °F	8975 ppm
TOP	0.811	@	59 °F	5013 ppm
BOTTOM	0.400	@	59 °F	9023 ppm
		@	°F	ppm
		@	°F	ppm

SAMPLER DATA

Psig AT SURFACE: 74.5
cu.ft. OF GAS: 0.119
cc OF OIL:
cc OF WATER:
cc OF MUD: 2180.0
TOTAL LIQUID cc: 2180.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

80 FEET OF GAS CUT DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

CHEMICAL MUD WEIGHT = 9.05#/GALLON; VISCOSITY = 43 SEC./QT.;
W.L. = 14.0 CM3/30 MINUTES; PH = 9.0; CHLORIDES = 4500 PPM;
AND LCM = 4#/BBL.

TYPE & SIZE MEASURING DEVICE: _____					TICKET NO: 09071400
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-31-85					
1500					CALLED OUT
1-1-86					
0200					JOB READY TIME
0030					ON LOCATION - CHANGED ELEVATORS
					AND PICKED UP BOTTOM HALF OF TOOLS
0230					TOOLS TONGED UP - CHANGED
					ELEVATORS AND RAN 1 STAND OF
					COLLARS
0240					CHANGED ELEVATORS AND PICKED UP
					TOP HALF OF TOOL
0305					TOOL MADE UP AT KELLY BUSHING -
					CHANGED ELEVATORS AND TRIPPED IN
					HOLE WITH TOOLS
0505					RIGGED UP SURFACE EQUIPMENT
0515					WAITING FOR DAYBREAK
0728					ON BOTTOM - STRING WEIGHT
					100000# - 40000# ON TOOL
0730					OPENED TOOL WITH AN IMMEDIATE
					SURFACE BLOW (1/4") INCREASING
					TO 2" - STABILIZED AT 2"
0800					CLOSED TOOL - BLOW 2" INTO
					BUCKET (WEAK)
0900					OPENED TOOL WITH 1.5" INTO BUCKET
1000					CLOSED TOOL WITH 1/2" INTO
					BUCKET (WEAK)
1200					OPENED BYPASS - RIGGED OFF SURFACE
					EQUIPMENT - LAID DOWN 1 SINGLE
1210					TRIPPED OUT OF HOLE
1455					TOOL AT KELLY BUSHING - MADE
					BREAK
1550					TOOL BROKE DOWN
1645					TRUCK LOADED OUT

TICKET NO: 09071400	GAUGE NO: 6773
CLOCK NO: 17058 HOUR: 12	DEPTH: 6046.9

HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	43.3			
	2	5.0	44.9	1.6		
	3	10.0	45.6	0.7		
	4	15.0	46.3	0.7		
	5	20.0	47.8	1.4		
	6	25.0	49.1	1.3		
	7	30.0	49.5	0.4		
C	8	31.2	50.1	0.6		
			FIRST CLOSED-IN			
C	1	0.0	50.1			
	2	4.0	223.6	173.5	3.6	0.942
	3	8.0	260.5	210.4	6.4	0.690
	4	12.0	272.6	222.5	8.7	0.555
	5	16.0	284.3	234.2	10.6	0.470
	6	20.0	293.3	243.3	12.2	0.408
	7	24.0	302.7	252.6	13.5	0.362
	8	28.0	312.2	262.1	14.7	0.325
	9	32.0	321.6	271.5	15.8	0.295
	10	36.0	330.1	280.0	16.7	0.271
	11	40.0	339.2	289.1	17.5	0.250
	12	44.0	348.2	298.2	18.2	0.232
	13	48.0	355.6	305.5	18.9	0.217
	14	52.0	363.2	313.2	19.5	0.204
	15	56.0	371.2	321.1	20.0	0.192
D	16	59.8	378.1	328.0	20.5	0.182
			SECOND FLOW			
E	1	0.0	63.6			
	2	10.0	64.3	0.7		
	3	20.0	64.4	0.1		
	4	30.0	64.9	0.4		
	5	40.0	65.5	0.6		
	6	50.0	66.2	0.7		
F	7	59.1	69.9	3.7		
			SECOND CLOSED-IN			
F	1	0.0	69.9			
	2	8.0	279.8	209.9	7.4	1.089
	3	16.0	289.9	219.9	13.6	0.822
	4	24.0	301.7	231.8	19.0	0.677
	5	32.0	310.8	240.8	23.6	0.582
	6	40.0	321.4	251.5	27.7	0.513
	7	48.0	330.7	260.7	31.3	0.460
	8	56.0	340.5	270.5	34.6	0.417
	9	64.0	350.8	280.9	37.4	0.382

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	10	72.0	362.4	292.4	40.1	0.353
	11	80.0	373.3	303.4	42.4	0.328
	12	88.0	384.1	314.2	44.6	0.307
	13	96.0	394.5	324.6	46.5	0.288
	14	104.0	405.0	335.1	48.3	0.271
	15	112.0	417.3	347.3	50.0	0.257
G	16	119.9	429.2	359.3	51.5	0.244

REMARKS:

TICKET NO: 09071400	GAUGE NO: 6772
CLOCK NO: 2596 HOUR: 12	DEPTH: 6147.0

HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	135.7			
	2	5.0	86.1	-49.5		
	3	10.0	87.9	1.8		
	4	15.0	92.3	4.4		
	5	20.0	90.0	-2.3		
	6	25.0	93.8	3.8		
	7	30.0	93.8	0.0		
C	8	31.2	91.7	-2.1		
			FIRST CLOSED-IN			
C	1	0.0	91.7			
	2	4.0	269.3	177.6	3.5	0.949
	3	8.0	307.6	215.9	6.4	0.689
	4	12.0	321.1	229.4	8.7	0.556
	5	16.0	332.0	240.3	10.6	0.470
	6	20.0	342.1	250.4	12.2	0.408
	7	24.0	351.9	260.2	13.6	0.361
	8	28.0	360.4	268.7	14.7	0.325
	9	32.0	369.5	277.8	15.8	0.296
	10	36.0	377.6	285.9	16.7	0.271
	11	40.0	385.8	294.1	17.5	0.250
	12	44.0	394.5	302.8	18.2	0.233
	13	48.0	402.0	310.2	18.9	0.217
	14	52.0	409.1	317.4	19.5	0.204
	15	56.0	417.2	325.5	20.0	0.192
D	16	59.8	423.4	331.6	20.5	0.182
			SECOND FLOW			
E	1	0.0	103.3			
	2	10.0	175.6	72.3		
	3	20.0	181.9	6.3		
	4	30.0	177.8	-4.1		
	5	40.0	182.8	5.0		
	6	50.0	177.9	-4.8		
F	7	59.1	168.3	-9.7		
			SECOND CLOSED-IN			
F	1	0.0	168.3			
	2	8.0	323.2	154.9	7.4	1.088
	3	16.0	336.4	168.1	13.6	0.823
	4	24.0	346.6	178.4	19.0	0.678
	5	32.0	357.1	188.8	23.6	0.582
	6	40.0	366.6	198.3	27.7	0.513
	7	48.0	377.5	209.2	31.3	0.459
	8	56.0	387.1	218.9	34.6	0.417
	9	64.0	397.7	229.4	37.4	0.382

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	10	72.0	408.0	239.7	40.1	0.353
	11	80.0	419.0	250.7	42.4	0.328
	12	88.0	430.4	262.1	44.6	0.307
	13	96.0	441.8	273.6	46.5	0.288
	14	104.0	453.7	285.5	48.3	0.271
	15	112.0	465.5	297.2	50.0	0.257
G	16	119.9	472.2	303.9	51.5	0.244

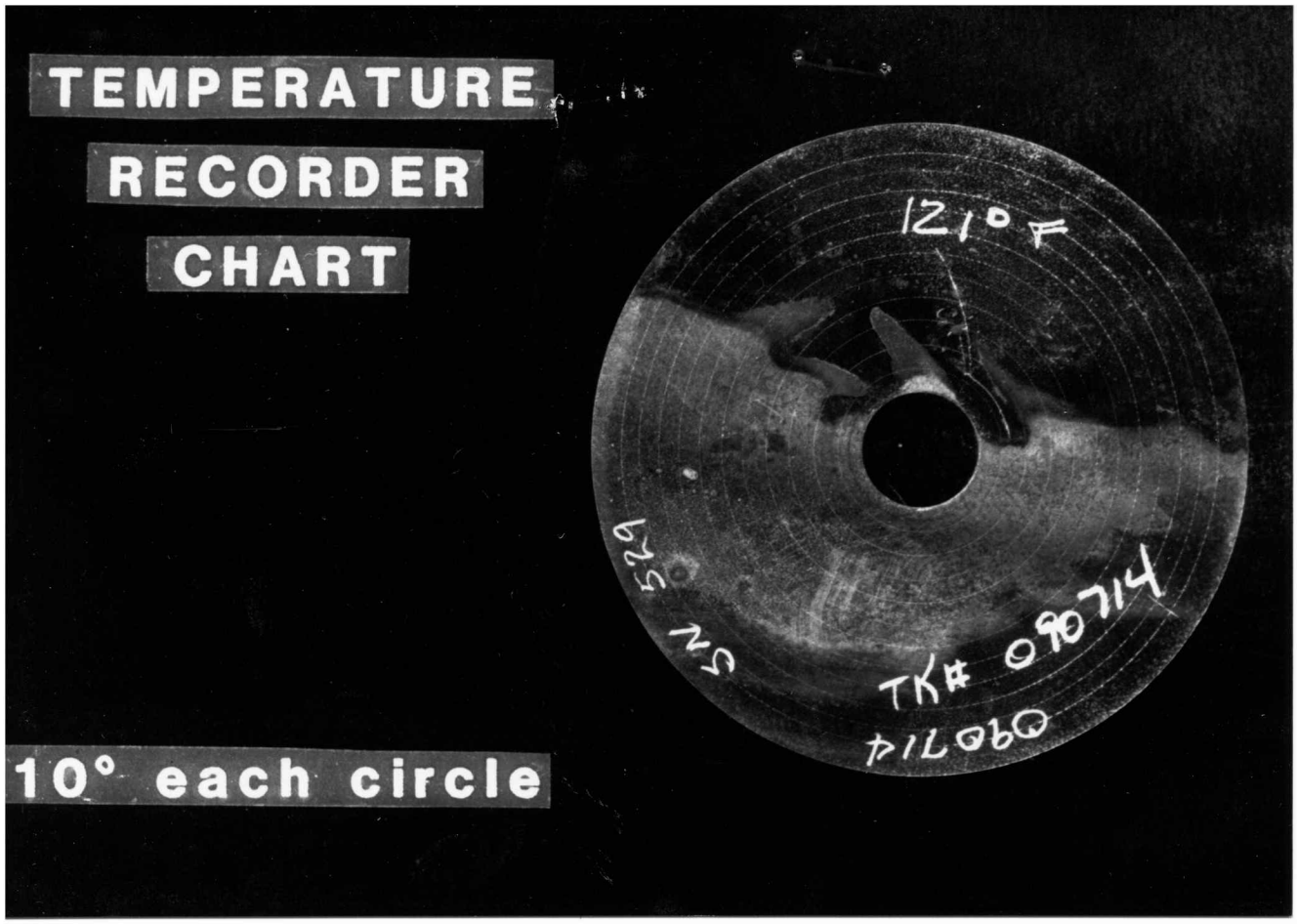
REMARKS:
READINGS FOR FIRST FLOW PERIOD MAY BE QUESTIONABLE.

TICKET NO. 09071400

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	5457.3	
3	DRILL COLLARS.....	6.250	2.250	448.0	
50	IMPACT REVERSING SUB.....	6.000	2.250	1.0	5897.3
3	DRILL COLLARS.....	6.250	2.250	122.1	
5	CROSSOVER.....	6.000	2.250	1.0	
11	HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.826	4.8	
97	BUMPER SUB.....	6.250	2.250	8.0	
13	DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	6044.9
80	AP RUNNING CASE.....	5.000	2.250	4.1	6046.9
15	JAR.....	5.000	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	2.7	
70	OPEN HOLE PACKER.....	6.750	1.530	5.9	6061.6
5	CROSSOVER.....	6.000	2.250	1.0	
3	DRILL COLLARS.....	6.250	2.250	62.1	
5	CROSSOVER.....	6.000	2.250	1.0	
5	CROSSOVER.....	6.000	2.250	1.0	
20	FLUSH JOINT ANCHOR.....	5.000	2.370	16.0	
83	HT-500 TEMPERATURE CASE.....	5.000		1.0	6145.7
81	BLANKED-OFF RUNNING CASE.....	5.000		4.3	6147.0

TOTAL DEPTH 6150.0

EQUIPMENT DATA


TEMPERATURE
RECORDER
CHART
10° each circle
121°F
SN 529
TK# 090714
DILOG

THOMPSON	1-9	2	5230.0 - 5258.0	DONALD C. SLAWSON
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME

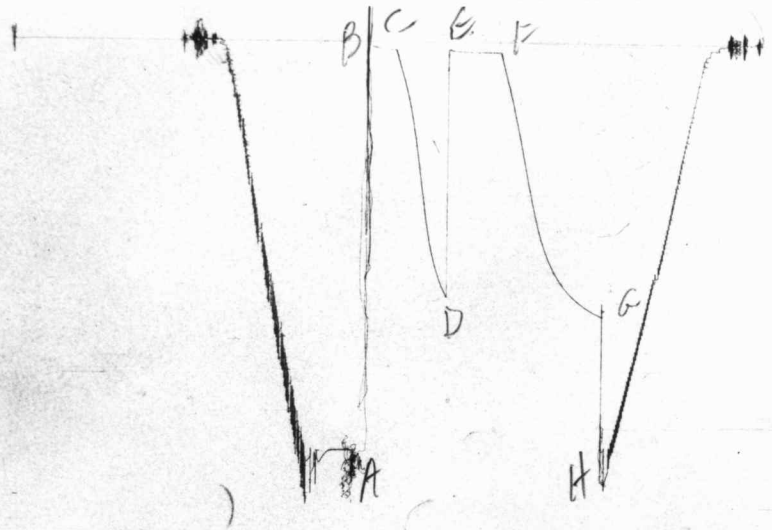
LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
9 35S 32W	LIBERAL LIGHT	SEWARD	KANSAS SM

C NW - SE

HALLIBURTON
SERVICES

TICKET NO. 35530600
10-JAN-86
LIBERAL

FORMATION TESTING SERVICE REPORT

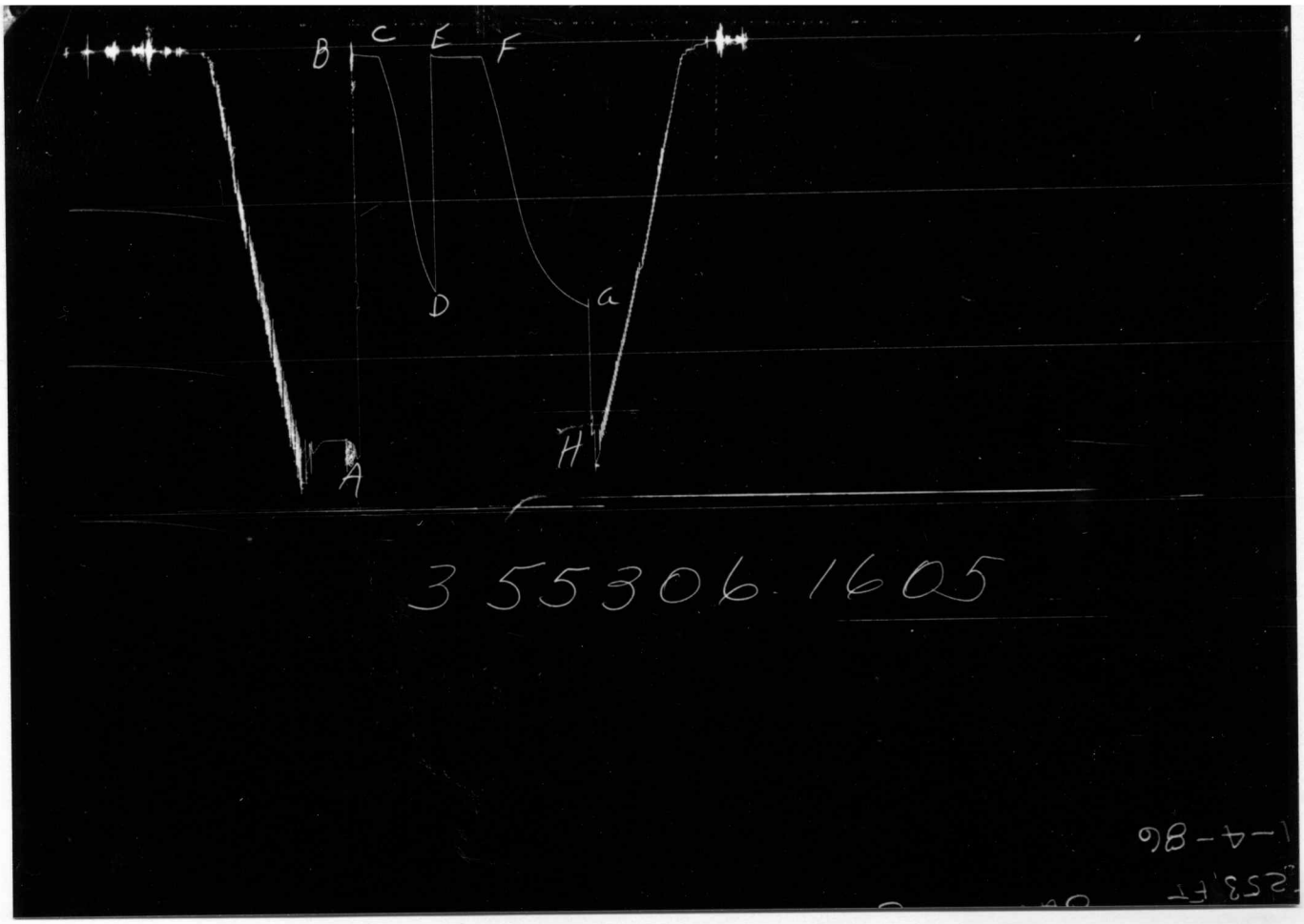


355306 - 1606

5214 FT OUT #2 (illegible)
1-4-86

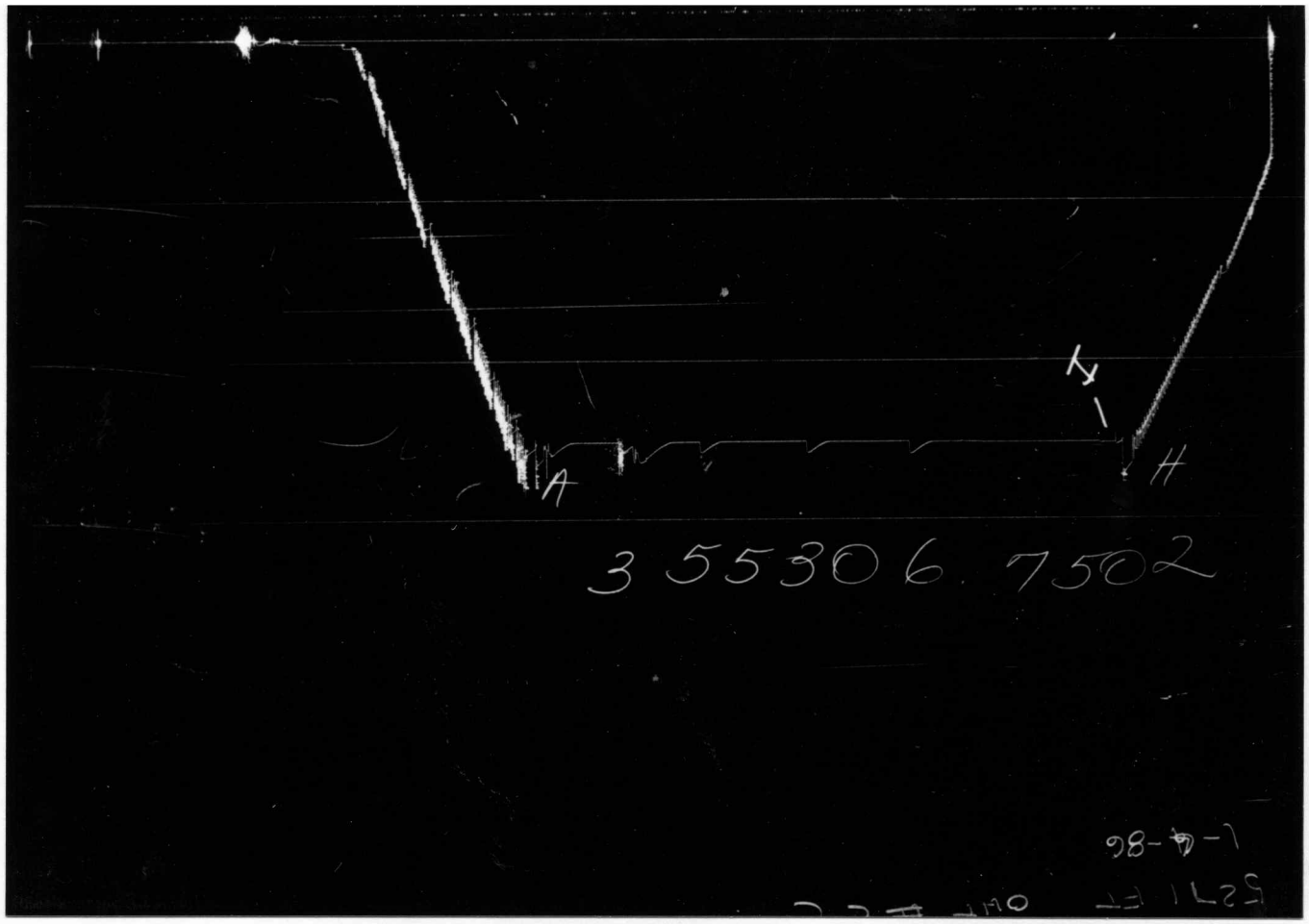
GAUGE NO: 1606 DEPTH: 5214.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2518	2510.6			
B	INITIAL FIRST FLOW	33	24.6	30.0	30.8	F
C	FINAL FIRST FLOW	66	49.1			
C	INITIAL FIRST CLOSED-IN	66	49.1	61.0	61.7	C
D	FINAL FIRST CLOSED-IN	1539	1566.9			
E	INITIAL SECOND FLOW	50	47.8	59.0	58.9	F
F	FINAL SECOND FLOW	66	63.7			
F	INITIAL SECOND CLOSED-IN	66	63.7	120.0	118.6	C
G	FINAL SECOND CLOSED-IN	1669	1679.9			
H	FINAL HYDROSTATIC	2551	2504.2			
I	HYDROSTATIC RELEASE					



GAUGE NO: 1605 DEPTH: 5253.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2626	2540.7			
B	INITIAL FIRST FLOW	67	55.8	30.0	30.8	F
C	FINAL FIRST FLOW	84	71.5			
C	INITIAL FIRST CLOSED-IN	84	71.5	61.0	61.7	C
D	FINAL FIRST CLOSED-IN	1614	1600.9			
E	INITIAL SECOND FLOW	67	65.5	59.0	58.9	F
F	FINAL SECOND FLOW	84	86.0			
F	INITIAL SECOND CLOSED-IN	84	86.0	120.0	118.6	C
G	FINAL SECOND CLOSED-IN	1679	1713.0			
H	FINAL HYDROSTATIC	2561	2520.8			
I	HYDROSTATIC RELEASE					



GAUGE NO: 7502 DEPTH: 5271.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2619.9			
B	INITIAL FIRST FLOW			30.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			61.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			59.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			120.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC		2580.0			
I	HYDROSTATIC RELEASE		2534.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MARMATON
NET PAY (ft):
GROSS TESTED FOOTAGE: 28.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 2757.0
TOTAL DEPTH (ft): 6300.0
PACKER DEPTH(S) (ft): 5230, 5258
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.00
MUD VISCOSITY (sec): 49
ESTIMATED HOLE TEMP. (°F): 115
ACTUAL HOLE TEMP. (°F): ___ @ _____ ft

TICKET NUMBER: 35530600

DATE: 1-4-86 TEST NO: 2

TYPE DST: OFF BTM STRADDLE

HALLIBURTON CAMP: LIBERAL

TESTER: MYRON HESTON

WITNESS: LEO BECK, W. FREDERICK

DRILLING CONTRACTOR: SLAWSON DRILLING #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
TOP	0.245 @	62 °F	9525 ppm
BOTTOM	0.187 @	62 °F	24062 ppm
SAMPLER	0.187 @	62 °F	24062 ppm
PIT	0.590 @	59 °F	6500 ppm
	@	°F	ppm
	@	°F	ppm

SAMPLER DATA

Psig AT SURFACE: 60.0
cu.ft. OF GAS: 0.062
cc OF OIL:
cc OF WATER:
cc OF MUD: 1890.0
TOTAL LIQUID cc: 1890.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ ___°F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

110 FEET OF DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 35530600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1-3-86					
2200					CALLED OUT, REQUESTED AT 0100
2345					ON LOCATION, BIT ON BOTTOM AND
					HOLE BEING CIRCULATED
1-4-86					
0030					RIG CREW STARTED OUT OF HOLE
					WITH BIT
0305					BIT IN TABLE
0320					STARTED PICKING UP TOOL
0420					TOOL MADE UP
0445					STARTED TOOL IN HOLE
0640					TOOL AT 5230', WAITED FOR
					DAYLIGHT
0730					STARTED SETTING HOOK
0736					HOOK SET, SET DOWN ON TOOL
0740					OPENED TOOL, BLOWING 1 1/2"
					DEEP IN 5 GALLON BUCKET OF
					WATER THRU 1/4" BUBBLE HOSE
0745					BLOW INCREASED TO 10" DEEP
0750					BLOWING OFF BOTTOM OF BUCKET
0810					STILL BLOWING OFF BOTTOM OF
					BUCKET
0911					OPENED TOOL, BLOWING 10" DEEP
0921					BLOWING OFF BOTTOM OF BUCKET,
					NO GAS TO THE SURFACE
0941					BLOWING OFF BOTTOM OF BUCKET,
					BLOW DECREASING
0951					BLOW INCREASED, NO GAS TO THE
					SURFACE
1001					BLOW STABILIZED
1010					BLOW STILL STABILIZED, NO GAS
					TO SURFACE, CLOSED TOOL FOR
					CLOSED IN PERIOD.
1210					PICKED UP AND OPENED BYPASS
1215					UNSET HOOK AND RIGGED DOWN
					SURFACE EQUIPMENT
1220					STARTED OUT OF HOLE

TYPE & SIZE MEASURING DEVICE: ______________________ | TICKET NO: 35530600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1430					TOOL IN TABLE
1515					TOOL BROKE AND LAID DOWN
1530					CHARTS READ, LOADED OUT TOOLS

TICKET NO: 35530600	GAUGE NO: 1606
CLOCK NO: 17532 HOUR: 24	DEPTH: 5214.0

HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	24.6			
	2	5.0	32.1	7.5		
	3	10.0	37.0	5.0		
	4	15.0	41.0	4.0		
	5	20.0	43.3	2.3		
	6	25.0	46.3	3.0		
C	7	30.8	49.1	2.8		
			FIRST CLOSED-IN			
C	1	0.0	49.1			
	2	5.0	128.3	79.1	4.3	0.855
	3	10.0	220.5	171.4	7.5	0.612
	4	15.0	327.6	278.5	10.1	0.484
	5	20.0	451.5	402.4	12.1	0.405
	6	25.0	617.0	567.9	13.8	0.349
	7	30.0	817.0	767.9	15.2	0.307
	8	35.0	1025.4	976.2	16.4	0.274
	9	40.0	1197.9	1148.8	17.4	0.248
	10	45.0	1325.2	1276.1	18.3	0.227
	11	50.0	1420.5	1371.4	19.1	0.209
	12	55.0	1494.2	1445.1	19.8	0.193
D	13	61.7	1566.9	1517.7	20.6	0.176
			SECOND FLOW			
E	1	0.0	47.8			
	2	10.0	58.6	10.8		
	3	20.0	61.4	2.8		
	4	30.0	62.9	1.5		
	5	40.0	63.1	0.2		
	6	50.0	63.1	0.0		
F	7	58.9	63.7	0.7		
			SECOND CLOSED-IN			
F	1	0.0	63.7			
	2	10.0	269.1	205.3	9.0	0.998
	3	20.0	506.6	442.9	16.3	0.739
	4	30.0	776.8	713.0	22.5	0.601
	5	40.0	1041.4	977.6	27.7	0.511
	6	50.0	1245.3	1181.6	32.1	0.446
	7	60.0	1378.8	1315.0	36.0	0.397
	8	70.0	1472.1	1408.4	39.3	0.358
	9	80.0	1538.4	1474.6	42.3	0.327
	10	90.0	1588.0	1524.3	44.9	0.300
	11	100.0	1627.6	1563.9	47.3	0.278
	12	110.0	1658.2	1594.5	49.4	0.259
G	13	118.6	1679.9	1616.2	51.1	0.245

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$

REMARKS:

TICKET NO: 35530600	GAUGE NO: 1605
CLOCK NO: 17529 HOUR: 24	DEPTH: 5253.0

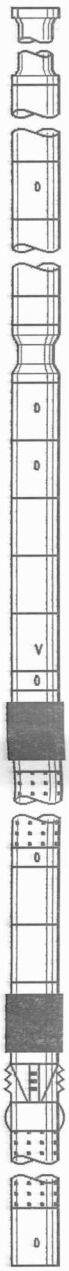
HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	55.8			
	2	5.0	55.8	0.0		
	3	10.0	59.8	4.0		
	4	15.0	62.9	3.0		
	5	20.0	65.7	2.8		
	6	25.0	67.9	2.2		
C	7	30.8	71.5	3.7		
			FIRST CLOSED-IN			
C	1	0.0	71.5			
	2	5.0	146.0	74.4	4.3	0.856
	3	10.0	240.8	169.3	7.5	0.611
	4	15.0	349.0	277.5	10.1	0.486
	5	20.0	481.3	409.8	12.1	0.405
	6	25.0	646.3	574.8	13.8	0.349
	7	30.0	846.0	774.5	15.2	0.307
	8	35.0	1053.4	981.9	16.4	0.275
	9	40.0	1233.9	1162.3	17.4	0.248
	10	45.0	1365.6	1294.1	18.3	0.226
	11	50.0	1459.7	1388.2	19.1	0.209
	12	55.0	1529.8	1458.2	19.8	0.193
D	13	61.7	1600.9	1529.4	20.6	0.176
			SECOND FLOW			
E	1	0.0	65.5			
	2	10.0	82.5	17.1		
	3	20.0	84.5	2.0		
	4	30.0	84.9	0.3		
	5	40.0	83.0	-1.8		
	6	50.0	84.5	1.5		
F	7	58.9	86.0	1.5		
			SECOND CLOSED-IN			
F	1	0.0	86.0			
	2	10.0	285.3	199.2	9.0	0.998
	3	20.0	524.6	438.6	16.4	0.738
	4	30.0	790.6	704.5	22.5	0.601
	5	40.0	1057.2	971.1	27.7	0.511
	6	50.0	1261.6	1175.6	32.1	0.446
	7	60.0	1400.2	1314.2	35.9	0.397
	8	70.0	1497.7	1411.6	39.3	0.358
	9	80.0	1568.0	1482.0	42.3	0.326
	10	90.0	1621.1	1535.1	44.9	0.300
	11	100.0	1660.6	1574.5	47.3	0.278
	12	110.0	1692.3	1606.3	49.4	0.259
G	13	118.6	1713.0	1627.0	51.1	0.245

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$

REMARKS:

TICKET NO. 35530600



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	5102.0	
3	DRILL COLLARS.....	6.250	2.250	31.0	
50	IMPACT REVERSING SUB.....	6.000	3.000	1.0	5134.0
3	DRILL COLLARS.....	6.250	2.250	61.0	
5	CROSSOVER.....	6.000	2.250	1.0	
11	HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.160	5.0	
13	DUAL CIP SAMPLER.....	5.030	0.750	7.0	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	5212.0
80	AP RUNNING CASE.....	5.000	2.250	4.0	5214.0
15	JAR.....	5.030	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	3.0	
17	PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	5230.0
20	FLUSH JOINT ANCHOR.....	5.000	2.370	13.0	
17	PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
22	BLANK ANCHOR.....	5.000	2.370	5.0	
80	AP RUNNING CASE.....	5.000	2.250	5.0	5253.0
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	5258.0
90	SIDE WALL ANCHOR.....	6.750	1.620	5.0	5264.0
20	FLUSH JOINT ANCHOR.....	5.000	2.370	3.0	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.0	5271.0

TOTAL DEPTH 6300.0

EQUIPMENT DATA

LEGAL LOCATION SEC. - TWP. - RNG.	LEASE NAME	WELL NO.	TEST NO.
SEC. 9 - 35 S - 32 W	THOMPSON	1-9	3

FIELD AREA	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
WILDCAT	5040.0 - 5066.0	DONALD C. SLAWSON

COUNTY	STATE
SEWARD	KANSAS

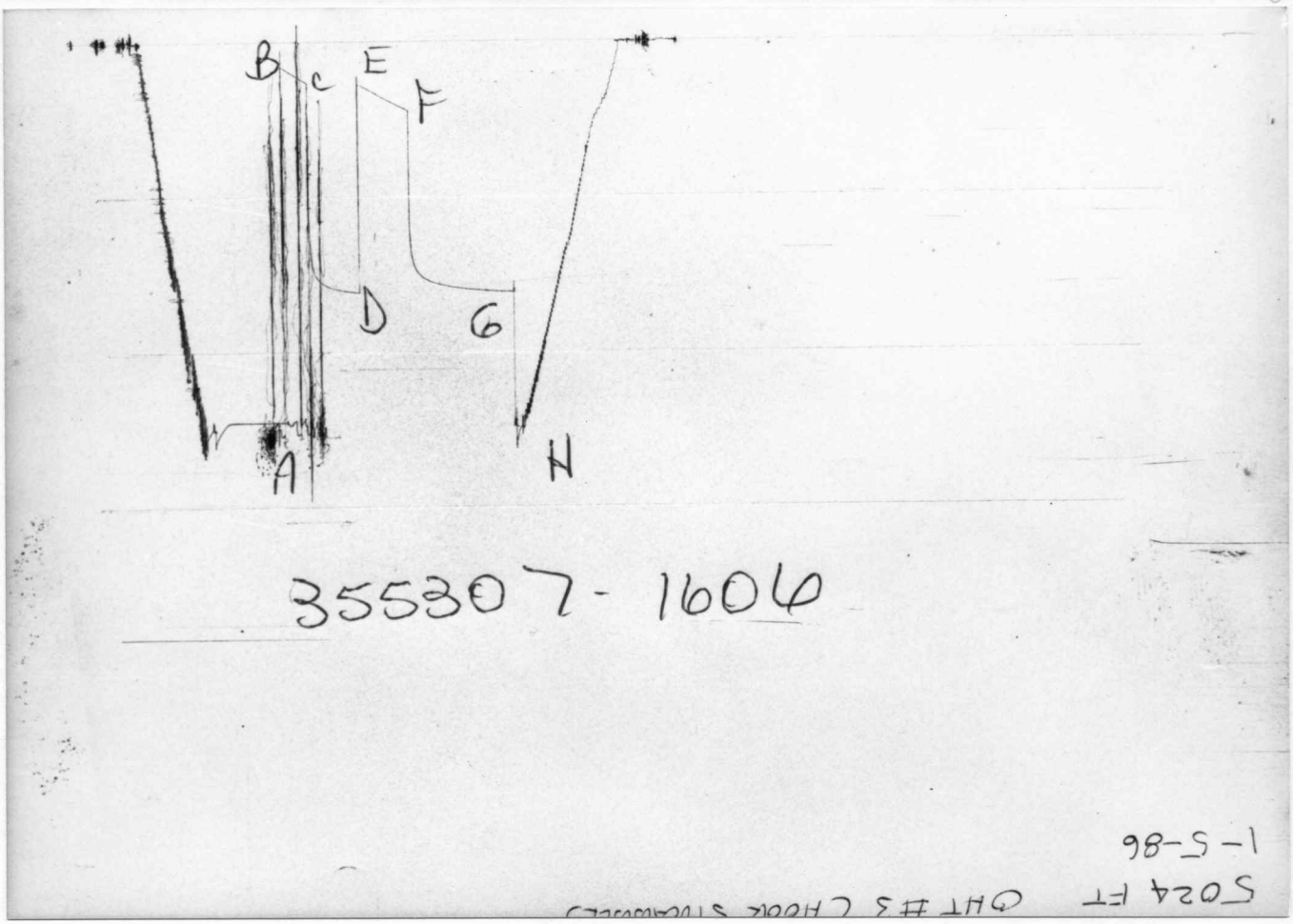
C NW - SE

HALLIBURTON
SERVICES

TICKET NO. 35530700
13-JAN-86
LIBERAL

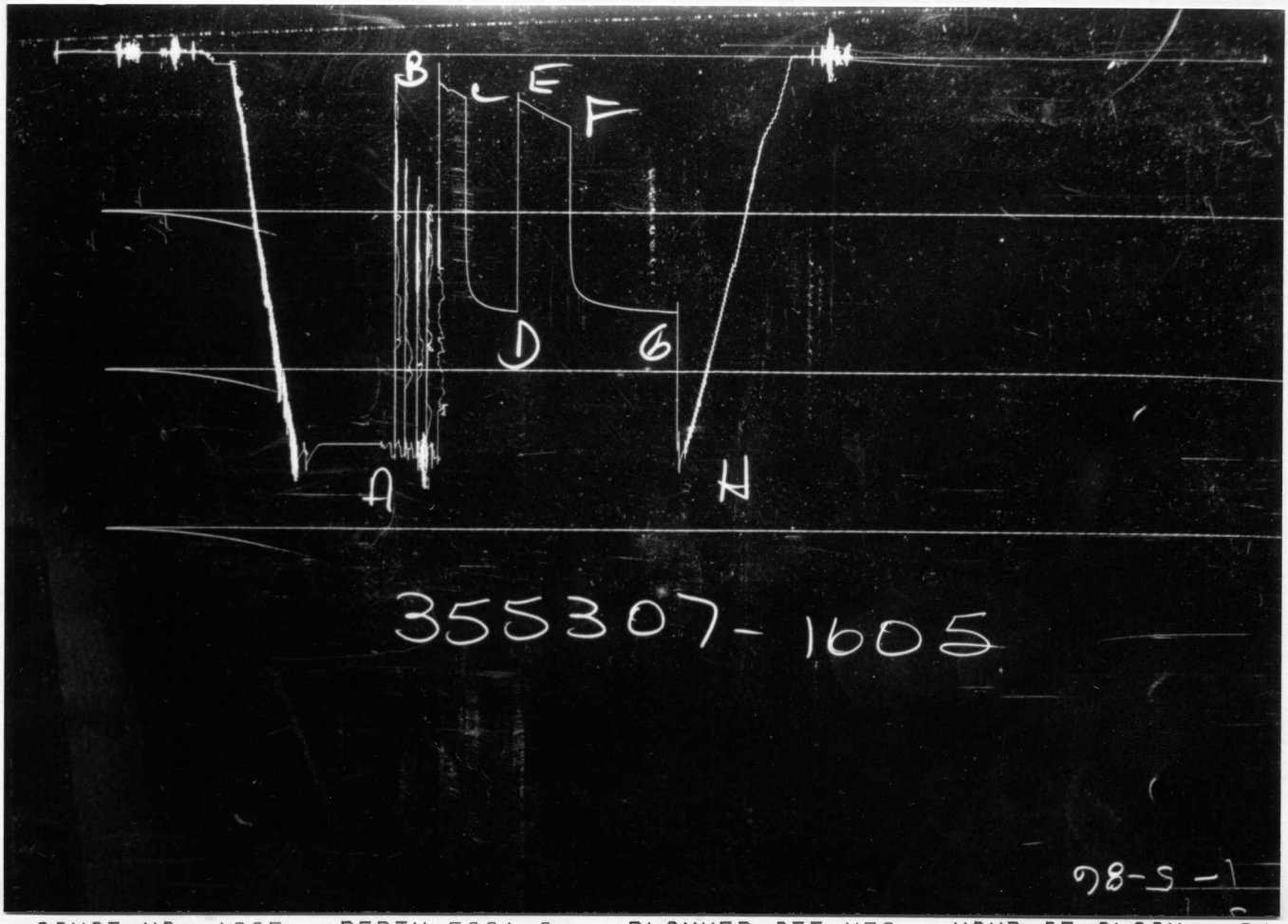
FORMATION TESTING SERVICE REPORT

PM



GAUGE NO: 1606 DEPTH: 5024.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2450.0			
B	INITIAL FIRST FLOW		160.8	30.0	30.7	F
C	FINAL FIRST FLOW		267.4			
C	INITIAL FIRST CLOSED-IN		267.4	61.0	60.7	C
D	FINAL FIRST CLOSED-IN		1617.5			
E	INITIAL SECOND FLOW		284.7	60.0	59.5	F
F	FINAL SECOND FLOW		450.6			
F	INITIAL SECOND CLOSED-IN		450.6	124.0	124.1	C
G	FINAL SECOND CLOSED-IN		1614.2			
H	FINAL HYDROSTATIC		2475.7			
I	HYDROSTATIC RELEASE					



GAUGE NO: 1605 DEPTH: 5061.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2463	2465.7			
B	INITIAL FIRST FLOW	167	175.9	30.0	30.7	F
C	FINAL FIRST FLOW	268	278.3			
C	INITIAL FIRST CLOSED-IN	268	278.3	61.0	60.7	C
D	FINAL FIRST CLOSED-IN	1614	1627.5			
E	INITIAL SECOND FLOW	234	294.2	60.0	59.5	F
F	FINAL SECOND FLOW	435	460.9			
F	INITIAL SECOND CLOSED-IN	435	460.9	124.0	124.1	C
G	FINAL SECOND CLOSED-IN	1614	1626.7			
H	FINAL HYDROSTATIC	2463	2486.6			
I	HYDROSTATIC RELEASE					

GAUGE NO: 7502 DEPTH: 5079.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2474.5			
B	INITIAL FIRST FLOW			30.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			61.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			60.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			124.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC		2496.6			
I	HYDROSTATIC RELEASE		2243.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: HODGES
NET PAY (ft):
GROSS TESTED FOOTAGE: 26.0
ALL DEPTHS MEASURED FROM: KB
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 2757.0
TOTAL DEPTH (ft): 6300.0
PACKER DEPTH(S) (ft): 5040, 5066
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.00
MUD VISCOSITY (sec): 60
ESTIMATED HOLE TEMP. (°F): 115
ACTUAL HOLE TEMP. (°F): ___ @ _____ ft

TICKET NUMBER: 35530700

DATE: 1-5-86 TEST NO: 3

TYPE DST: OFF BTM STRADDLE

HALLIBURTON CAMP:
LIBERAL

TESTER: MYRON E. HESTON

WITNESS: LEO BECK
WAYNE FREDERICK

DRILLING CONTRACTOR:
SLAWSON DRILLING #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
TOP	0.512 @ 62 °F	6016 ppm
MIDDLE	0.230 @ 64 °F	18548 ppm
BOTTOM	0.090 @ 59 °F	56146 ppm
SAMPLER	0.089 @ 61 °F	61660 ppm
PIT	0.510 @ 62 °F	6010 ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: 390.0
cu.ft. OF GAS:
cc OF OIL:
cc OF WATER: 2240.0
cc OF MUD:
TOTAL LIQUID cc: 2240.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ ___°F
GAS/OIL RATIO (cu.ft. per bbl): _____
GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

440 FEET OF DRILLING MUD
505 FEET OF SALTWATER

MEASURED FROM TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE: _____					TICKET NO: 35530700
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1-5-86					
2300					CALLED OUT - TEST READY 0100
1-6-86					
0010					ON LOCATION - HOLE BEING
					CIRCULATED.
0030					STARTED OUT OF HOLE WITH BIT
0245					BIT IN TABLE
0305					STARTED PICKING UP TOOL
0400					TOOL MADE UP
0430					STARTED TOOL IN HOLE
0600					TOOL AT 5056' - HOOKED UP
					SURFACE EQUIPMENT AND WAITED
					FOR DAYLIGHT.
0742					SET HOOK AND SET DOWN ON TOOL
0746					OPENED TOOL - ANNULUS FLUID
					DROPPED - PICKED UP TOOL.
0753					MOVED TOOL TO 5034' - 5060' AND
					SET HOOK.
0757					OPEEND TOOL - ANNULUS FLUID
					DROPPED - PICKED UP ON TOOL.
0807					MOVED TOOL TO 5032' - 5058' AND
					SET HOOK.
0811					OPENED TOOL - ANNULUS FLUID
					DROPPED - PICKED UP ON TOOL.
0818					MOVED TOOL TO 5038' - 5064' AND
					SET HOOK.
0822					OPENED TOOL - ANNULUS FLUID
					DROPPED - PICKED UP ON TOOL.
0831					MOVED TOOL TO 5040' - 5066' AND
					SET HOOK.
0835					OPENED TOOL - ANNULUS REMAINED
					FULL - BLOWING 3" DEEP IN A
					5 GALLON BUCKET OF WATER THROUGH
					A 1/4" BUBBLE HOSE.
0840					BLOW INCREASED TO 4" DEEP
0845					BLOW INCREASED TO 6" DEEP
0850					BLOW INCREASED TO 8" DEEP

TYPE & SIZE MEASURING DEVICE:					TICKET NO: 35530700
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
0855					BLOW INCREASED TO 10" DEEP
0900					BLOWING OFF BOTTOM OF BUCKET
0905					BLOWING OFF BOTTOM OF BUCKET
					NO GAS TO SURFACE - CLOSED TOOL
1006					OPENED TOOL - BLOWING 1/2" DEEP
1016					BLOW INCREASED TO 1" DEEP
1046					BLOW STILL AT 1" DEEP - NO
					GAS TO SURFACE.
1056					BLOW DECREASED TO 3/4" DEEP
1106					BLOW DECREASED TO 1/2" DEEP -
					NO GAS TO SURFACE - CLOSED
					TOOL FOR FINAL CLOSED-IN.
1310					PICKED-UP AND OPENED BYPASS
1312					PICKED-UP, TOOL FREE - LET
					PIPE DOWN AND RIGGED DOWN
					SURFACE EQUIPMENT.
1320					STARTED OUT OF HOLE WITH TOOL
1540					TOOL IN TABLE
1620					TOOL BROKE DOWN - READ CHARTS
					AND LOADED OUT.

TICKET NO: 35530700	GAUGE NO: 1606
CLOCK NO: 17532 HOUR: 24	DEPTH: 5024.0

HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	160.8			
	2	5.0	176.6	15.7		
	3	10.0	195.0	18.4		
	4	15.0	211.5	16.6		
	5	20.0	230.8	19.2		
	6	25.0	247.6	16.9		
C	7	30.7	267.4	19.7		
			FIRST CLOSED-IN			
C	1	0.0	267.4			
	2	4.0	1425.1	1157.7	3.6	0.935
	3	8.0	1502.1	1234.7	6.4	0.684
	4	12.0	1534.2	1266.8	8.6	0.553
	5	16.0	1554.4	1287.0	10.5	0.466
	6	20.0	1567.6	1300.2	12.1	0.404
	7	24.0	1578.4	1311.0	13.5	0.358
	8	28.0	1586.7	1319.3	14.6	0.322
	9	32.0	1594.0	1326.6	15.7	0.292
	10	36.0	1598.6	1331.2	16.6	0.268
	11	40.0	1602.8	1335.4	17.4	0.247
	12	44.0	1606.5	1339.2	18.1	0.230
	13	48.0	1610.1	1342.8	18.7	0.215
	14	52.0	1612.7	1345.4	19.3	0.201
	15	56.0	1615.3	1348.0	19.8	0.190
D	16	60.7	1617.5	1350.1	20.4	0.178
			SECOND FLOW			
E	1	0.0	284.7			
	2	10.0	306.2	21.5		
	3	20.0	337.7	31.5		
	4	30.0	368.2	30.5		
	5	40.0	396.6	28.3		
	6	50.0	424.1	27.5		
F	7	59.5	450.6	26.5		
			SECOND CLOSED-IN			
F	1	0.0	450.6			
	2	8.0	1469.4	1018.8	7.4	1.089
	3	16.0	1519.0	1068.4	13.6	0.822
	4	24.0	1543.1	1092.5	19.0	0.678
	5	32.0	1559.8	1109.2	23.6	0.582
	6	40.0	1569.5	1118.9	27.7	0.512
	7	48.0	1578.7	1128.1	31.3	0.459
	8	56.0	1585.8	1135.3	34.5	0.417
	9	64.0	1592.4	1141.8	37.4	0.382
	10	72.0	1597.3	1146.7	40.0	0.353

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	11	80.0	1601.5	1150.9	42.4	0.328
	12	88.0	1605.4	1154.8	44.5	0.307
	13	96.0	1607.8	1157.3	46.5	0.288
	14	104.0	1611.1	1160.5	48.3	0.271
	15	112.0	1613.4	1162.8	50.0	0.257
	16	120.0	1614.4	1163.8	51.5	0.244
G	17	124.1	1614.2	1163.6	52.2	0.237

REMARKS:

TICKET NO: 35530700	GAUGE NO: 1605
CLOCK NO: 17529 HOUR: 24	DEPTH: 5061.0

HALLIBURTON SERVICES

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			FIRST FLOW			
B	1	0.0	175.9			
	2	5.0	207.2	31.3		
	3	10.0	233.7	26.4		
	4	15.0	228.6	-5.0		
	5	20.0	243.7	15.1		
	6	25.0	261.1	17.4		
C	7	30.7	278.3	17.2		
			FIRST CLOSED-IN			
C	1	0.0	278.3			
	2	4.0	1434.8	1156.4	3.6	0.934
	3	8.0	1512.2	1233.9	6.3	0.685
	4	12.0	1544.8	1266.5	8.7	0.550
	5	16.0	1564.7	1286.4	10.5	0.465
	6	20.0	1580.0	1301.7	12.1	0.404
	7	24.0	1592.4	1314.1	13.5	0.358
	8	28.0	1601.1	1322.7	14.6	0.322
	9	32.0	1606.4	1328.1	15.7	0.292
	10	36.0	1611.2	1332.8	16.6	0.268
	11	40.0	1614.8	1336.4	17.4	0.247
	12	44.0	1618.7	1340.3	18.1	0.230
	13	48.0	1620.9	1342.6	18.7	0.215
	14	52.0	1624.4	1346.0	19.3	0.202
	15	56.0	1625.8	1347.5	19.8	0.190
D	16	60.7	1627.5	1349.1	20.4	0.178
			SECOND FLOW			
E	1	0.0	294.2			
	2	10.0	314.3	20.1		
	3	20.0	347.7	33.5		
	4	30.0	378.9	31.1		
	5	40.0	408.3	29.5		
	6	50.0	435.0	26.6		
F	7	59.5	460.9	25.9		
			SECOND CLOSED-IN			
F	1	0.0	460.9			
	2	8.0	1480.0	1019.1	7.3	1.089
	3	16.0	1531.1	1070.2	13.6	0.822
	4	24.0	1556.2	1095.3	19.0	0.677
	5	32.0	1571.2	1110.3	23.6	0.582
	6	40.0	1582.5	1121.6	27.7	0.513
	7	48.0	1590.8	1129.9	31.3	0.459
	8	56.0	1598.3	1137.4	34.6	0.417
	9	64.0	1604.8	1143.9	37.4	0.382
	10	72.0	1609.0	1148.1	40.0	0.353

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	11	80.0	1612.8	1151.9	42.4	0.328
	12	88.0	1616.1	1155.2	44.6	0.306
	13	96.0	1618.5	1157.6	46.5	0.288
	14	104.0	1621.6	1160.7	48.3	0.271
	15	112.0	1624.4	1163.5	50.0	0.257
	16	120.0	1626.3	1165.4	51.5	0.243
G	17	124.1	1626.7	1165.8	52.2	0.237

REMARKS:

TICKET NO. 35530700

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	4911.0	
3	DRILL COLLARS.....	6.250	2.250	31.0	
50	IMPACT REVERSING SUB.....	6.000	3.000	1.0	4943.0
3	DRILL COLLARS.....	6.250	2.250	62.0	
5	CROSSOVER.....	6.000	2.250	1.0	
11	HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.160	5.0	
13	DUAL CIP SAMPLER.....	5.030	0.750	7.0	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	5022.0
80	AP RUNNING CASE.....	5.000	2.250	4.0	5024.0
15	JAR.....	5.030	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	3.0	
17	PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	5040.0
20	FLUSH JOINT ANCHOR.....	5.000	2.370	11.0	
17	PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
22	BLANK ANCHOR.....	5.000	2.370	5.0	
80	AP RUNNING CASE.....	5.000	2.250	5.0	5061.0
70	OPEN HOLE PACKER.....	6.750	1.530	6.0	5066.0
90	SIDE WALL ANCHOR.....	6.750	1.620	5.0	5072.0
20	FLUSH JOINT ANCHOR.....	5.000	2.370	3.0	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.0	5079.0
	TOTAL DEPTH				6300.0

EQUIPMENT DATA