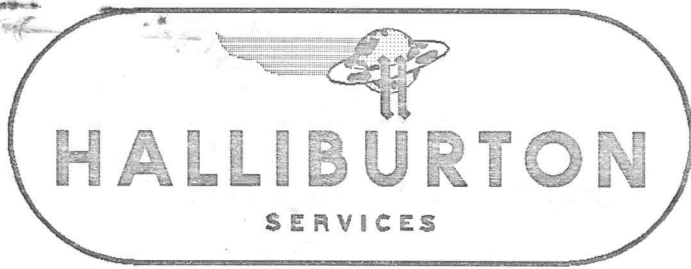
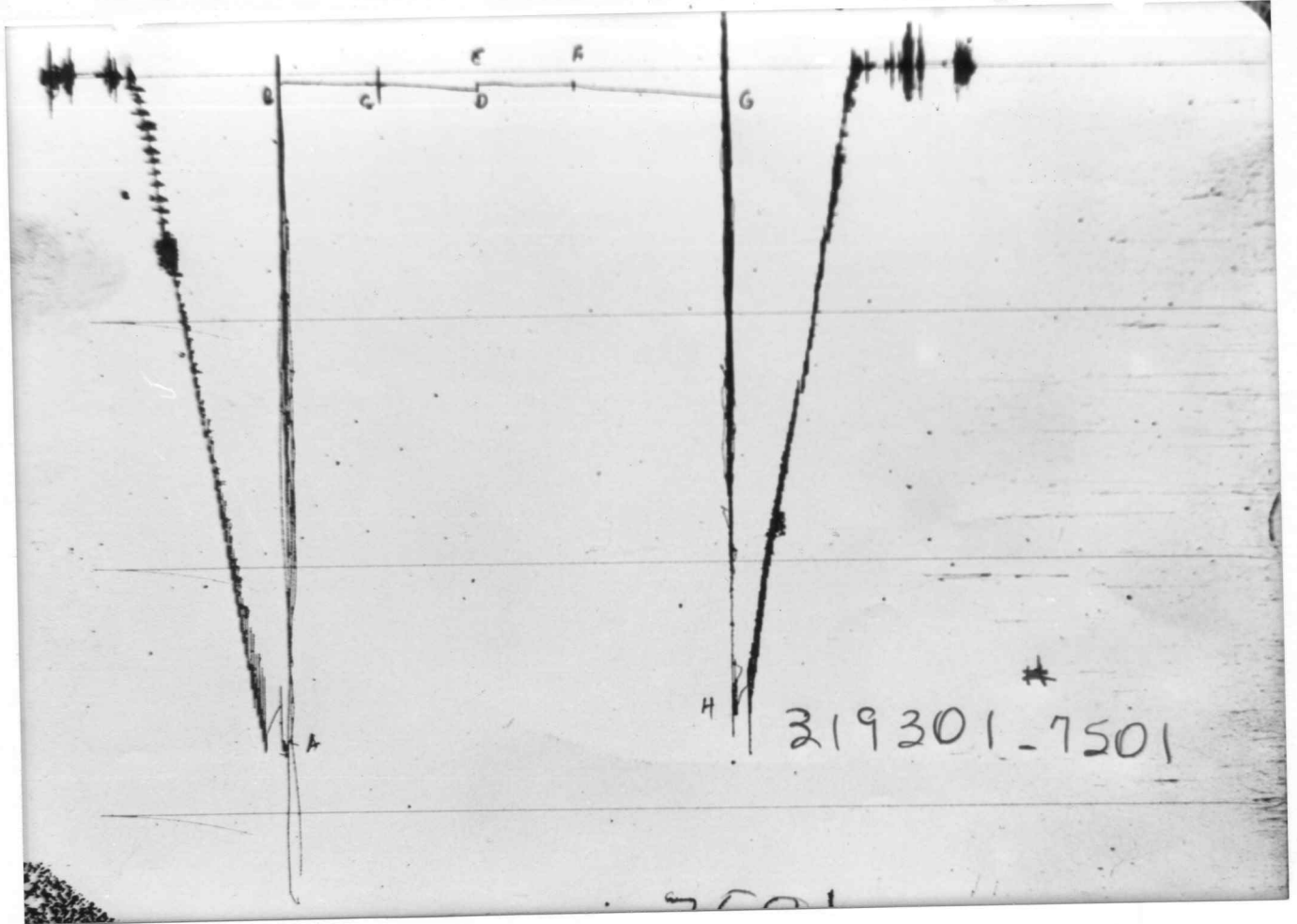


LEGAL LOCATION SEC. - TWP. - RMC.	26-30-18	FIELD AREA	COUNTY	KIOWA	STATE	KANSAS	BM/IC
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME			
ALTON UNRUH	3	2	4986. - 5050.	THE MAURICE L. BROWN COMPANY			



TICKET NO. 31930100  
05-APR-82

# FORMATION TESTING SERVICE REPORT

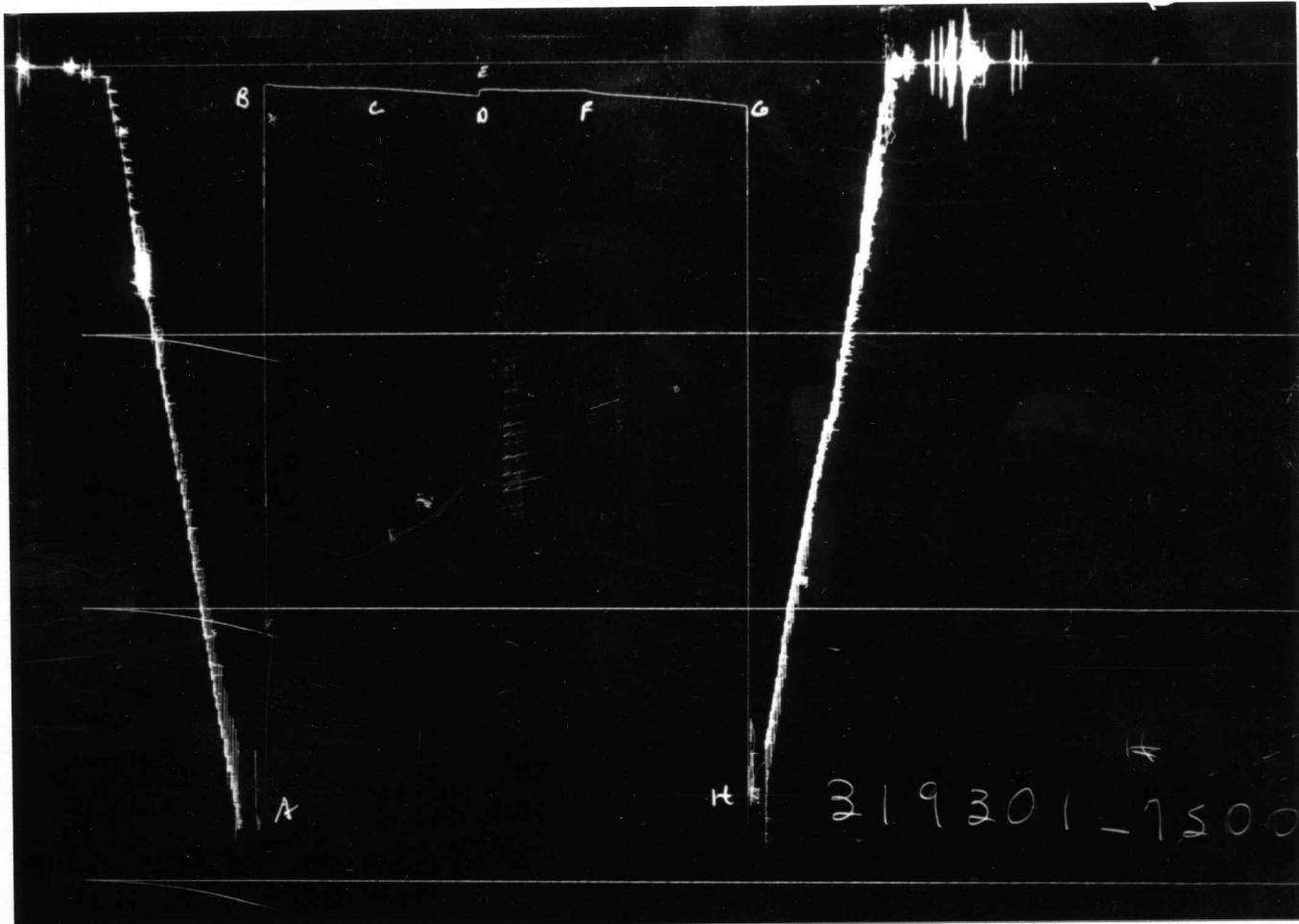


GAUGE NO: 7501

DEPTH: 4965.0

BLANKED OFF: NO

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2557.2			
B	INITIAL FIRST FLOW		48.6			
C	FINAL FIRST FLOW		46.2	60.0	60.0	F
C	INITIAL FIRST CLOSED-IN		46.2	60.0	60.0	C
D	FINAL FIRST CLOSED-IN		75.1			
E	INITIAL SECOND FLOW		51.5			
F	FINAL SECOND FLOW		58.5	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN		58.5	90.0	90.0	C
G	FINAL SECOND CLOSED-IN		116.3			
H	FINAL HYDROSTATIC		2504.1			



GAUGE NO: 7500

DEPTH: 5047.0

BLANKED OFF: YES

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2609.8			
B	INITIAL FIRST FLOW		84.2			
C	FINAL FIRST FLOW		91.6	60.0	60.0	F
C	INITIAL FIRST CLOSED-IN		91.6	60.0	60.0	C
D	FINAL FIRST CLOSED-IN		123.6			
E	INITIAL SECOND FLOW		111.5			
F	FINAL SECOND FLOW		105.6	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN		105.6	90.0	90.0	C
G	FINAL SECOND CLOSED-IN		164.2			
H	FINAL HYDROSTATIC		2559.6			

## EQUIPMENT & HOLE DATA

TICKET NUMBER: 31930100

FORMATION TESTED: MISSISSIPPI

DATE: 3-27-82 TEST NO: 2

NET PAY (ft): 7.0

GROSS TESTED FOOTAGE: 64.0

TYPE DST: OPEN HOLE

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): \_\_\_\_\_

HALLIBURTON CAMP:  
PRATT

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 2172

TOTAL DEPTH (ft): 5050.0

TESTER: PARKER

PACKER DEPTH(S) (ft): 4980, 4986

FINAL SURFACE CHOKE (in): 1.000

BOTTOM HOLE CHOKE (in): 0.750

WITNESS: PALMER

MUD WEIGHT (lb/gal): \_\_\_\_\_

MUD VISCOSITY (sec): \_\_\_\_\_

ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_

DRILLING CONTRACTOR:  
ABERCROMBIE DRILLING COMPANY

ACTUAL HOLE TEMP. (°F): 100 @ 5045.0 ft

### FLUID PROPERTIES FOR RECOVERED MUD & WATER

### SAMPLER DATA

SOURCE	RESISTIVITY	CHLORIDES	
_____	_____ @ _____°F	_____ ppm	
_____	_____ @ _____°F	_____ ppm	
_____	_____ @ _____°F	_____ ppm	
_____	_____ @ _____°F	_____ ppm	
_____	_____ @ _____°F	_____ ppm	
_____	_____ @ _____°F	_____ ppm	

Psig AT SURFACE: \_\_\_\_\_  
 cu.ft. OF GAS: \_\_\_\_\_  
 cc OF OIL: \_\_\_\_\_  
 cc OF WATER: \_\_\_\_\_  
 cc OF MUD: \_\_\_\_\_  
 TOTAL LIQUID cc: \_\_\_\_\_

### HYDROCARBON PROPERTIES

### CUSHION DATA

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

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____



















### RECOVERED:

100 FEET OF DRILLING MUD

MEASURED FROM TESTER VALVE

### REMARKS:



		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4591.0	
4		FLEX WEIGHT.....	4.500	2.764	180.0	
50		IMPACT REVERSING SUB.....	6.000	2.250	1.0	4771.0
4		FLEX WEIGHT.....	4.500	2.764	180.0	
5		CROSSOVER.....	6.000	2.250	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4963.0
80		AP RUNNING CASE.....	5.000	3.060	4.0	4965.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4980.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4986.0
5		CROSSOVER.....	6.000	2.250	1.0	
4		FLEX WEIGHT.....	4.500	2.764	32.0	
5		CROSSOVER.....	6.000	2.250	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	23.0	
83		HT-500 TEMPERATURE CASE.....	5.000	2.440	1.0	5045.0
81		BLANKED-OFF RUNNING CASE.....	5.000	2.440	4.0	5047.0
TOTAL DEPTH					5050.0	

EQUIPMENT DATA