



HALLIBURTON SERVICES

TICKET NO. 62253800

28-DEC-87

PRATT

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

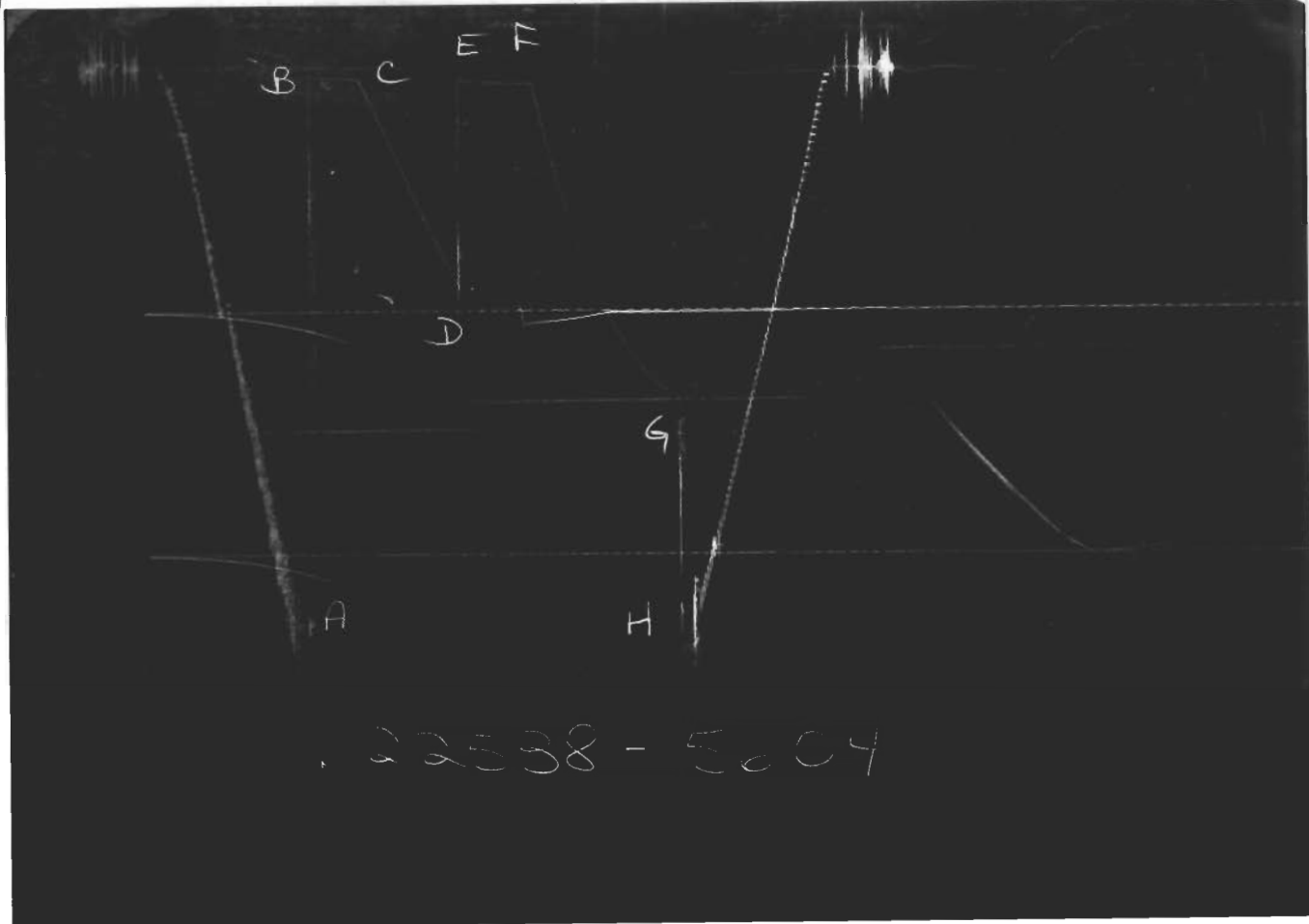
FORMATION TESTING SERVICE REPORT

JAN 25 1988

COMPANY INFORMATION	KENDALL		1	2	4656.0 - 4690.0	RAMCO DRILLING SERVICES, INCORPORATED
LEASE NAME			WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	35 - 27 - 17		FIELD AREA	COUNTY	KIOWA	STATE KANSAS PF

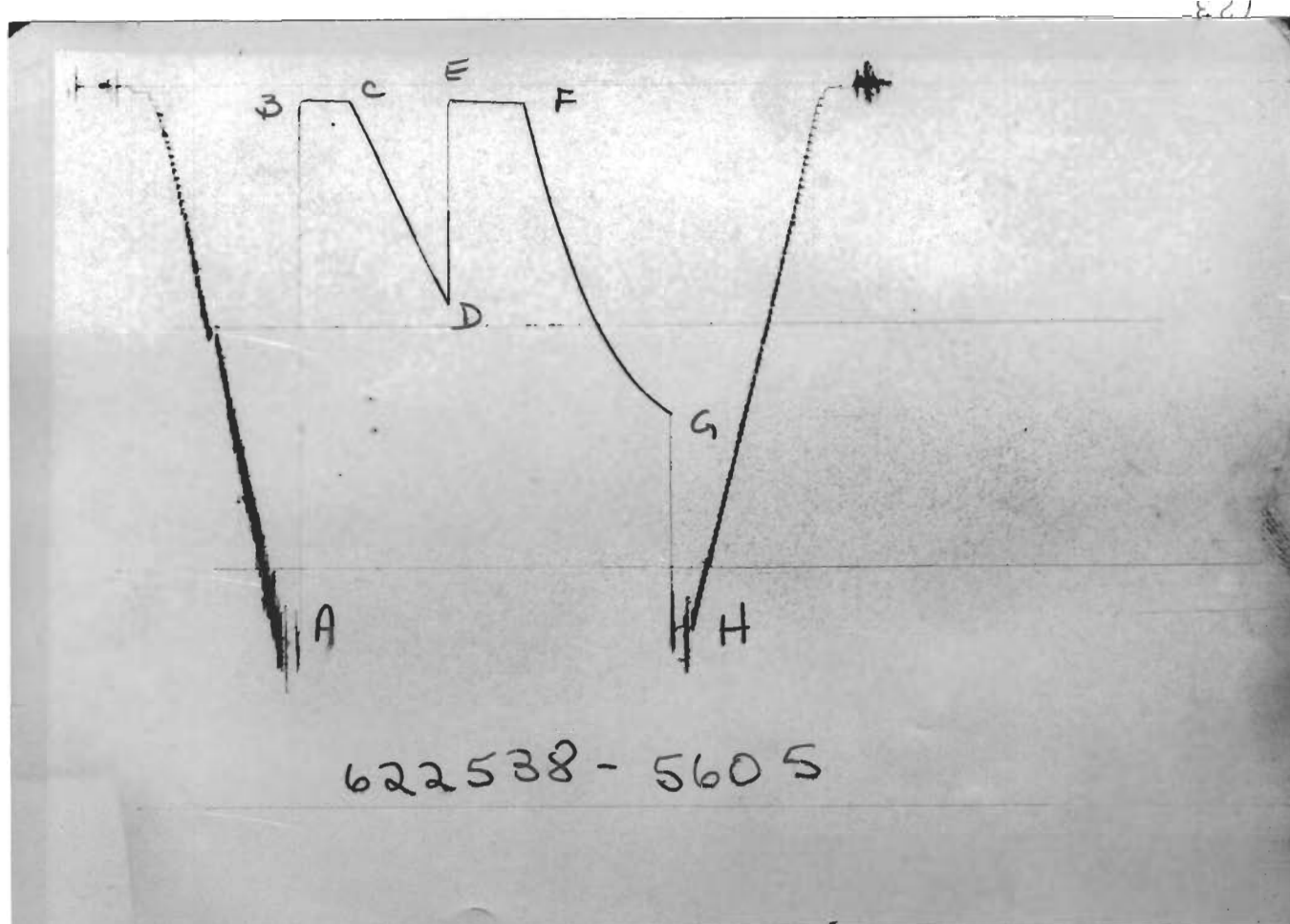
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GAUGE NO: 5604 DEPTH: 4635.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2278	2210.4			
B	INITIAL FIRST FLOW	51	38.7			
C	FINAL FIRST FLOW	51	47.2	30.0	29.8	F
C	INITIAL FIRST CLOSED-IN	51	47.2			
D	FINAL FIRST CLOSED-IN	911	888.7	60.0	61.3	C
E	INITIAL SECOND FLOW	82	44.3			
F	FINAL SECOND FLOW	82	64.9	45.0	44.5	F
F	INITIAL SECOND CLOSED-IN	82	64.9			
G	FINAL SECOND CLOSED-IN	1351	1349.5	90.0	89.4	C
H	FINAL HYDROSTATIC	2268	2214.4			



GAUGE NO: 5605 DEPTH: 4687.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2235.6			
B	INITIAL FIRST FLOW		72.5			
C	FINAL FIRST FLOW		66.4	30.0	29.8	F
C	INITIAL FIRST CLOSED-IN		66.4			
D	FINAL FIRST CLOSED-IN		904.7	60.0	61.3	C
E	INITIAL SECOND FLOW		63.3			
F	FINAL SECOND FLOW		77.0	45.0	44.5	F
F	INITIAL SECOND CLOSED-IN		77.0			
G	FINAL SECOND CLOSED-IN		1357.0	90.0	89.4	C
H	FINAL HYDROSTATIC		2240.7			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 34.0ALL DEPTHS MEASURED FROM: KB

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875ELEVATION (ft): 2133.0 KBTOTAL DEPTH (ft): 4690.0PACKER DEPTH(S) (ft): 4656. 4656

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750MUD WEIGHT (lb/gal): 9.10MUD VISCOSITY (sec): 42ESTIMATED HOLE TEMP. (°F): 117ACTUAL HOLE TEMP. (°F): 120 @ 4685.0 ftTICKET NUMBER: 62253800DATE: 12-19-87 TEST NO: 2TYPE DST: OPEN HOLEHALLIBURTON CAMP:
PRATTTESTER: DON PARADISWITNESS: SCOTT ALBERGDRILLING CONTRACTOR:
RED TIGER DRILLINGFLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

<u>PIT</u>	<u> </u> @ <u> </u> °F	<u>10000</u> ppm
<u>TOP OF TOOL</u>	<u> </u> @ <u> </u> °F	<u>10000</u> ppm
<u> </u>	<u> </u> @ <u> </u> °F	<u> </u> ppm
<u> </u>	<u> </u> @ <u> </u> °F	<u> </u> ppm
<u> </u>	<u> </u> @ <u> </u> °F	<u> </u> ppm
<u> </u>	<u> </u> @ <u> </u> °F	<u> </u> ppm

SAMPLER DATA

P_{sig} AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

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

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

120 FEET OF MUD

MEASURED FROM
TESTER VALVE

REMARKS :

TICKET NO : 62253800

CLOCK NO : 6947 HOUR : 12



GAUGE NO : 5604

DEPTH : 4635.0

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

B	1	0.0	38.7		
	2	5.0	40.2	1.5	
	3	10.0	42.5	2.3	
	4	15.0	43.9	1.4	
	5	20.0	45.3	1.4	
	6	25.0	46.4	1.0	
C	7	29.8	47.2	0.8	

FIRST CLOSED-IN

C	1	0.0	47.2		
	2	5.0	108.3	61.1	4.3 0.845
	3	10.0	174.5	127.3	7.5 0.602
	4	15.0	246.8	199.6	10.0 0.476
	5	20.0	319.3	272.1	12.0 0.397
	6	25.0	394.0	346.8	13.6 0.341
	7	30.0	469.1	422.0	14.9 0.300
	8	35.0	545.1	497.9	16.1 0.267
	9	40.0	616.6	569.4	17.1 0.242
	10	45.0	681.0	633.8	17.9 0.221
	11	50.0	748.3	701.1	18.7 0.203
	12	55.0	812.8	765.6	19.3 0.188
	13	60.0	877.2	830.0	19.9 0.175
D	14	61.3	888.7	841.5	20.1 0.172

SECOND FLOW

E	1	0.0	44.3		
	2	5.0	58.1	13.8	
	3	10.0	60.1	1.9	
	4	15.0	61.1	1.0	
	5	20.0	61.6	0.5	
	6	25.0	62.4	0.7	
	7	30.0	64.3	1.9	
	8	35.0	64.3	0.0	
	9	40.0	64.3	0.0	
F	10	44.5	64.9	0.6	

SECOND CLOSED-IN

F	1	0.0	64.9		
	2	5.0	199.0	134.1	4.7 1.203
	3	10.0	326.6	261.7	8.8 0.926
	4	15.0	449.9	385.0	12.5 0.774
	5	20.0	561.7	496.8	15.8 0.674
	6	25.0	668.5	603.6	18.7 0.599
	7	30.0	761.2	696.2	21.4 0.541
	8	35.0	846.4	781.5	23.8 0.495
	9	40.0	920.6	855.7	26.0 0.456

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
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SECOND CLOSED-IN - CONTINUED

	10	45.0	988.5	923.6	28.0 0.424
	11	50.0	1052.4	987.5	29.9 0.386
	12	55.0	1108.7	1043.8	31.6 0.372
	13	60.0	1159.1	1094.2	33.2 0.350
	14	65.0	1203.9	1139.0	34.7 0.331
	15	70.0	1243.7	1178.8	36.1 0.314
	16	75.0	1277.2	1212.3	37.3 0.299
	17	80.0	1307.1	1242.2	38.5 0.286
	18	85.0	1331.3	1266.4	39.7 0.273
G	19	89.4	1349.5	1284.6	40.6 0.263

REMARKS :

TICKET NO: 62253800

GAUGE NO: 5605

CLOCK NO: 26864 HOUR: 12

DEPTH: 4687.0



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

B	1	0.0	72.5		
	2	5.0	61.9	-10.5	
	3	10.0	63.1	1.1	
	4	15.0	64.4	1.3	
	5	20.0	65.0	0.6	
	6	25.0	66.0	1.0	
C	7	29.8	66.4	0.4	

FIRST CLOSED-IN

C	1	0.0	66.4		
	2	5.0	121.6	55.2	4.3 0.843
	3	10.0	190.8	124.4	7.5 0.599
	4	15.0	257.7	191.3	10.0 0.476
	5	20.0	334.3	267.9	12.0 0.396
	6	25.0	407.7	341.3	13.6 0.341
	7	30.0	480.3	413.9	15.0 0.299
	8	35.0	551.4	485.0	16.1 0.267
	9	40.0	626.1	559.7	17.1 0.242
	10	45.0	696.0	629.5	17.9 0.221
	11	50.0	762.8	696.3	18.7 0.203
	12	55.0	828.2	761.7	19.3 0.188
	13	60.0	889.4	823.0	19.9 0.175
D	14	61.3	904.7	838.3	20.1 0.172

SECOND FLOW

E	1	0.0	63.3		
	2	5.0	66.5	3.3	
	3	10.0	68.4	1.8	
	4	15.0	70.6	2.2	
	5	20.0	72.0	1.4	
	6	25.0	73.1	1.0	
	7	30.0	75.0	1.9	
	8	35.0	75.1	0.1	
	9	40.0	77.2	2.1	
F	10	44.5	77.0	-0.2	

SECOND CLOSED-IN

F	1	0.0	77.0		
	2	5.0	202.3	125.2	4.6 1.204
	3	10.0	340.0	262.9	8.8 0.925
	4	15.0	463.3	386.3	12.5 0.774
	5	20.0	570.5	493.5	15.8 0.674
	6	25.0	669.8	592.8	18.7 0.600
	7	30.0	763.2	686.1	21.4 0.541
	8	35.0	853.3	776.2	23.8 0.495
	9	40.0	927.4	850.3	26.0 0.456

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
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SECOND CLOSED-IN - CONTINUED

	10	45.0	995.8	918.8	28.0 0.424
	11	50.0	1058.0	981.0	29.9 0.396
	12	55.0	1116.3	1039.3	31.6 0.371
	13	60.0	1165.4	1088.4	33.2 0.350
	14	65.0	1211.0	1134.0	34.7 0.331
	15	70.0	1250.3	1173.3	36.1 0.314
	16	75.0	1282.8	1205.7	37.3 0.299
	17	80.0	1312.2	1235.1	38.5 0.285
	18	85.0	1338.8	1261.8	39.7 0.273
G	19	89.4	1357.0	1279.9	40.6 0.263

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4501.0	
50		IMPACT REVERSING SUB.....	5.000	3.000	1.0	4501.0
1		DRILL PIPE.....	4.500	3.826	120.0	
5		CROSSOVER.....	5.000	3.000	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4633.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4635.0
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	4656.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4656.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	27.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	4685.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	4687.0
TOTAL DEPTH						4690.0

EQUIPMENT DATA