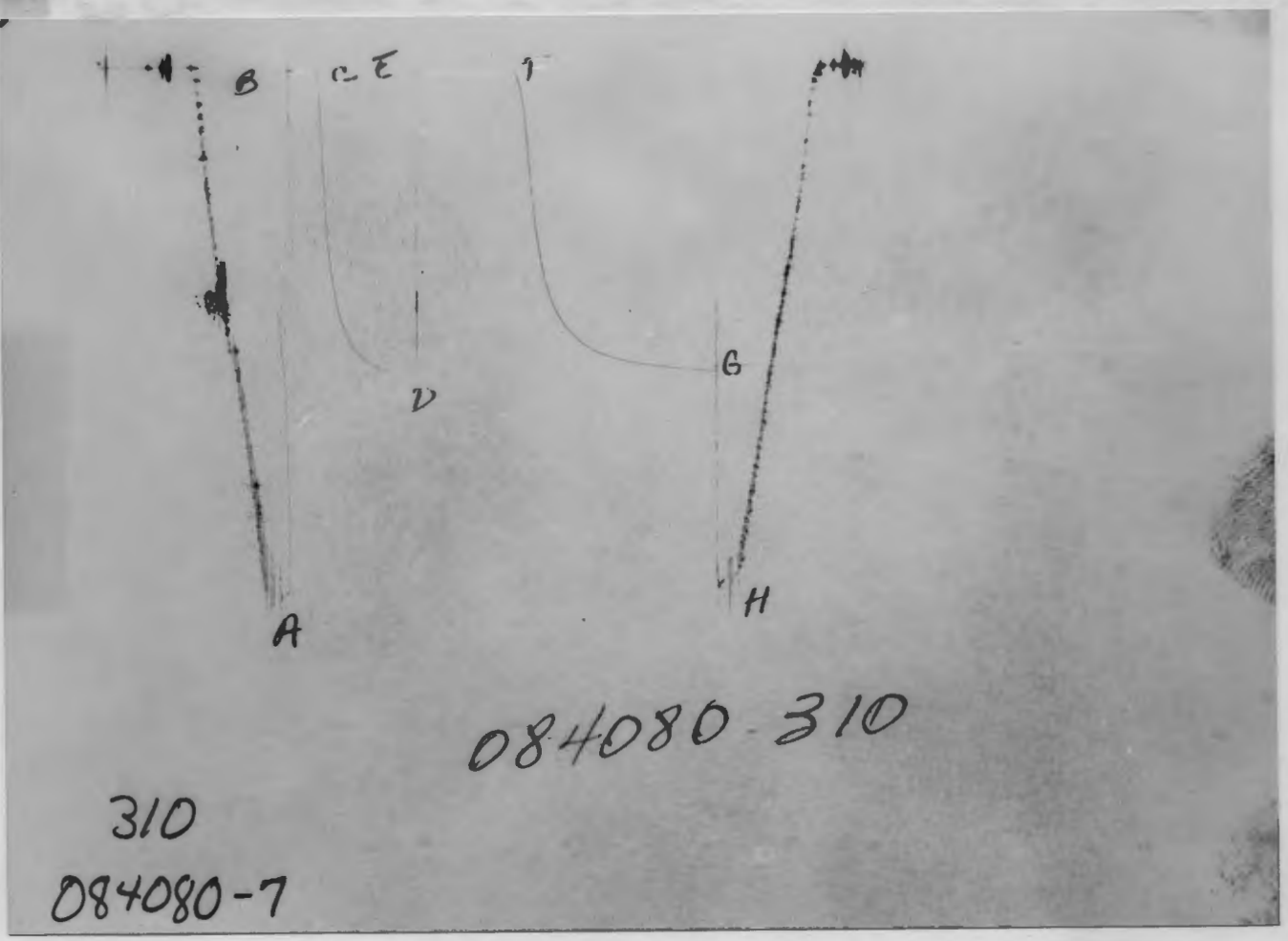
LEASE NAME	WELL NO.	TEST NO.	LEASE OWNER/COMPANY NAME
NORDMAN GJP	1-23	2	PAN WESTERN ENERGY CORPORATION

LEGAL LOCATION SEC. - TWP. - RNG.	FIELD AREA	COUNTY	STATE	TESTED INTERVAL
23-18-15		BARTON	KANSAS IC	3526.7 - 3545.0

HALLIBURTON
SERVICES

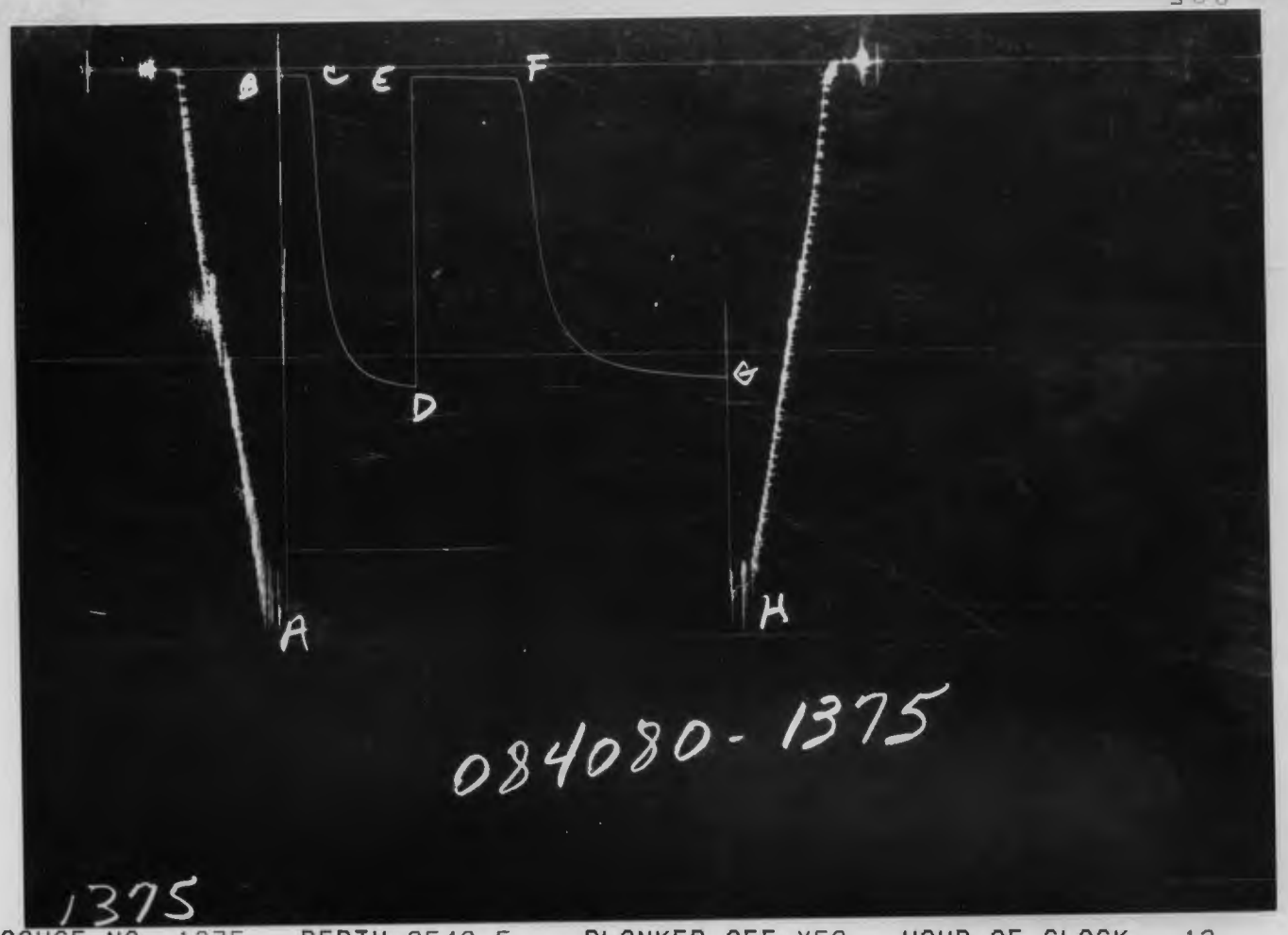
TICKET NO. 08408000
17-DEC-85
GREAT BEND

FORMATION TESTING SERVICE REPORT



GAUGE NO: 310 DEPTH: 3513.4 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		1831.3			
B	INITIAL FIRST FLOW		10.3	15.0	16.2	F
C	FINAL FIRST FLOW		11.9			
C	INITIAL FIRST CLOSED-IN		11.9	60.0	60.1	C
D	FINAL FIRST CLOSED-IN		1110.4			
E	INITIAL SECOND FLOW		24.0	60.0	59.8	F
F	FINAL SECOND FLOW		29.4			
F	INITIAL SECOND CLOSED-IN		29.4	120.0	118.9	C
G	FINAL SECOND CLOSED-IN		1091.0			
H	FINAL HYDROSTATIC		1830.5			



GAUGE NO: 1375 DEPTH: 3542.5 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1873	1839.8			
B	INITIAL FIRST FLOW	18	25.1	15.0	16.2	F
C	FINAL FIRST FLOW	18	27.5			
C	INITIAL FIRST CLOSED-IN	18	27.5	60.0	60.1	C
D	FINAL FIRST CLOSED-IN	1126	1121.3			
E	INITIAL SECOND FLOW	36	38.7	60.0	59.8	F
F	FINAL SECOND FLOW	36	44.3			
F	INITIAL SECOND CLOSED-IN	36	44.3	120.0	118.9	C
G	FINAL SECOND CLOSED-IN	1089	1102.5			
H	FINAL HYDROSTATIC	1819	1838.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: ARBUCKLE
NET PAY (ft):
GROSS TESTED FOOTAGE: 18.3
ALL DEPTHS MEASURED FROM: KELLY BUSHING
CASING PERFS. (ft):
HOLE OR CASING SIZE (in): 7.875
ELEVATION (ft): 1927.0 KELLY BUSHING
TOTAL DEPTH (ft): 3545.0
PACKER DEPTH(S) (ft): 3521, 3527
FINAL SURFACE CHOKE (in):
BOTTOM HOLE CHOKE (in): 0.750
MUD WEIGHT (lb/gal): 9.90
MUD VISCOSITY (sec): 44
ESTIMATED HOLE TEMP. (°F):
ACTUAL HOLE TEMP. (°F): 109 @ 3540.9 ft

TICKET NUMBER: 08408000

DATE: 12-12-85 TEST NO: 2

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: GREAT BEND

TESTER: D. BROZEK

WITNESS: LEWIS O. CHUBB

DRILLING CONTRACTOR: MOHAWK #7

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY		CHLORIDES
PIT MUD	____ @ ____	°F	77000 ppm
____	____ @ ____	°F	____ ppm
____	____ @ ____	°F	____ ppm
____	____ @ ____	°F	____ ppm
____	____ @ ____	°F	____ ppm
____	____ @ ____	°F	____ ppm

SAMPLER DATA

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

HYDROCARBON PROPERTIES

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

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

45 FEET OF DRILLING MUD
SPIN OUT: 97.5% MUD
2.5% WATER

MEASURED FROM TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE: ______ | TICKET NO: 08408000

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
12-12-85					
1230					CALLED OUT
1315					ON LOCATION
1420					MADE UP TOOL
1455					STARTED IN HOLE
1458					ON BOTTOM
1502					OPENED TOOL
1517					CLOSED TOOL
1617					OPENED TOOL
1717					CLOSED TOOL
1917					OFF BOTTOM

TICKET NO: 08408000

CLOCK NO: 4153 HOUR: 12

HALLIBURTON SERVICES

GAUGE NO: 310

DEPTH: 3513.4

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	10.3			
	2	3.0	10.9	0.5		
	3	6.0	10.9	0.0		
	4	9.0	10.9	0.0		
	5	12.0	10.9	0.0		
	6	15.0	11.2	0.4		
C	7	16.2	11.9	0.7		
			FIRST CLOSED-IN			
C	1	0.0	11.9			
	2	4.0	343.1	331.1	3.2	0.707
	3	8.0	699.7	687.7	5.4	0.480
	4	12.0	853.5	841.5	6.9	0.370
	5	16.0	931.2	919.3	8.0	0.303
	6	20.0	984.8	972.9	8.9	0.258
	7	24.0	1021.9	1009.9	9.7	0.224
	8	28.0	1045.2	1033.2	10.3	0.198
	9	32.0	1063.2	1051.2	10.7	0.178
	10	36.0	1075.5	1063.6	11.2	0.161
	11	40.0	1085.5	1073.5	11.5	0.147
	12	44.0	1092.7	1080.8	11.8	0.136
	13	48.0	1098.6	1086.7	12.1	0.126
	14	52.0	1103.2	1091.3	12.3	0.118
	15	56.0	1107.6	1095.6	12.6	0.110
D	16	60.1	1110.4	1098.4	12.7	0.103
			SECOND FLOW			
E	1	0.0	24.0			
	2	10.0	21.5	-2.5		
	3	20.0	22.1	0.6		
	4	30.0	22.9	0.8		
	5	40.0	24.3	1.4		
	6	50.0	26.7	2.4		
F	7	59.8	29.4	2.7		
			SECOND CLOSED-IN			
F	1	0.0	29.4			
	2	8.0	351.6	322.2	7.2	1.023
	3	16.0	737.1	707.7	13.2	0.759
	4	24.0	880.3	850.9	18.2	0.620
	5	32.0	951.8	922.4	22.5	0.529
	6	40.0	995.1	965.7	26.2	0.462
	7	48.0	1023.0	993.6	29.4	0.412
	8	56.0	1040.9	1011.5	32.2	0.372
	9	64.0	1052.7	1023.3	34.7	0.340
	10	72.0	1063.1	1033.7	37.0	0.313

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	11	80.0	1070.1	1040.7	39.0	0.290
	12	88.0	1076.1	1046.7	40.8	0.270
	13	96.0	1081.3	1051.9	42.4	0.253
	14	104.0	1085.7	1056.3	43.9	0.238
	15	112.0	1089.7	1060.3	45.3	0.225
G	16	118.9	1091.0	1061.6	46.4	0.215

REMARKS:

TICKET NO: 08408000	GAUGE NO: 1375
CLOCK NO: 14235 HOUR: 12	DEPTH: 3542.5

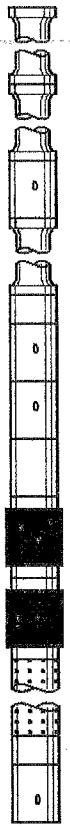
HALLIBURTON SERVICES

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	25.1			
	2	3.0	25.0	-0.1		
	3	6.0	25.0	0.0		
	4	9.0	25.1	0.1		
	5	12.0	25.7	0.6		
	6	15.0	26.7	1.0		
C	7	16.2	27.5	0.8		
			FIRST CLOSED-IN			
C	1	0.0	27.5			
	2	4.0	311.9	284.3	3.2	0.706
	3	8.0	689.6	662.0	5.3	0.481
	4	12.0	850.0	822.5	6.9	0.371
	5	16.0	935.1	907.6	8.0	0.303
	6	20.0	991.5	964.0	8.9	0.258
	7	24.0	1029.9	1002.4	9.7	0.224
	8	28.0	1055.6	1028.1	10.3	0.198
	9	32.0	1075.0	1047.5	10.7	0.178
	10	36.0	1087.6	1060.1	11.2	0.161
	11	40.0	1097.5	1070.0	11.5	0.148
	12	44.0	1104.3	1076.8	11.8	0.136
	13	48.0	1109.8	1082.2	12.1	0.126
	14	52.0	1114.6	1087.1	12.3	0.118
	15	56.0	1118.5	1091.0	12.6	0.110
D	16	60.1	1121.3	1093.7	12.7	0.103
			SECOND FLOW			
E	1	0.0	38.7			
	2	10.0	35.1	-3.6		
	3	20.0	36.2	1.1		
	4	30.0	38.4	2.2		
	5	40.0	40.3	1.9		
	6	50.0	42.0	1.7		
F	7	59.8	44.3	2.3		
			SECOND CLOSED-IN			
F	1	0.0	44.3			
	2	8.0	377.2	332.9	7.2	1.021
	3	16.0	759.4	715.1	13.2	0.759
	4	24.0	899.6	855.3	18.2	0.620
	5	32.0	969.3	925.0	22.5	0.528
	6	40.0	1010.9	966.6	26.2	0.462
	7	48.0	1035.4	991.1	29.4	0.412
	8	56.0	1052.4	1008.1	32.2	0.373
	9	64.0	1065.1	1020.9	34.7	0.340
	10	72.0	1074.3	1030.0	37.0	0.313

REF		MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t+\Delta t}$	$\log \frac{t+\Delta t}{\Delta t}$
			SECOND CLOSED-IN - CONTINUED			
	11	80.0	1081.7	1037.4	39.0	0.290
	12	88.0	1087.6	1043.4	40.8	0.270
	13	96.0	1092.4	1048.1	42.4	0.253
	14	104.0	1096.4	1052.1	43.9	0.238
	15	112.0	1098.8	1054.6	45.3	0.225
G	16	118.9	1102.5	1058.2	46.4	0.215

REMARKS:

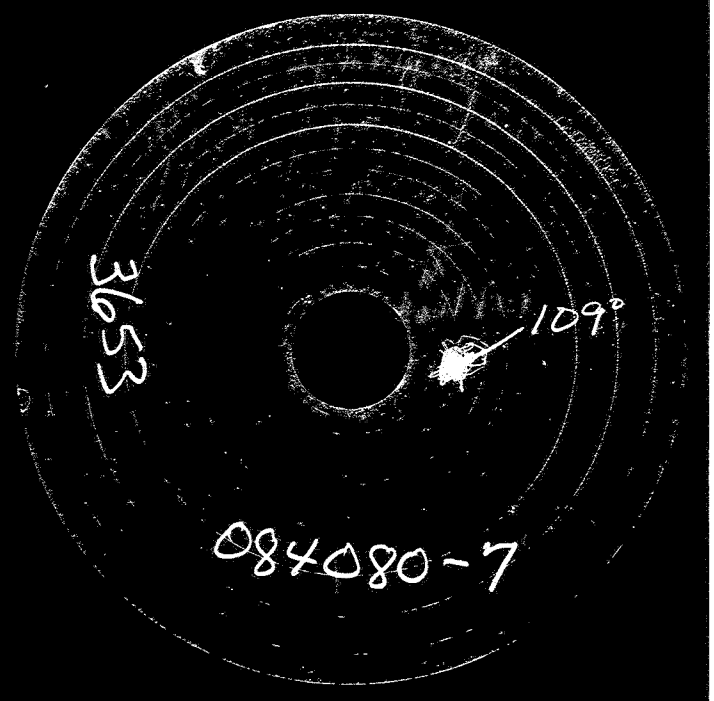
TICKET NO. 08408000



		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE.....	4.500	3.826	3081.6	
4	FLEX WEIGHT.....	4.500	2.764	294.0	
50	IMPACT REVERSING SUB.....	5.750	2.750	1.0	3376.6
4	FLEX WEIGHT.....	4.500	2.764	124.0	
5	CROSSOVER.....	4.500	3.820	1.0	
12	DUAL CIP VALVE.....	5.750	0.870	6.0	
60	HYDROSPRING TESTER.....	5.000	0.750	5.0	3512.1
80	AP RUNNING CASE.....	5.000	2.250	4.1	3513.4
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3520.9
70	OPEN HOLE PACKER.....	6.750	1.530	5.8	3526.7
20	FLUSH JOINT ANCHOR.....	5.000	2.370	11.0	
83	HT-500 TEMPERATURE CASE.....	5.000		1.5	3540.9
81	BLANKED-OFF RUNNING CASE.....	5.000		4.1	3542.5
	TOTAL DEPTH				3545.0

EQUIPMENT DATA

TEMPERATURE RECORDER CHART



10° each circle