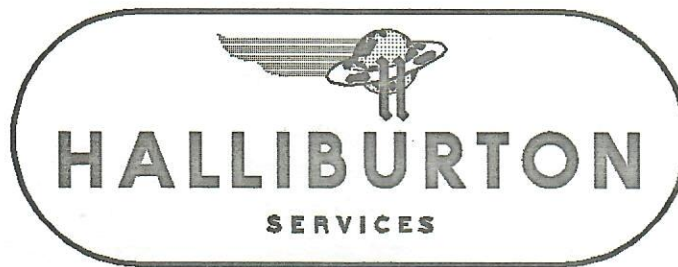




02357687



TICKET NO. 75818200

25-JUN-84

STERLING

# FORMATION TESTING SERVICE REPORT

MADDREN		2		1		5693.' - 5712.'		NATIONAL COOP. REFINERY ASSOCIATION	
LEASE NAME		WELL NO.		TEST NO.		TESTED INTERVAL		LEASE OWNER/COMPANY NAME	
LEGAL LOCATION SEC. - TWP. - RNG.		22 - 35 - 58W		FIELD AREA		NORTH OF ROMAN NOSE		COUNTY ADAMS STATE COLORADO NM	

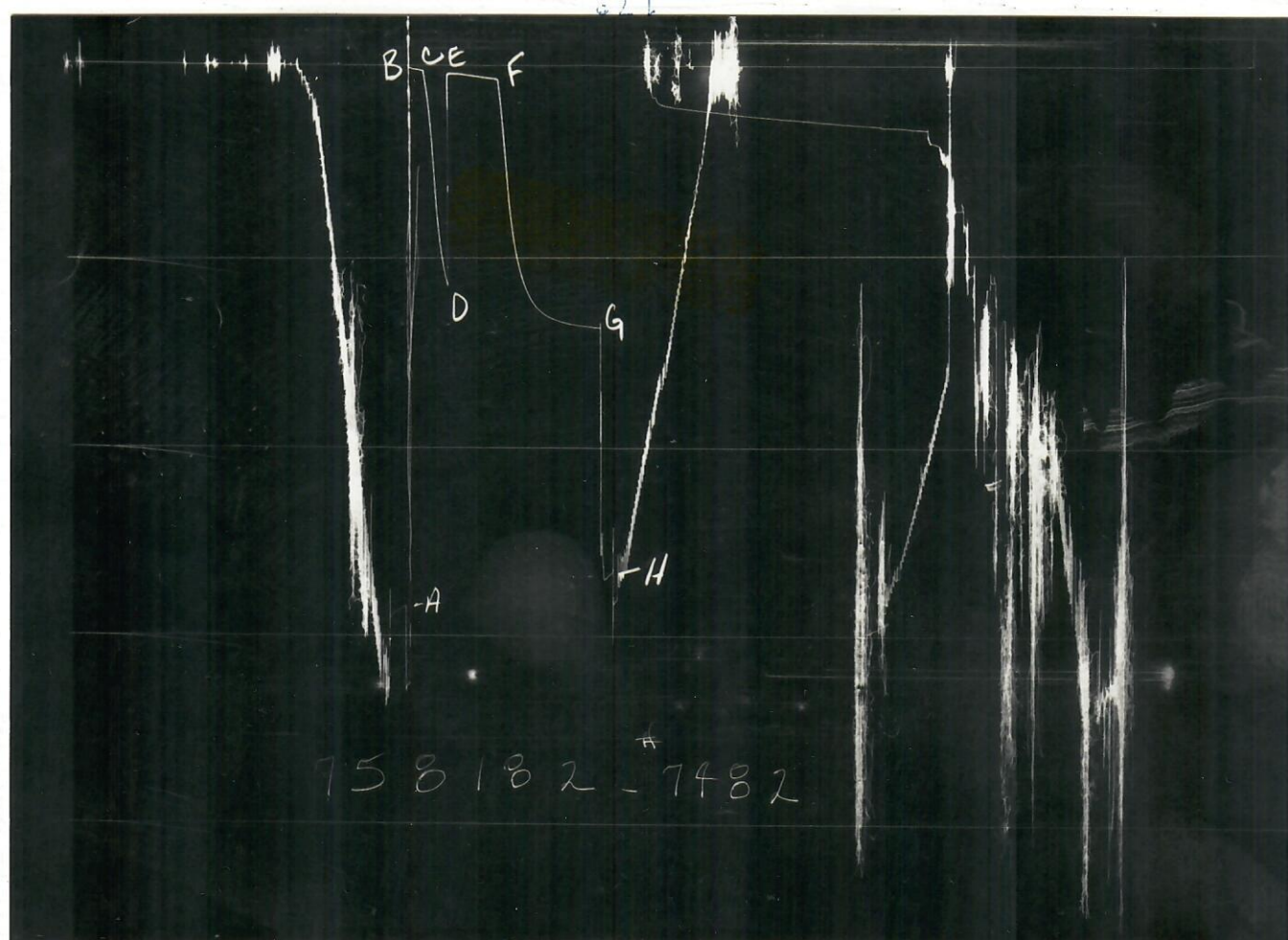


DST



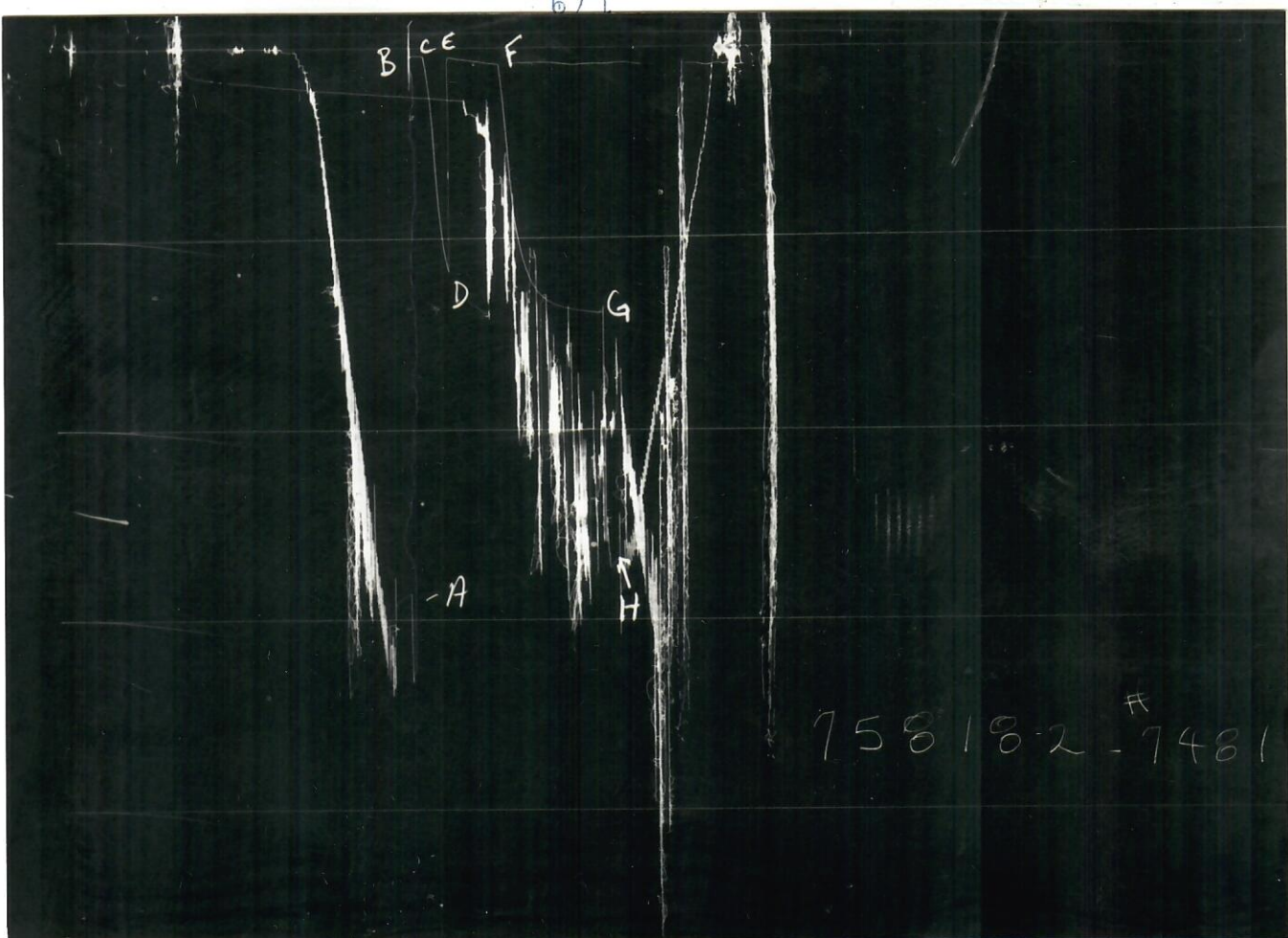
# HISTORY





GAUGE NO: 7482 DEPTH: 5674.0 BLANKED OFF: NO HOUR OF CLOCK: 24

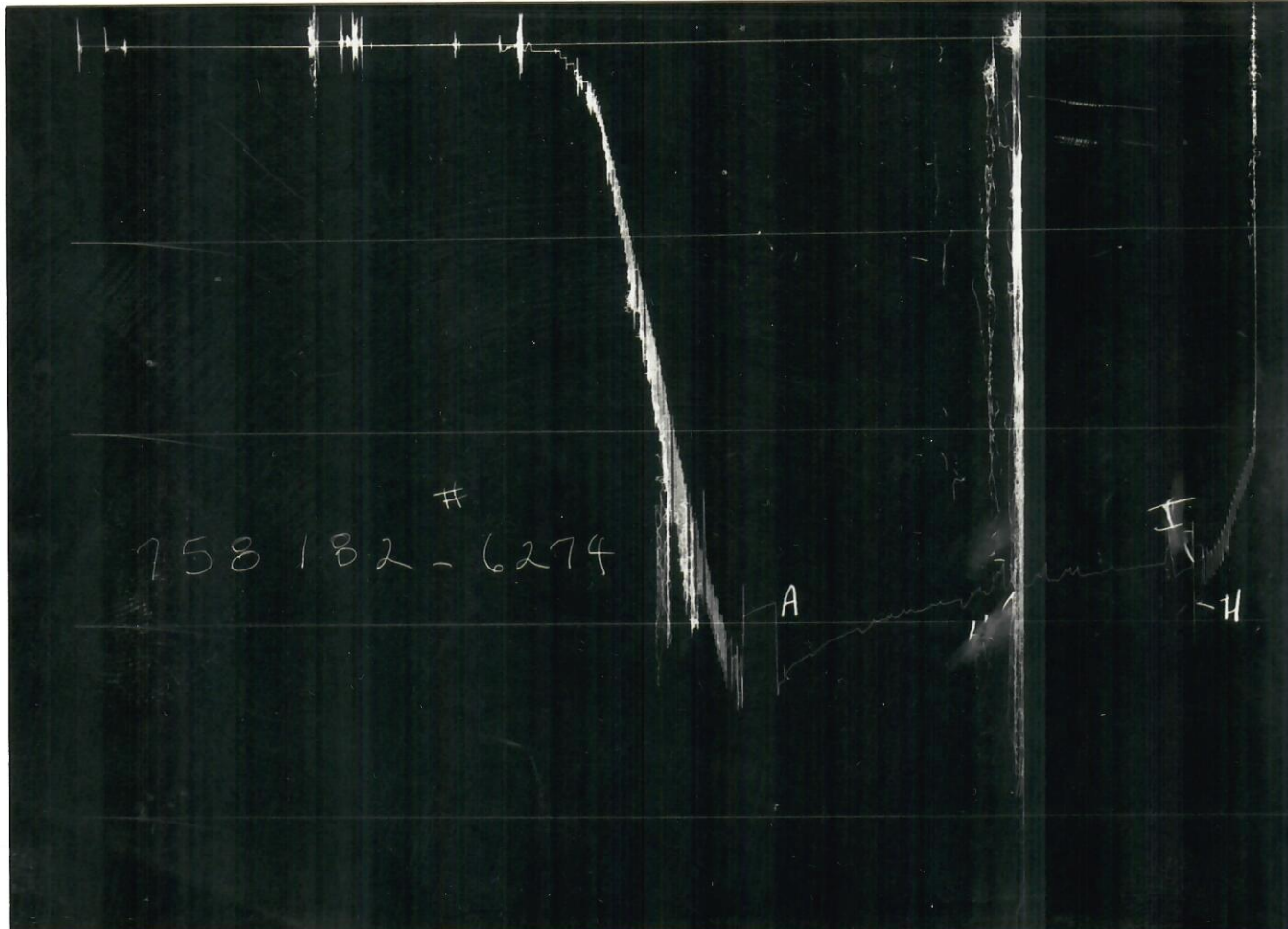
ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3202	2830.8			
B	INITIAL FIRST FLOW	27	11.6	15.0	17.1	F
C	FINAL FIRST FLOW	54	28.5			
C	INITIAL FIRST CLOSED-IN	54	28.5	30.0	28.3	C
D	FINAL FIRST CLOSED-IN	1149	1141.2			
E	INITIAL SECOND FLOW	54	51.2	60.0	60.0	F
F	FINAL SECOND FLOW	80	73.1			
F	INITIAL SECOND CLOSED-IN	80	73.1	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	1347	1361.6			
H	FINAL HYDROSTATIC	3016	2651.6			
I	HYDROSTATIC RELEASE					



GAUGE NO: 7481 DEPTH: 5707.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2989	2854.6			
B	INITIAL FIRST FLOW	54	42.2	15.0	17.1	F
C	FINAL FIRST FLOW	54	46.9			
C	INITIAL FIRST CLOSED-IN	54	46.9	30.0	28.3	C
D	FINAL FIRST CLOSED-IN	1175	1168.8			
E	INITIAL SECOND FLOW	54	61.0	60.0	60.0	F
F	FINAL SECOND FLOW	80	88.9			
F	INITIAL SECOND CLOSED-IN	80	88.9	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	1348	1385.5			
H	FINAL HYDROSTATIC		2668.4			
I	HYDROSTATIC RELEASE					





GAUGE NO: 6274 DEPTH: 5783.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2885.1			
B	INITIAL FIRST FLOW					
C	FINAL FIRST FLOW			15.0		F
C	INITIAL FIRST CLOSED-IN					
D	FINAL FIRST CLOSED-IN			30.0		C
E	INITIAL SECOND FLOW					
F	FINAL SECOND FLOW			60.0		F
F	INITIAL SECOND CLOSED-IN					
G	FINAL SECOND CLOSED-IN			120.0		C
H	FINAL HYDROSTATIC		2713.3			
I	HYDROSTATIC RELEASE		2551.7			

## EQUIPMENT & HOLE DATA

FORMATION TESTED: J-1 SAND  
NET PAY (ft): \_\_\_\_\_  
GROSS TESTED FOOTAGE: 19.0  
ALL DEPTHS MEASURED FROM: KELLY BUSHING  
CASING PERFS. (ft): \_\_\_\_\_  
HOLE OR CASING SIZE (in): 7.875  
ELEVATION (ft): 4947  
TOTAL DEPTH (ft): 5786.0  
PACKER DEPTH(S) (ft): 5686, 5693, 5712  
FINAL SURFACE CHOKE (in): \_\_\_\_\_  
BOTTOM HOLE CHOKE (in): 0.750  
MUD WEIGHT (lb/gal): 9.80  
MUD VISCOSITY (sec): 55  
ESTIMATED HOLE TEMP. (°F): 165  
ACTUAL HOLE TEMP. (°F): 165 @ 5782.0 ft

TICKET NUMBER: 75818200

DATE: 6-16-84 TEST NO: 1

TYPE DST: ON BTM.STRADDLE

HALLIBURTON CAMP:  
STERLING

TESTER: G.D. WILSON

WITNESS: CHRIS GOUGH

DRILLING CONTRACTOR:  
EXETER # 13

## FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>SAMPLER</u>	<u>2.500 @ 75 °F</u>	<u>1900 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

## SAMPLER DATA

Pstg AT SURFACE: 95  
cu.ft. OF GAS: 0.07  
cc OF OIL: 500  
cc OF WATER: 1700  
cc OF MUD: 0  
TOTAL LIQUID cc: 2200

## HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 41.0 @ 60°F  
GAS/OIL RATIO (cu.ft. per bbl): 15  
GAS GRAVITY: \_\_\_\_\_

## CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

MEASURED FROM  
TESTER VALVE

## REMARKS:

LOST DRILL STEM TEST TOOLS WHILE COMING OUT OF THE HOLE... TOOLS FELL  
1800' - PUSHED THEM TO BOTTOM WITH FISH AND CAME OUT OF THE HOLE.







TICKET NO: 75818200

CLOCK NO: 16768 HOUR: 24


 HALLIBURTON  
SERVICES

GAUGE NO: 7482

DEPTH: 5674.0

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	11.6			
2	2.0	13.9	2.3		
3	4.0	17.9	4.0		
4	6.0	19.8	1.9		
5	8.0	21.5	1.7		
6	10.0	22.9	1.3		
7	12.0	24.3	1.5		
8	14.0	26.6	2.3		
9	16.0	27.7	1.1		
C 10	17.1	28.5	0.8		

## FIRST CLOSED-IN

C 1	0.0	28.5			
2	2.0	82.0	53.5	1.8	0.972
3	4.0	148.8	120.3	3.2	0.720
4	6.0	220.7	192.2	4.4	0.587
5	8.0	325.4	296.9	5.5	0.495
6	10.0	424.7	396.3	6.3	0.433
7	12.0	555.9	527.4	7.0	0.384
8	14.0	679.5	651.0	7.7	0.345
9	16.0	784.0	755.6	8.3	0.315
10	18.0	871.3	842.8	8.7	0.290
11	20.0	947.1	918.6	9.2	0.267
12	22.0	1004.7	976.2	9.6	0.249
13	24.0	1058.4	1029.9	10.0	0.233
14	26.0	1098.9	1070.5	10.3	0.219
D 15	28.3	1141.2	1112.7	10.6	0.205

## SECOND FLOW

E 1	0.0	51.2			
2	10.0	44.9	-6.3		
3	20.0	49.2	4.3		
4	30.0	54.9	5.7		
5	40.0	60.7	5.7		
6	50.0	67.1	6.4		
F 7	60.0	73.1	6.0		

## SECOND CLOSED-IN

F 1	0.0	73.1			
2	8.0	470.1	396.9	7.2	1.027
3	16.0	828.1	754.9	13.2	0.765
4	24.0	1034.3	961.1	18.3	0.624
5	32.0	1152.4	1079.3	22.6	0.532
6	40.0	1224.5	1151.4	26.3	0.466
7	48.0	1270.4	1197.3	29.6	0.416
8	56.0	1297.5	1224.3	32.4	0.376

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
9	64.0	1315.6	1242.5	35.0	0.343
10	72.0	1328.8	1255.7	37.2	0.316
11	80.0	1338.4	1265.3	39.2	0.293
12	88.0	1345.1	1271.9	41.1	0.273
13	96.0	1351.1	1277.9	42.7	0.256
14	104.0	1354.8	1281.7	44.2	0.241
15	112.0	1359.6	1286.5	45.6	0.227
G 16	120.0	1361.6	1288.5	46.9	0.215

REMARKS:

TICKET NO: 75818200

CLOCK NO: 17405 HOUR: 24

HALLIBURTON  
SERVICES

GAUGE NO: 7481

DEPTH: 5707.0

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	42.2			
2	2.0	46.8	4.5		
3	4.0	44.1	-2.7		
4	6.0	43.2	-0.9		
5	8.0	43.3	0.1		
6	10.0	43.3	0.0		
7	12.0	44.1	0.8		
8	14.0	44.9	0.8		
9	16.0	45.6	0.7		
C 10	17.1	46.9	1.3		

## FIRST CLOSED-IN

C 1	0.0	46.9			
2	2.0	106.4	59.5	1.8	0.974
3	4.0	167.2	120.3	3.2	0.722
4	6.0	241.2	194.3	4.4	0.585
5	8.0	332.9	286.0	5.4	0.496
6	10.0	445.7	398.8	6.3	0.433
7	12.0	585.6	538.6	7.0	0.384
8	14.0	708.6	661.6	7.7	0.346
9	16.0	807.5	760.6	8.3	0.315
10	18.0	900.1	853.2	8.8	0.290
11	20.0	975.3	928.3	9.2	0.268
12	22.0	1041.1	994.2	9.6	0.249
13	24.0	1090.2	1043.3	10.0	0.233
14	26.0	1132.9	1086.0	10.3	0.219
D 15	28.3	1168.8	1121.9	10.6	0.205

## SECOND FLOW

E 1	0.0	61.0			
2	10.0	57.6	-3.3		
3	20.0	63.5	5.9		
4	30.0	69.0	5.5		
5	40.0	76.2	7.2		
6	50.0	82.9	6.7		
F 7	60.0	88.9	6.0		


## SECOND CLOSED-IN

F 1	0.0	88.9			
2	8.0	466.7	377.8	7.3	1.026
3	16.0	865.0	776.1	13.3	0.764
4	24.0	1067.2	978.3	18.3	0.624
5	32.0	1185.1	1096.2	22.6	0.533
6	40.0	1256.2	1167.3	26.3	0.466
7	48.0	1298.7	1209.8	29.6	0.416
8	56.0	1324.5	1235.6	32.4	0.376

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
9	64.0	1341.4	1252.5	35.0	0.343
10	72.0	1354.2	1265.3	37.2	0.316
11	80.0	1362.7	1273.8	39.2	0.293
12	88.0	1369.2	1280.3	41.1	0.273
13	96.0	1374.0	1285.1	42.7	0.256
14	104.0	1379.2	1290.3	44.3	0.241
15	112.0	1383.0	1294.1	45.6	0.227
G 16	120.0	1385.5	1296.6	46.9	0.215

REMARKS:





		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	4877.0	
4	FLEX WEIGHT.....	4.500	2.764	331.0	
3	DRILL COLLARS.....	6.250	2.250	332.0	
50	IMPACT REVERSING SUB.....	6.250	3.000	1.0	5540.0
3	DRILL COLLARS.....	6.250	2.250	120.0	
5	CROSSOVER.....	6.000	2.250	1.0	
13	DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	5672.0
80	AP RUNNING CASE.....	5.000	3.060	4.1	5674.0
15	JAR.....	5.000	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	2.8	
17	PRESSURE EQUALIZING CROSSOVER...	5.000		1.0	
70	OPEN HOLE PACKER.....	5.250	1.530	5.8	5686.0
70	OPEN HOLE PACKER.....	5.250	1.530	7.5	5693.0
20	FLUSH JOINT ANCHOR.....	5.000	2.370	10.0	
10	SLIP JOINT.....	5.000		1.0	
80	AP RUNNING CASE.....	5.000	3.060	4.1	5707.0
70	OPEN HOLE PACKER.....	5.250	1.530	5.8	5712.0
5	CROSSOVER.....	5.000	2.500	0.6	
20	FLUSH JOINT ANCHOR.....	5.000	2.370	1.0	
5	CROSSOVER.....	6.000	2.250	1.0	
4	FLEX WEIGHT.....	4.500	2.764	61.0	
5	CROSSOVER.....	6.000	2.250	1.0	
20	FLUSH JOINT ANCHOR.....	5.000	2.370	1.0	
81	BLANKED-OFF RUNNING CASE.....	5.000		4.1	5783.0
TOTAL DEPTH					5786.0

EQUIPMENT DATA