



HALLIBURTON SERVICES

TICKET NO. 62253900

28-DEC-87

PRATT

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

FORMATION TESTING SERVICE REPORT

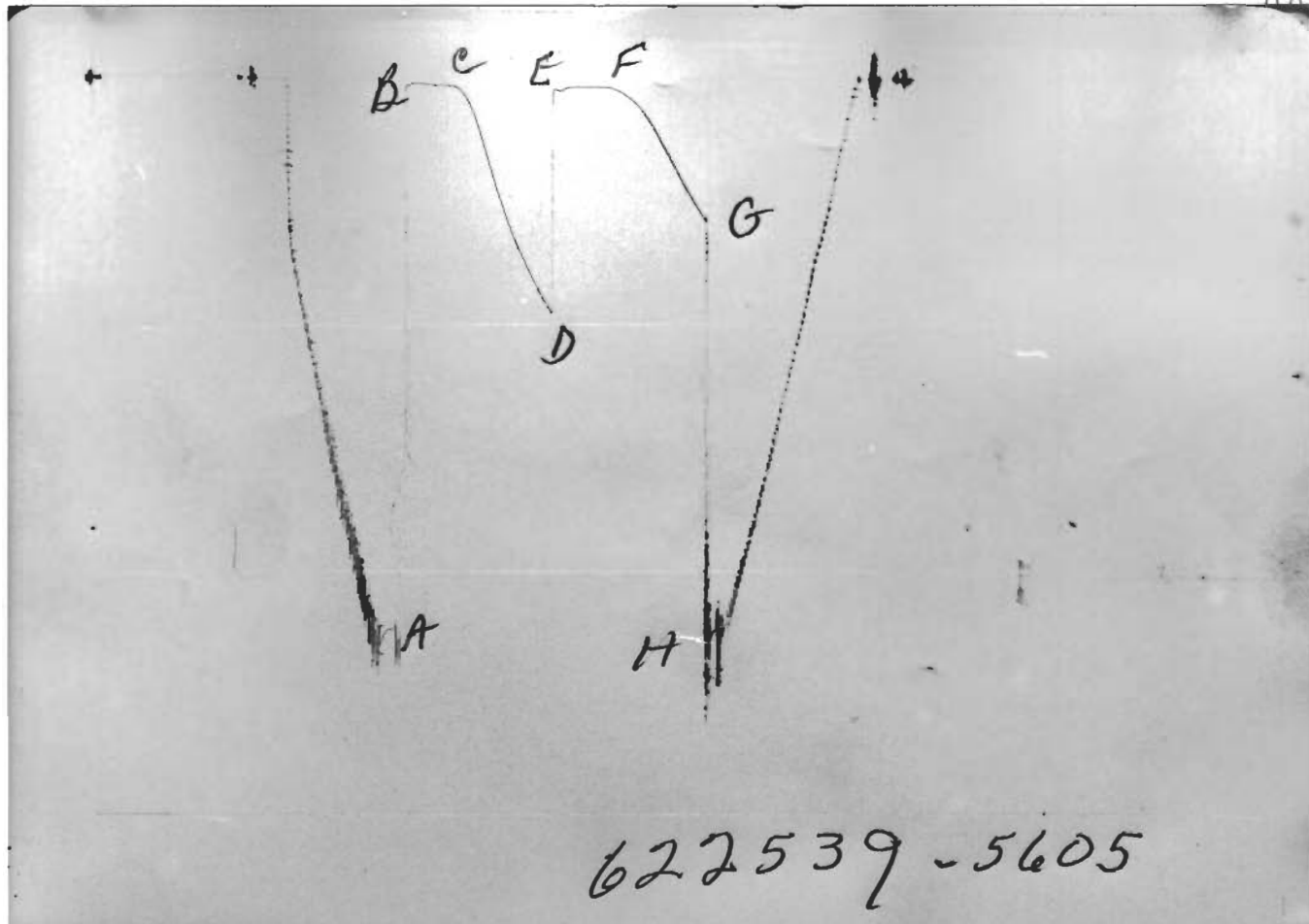
JAN 25 1988

0270

KENDALL	1	3	4718.0 - 4774.0	RAMCO DRILLING SERVICES, INCORPORATED
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RNG.	35-27-17	FIELD AREA	COUNTY	KIOWA
			STATE	KANSAS
			DR	

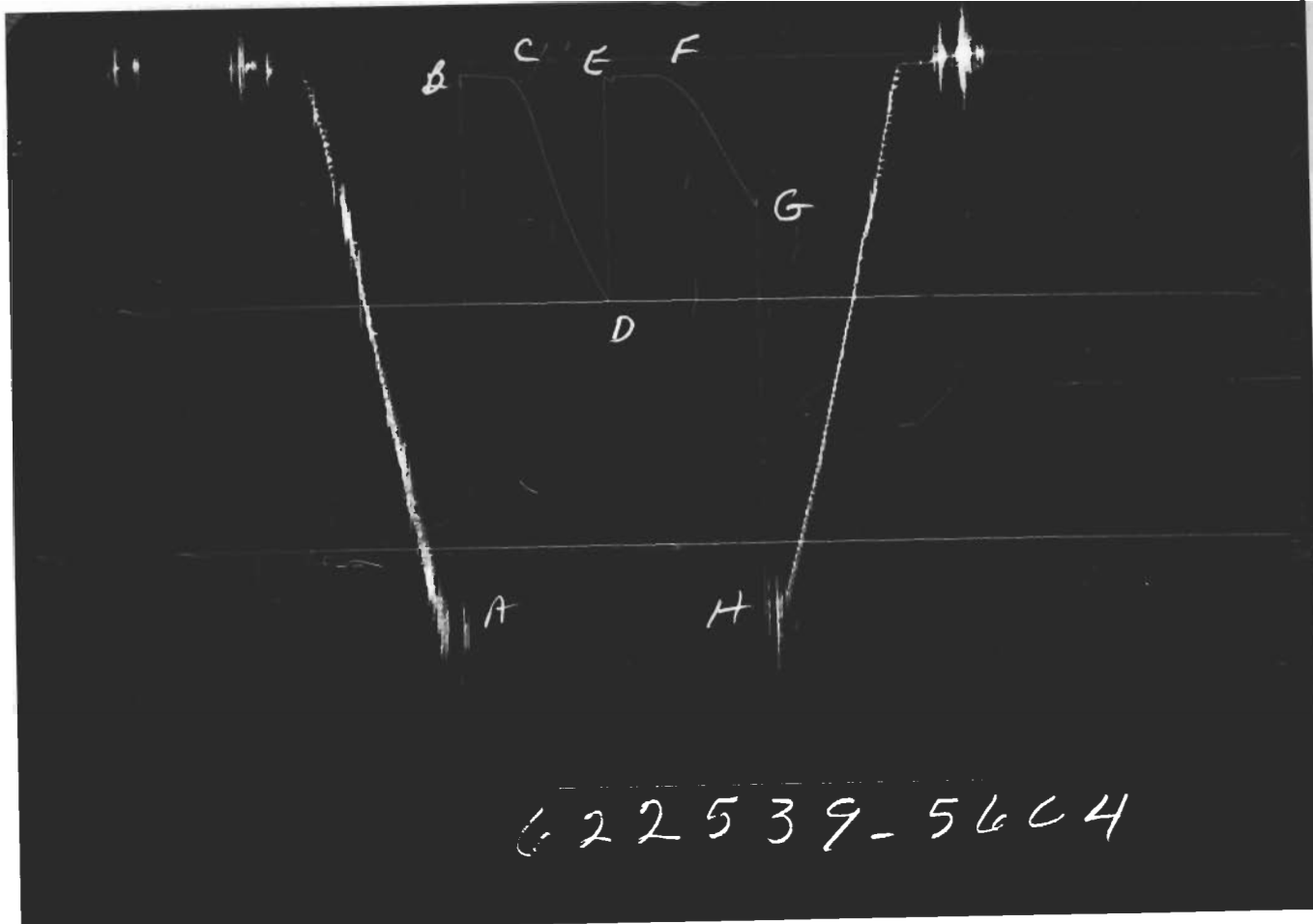
35-27-17W

29560



GAUGE NO: 5605 DEPTH: 4697.0 BLANKED OFF: NQ HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2226.8			
B	INITIAL FIRST FLOW		33.9			
C	FINAL FIRST FLOW		32.4	30.0	29.5	F
C	INITIAL FIRST CLOSED-IN		32.4			
D	FINAL FIRST CLOSED-IN		947.7	60.0	58.7	C
E	INITIAL SECOND FLOW		47.6			
F	FINAL SECOND FLOW		37.2	30.0	32.6	F
F	INITIAL SECOND CLOSED-IN		37.2			
G	FINAL SECOND CLOSED-IN		577.6	60.0	59.2	C
H	FINAL HYDROSTATIC		2232.2			



GAUGE NO: 5604 DEPTH: 4771.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2371	2263.2			
B	INITIAL FIRST FLOW	51	55.0			
C	FINAL FIRST FLOW	72	67.5	30.0	29.5	F
C	INITIAL FIRST CLOSED-IN	72	67.5			
D	FINAL FIRST CLOSED-IN	993	990.6	60.0	58.7	C
E	INITIAL SECOND FLOW	72	75.6			
F	FINAL SECOND FLOW	72	70.4	30.0	32.6	F
F	INITIAL SECOND CLOSED-IN	72	70.4			
G	FINAL SECOND CLOSED-IN	615	613.8	60.0	59.2	C
H	FINAL HYDROSTATIC	2371	2259.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: _____
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 56.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2133.0 KELLY BUSHING
 TOTAL DEPTH (ft): 4774.0
 PACKER DEPTH(S) (ft): 4712, 4718
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): _____
 MUD VISCOSITY (sec): _____
 ESTIMATED HOLE TEMP. (°F): 118
 ACTUAL HOLE TEMP. (°F): 120 @ 4769.0 ft

TICKET NUMBER: 62253900DATE: 12-21-87 TEST NO: 3TYPE 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>0</u> °F	<u>10000</u> ppm
<u>TOP OF TOOL</u>	<u>0</u> °F	<u>10000</u> ppm
_____	<u>0</u> °F	_____ ppm
_____	<u>0</u> °F	_____ ppm
_____	<u>0</u> °F	_____ ppm
_____	<u>0</u> °F	_____ ppm

SAMPLER DATA

Psig 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 :

MEASURED FROM
TESTER VALVE

REMARKS :

TICKET NO: 62253900[illegible]

TICKET NO : 62253900

CLOCK NO : 26864 HOUR : 12



GAUGE NO : 5605

DEPTH : 4697.0

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	33.9			
2	5.0	21.7	-12.2		
3	10.0	23.1	1.4		
4	15.0	26.2	3.1		
5	20.0	28.9	2.8		
6	25.0	30.4	1.4		
C 7	29.5	32.4	2.0		
FIRST CLOSED-IN					
C 1	0.0	32.4			
2	4.0	47.7	15.3	3.5	0.922
3	8.0	85.0	52.6	6.3	0.669
4	12.0	144.9	112.5	8.5	0.539
5	16.0	229.8	197.4	10.4	0.453
6	20.0	322.2	289.8	11.9	0.394
7	24.0	410.7	378.3	13.2	0.348
8	28.0	494.8	462.4	14.4	0.312
9	32.0	573.2	540.8	15.3	0.284
10	36.0	645.4	613.0	16.2	0.260
11	40.0	705.9	673.5	17.0	0.240
12	44.0	766.2	733.8	17.7	0.223
13	48.0	822.7	790.3	18.3	0.208
14	52.0	874.2	841.8	18.8	0.195
15	56.0	919.9	887.4	19.3	0.184
D 16	58.7	947.7	915.3	19.6	0.177
SECOND FLOW					
E 1	0.0	47.6			
2	5.0	52.9	5.2		
3	10.0	37.5	-15.4		
4	15.0	35.9	-1.5		
5	20.0	36.6	0.6		
6	25.0	36.6	0.0		
7	30.0	36.6	0.0		
F 8	32.6	37.2	0.6		
SECOND CLOSED-IN					
F 1	0.0	37.2			
2	6.0	48.4	11.2	5.4	1.057
3	12.0	72.7	35.5	10.0	0.791
4	18.0	107.9	70.7	13.9	0.649
5	24.0	158.6	121.4	17.3	0.555
6	30.0	227.7	190.5	20.2	0.487
7	36.0	302.8	265.6	22.8	0.435
8	42.0	381.9	344.7	25.1	0.394
9	48.0	459.1	422.0	27.1	0.360

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
10	54.0	526.0	488.8	28.9	0.332
G 11	59.2	577.6	540.4	30.3	0.311

REMARKS :

TICKET NO: 62253900

CLOCK NO: 6947 HOUR: 12



GAUGE NO: 5604

DEPTH: 4771.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
FIRST FLOW					
B	1	0.0	55.0		
	2	5.0	54.6	-0.4	
	3	10.0	57.2	2.6	
	4	15.0	59.6	2.5	
	5	20.0	63.8	4.2	
	6	25.0	65.7	1.8	
C	7	29.5	67.5	1.8	
FIRST CLOSED-IN					
C	1	0.0	67.5		
	2	4.0	92.2	24.7	3.5 0.925
	3	8.0	130.4	62.9	6.3 0.669
	4	12.0	194.5	127.0	8.5 0.538
	5	16.0	271.2	203.7	10.4 0.454
	6	20.0	364.1	296.5	11.9 0.393
	7	24.0	453.1	385.6	13.2 0.347
	8	28.0	536.5	469.0	14.4 0.312
	9	32.0	613.9	546.3	15.3 0.284
	10	36.0	684.7	617.2	16.2 0.260
	11	40.0	745.8	678.2	17.0 0.240
	12	44.0	807.9	740.4	17.7 0.223
	13	48.0	861.9	794.4	18.3 0.208
	14	52.0	914.4	846.9	18.8 0.195
	15	56.0	960.8	893.3	19.3 0.184
D	16	58.7	990.6	923.1	19.6 0.177
SECOND FLOW					
E	1	0.0	75.6		
	2	5.0	86.8	11.3	
	3	10.0	70.0	-15.9	
	4	15.0	70.0	0.0	
	5	20.0	70.0	0.0	
	6	25.0	70.0	0.0	
	7	30.0	70.0	0.0	
F	8	32.6	70.4	0.4	
SECOND CLOSED-IN					
F	1	0.0	70.4		
	2	6.0	86.2	15.9	5.5 1.055
	3	12.0	113.5	43.1	10.1 0.791
	4	18.0	149.0	78.6	13.9 0.649
	5	24.0	203.2	132.8	17.3 0.555
	6	34.0	269.6	199.2	28.9 0.332
	7	36.0	341.0	270.6	22.8 0.435
	8	42.0	420.4	350.0	25.0 0.394
	9	48.0	493.0	422.6	27.1 0.361

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND CLOSED-IN - CONTINUED					
	10	53.0	548.4	478.0	28.6 0.337
G	11	59.2	613.8	543.5	30.3 0.311

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.825	3843.0	
4		FLEX WEIGHT.....	4.500	2.760	720.0	
50		IMPACT REVERSING SUB.....	5.000	3.000	1.0	4563.0
4		FLEX WEIGHT.....	4.500	2.760	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	4695.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4697.0
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	4712.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4718.0
20		FLUSH JOINT ANCHOR.....	5.000	3.840	49.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	4769.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	4771.0
TOTAL DEPTH					4774.0	

EQUIPMENT DATA