HALLIBURTON

SERVICES

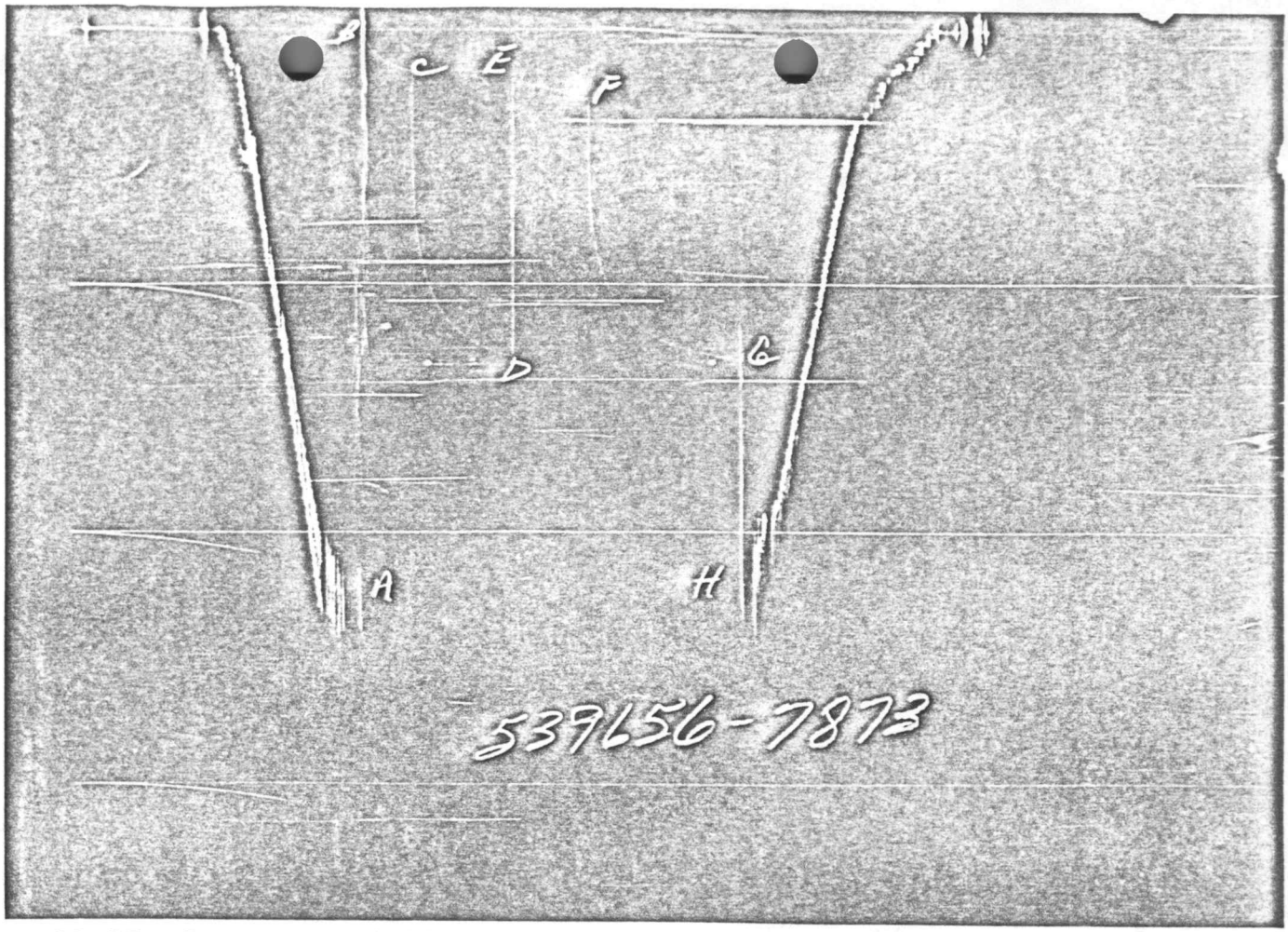
TICKET NO. 53965600

04-APR-83

NESS CITY

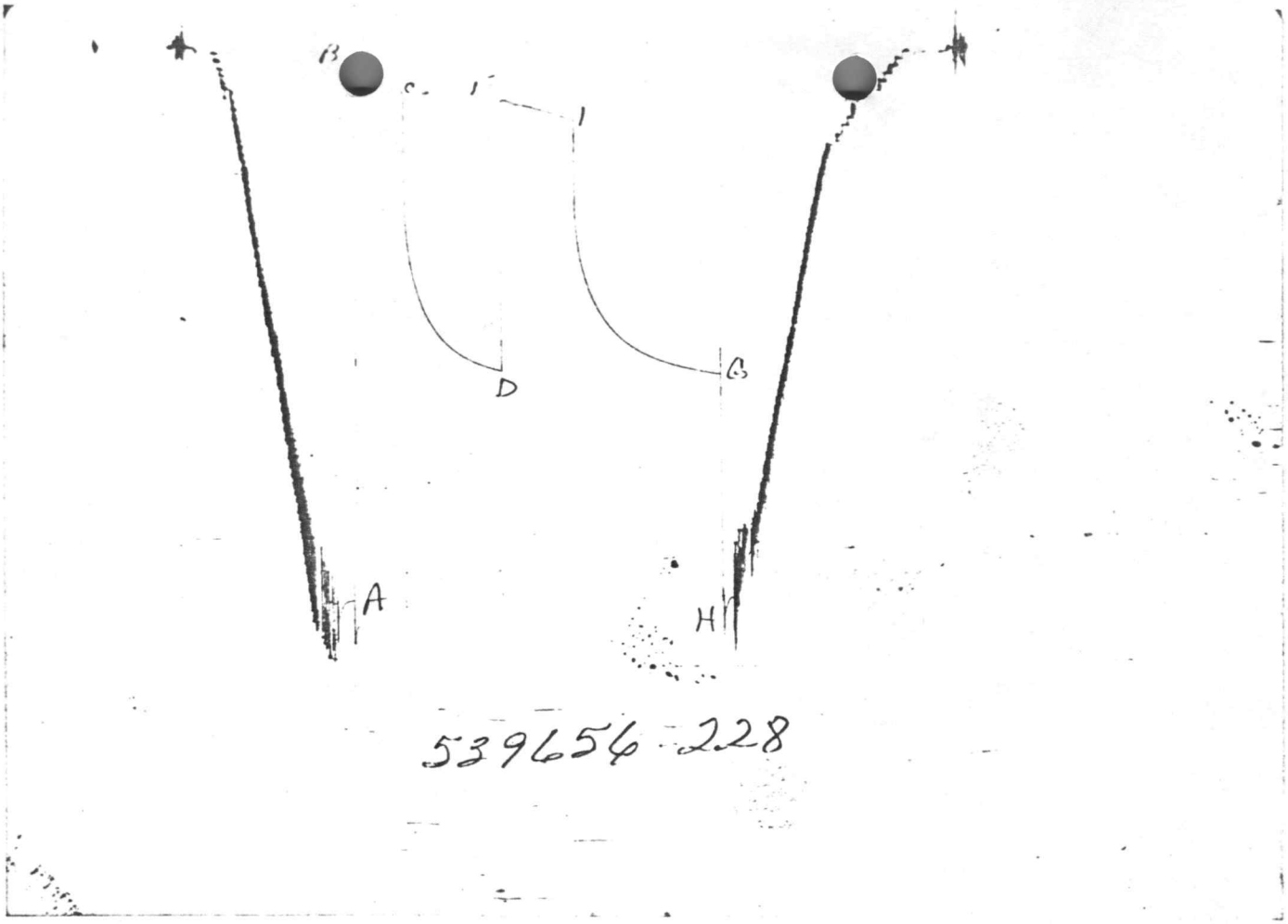
FORMATION TESTING SERVICE REPORT

CLELAND	1	1	4395' - 4440'	AMERICAN ENERGIES CORPORATION	
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME	
LEGAL LOCATION SEC. - TWP. - RNG. 35 - 22 SOUTH - 22 WEST		FIELD AREA WILDCAT	COUNTY HODGEMAN	STATE KANSAS	IC/PW



GAUGE NO: 7873 DEPTH: 4379.0 BLANKED OFF: NO HOUR OF CLOCK: 1

ID	DESCRIPTION	PRESSURE		TIME		TYP
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2229.9				
B	INITIAL FIRST FLOW	13.4		30.0	30.2	F
C	FINAL FIRST FLOW	169.0				
C	INITIAL FIRST CLOSED-IN	169.0		60.0	58.8	C
D	FINAL FIRST CLOSED-IN	1296.6				
E	INITIAL SECOND FLOW	197.0		45.0	45.0	F
F	FINAL SECOND FLOW	275.1				
F	INITIAL SECOND CLOSED-IN	275.1		90.0	89.8	C
G	FINAL SECOND CLOSED-IN	1308.1				
H	FINAL HYDROSTATIC	2220.3				



539656-228

GAUGE NO: 228 DEPTH: 4437.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2402	2262.4			
B	INITIAL FIRST FLOW	61	57.2	30.0	30.2	F
C	FINAL FIRST FLOW	192	193.4			
C	INITIAL FIRST CLOSED-IN	192	193.4	60.0	58.8	C
D	FINAL FIRST CLOSED-IN	1325	1322.5			
E	INITIAL SECOND FLOW	223	232.0	45.0	45.0	F
F	FINAL SECOND FLOW	304	301.3			
F	INITIAL SECOND CLOSED-IN	304	301.3	90.0	89.8	C
G	FINAL SECOND CLOSED-IN	1335	1336.6			
H	FINAL HYDROSTATIC	2322	2253.5			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPIAN
NET PAY (ft): 9.0
GROSS TESTED FOOTAGE: 45.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 2186
TOTAL DEPTH (ft): 4440.0
PACKER DEPTH(S) (ft): 4389, 4395
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.70
MUD VISCOSITY (sec): 47
ESTIMATED HOLE TEMP. (°F): 118
ACTUAL HOLE TEMP. (°F): 122 @ 4435.0 ft

TICKET NUMBER: 53965600

DATE: 3-28-83 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
NESS CITY

TESTER: JIM THOMPSON

WITNESS: J. KNOBLE

DRILLING CONTRACTOR:
MALLARD DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
PIT	@	°F	39000 ppm
	@	°F	ppm
	@	°F	ppm
	@	°F	ppm
	@	°F	ppm
	@	°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): 38.0 @ 60°F
GAS/OIL RATIO (cu.ft. per bbl):
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGH

RECOVERED:

220 FEET OF GAS IN PIPE
220 FEET OF CLEAN GASSY OIL
220 FEET OF OIL CUT MUD
300 FEET OF OIL CUT MUD
960 FEET OF TOTAL RECOVERY

MEASURED FROM

REMARKS:

GRINDOUTS: TOP MUD RECOVERY: 86% OIL - 14% MUD
BOTTOM MUD RECOVERY: 70% OIL - 30% MUD

HT-500 TEMPERATURE CHART NOT SENT IN FOR PROCESSING

TYPE & SIZE MEASURING DEVICE: _____ TICKET NO: 53965600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
3-27-83					
2300					CALLED OUT
3-28-83					
0130					ON LOCATION - RIG PULLED PIPE
0400					PICKED-UP AND MADE-UP TOOL
0425					SET TOOL IN TABLE
0430					RIG STARTED DRILL PIPE
0600					TOOL ON BOTTOM
0605	1/4BH				OPENED TOOL WITH A WEAK BLOW
					BUILDING TO A STRONG BLOW - 16"
0635					CLOSED TOOL
0735	1/4BH				REOPENED TOOL WITH A FAIR BLOW
					BUILDING TO A STRONG BLOW - 16"
0820					CLOSED TOOL
0950					OFF BOTTOM
1200					IN TABLE
1230					BROKE AND LAID DOWN
1345					JOB COMPLETED

TICKET NO: 53965600

CLOCK NO: 16165 HOUR: 12

HALLIBURTON SERVICES

GAUGE NO: 7873

DEPTH: 4379.0

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	13.4			
	2	5.0	71.1	57.7		
	3	10.0	104.8	33.7		
	4	15.0	129.0	24.2		
	5	20.0	141.3	12.2		
	6	25.0	156.4	15.2		
C	7	30.2	169.0	12.6		
			FIRST CLOSED-IN			
C	1	0.0	169.0			
	2	1.0	710.1	541.1	1.0	1.486
	3	2.0	783.3	614.4	1.9	1.208
	4	3.0	835.6	666.7	2.8	1.038
	5	4.0	873.9	704.9	3.5	0.936
	6	5.0	905.8	736.8	4.3	0.850
	7	6.0	933.7	764.8	5.0	0.782
	8	7.0	960.3	791.3	5.7	0.726
	9	8.0	985.2	816.3	6.4	0.677
	10	9.0	1004.1	835.1	6.9	0.640
	11	10.0	1022.6	853.6	7.5	0.604
	12	12.0	1056.5	887.5	8.6	0.545
	13	14.0	1085.1	916.1	9.6	0.498
	14	16.0	1109.2	940.2	10.5	0.460
	15	18.0	1129.9	960.9	11.3	0.428
	16	20.0	1149.1	980.1	12.0	0.399
	17	22.0	1164.7	995.7	12.7	0.375
	18	24.0	1178.9	1009.9	13.4	0.353
	19	26.0	1191.7	1022.7	14.0	0.335
	20	28.0	1203.2	1034.2	14.5	0.318
	21	30.0	1213.5	1044.5	15.0	0.302
	22	35.0	1235.9	1066.9	16.2	0.270
	23	40.0	1253.5	1084.5	17.2	0.244
	24	45.0	1268.7	1099.7	18.1	0.223
	25	50.0	1280.6	1111.6	18.8	0.205
	26	55.0	1290.0	1121.0	19.5	0.190
D	27	58.8	1296.6	1127.6	19.9	0.180
			SECOND FLOW			
E	1	0.0	197.0			
	2	5.0	201.6	4.6		
	3	10.0	214.4	12.8		
	4	15.0	220.8	6.4		
	5	20.0	228.7	7.9		
	6	25.0	237.1	8.4		
	7	30.0	246.7	9.5		
	8	35.0	255.6	8.9		
	9	40.0	265.8	10.1		
F	10	45.0	275.1	9.3		

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN			
F	1	0.0	275.1			
	2	1.0	709.9	434.8	1.0	1.873
	3	2.0	776.6	501.5	2.0	1.584
	4	3.0	817.8	542.7	2.9	1.418
	5	4.0	857.6	582.5	3.8	1.295
	6	5.0	883.9	608.8	4.7	1.207
	7	6.0	915.4	640.3	5.6	1.128
	8	7.0	936.6	661.5	6.4	1.070
	9	8.0	956.9	681.8	7.3	1.015
	10	9.0	978.0	702.9	8.1	0.969
	11	10.0	993.2	718.1	8.9	0.929
	12	12.0	1023.8	748.7	10.3	0.862
	13	14.0	1049.6	774.5	11.8	0.806
	14	16.0	1074.2	799.1	13.2	0.755
	15	18.0	1092.1	817.0	14.5	0.714
	16	20.0	1110.2	835.1	15.8	0.678
	17	22.0	1125.2	850.1	17.0	0.646
	18	24.0	1140.0	864.9	18.2	0.616
	19	26.0	1152.6	877.5	19.3	0.590
	20	28.0	1164.3	889.2	20.4	0.566
	21	30.0	1176.1	901.0	21.4	0.545
	22	35.0	1199.7	924.6	23.9	0.498
	23	40.0	1219.0	943.9	26.1	0.459
	24	45.0	1235.4	960.3	28.1	0.427
	25	50.0	1248.5	973.4	30.0	0.399
	26	55.0	1260.0	984.9	31.8	0.374
	27	60.0	1270.6	995.5	33.4	0.353
	28	70.0	1286.6	1011.5	36.3	0.317
	29	80.0	1300.0	1024.9	38.8	0.288
G	30	89.8	1308.1	1033.0	40.9	0.264

REMARKS:

TICKET NO: 53965600

CLOCK NO: 14248 HOUR: 12

HALLIBURTON SERVICES

GAUGE NO: 228

DEPTH: 4437.0

FIRST FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
B	1	0.0	57.2			
	2	5.0	94.9	37.8		
	3	10.0	129.7	34.7		
	4	15.0	154.3	24.6		
	5	20.0	167.4	13.2		
	6	25.0	180.9	13.5		
C	7	30.2	193.4	12.6		

FIRST CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
C	1	0.0	193.4			
	2	1.0	745.8	552.4	1.0	1.492
	3	2.0	811.9	618.5	1.9	1.208
	4	3.0	865.6	672.1	2.7	1.044
	5	4.0	904.7	711.3	3.5	0.933
	6	5.0	937.7	744.3	4.3	0.848
	7	6.0	964.9	771.4	5.0	0.780
	8	7.0	990.4	797.0	5.7	0.723
	9	8.0	1008.9	815.5	6.3	0.680
	10	9.0	1030.1	836.7	6.9	0.639
	11	10.0	1047.3	853.9	7.5	0.605
	12	12.0	1081.2	887.8	8.6	0.546
	13	14.0	1108.6	915.2	9.6	0.499
	14	16.0	1131.0	937.6	10.4	0.461
	15	18.0	1153.1	959.7	11.3	0.428
	16	20.0	1171.7	978.3	12.0	0.399
	17	22.0	1187.9	994.5	12.7	0.375
	18	24.0	1203.2	1009.8	13.4	0.353
	19	26.0	1215.8	1022.4	14.0	0.334
	20	28.0	1227.6	1034.2	14.5	0.318
	21	30.0	1238.8	1045.4	15.0	0.302
	22	35.0	1261.9	1068.5	16.2	0.270
	23	40.0	1279.9	1086.5	17.2	0.244
	24	45.0	1293.7	1100.3	18.1	0.223
	25	50.0	1306.6	1113.2	18.8	0.205
	26	55.0	1316.9	1123.5	19.5	0.190
D	27	58.8	1322.5	1129.1	19.9	0.180

SECOND FLOW

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
E	1	0.0	232.0			
	2	5.0	228.5	-3.4		
	3	10.0	240.5	11.9		
	4	15.0	245.7	5.3		
	5	20.0	253.4	7.7		
	6	25.0	261.8	8.4		
	7	30.0	271.6	9.7		
	8	35.0	281.6	10.0		
	9	40.0	292.1	10.5		
F	10	45.0	301.3	9.2		

SECOND CLOSED-IN

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
F	1	0.0	301.3			
	2	1.0	728.9	427.6	1.0	1.887
	3	2.0	795.8	494.5	1.9	1.594
	4	3.0	845.6	544.3	2.9	1.418
	5	4.0	882.9	581.6	3.8	1.295
	6	5.0	911.0	609.7	4.7	1.206
	7	6.0	936.2	634.9	5.5	1.135
	8	7.0	957.8	656.5	6.4	1.071
	9	8.0	980.4	679.1	7.2	1.016
	10	9.0	998.3	697.0	8.0	0.971
	11	10.0	1013.6	712.3	8.8	0.932
	12	12.0	1046.1	744.8	10.4	0.861
	13	14.0	1072.6	771.3	11.8	0.804
	14	16.0	1094.4	793.1	13.2	0.756
	15	18.0	1115.2	813.9	14.5	0.714
	16	20.0	1132.7	831.4	15.8	0.678
	17	22.0	1150.9	849.6	17.0	0.645
	18	24.0	1165.6	864.3	18.2	0.616
	19	26.0	1178.7	877.4	19.3	0.590
	20	28.0	1190.1	888.8	20.4	0.566
	21	30.0	1201.3	900.0	21.4	0.545
	22	35.0	1224.8	923.5	23.9	0.498
	23	40.0	1244.9	943.6	26.1	0.460
	24	45.0	1261.4	960.1	28.2	0.427
	25	50.0	1274.7	973.4	30.0	0.399
	26	55.0	1286.3	985.0	31.8	0.374
	27	60.0	1297.3	996.0	33.4	0.353
	28	70.0	1313.8	1012.5	36.2	0.317
	29	80.0	1326.8	1025.5	38.8	0.288
G	30	89.8	1336.6	1035.3	40.9	0.264

REMARKS: