

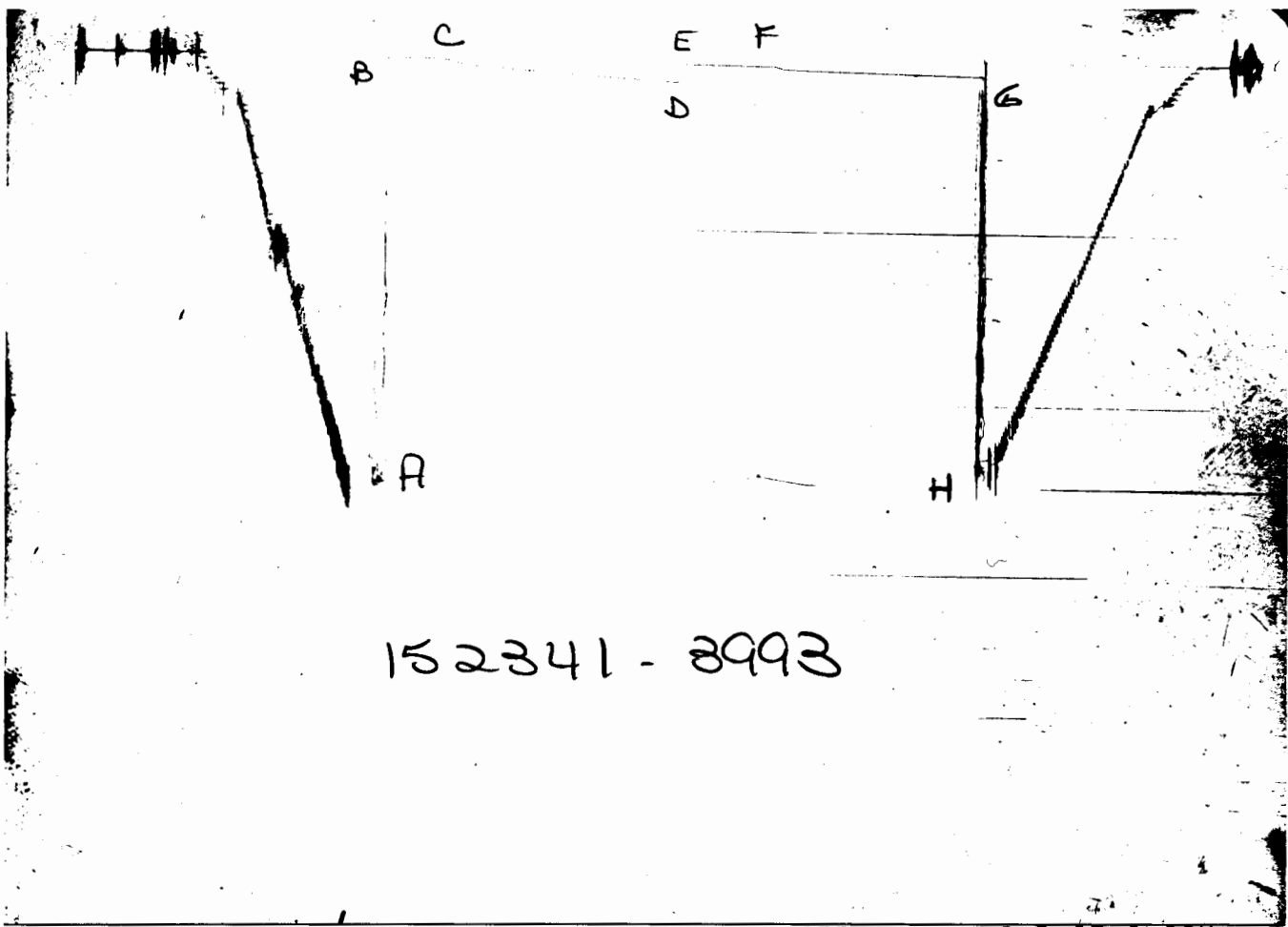


TICKET NO. 15234100
 03-SEP-85
 LAMAR

FORMATION TESTING SERVICE REPORT

LEASE NAME	SMITH, B.S.	WELL NO.	1	TEST NO.	1	TESTED INTERVAL	4990.0 - 5100.0	LEASE OWNER/COMPANY NAME	PETROLEUM, INCORPORATED
LEGAL LOCATION	33 - 15 S - 42 W	FIELD AREA	STOCKHOLM	COUNTY	WALLACE	STATE	KANSAS		PW

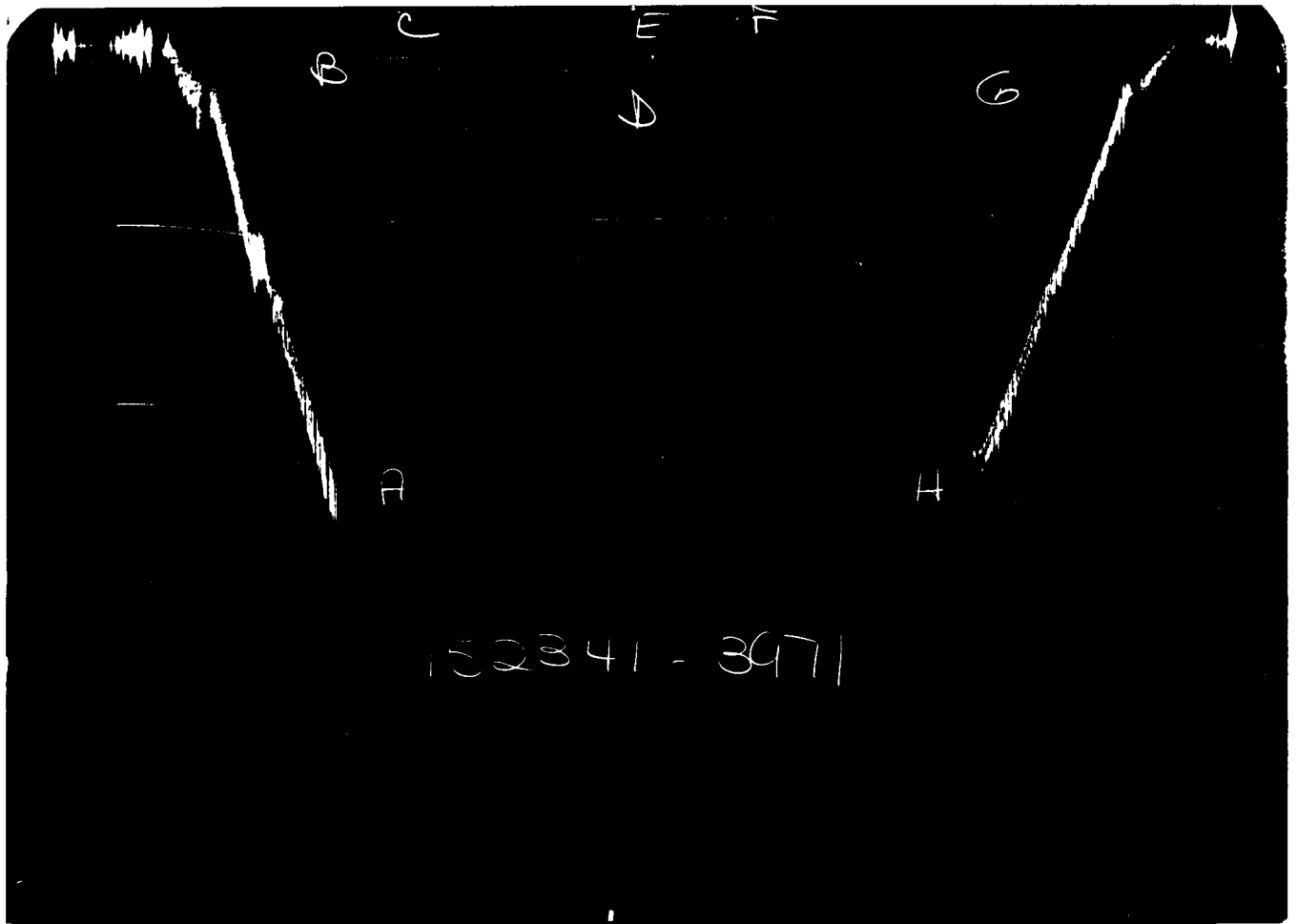
33-15S-42W



152341 - 3993

GAUGE NO: 3993 DEPTH: 4969.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2355	2332.8			
B	INITIAL FIRST FLOW	14	19.6	30.0	30.0	F
C	FINAL FIRST FLOW	29	19.6			
C	INITIAL FIRST CLOSED-IN	29	19.6	135.0	135.0	C
D	FINAL FIRST CLOSED-IN	143	140.4			
E	INITIAL SECOND FLOW	29	38.7	60.0	60.0	F
F	FINAL SECOND FLOW	43	39.8			
F	INITIAL SECOND CLOSED-IN	43	39.8	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	86	81.9			
H	FINAL HYDROSTATIC	2326	2311.4			



GAUGE NO: 3971 DEPTH: 5097.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2372	2395.9			
B	INITIAL FIRST FLOW	68	85.9	30.0	30.0	F
C	FINAL FIRST FLOW	81	85.9			
C	INITIAL FIRST CLOSED-IN	81	85.9	135.0	135.0	C
D	FINAL FIRST CLOSED-IN	162	201.5			
E	INITIAL SECOND FLOW	54	100.5	60.0	60.0	F
F	FINAL SECOND FLOW	81	105.9			
F	INITIAL SECOND CLOSED-IN	81	105.9	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	162	144.7			
H	FINAL HYDROSTATIC	2346	2371.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: _____
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 110.0
 ALL DEPTHS MEASURED FROM: GROUND LEVEL
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 3853.0
 TOTAL DEPTH (ft): 5100.0
 PACKER DEPTH(S) (ft): 4984, 4990
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.10
 MUD VISCOSITY (sec): 50
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 145 @ 5095.0 ft

TICKET NUMBER: 15234100
 DATE: 8-28-85 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
LAMAR
 TESTER: LARRY REPPHUN
 WITNESS: KENNY SIZEMORE
 DRILLING CONTRACTOR:
CHEYENNE #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
TOP (PH = 9.5)	<u>1.400 @ 85</u> °F	<u>800</u> ppm
BOTTOM (PH = 9.5)	<u>1.500 @ 86</u> °F	<u>750</u> ppm
PIT (PH = 10.0)	<u>1.550 @ 80</u> °F	<u>600</u> ppm
SAMPLER (PH = 1.50)	<u>1.500 @ 86</u> °F	<u>750</u> ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 10.0
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 2240.0
 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:
 80 FEET OF DRILLING MUD

MEASURED FROM
 TESTER VALVE

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4437.0	
3		DRILL COLLARS.....	6.250	2.250	450.0	
50		IMPACT REVERSING SUB.....	5.750	2.750	1.0	4887.0
3		DRILL COLLARS.....	6.250	2.250	63.0	
5		CROSSOVER.....	5.630	2.500	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.820	5.0	
12		DUAL CIP VALVE.....	5.000	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4967.0
80		AP RUNNING CASE.....	5.030	2.250	4.0	4969.0
15		JAR.....	5.000	3.060	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4984.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4990.0
21		PERFORATED TAIL PIPE.....	5.000	3.240	37.0	
5		CROSSOVER.....	5.750	2.750	1.0	
3		DRILL COLLARS.....	6.250	2.250	63.0	
5		CROSSOVER.....	5.630	2.500	1.0	
5		CROSSOVER.....	5.630	2.500	1.0	
83		HT-500 TEMPERATURE CASE.....	4.500		1.0	5095.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	5097.0
TOTAL DEPTH					5100.0	

EQUIPMENT DATA

02
4
05

SMITH
LEASE NAME
BS #1
WELL NO.
TEST NO. 2
TESTED INTERVAL 4985.0 - 5155.0
PETROLEUM, INCORPORATED
LEASE OWNER/COMPANY NAME

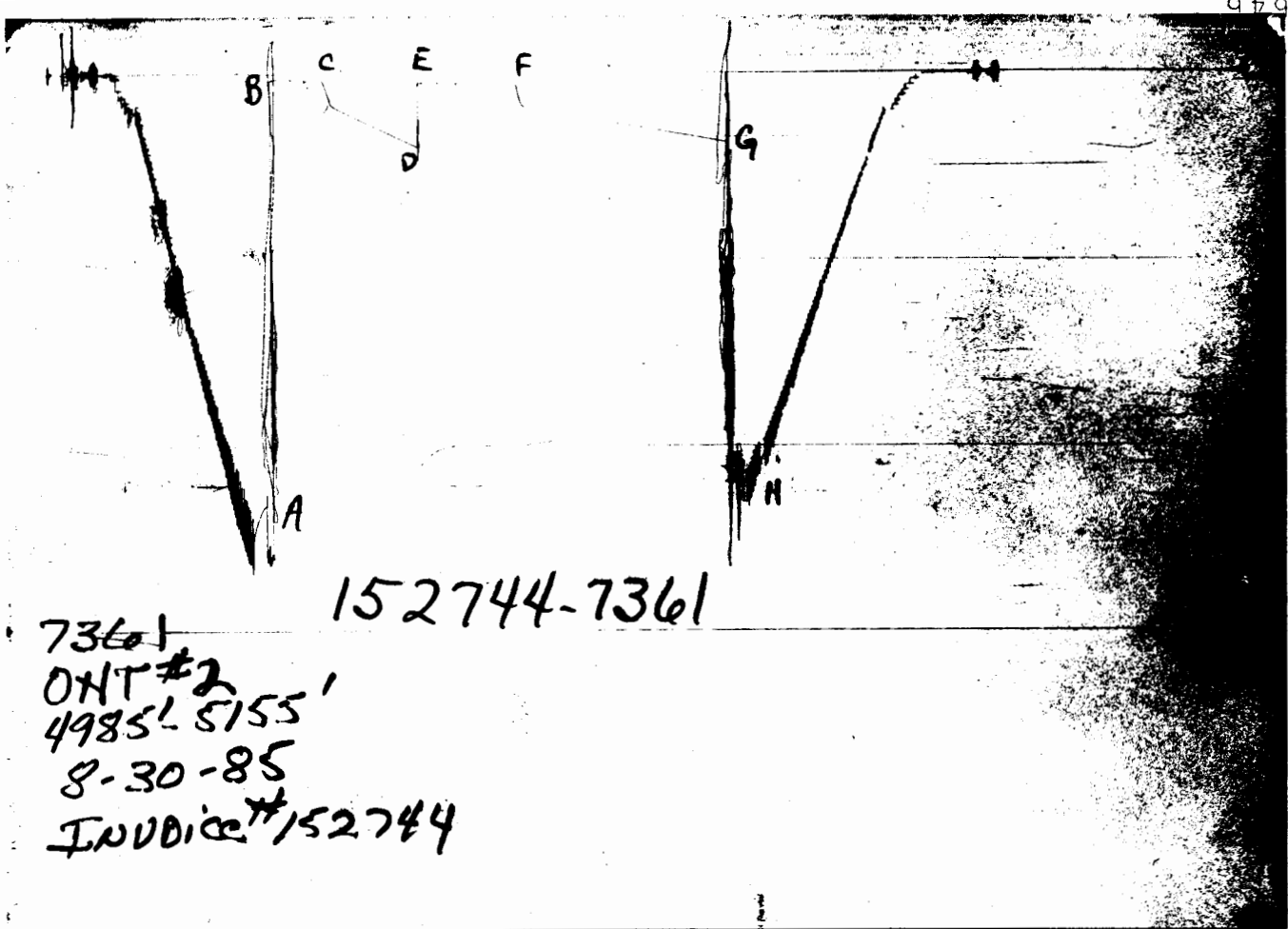
LEGAL LOCATION 155
SEC. - TYP. - RNG. 33-185-42W
FIELD AREA STOCKHOLM
COUNTY WALLACE
STATE KANSAS BG

33-155-42W



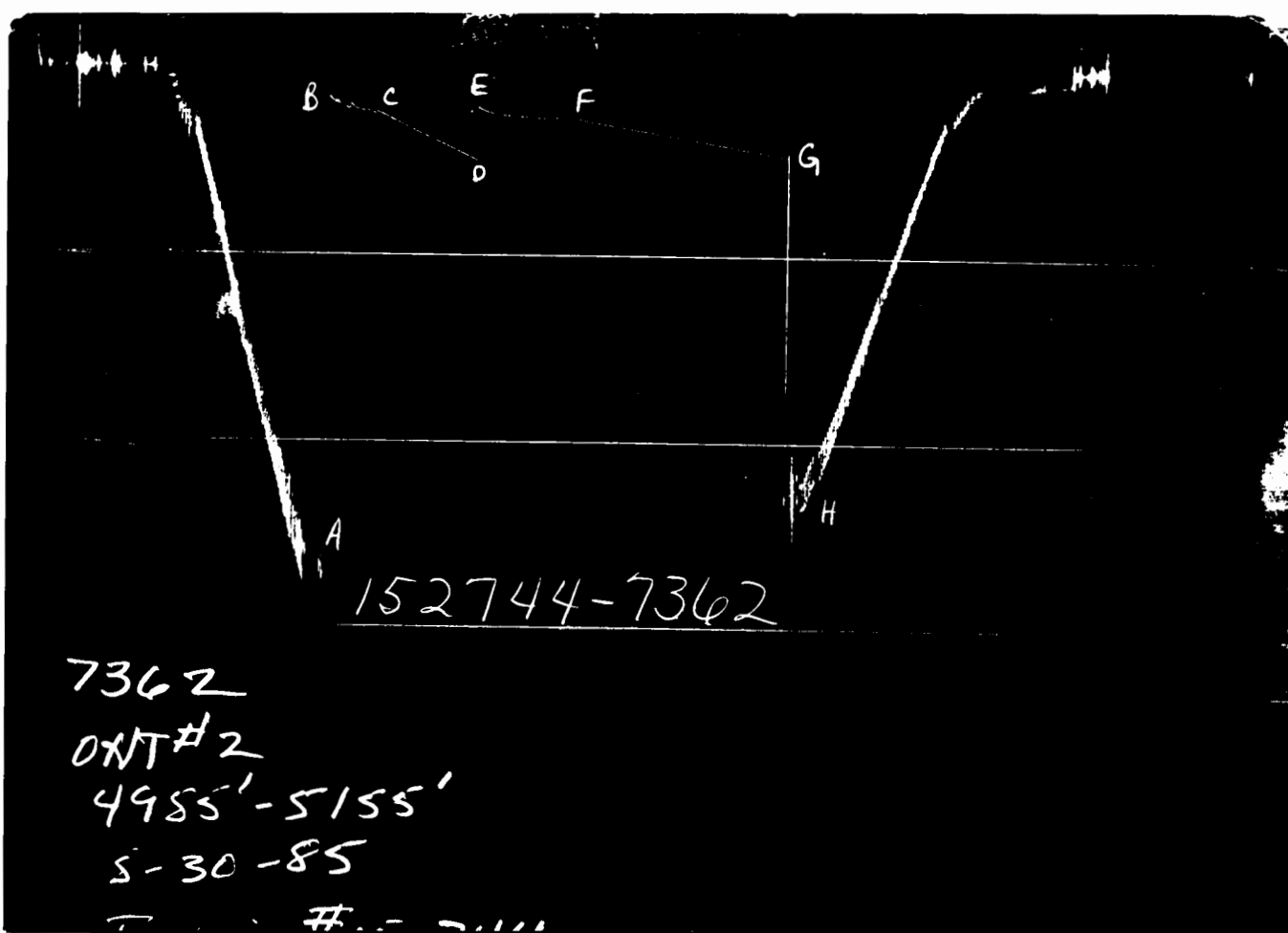
TICKET NO. 15274400
06-SEP-85
LAMAR

FORMATION TESTING SERVICE REPORT



GAUGE NO: 7361 DEPTH: 4964.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2311	2321.8			
B	INITIAL FIRST FLOW	26	42.1	30.0	30.0	F
C	FINAL FIRST FLOW	26	33.2			
C	INITIAL FIRST CLOSED-IN	26	33.2	60.0	60.0	C
D	FINAL FIRST CLOSED-IN	369	395.5			
E	INITIAL SECOND FLOW	26	49.8	60.0	60.0	F
F	FINAL SECOND FLOW	66	60.3			
F	INITIAL SECOND CLOSED-IN	66	60.3	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	369	369.7			
H	FINAL HYDROSTATIC	2245	2182.6			



GAUGE NO: 7362 DEPTH: 5152.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2373	2414.7			
B	INITIAL FIRST FLOW	133	151.4			
C	FINAL FIRST FLOW	239	235.4	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	239	235.4			
D	FINAL FIRST CLOSED-IN	504	494.9	60.0	60.0	C
E	INITIAL SECOND FLOW	239	205.9			
F	FINAL SECOND FLOW	277	268.9	60.0	60.0	F
F	INITIAL SECOND CLOSED-IN	277	268.9			
G	FINAL SECOND CLOSED-IN	504	467.3	120.0	120.0	C
H	FINAL HYDROSTATIC	2307	2269.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: _____
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 170.0
 ALL DEPTHS MEASURED FROM: KB
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 3853.0 GROUND LEVEL
 TOTAL DEPTH (ft): 5155.0
 PACKER DEPTH(S) (ft): 4979, 4985
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.00
 MUD VISCOSITY (sec): 55
 ESTIMATED HOLE TEMP. (°F): 131
 ACTUAL HOLE TEMP. (°F): 150 @ 5150.0 ft

TICKET NUMBER: 15274400
 DATE: 8-30-85 TEST NO: 2
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
LAMAR
 TESTER: G. D. MOORE
F. E. PAINTER
 WITNESS: KENNY SIZEMORE
 DRILLING CONTRACTOR:
CHEYENNE DRILLING COMPANY #4

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
TOP <u>10.0 PH</u>	<u>0.200 @ 73 °F</u>	<u>18165 ppm</u>
MIDDLE <u>7.0 PH</u>	<u>0.200 @ 73 °F</u>	<u>18165 ppm</u>
BOTTOM <u>7.0 PH</u>	<u>0.180 @ 73 °F</u>	<u>21697 ppm</u>
PIT <u>6.0 PH</u>	<u>0.200 @ 73 °F</u>	<u>18165 ppm</u>
SAMPLER <u>7.0 PH</u>	<u>0.180 @ 73 °F</u>	<u>21697 ppm</u>
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 0.0
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 2200.0
 TOTAL LIQUID cc: 2200.0

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____



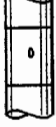

















RECOVERED:
129' OF MUD

MEASURED FROM
 TESTER VALVE

REMARKS:

SOURCE	SPECIFIC GRAVITY
TOP	1.021
MIDDLE	1.021
BOTTOM	1.024
PIT	1.021
SAMPLER	1.024

CA = 414, MG = 166, SULFATES = MODERATE,
 IRON = NEGATIVE.
 AMOUNTS OF D.P. AND D.C. ABOVE THE REVERSING SUB WERE NOT REPORTED.

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826		
3		DRILL COLLARS.....	6.750	2.250		
50		IMPACT REVERSING SUB.....	5.750	2.750	2.0	4881.0
3		DRILL COLLARS.....	6.250	2.250	62.0	
5		CROSSOVER.....	5.860	3.920	1.0	
11		HANDLING SUB & CHDKE ASSEMBLY...	4.500	3.826	4.0	
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4962.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4964.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4979.0
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4985.0
5		CROSSOVER.....	5.860	3.690	1.0	
3		DRILL COLLARS.....	6.250	2.250	125.0	
5		CROSSOVER.....	5.860	2.250	1.0	
5		CROSSOVER.....	5.860	3.820	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	3.240	36.0	
82		TEMPERATURE RUNNING CASE.....	5.000		1.5	5150.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	5152.0
		TOTAL DEPTH				5155.0

EQUIPMENT DATA