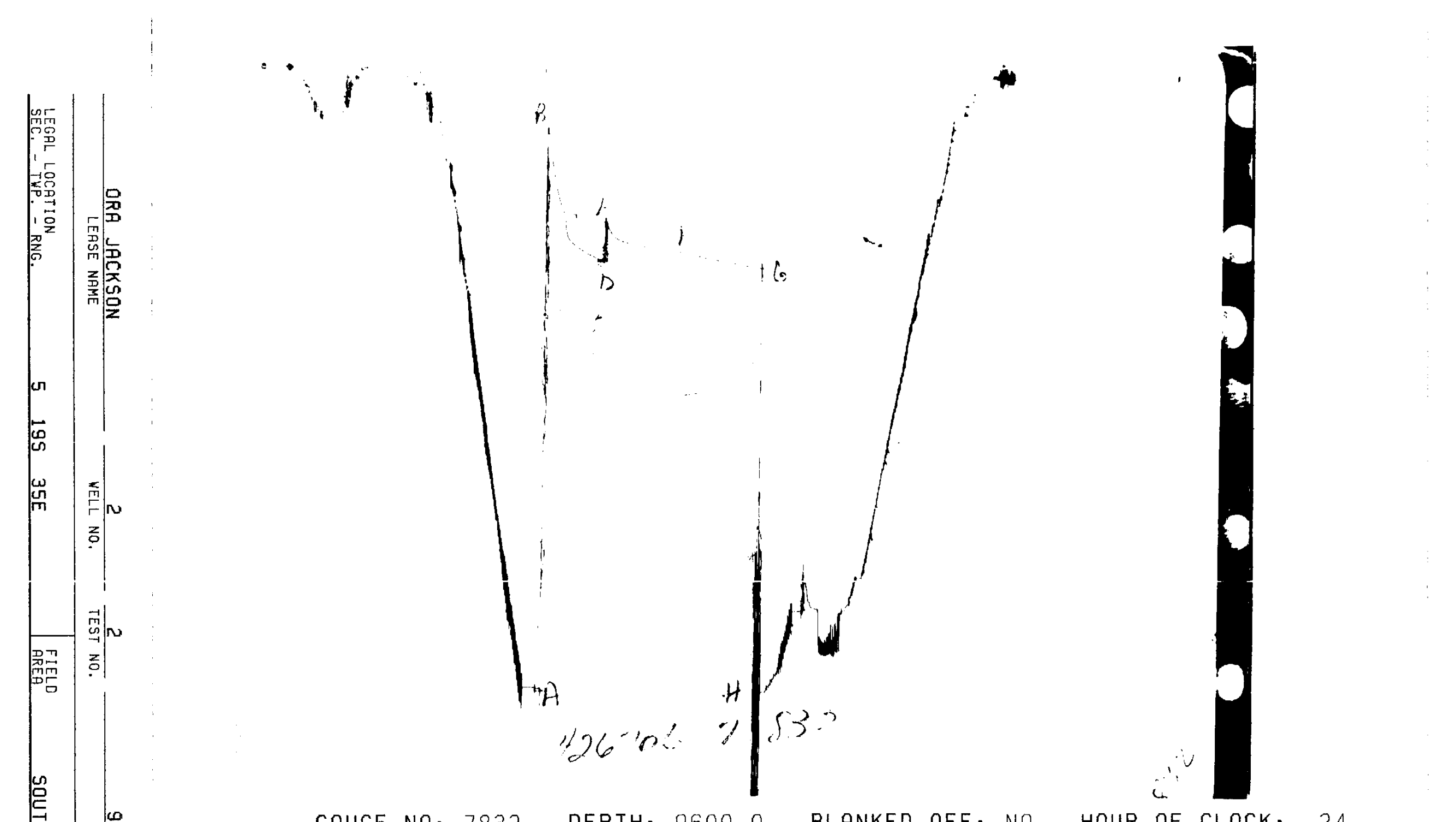
HALLIBURTON
SERVICES

TICKET NO. 42670600
17-JAN-83
HOBBS

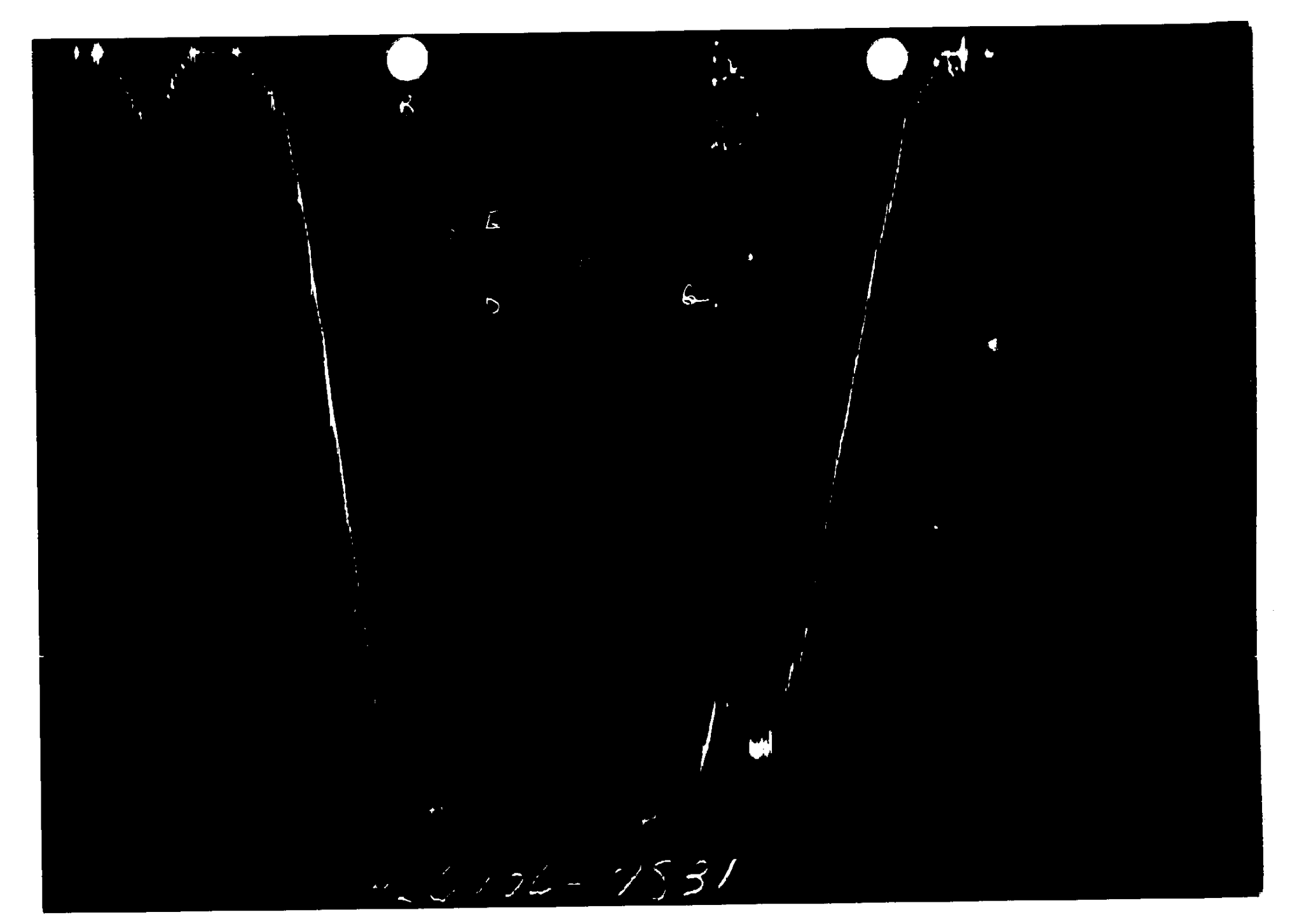
FORMATION TESTING SERVICE REPORT

ORA JACKSON	LEASE NAME
2	WELL NO.
2	TEST NO.
9620.' - 9646.'	TESTED INTERVAL
JOSEPH I. O'NEILL, JR.	LEASE OWNER/COMPANY NAME
5 19S 35E	LEGAL LOCATION SEC. - TWP. - RNG.
SOUTH BUCKEYE	FIELD AREA
LEA	COUNTY
NEW MEXICO	STATE
I/J	



GAUGE NO: 7832 DEPTH: 9600.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4280	4287.9			
B	INITIAL FIRST FLOW	408	396.3	30.0	30.4	F
C	FINAL FIRST FLOW	1000	1014.4			
C	INITIAL FIRST CLOSED-IN	1000	1014.4	58.0	57.6	C
D	FINAL FIRST CLOSED-IN	1310	1321.8			
E	INITIAL SECOND FLOW	1000	1044.5	120.0	120.0	F
F	FINAL SECOND FLOW	1243	1250.9			
F	INITIAL SECOND CLOSED-IN	1243	1250.9	120.0	120.1	C
G	FINAL SECOND CLOSED-IN	1351	1351.5			
H	FINAL HYDROSTATIC	4280	4299.7			



GAUGE NO: 7831 DEPTH: 9643.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE REPORTED	PRESSURE CALCULATED	TIME REPORTED	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4267	4310.3			
B	INITIAL FIRST FLOW	435	427.8	30.0	30.4	F
C	FINAL FIRST FLOW	1041	1042.5			
C	INITIAL FIRST CLOSED-IN	1041	1042.5	58.0	57.6	C
D	FINAL FIRST CLOSED-IN	1351	1343.9			
E	INITIAL SECOND FLOW	1041	1067.0	120.0	120.0	F
F	FINAL SECOND FLOW	1270	1271.2			
F	INITIAL SECOND CLOSED-IN	1270	1271.2	120.0	120.1	C
G	FINAL SECOND CLOSED-IN	1351	1371.3			
H	FINAL HYDROSTATIC	4267	4305.6			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MIDDLE BONE SPRINGS
NET PAY (ft): 20.0
GROSS TESTED FOOTAGE: 26.0
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 3880
TOTAL DEPTH (ft): 9646.0
PACKER DEPTH(S) (ft): 9613, 9620
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 8.50
MUD VISCOSITY (sec): 34
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 139 @ 9643.0 ft

TICKET NUMBER: 42670600
DATE: 1-12-83 TEST NO: 2
TYPE DST: OPEN HOLE
HALLIBURTON CAMP: HOBBS
TESTER: ROBERTS
FULLER
WITNESS: ROBERT JOHNSON
DRILLING CONTRACTOR: T M B R DRILLING, INCORPORATED

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
SAMPLER	0.058 @ 70 °F	118000 ppm
TOOL TOP	0.060 @ 70 °F	114000 ppm
TOP OF RECOVERY	0.192 @ 70 °F	23000 ppm
1ST FLUID CHANGE	0.069 @ 70 °F	90000 ppm
2ND FLUID CHANGE	0.058 @ 70 °F	116000 ppm
PIT SAMPLE	0.687 @ 0 °F	5000 ppm

SAMPLER DATA

Psig AT SURFACE: 290
cu.ft. OF GAS: 0.20
cc OF OIL: 0
cc OF WATER: 2400
cc OF MUD: 0
TOTAL LIQUID cc: 2400

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

925 FEET OF HEAVY GAS CUT OIL.
940 FEET OF OIL AND GAS CUT FORMATION FLUID.
398 FEET OF FORMATION FLUID, WITH TRACE OF OIL & GAS
1365 FEET OF FORMATION FLUID.
3628 FEET OF TOTAL RECOVERY.

MEASURED FROM TESTER VALVE

REMARKS:

	SAMPLER
S.G.	1.129
PH	5.7
CA	3600
MG	1640
SO 4	1300
HCO 3	705
FE	TRACE

SAMPLER DATA: C.C.'S OF OIL = TRACE

TYPE & SIZE MEASURING DEVICE: POSITIVE CHOKE TICKET NO: 42670600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1-12-83					
0250					PICKED UP TOOLS.
0400					WENT IN HOLE. HAD DRILL COLLAR
					LEAK. HAD TO PULL OUT OF HOLE.
					LAID DOWN 2 COLLARS.
1048	BH				TOOL OPENED WITH A FAIR 3"
					BLOW, INCREASING.
1053	"				GOOD BLOW TO BOTTOM OF BUCKET.
1058	"	1 1/2			INCREASING.
1103	"	1 3/4			"
1108	"	2			STEADY.
1113	"	2			"
1118	"	1 3/4			DECREASING. CLOSED TOOL.
1216	"				TOOL OPENED WITH A FAIR IN-
					CREASING BLOW.
1221	"	3/8			INCREASING.
1226	"	1/2			"
1231	"	5/8			"
1236	"	5/8			"
1241	"				SLIGHT DECREASE.
1246	"	1/2			"
1251	"				"
1256	"				"
1301	"	3/8			"
1306	"	3/8			STEADY.
1311	"	3/8			"
1316	"	3/8			"
1321	"	1/2			INCREASE.
1326	"	1/2			STEADY.
1331	"	1/2			"
1336	"	1/2			"
1341	"				SLIGHT INCREASE.
1346	"	5/8			"
1351	"	5/8			STEADY.
1416	"	5/8			STEADY. CLOSED TOOL.
1616					BYPASSED TOOLS.
1715					14 STANDS OUT HIT RAW GAS IN

TYPE & SIZE MEASURING DEVICE: POSITIVE CHOKE TICKET NO: 42670600

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
					PIPE. REVERSED OUT.

TICKET NO: 42670600
CLOCK NO: 4099 HOUR: 24

HALLIBURTON SERVICES

GAUGE NO: 7832
DEPTH: 9600.0

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	396.3			
	2	2.0	437.0	40.6		
	3	4.0	492.5	55.6		
	4	6.0	563.4	70.9		
	5	8.0	626.7	63.3		
	6	10.0	684.1	57.4		
	7	12.0	735.8	51.6		
	8	14.0	781.3	45.6		
	9	16.0	824.5	43.1		
	10	18.0	858.5	34.0		
	11	20.0	894.1	35.6		
	12	22.0	923.7	29.6		
	13	24.0	948.3	24.6		
	14	26.0	973.3	25.0		
	15	28.0	995.7	22.4		
C	16	30.4	1014.4	18.7		
			FIRST CLOSED-IN			
C	1	0.0	1014.4			
	2	1.0	1116.2	101.8	1.0	1.498
	3	2.0	1136.8	122.4	1.8	1.216
	4	3.0	1152.3	137.9	2.7	1.047
	5	4.0	1163.1	148.7	3.5	0.935
	6	5.0	1170.6	156.2	4.3	0.853
	7	6.0	1177.2	162.8	5.0	0.780
	8	7.0	1184.4	169.9	5.7	0.728
	9	8.0	1188.8	174.4	6.4	0.679
	10	9.0	1193.1	178.7	6.9	0.641
	11	10.0	1197.3	182.9	7.5	0.606
	12	12.0	1205.8	191.4	8.6	0.549
	13	14.0	1213.5	199.1	9.6	0.500
	14	16.0	1221.4	207.0	10.5	0.462
	15	18.0	1228.2	213.7	11.3	0.429
	16	20.0	1234.6	220.2	12.1	0.401
	17	22.0	1240.3	225.9	12.8	0.376
	18	24.0	1247.2	232.7	13.4	0.355
	19	26.0	1253.0	238.5	14.0	0.336
	20	28.0	1258.6	244.2	14.6	0.319
	21	29.9	1263.1	248.7	15.1	0.304
	22	35.0	1277.0	262.5	16.3	0.271
	23	40.0	1287.6	273.2	17.3	0.245
	24	45.0	1299.3	284.9	18.1	0.224
	25	50.0	1310.9	296.5	18.9	0.206
	26	55.0	1322.5	308.1	19.6	0.191
D	27	57.6	1321.8	307.4	19.9	0.184
			SECOND FLOW			
E	1	0.0	1044.5			

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			SECOND FLOW - CONTINUED			
	2	10.0	1130.2	85.7		
	3	20.0	1168.6	38.4		
	4	30.0	1186.5	17.9		
	5	40.0	1198.1	11.6		
	6	50.0	1207.0	8.9		
	7	60.0	1215.0	8.0		
	8	70.0	1221.6	6.6		
	9	80.0	1227.8	6.2		
	10	90.0	1234.0	6.2		
	11	100.0	1240.0	6.1		
	12	110.0	1245.0	5.0		
F	13	120.0	1250.9	5.9		
			SECOND CLOSED-IN			
F	1	0.0	1250.9			
	2	10.0	1262.8	11.9	9.4	1.206
	3	20.0	1272.6	21.7	17.6	0.931
	4	30.0	1281.9	31.0	25.0	0.779
	5	40.0	1290.4	39.5	31.6	0.677
	6	50.0	1299.7	48.8	37.5	0.603
	7	60.0	1307.4	56.5	42.9	0.545
	8	70.0	1316.2	65.2	47.8	0.498
	9	80.0	1323.2	72.2	52.2	0.459
	10	90.0	1330.5	79.5	56.3	0.427
	11	100.0	1337.9	86.9	60.1	0.399
	12	110.0	1345.0	94.1	63.5	0.374
G	13	120.1	1351.5	100.5	66.8	0.353

REMARKS:

TICKET NO: 42670600
CLOCK NO: 5991 HOUR: 24

HALLIBURTON SERVICES

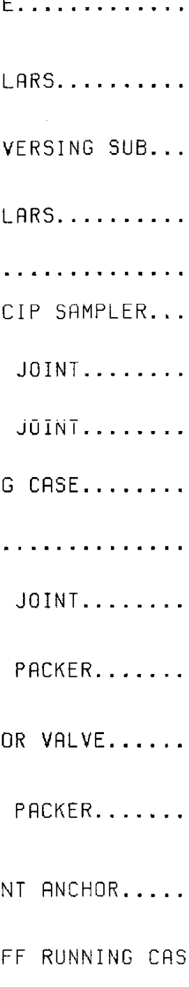
GAUGE NO: 7831
DEPTH: 9643.0

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	427.8			
	2	2.0	486.4	58.7		
	3	4.0	550.5	64.1		
	4	6.0	609.3	58.7		
	5	8.0	669.6	60.3		
	6	10.0	718.1	48.5		
	7	12.0	764.9	46.8		
	8	14.0	806.5	41.5		
	9	16.0	845.4	39.0		
	10	18.0	886.2	40.7		
	11	20.0	915.1	28.9		
	12	22.0	948.5	33.5		
	13	24.0	974.2	25.7		
	14	26.0	997.6	23.4		
	15	28.0	1019.5	22.0		
C	16	30.4	1042.5	22.9		
			FIRST CLOSED-IN			
C	1	0.0	1042.5			
	2	1.0	1154.6	112.1	1.0	1.490
	3	2.0	1178.3	135.8	1.9	1.209
	4	3.0	1187.6	145.1	2.7	1.044
	5	4.0	1193.9	151.5	3.6	0.931
	6	5.0	1200.8	158.4	4.3	0.846
	7	6.0	1205.5	163.1	5.0	0.780
	8	7.0	1210.1	167.7	5.7	0.726
	9	8.0	1215.5	173.0	6.3	0.682
	10	9.0	1220.1	177.6	6.9	0.641
	11	10.0	1224.3	181.8	7.5	0.606
	12	12.0	1231.4	188.9	8.6	0.548
	13	14.0	1238.8	196.4	9.6	0.501
	14	16.0	1245.8	203.4	10.5	0.462
	15	18.0	1253.1	210.6	11.3	0.429
	16	20.0	1258.5	216.0	12.1	0.401
	17	22.0	1264.4	222.0	12.8	0.377
	18	24.0	1270.2	227.8	13.4	0.355
	19	26.0	1275.9	233.4	14.0	0.336
	20	28.0	1280.7	238.3	14.6	0.319
	21	30.0	1286.1	243.7	15.1	0.304
	22	35.0	1298.4	255.9	16.2	0.271
	23	40.0	1309.7	267.3	17.3	0.245
	24	45.0	1320.9	278.4	18.1	0.224
	25	50.0	1331.3	288.8	18.9	0.206
	26	55.0	1340.4	298.0	19.6	0.191
D	27	57.6	1343.9	301.5	19.9	0.184
			SECOND FLOW			
E	1	0.0	1067.0			

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
			SECOND FLOW - CONTINUED			
	2	10.0	1154.2	87.2		
	3	20.0	1188.9	34.8		
	4	30.0	1206.1	17.1		
	5	40.0	1217.5	11.5		
	6	50.0	1226.0	8.5		
	7	60.0	1234.2	8.2		
	8	70.0	1242.0	7.8		
	9	80.0	1248.5	6.5		
	10	90.0	1254.2	5.7		
	11	100.0	1260.4	6.2		
	12	110.0	1265.4	5.0		
F	13	120.0	1271.2	5.8		
			SECOND CLOSED-IN			
F	1	0.0	1271.2			
	2	10.0	1282.2	11.1	9.4	1.203
	3	20.0	1294.1	22.9	17.6	0.931
	4	30.0	1303.5	32.3	25.0	0.779
	5	40.0	1312.0	40.8	31.6	0.677
	6	50.0	1320.1	48.9	37.5	0.603
	7	60.0	1328.0	56.9	42.9	0.545
	8	70.0	1334.6	63.5	47.8	0.498
	9	80.0	1343.8	72.6	52.2	0.459
	10	90.0	1351.8	80.6	56.3	0.427
	11	100.0	1358.9	87.7	60.0	0.399
	12	110.0	1365.5	94.3	63.5	0.374
G	13	120.1	1371.3	100.1	66.8	0.353

REMARKS:

TICKET NO. 42670600



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE......................	4.500	3.826	8881.0	
3	DRILL COLLARS...................	6.500	2.250	597.0	
50	IMPACT REVERSING SUB...........	6.000	2.875	1.0	9479.0
3	DRILL COLLARS...................	6.500	2.250	100.0	
5	CROSSOVER......................	6.000	2.250	1.0	
62	MULTIPLE CIP SAMPLER...........	5.000	0.750	9.0	9583.0
14	EXTENSION JOINT.................	5.000	0.870	5.0	
14	EXTENSION JOINT.................	5.000	0.870	5.0	
80	AP RUNNING CASE.................	5.000	3.060	4.0	9600.0
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	5.0	9613.0
18	DISTRIBUTOR VALVE...............	5.000	1.680	2.0	
70	OPEN HOLE PACKER................	6.750	1.530	5.0	9620.0
20	FLUSH JOINT ANCHOR..............	5.750	3.500	19.0	
81	BLANKED-OFF RUNNING CASE........	5.750		4.0	9643.0
	TOTAL DEPTH				9646.0

EQUIPMENT DATA