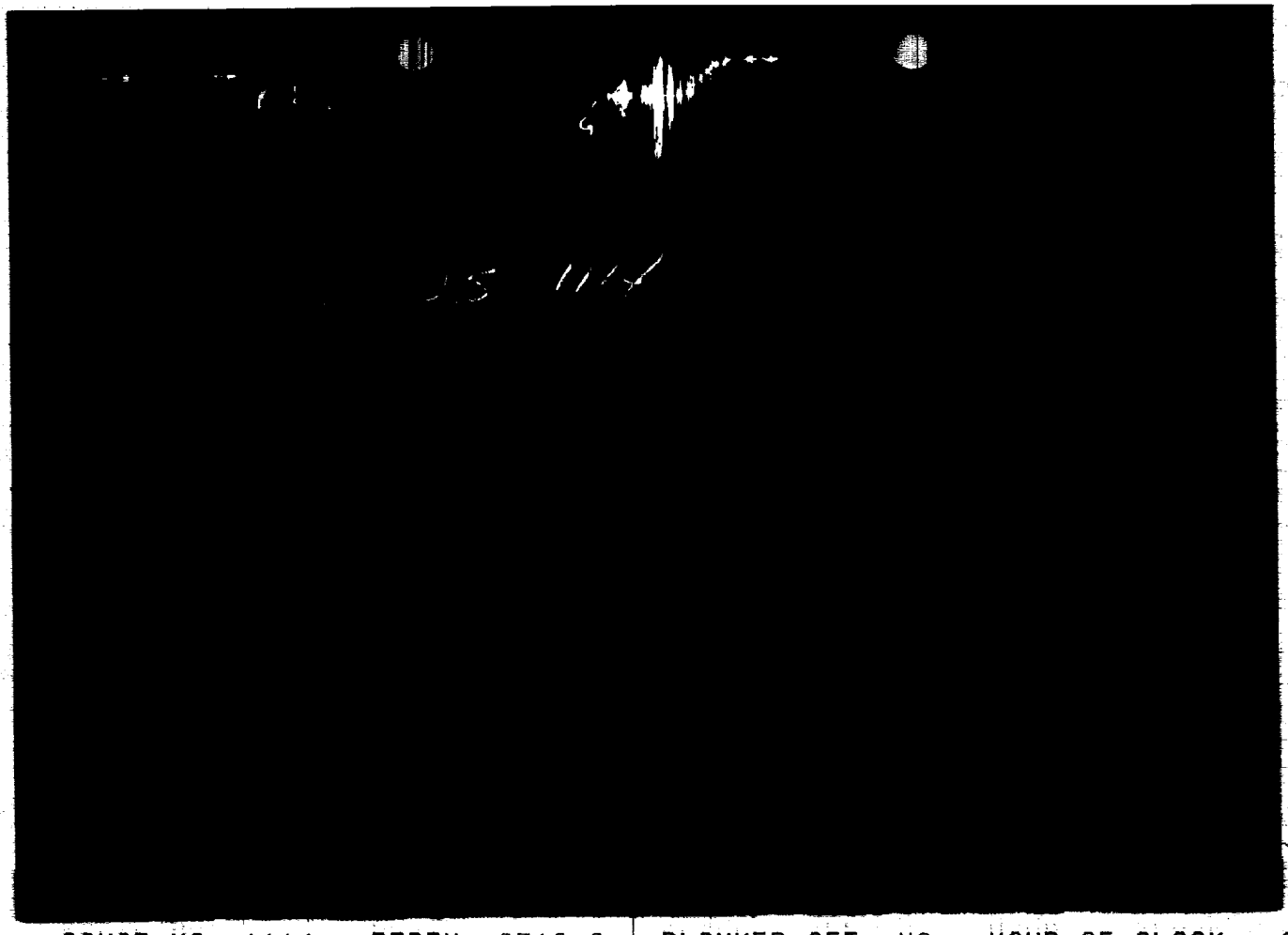
HALLIBURTON
SERVICES

TICKET NO. 62482500
20-DEC-83
ARTESIA

FORMATION TESTING SERVICE REPORT

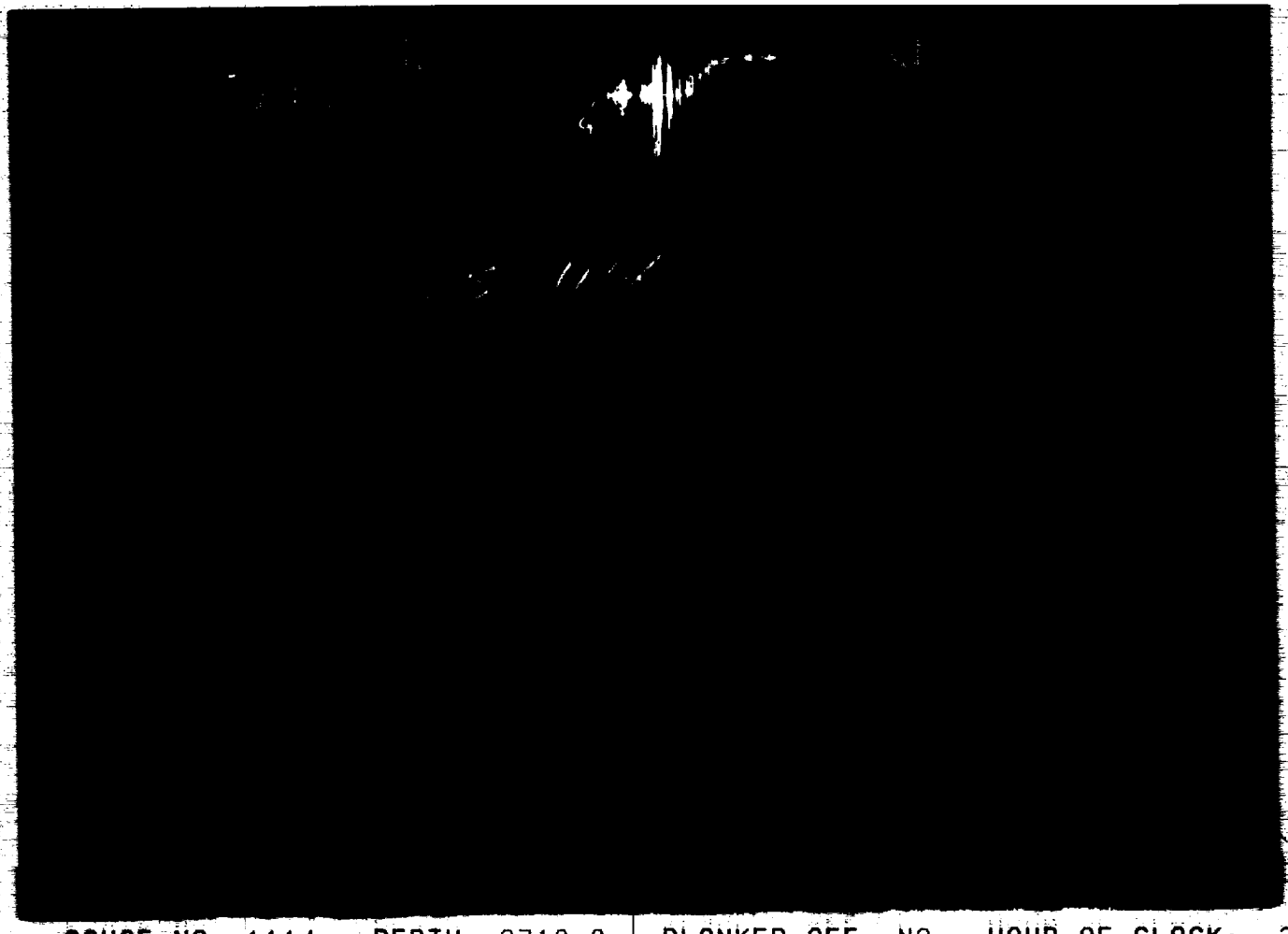
BEARD OLA	1	2	2750.' - 2812.'	EXXON COMPANY, U.S.A.
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE
11-23S-2E	E. LAS CRUCES	DONA ANA	NEW MEXICO IC



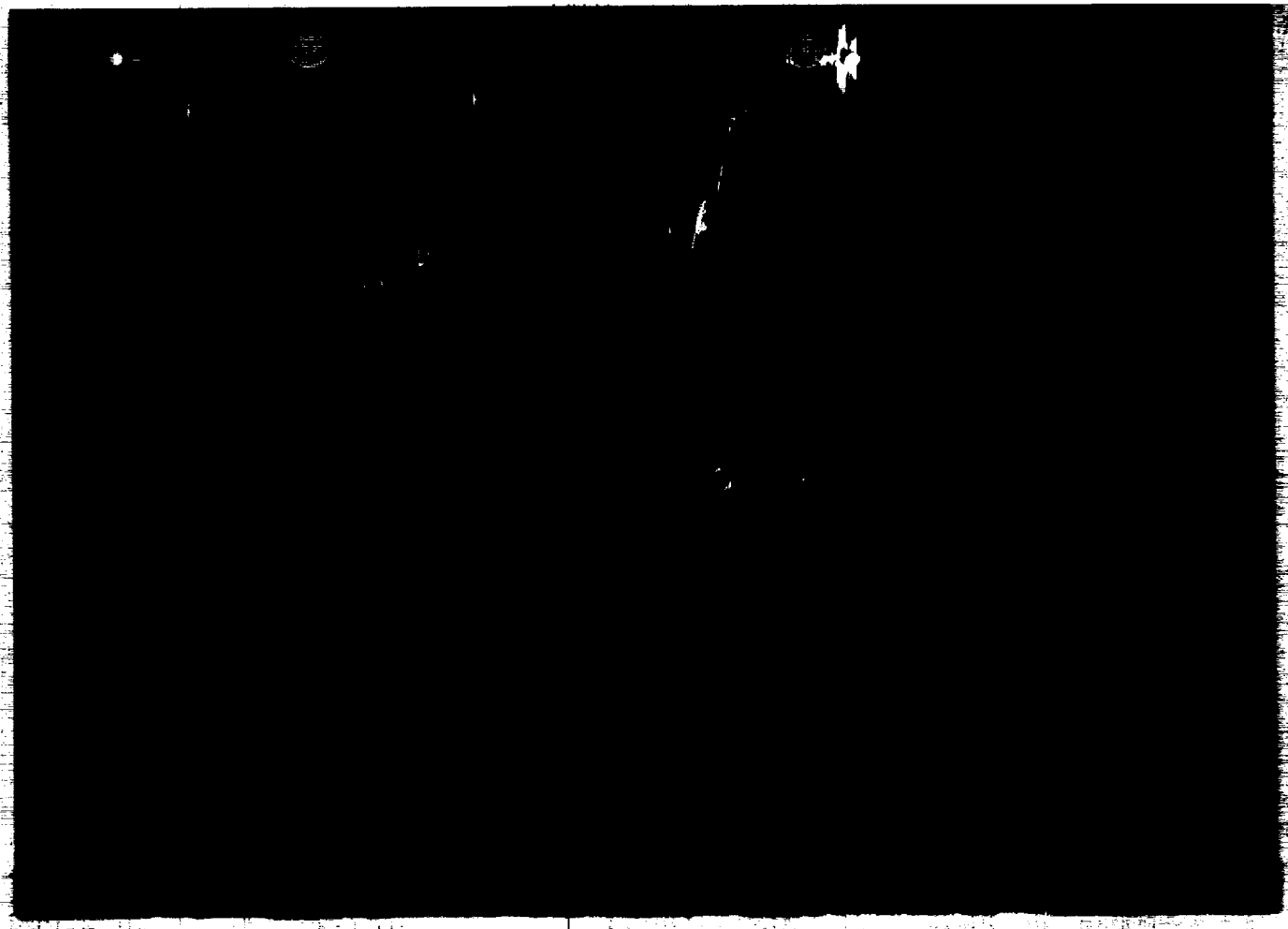
GAUGE NO: 1114 DEPTH: 2710.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW	64	74.4	13.0	12.5	F
C	FINAL FIRST FLOW	64	92.8			
C	INITIAL FIRST CLOSED-IN	64	92.8	60.0	57.7	C
D	FINAL FIRST CLOSED-IN	64	103.4			
E	INITIAL SECOND FLOW	224	103.4	60.0	61.5	F
F	FINAL SECOND FLOW	224	218.4			
F	INITIAL SECOND CLOSED-IN	224	218.4	240.0	241.3	C
G	FINAL SECOND CLOSED-IN	224	226.9			
H	FINAL HYDROSTATIC					



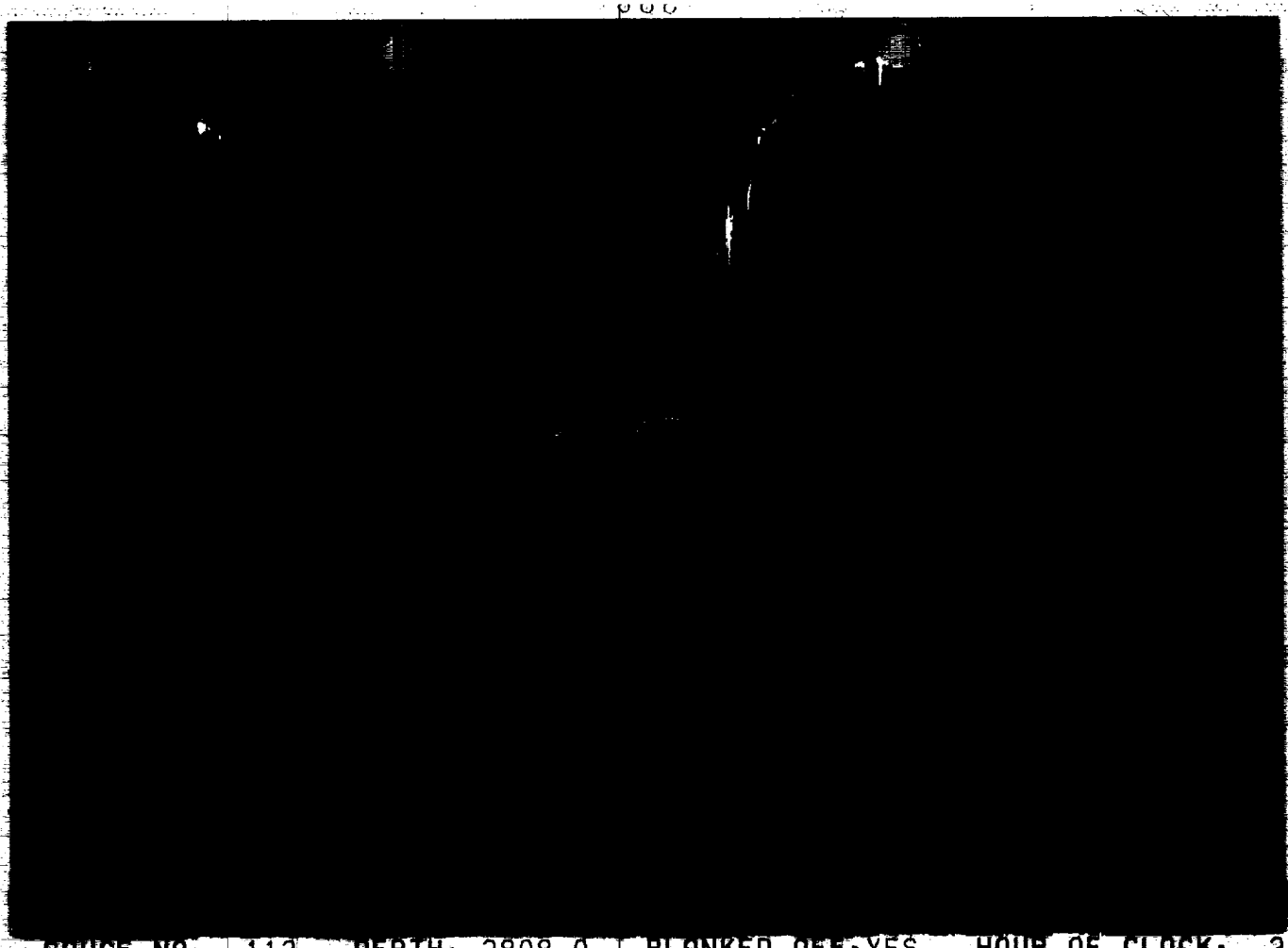
GAUGE NO: 1114 DEPTH: 2710.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC					
B	INITIAL FIRST FLOW	64	74.4	13.0	12.5	F
C	FINAL FIRST FLOW	64	92.8			
C	INITIAL FIRST CLOSED-IN	64	92.8	60.0	57.7	C
D	FINAL FIRST CLOSED-IN	64	103.4			
E	INITIAL SECOND FLOW	224	103.4	60.0	61.5	F
F	FINAL SECOND FLOW	224	218.4			
F	INITIAL SECOND CLOSED-IN	224	218.4	240.0	241.3	C
G	FINAL SECOND CLOSED-IN	224	226.9			
H	FINAL HYDROSTATIC					



GAUGE NO: 512 DEPTH: 2726.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1195	1205.6			
B	INITIAL FIRST FLOW		91.2	13.0	12.5	F
C	FINAL FIRST FLOW	94	110.4			
C	INITIAL FIRST CLOSED-IN	94	110.4	60.0	57.7	C
D	FINAL FIRST CLOSED-IN	967	969.9			
E	INITIAL SECOND FLOW	108	119.9	60.0	61.5	F
F	FINAL SECOND FLOW	243	234.9			
F	INITIAL SECOND CLOSED-IN	243	234.9	240.0	241.3	C
G	FINAL SECOND CLOSED-IN	967	969.9			
H	FINAL HYDROSTATIC	1195	1202.3			



GAUGE NO: 113 DEPTH: 2808.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1231	1217.1			
B	INITIAL FIRST FLOW	118	110.7	13.0	12.5	F
C	FINAL FIRST FLOW	131	131.9			
C	INITIAL FIRST CLOSED-IN	131	131.9	60.0	57.7	C
D	FINAL FIRST CLOSED-IN	995	145.5			
E	INITIAL SECOND FLOW	131	144.6	60.0	61.5	F
F	FINAL SECOND FLOW	249	253.3			
F	INITIAL SECOND CLOSED-IN	249	253.3	240.0	241.3	C
G	FINAL SECOND CLOSED-IN	982	985.6			
H	FINAL HYDROSTATIC	1231	1218.9			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MONTOYA
NET PAY (ft): 12.0
GROSS TESTED FOOTAGE: 62.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 4318
TOTAL DEPTH (ft): 2812.0
PACKER DEPTH(S) (ft): 2744, 2751
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 8.60
MUD VISCOSITY (sec): 33
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 150 @ 2805.0 ft

TICKET NUMBER: 62482500

DATE: 12-4-83 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: ARTESIA

TESTER: PHILLIPS

WITNESS: D. SMITH, R. MESSENGER

DRILLING CONTRACTOR: BAYLESS DRILLING #7

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
MUD PIT		@ °F	300 ppm
SAMPLER	1.560	@ 72 °F	37000 ppm
		@ °F	ppm
		@ °F	ppm
		@ °F	ppm
		@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: 0
cu.ft. OF GAS: 0.00
cc OF OIL: 0
cc OF WATER: 0
cc OF MUD: 2247
TOTAL LIQUID cc: 2247

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT
SEE REMARKS		

RECOVERED:

145 FEET OF CUSHION CHEMICAL
270 FEET OF DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

ELEVATION AT GROUND LEVEL IS 4293'.

RAN 30 GALLONS OF S.V. 70 H2S SCAVANGER FOR CUSHION.

TIGHT HOLE...TIGHT HOLE.

TYPE & SIZE MEASURING DEVICE: POSITIVE CERAMIC CHOKE | TICKET NO: 62482500

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-3-83					
2300					ON LOCATION
2400					PICKED UP TOOLS
12-4-83					
0250					SHUT DOWN-WAITED ON DAYLIGHT
0545					SET PACKER
0547	BH				OPENED TOOL WITH NO BLOW
0555	BH				NO BLOW
0600	BH				CLOSED TOOL
0700	BH				OPENED TOOL WITH NO BLOW
0800	BH				CLOSED TOOL
1200	BH				PULLED LOOSE
1530					TOOLS ON BANK
					NO GAS TO SURFACE

TICKET NO: 62482500	GAUGE NO: 1114
CLOCK NO: 11955 HOUR: 24	DEPTH: 2710.0

HALLIBURTON SERVICES

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	74.4			
	2	2.0	75.2	0.8		
	3	4.0	77.1	1.9		
	4	6.0	79.6	2.6		
	5	8.0	83.3	3.7		
	6	10.0	87.7	4.3		
C	7	12.5	92.8	5.1		
			FIRST CLOSED-IN			
C	1	0.0	92.8			
D	2	57.7	103.4	10.6	10.3	0.085
			SECOND FLOW			
E	1	0.0	103.4			
	2	10.0	118.3	14.9		
	3	20.0	139.7	21.5		
	4	30.0	158.8	19.1		
	5	40.0	178.5	19.7		
	6	50.0	196.8	18.3		
F	7	61.5	218.4	21.6		
			SECOND CLOSED-IN			
F	1	0.0	218.4			
G	2	241.3	226.9	8.5	56.6	0.116

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

REMARKS:

TICKET NO: 62482500		GAUGE NO: 512
CLOCK NO: 13428 HOUR: 24	HALLIBURTON SERVICES	DEPTH: 2726.0

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	91.2			
	2	2.0	92.2	0.9		
	3	4.0	93.3	1.1		
	4	6.0	96.5	3.2		
	5	8.0	100.5	4.0		
	6	10.0	105.5	5.0		
C	7	12.5	110.4	4.9		
			FIRST CLOSED-IN			
C	1	0.0	110.4			
	2	1.0	837.8	727.5	0.9	1.139
	3	2.0	947.2	836.8	1.7	0.863
	4	3.0	957.0	846.6	2.4	0.710
	5	4.0	961.8	851.4	3.0	0.615
	6	5.0	964.6	854.2	3.6	0.543
	7	6.0	966.0	855.7	4.0	0.490
	8	7.0	967.4	857.0	4.5	0.444
	9	8.0	968.3	857.9	4.9	0.410
	10	9.0	968.6	858.2	5.2	0.378
	11	10.0	969.1	858.7	5.6	0.352
	12	15.0	969.1	858.7	6.8	0.263
	13	20.0	969.1	858.7	7.7	0.211
	14	25.0	969.1	858.7	8.3	0.176
	15	30.0	969.9	859.5	8.8	0.151
	16	35.0	969.9	859.5	9.2	0.133
	17	40.0	969.9	859.5	9.5	0.118
	18	45.0	969.9	859.5	9.8	0.106
	19	50.0	969.9	859.5	10.0	0.097
	20	55.0	969.9	859.5	10.2	0.089
D	21	57.7	969.9	859.5	10.3	0.085
			SECOND FLOW			
E	1	0.0	119.9			
	2	10.0	134.0	14.0		
	3	20.0	154.3	20.4		
	4	30.0	174.0	19.7		
	5	40.0	194.3	20.4		
	6	50.0	214.2	19.8		
F	7	61.5	234.9	20.8		
			SECOND CLOSED-IN			
F	1	0.0	234.9			
	2	1.0	901.2	666.3	0.9	1.892
	3	2.0	940.9	706.0	2.0	1.577
	4	3.0	949.6	714.7	2.9	1.413
	5	4.0	955.3	720.4	3.8	1.290

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	6	5.0	958.6	723.7	4.7	1.197
	7	6.0	960.7	725.8	5.5	1.126
	8	7.0	962.3	727.4	6.4	1.061
	9	8.0	963.8	728.9	7.2	1.011
	10	9.0	964.6	729.7	8.0	0.966
	11	10.0	965.1	730.2	8.8	0.924
	12	15.0	966.6	731.7	12.5	0.774
	13	20.0	967.1	732.2	15.8	0.672
	14	25.0	967.9	733.0	18.7	0.597
	15	30.0	968.4	733.5	21.3	0.540
	16	35.0	969.1	734.2	23.7	0.494
	17	40.0	969.1	734.2	25.9	0.455
	18	50.0	969.1	734.2	29.8	0.395
	19	60.0	969.1	734.2	33.1	0.349
	20	90.0	969.9	735.0	40.6	0.261
	21	120.0	969.9	735.0	45.8	0.209
	22	180.0	969.9	735.0	52.4	0.150
G	23	241.3	969.9	735.0	56.6	0.116

REMARKS:

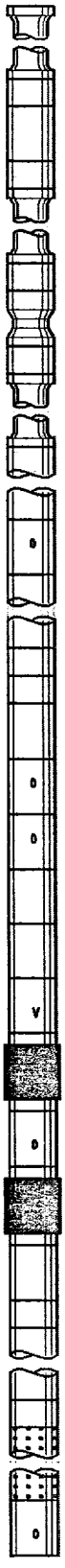
TICKET NO: 62482500		GAUGE NO: 113
CLOCK NO: 7282 HOUR: 24	HALLIBURTON SERVICES	DEPTH: 2808.0

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	110.7			
	2	2.0	116.0	5.2		
	3	4.0	117.7	1.7		
	4	6.0	119.4	1.7		
	5	8.0	128.4	9.0		
	6	10.0	130.8	2.4		
C	7	12.5	131.9	1.2		
			FIRST CLOSED-IN			
C	1	0.0	131.9			
	2	1.0	979.5	847.5	0.9	1.148
	3	2.0	981.2	849.2	1.7	0.865
	4	3.0	981.9	850.0	2.4	0.711
	5	4.0	982.5	850.5	3.1	0.612
	6	5.0	983.0	851.0	3.6	0.543
	7	6.0	983.5	851.6	4.1	0.487
	8	7.0	983.9	852.0	4.5	0.446
	9	8.0	984.2	852.2	4.9	0.408
	10	9.0	984.3	852.4	5.2	0.378
	11	10.0	984.3	852.4	5.5	0.353
	12	15.0	984.7	852.7	6.8	0.263
	13	20.0	984.7	852.7	7.7	0.211
	14	25.0	984.7	852.7	8.3	0.176
	15	30.0	985.1	853.1	8.8	0.151
	16	35.0	985.1	853.1	9.2	0.133
	17	40.0	985.1	853.1	9.5	0.118
	18	45.0	985.1	853.1	9.8	0.106
	19	50.0	985.9	853.9	10.0	0.097
	20	55.0	985.9	853.9	10.2	0.089
D	21	57.7	145.5	13.6	10.3	0.085
			SECOND FLOW			
E	1	0.0	144.6			
	2	10.0	159.3	14.7		
	3	20.0	177.1	17.8		
	4	30.0	191.0	13.9		
	5	40.0	210.7	19.8		
	6	50.0	234.2	23.4		
F	7	61.5	253.3	19.1		
			SECOND CLOSED-IN			
F	1	0.0	253.3			
	2	1.0	961.0	707.7	0.9	1.894
	3	2.0	968.2	714.9	1.9	1.585
	4	3.0	972.5	719.2	2.8	1.415
	5	4.0	974.6	721.3	3.8	1.289

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	6	5.0	977.0	723.7	4.7	1.199
	7	6.0	978.3	725.0	5.6	1.124
	8	7.0	978.9	725.7	6.4	1.064
	9	8.0	979.7	726.4	7.2	1.012
	10	9.0	980.4	727.1	8.0	0.965
	11	10.0	980.8	727.5	8.8	0.925
	12	15.0	981.8	728.5	12.5	0.773
	13	20.0	982.5	729.2	15.7	0.673
	14	25.0	983.0	729.7	18.7	0.598
	15	30.0	983.4	730.1	21.4	0.539
	16	35.0	983.9	730.6	23.8	0.493
	17	40.0	984.3	731.0	25.9	0.455
	18	50.0	984.3	731.0	29.8	0.394
	19	60.0	984.6	731.3	33.1	0.349
	20	90.0	985.3	732.1	40.6	0.261
	21	120.0	985.6	732.3	45.8	0.209
	22	180.0	985.6	732.3	52.4	0.150
G	23	241.3	985.6	732.3	56.6	0.116

REMARKS:

TICKET NO. 62482500



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	1993.4	
5	CROSSOVER.....	4.500	2.253	1.2	
93	FUL-FLO SAFETY VALVE.....	5.000	2.353	4.7	1999.2
5	CROSSOVER.....	4.500	2.253	1.3	
1	DRILL PIPE.....	4.500	3.250	93.8	
5	CROSSOVER.....	4.500	2.253	2.2	
14	EXTENSION JOINT.....	5.000	2.281	6.0	
5	CROSSOVER.....	4.500	2.283	1.0	
1	DRILL PIPE.....	4.500	3.250	63.8	
3	DRILL COLLARS.....	6.187	2.375	419.7	
50	IMPACT REVERSING SUB.....	5.980	2.375	0.9	2587.9
3	DRILL COLLARS.....	6.187	2.375	120.2	
5	CROSSOVER.....	5.980	5.400	1.1	
5	CROSSOVER.....	5.740	2.300	1.7	
80	AP RUNNING CASE.....	5.000	3.060	4.1	2710.9
13	DUAL CIP SAMPLER.....	5.000	0.870	6.8	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	2721.8
80	AP RUNNING CASE.....	5.000	3.060	4.2	2726.7
15	JAR.....	5.030	1.750	5.0	
16	VR SAFETY JOINT.....	5.000	1.000	2.8	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	2744.5
18	DISTRIBUTOR VALVE.....	5.000	1.680	2.0	
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	2750.6
19	ANCHOR PIPE SAFETY JOINT.....	5.750	1.500	4.3	
5	CROSSOVER.....	5.700	3.140	1.0	
3	DRILL COLLARS.....	6.187	2.375	30.7	
5	CROSSOVER.....	5.980	2.400	1.1	
20	FLUSH JOINT ANCHOR.....	5.750	2.870	18.6	
81	BLANKED-OFF RUNNING CASE.....	5.750		4.0	2808.0

TOTAL DEPTH 2812.0

EQUIPMENT DATA