

DST REPORT

GENERAL INFORMATION

DATE : 3/12/95
CUSTOMER : HUMMON CORPORATION
WELL : #5-9 TEST: 1
ELEVATION: 2161 KB
SECTION : 9
RANGE : 18W COUNTY: COMANCHE
GAUGE SN#: 1051 RANGE : 4250
TICKET : 21379
LEASE : UHL
GEOLOGIST: ARDEN RATZLAFF
FORMATION: MARMATON
TOWNSHIP : 36S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4917.00 ft TO: 4932.00 ft TVD: 4932.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4924.0 ft 4927.0 ft
TEMPERATURE: 118.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4897.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 15.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5 X.H.
PACKER DEPTH: 4912.0 ft SIZE: 6.630 in
PACKER DEPTH: 4917.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRILLING RIG #5
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 9000 ppm
JARS-MAKE : NOT RAN
DID WELL FLOW?: NO
VISCOSITY : 48.00 cp
WATER LOSS: 16.000 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: STRONG BLOW - GAS TO SURFACE IN 8
MINUTES. SEE GAS FLOW REPORT FOR MEASUREMENTS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	100.0	0.0	0.0	0.0	FREE OIL
300.0	50.0	30.0	0.0	20.0	GAS AND MUD CUT OIL
180.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES - 98,000 ppm

RATE INFORMATION

OIL VOLUME:	3.3663 STB	TOTAL FLOW TIME:	95.0000 min.
GAS VOLUME:	7.0882 SCF	AVERAGE OIL RATE:	63.7830 STB/D
MUD VOLUME:	0.8416 STB	AVERAGE WATER RATE:	38.2698 STB/D
WATER VOLUME:	2.5247 STB		
TOTAL FLUID :	6.7327 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2455.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	107.00	107.00
INITIAL SHUT-IN	60.00		1493.00
FINAL FLOW	45.00	193.00	193.00
FINAL SHUT-IN	60.00		1440.00

FINAL HYDROSTATIC PRESSURE: 2401.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2437.00

Description	Duration	p1	p End
INITIAL FLOW	50.00	111.00	111.00
INITIAL SHUT-IN	57.00		1479.00
FINAL FLOW	45.00	196.00	196.00
FINAL SHUT-IN	63.00		1409.00

FINAL HYDROSTATIC PRESSURE: 2395.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 3/12/95	TICKET : 21379
CUSTOMER : HUMMON CORPORATION	LEASE : UHL
WELL : #5-9	TEST: 1
ELEVATION: 2166 KB	GEOLOGIST: ARDEN RATZLAFF
SECTION : 9	FORMATION: MARMATON
RANGE : 18W	TOWNSHIP : 36S
COUNTY: COMANCHE	STATE : KS
RANGE : 4250	CLOCK : 12
GAUGE SN#: 1051	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.750	24" WATER	69500 SCF/D
20 MIN	MERLA	0.750	24" WATER	69500 SCF/D
30 MIN	MERLA	0.750	20" WATER	63500 SCF/D
40 MIN	MERLA	0.750	18" WATER	60200 SCF/D
45 MIN	MERLA	0.750	18" WATER	60200 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.750	28" WATER	75100 SCF/D
20 MIN	MERLA	0.750	24" WATER	69500 SCF/D
30 MIN	MERLA	0.750	20" WATER	63500 SCF/D
40 MIN	MERLA	0.750	18" WATER	60200 SCF/D
45 MIN	MERLA	0.750	18" WATER	60200 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 3/12/95	TICKET : 21379
CUSTOMER : HUMMON CORPORATION	LEASE : UHL
WELL : #5-9 TEST: 1	GEOLOGIST: ARDEN RATZLAFF
ELEVATION: 2161 KB	FORMATION: MARMATON
SECTION : 9	TOWNSHIP : 36S
RANGE : 18W COUNTY: COMANCHE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	111.00	111.00
5.00	111.00	0.00
10.00	111.00	0.00
15.00	111.00	0.00
20.00	111.00	0.00
25.00	111.00	0.00
30.00	111.00	0.00
35.00	111.00	0.00
40.00	111.00	0.00
45.00	111.00	0.00
50.00	111.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	566.00	566.00	17.67
6.00	849.00	283.00	9.33
9.00	1035.00	186.00	6.56
12.00	1144.00	109.00	5.17
15.00	1212.00	68.00	4.33
18.00	1261.00	49.00	3.78
21.00	1295.00	34.00	3.38
24.00	1326.00	31.00	3.08
27.00	1355.00	29.00	2.85
30.00	1377.00	22.00	2.67
33.00	1394.00	17.00	2.52
36.00	1411.00	17.00	2.39
39.00	1426.00	15.00	2.28
42.00	1437.00	11.00	2.19
45.00	1449.00	12.00	2.11

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
48.00	1459.00	10.00	2.04
51.00	1466.00	7.00	1.98
54.00	1473.00	7.00	1.93
57.00	1479.00	6.00	1.88

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	196.00	196.00
5.00	196.00	0.00
10.00	196.00	0.00
15.00	195.00	-1.00
20.00	195.00	0.00
25.00	194.00	-1.00
30.00	194.00	0.00
35.00	195.00	1.00
40.00	196.00	1.00
45.00	196.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	562.00	562.00	16.00
6.00	811.00	249.00	8.50
9.00	974.00	163.00	6.00
12.00	1061.00	87.00	4.75
15.00	1118.00	57.00	4.00
18.00	1163.00	45.00	3.50
21.00	1200.00	37.00	3.14
24.00	1231.00	31.00	2.88
27.00	1255.00	24.00	2.67
30.00	1276.00	21.00	2.50
33.00	1298.00	22.00	2.36
36.00	1311.00	13.00	2.25
39.00	1326.00	15.00	2.15
42.00	1338.00	12.00	2.07
45.00	1352.00	14.00	2.00
48.00	1363.00	11.00	1.94

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

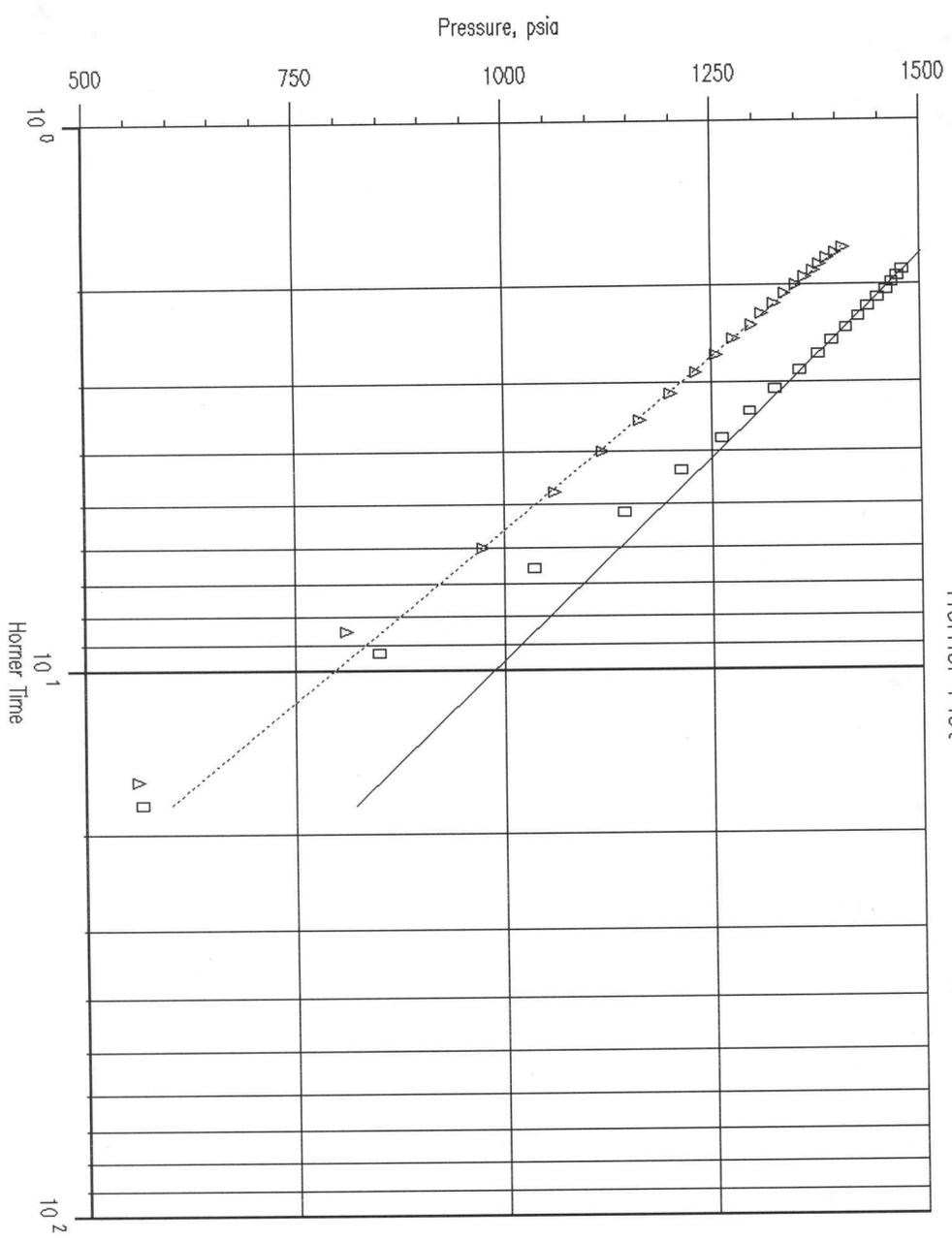
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1373.00	10.00	1.88
54.00	1381.00	8.00	1.83
57.00	1390.00	9.00	1.79
60.00	1399.00	9.00	1.75
63.00	1409.00	10.00	1.71

DATE 3/12/95
 CUSTOMER HUMMON CORPORATION
 WELL #5-9
 ELEVATION 2161 KB
 SECTION 9
 RANGE 18W
 GAUGE SN# 1051

TEST 1
 COUNTY COMANCHE
 RANGE 4250

TICKET 21379
 LEASE UHL
 GEOLOGIST ARDEN RAITZLAFF
 FORMATION MARMATON
 TOWNSHIP 36S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.83	0.75
Slope	-678.59	-795.42
Pstar, psig	1667.35	1591.84
P1hr, psig	1488.71	1398.52
Skin	-0.62	-1.11
k, md	2.13	1.82
kh/u, md-ft/cp	22.04	18.81
ri, ft	11.43	10.01
DR, %	0.70	0.53
Drawdown Factor, %		4.733
Drawdown P*, %		4.529

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 3/12/95	TICKET : 21379
CUSTOMER : HUMMON CORPORATION	LEASE : UHL
WELL : #5-9	GEOLOGIST: ARDEN RATZLAFF
ELEVATION: 2161 KB	FORMATION: MARMATON
SECTION : 9	TOWNSHIP : 36S
RANGE : 18W	STATE : KS
GAUGE SN#: 1051	CLOCK : 12
TEST: 1	
COUNTY: COMANCHE	
RANGE : 4250	

Input Data

Porosity	0.120	Rw:	0.328 ft	h:	5.000 ft
qo	63.8 STB	GOR	943.8 SCF/STB		
Pvt Data					
Evaluation Pressure	:	1479.0			
Evaluation Temperature	:	118.0			
Oil Grav	38.00 API	Gas Grav	0.65 API	Pb	3262.23 PSIA
Bo	1.442 RBL/STB	Vis	1.000 cp	Ct	2.4727E-004 1/PSI

Horner Results

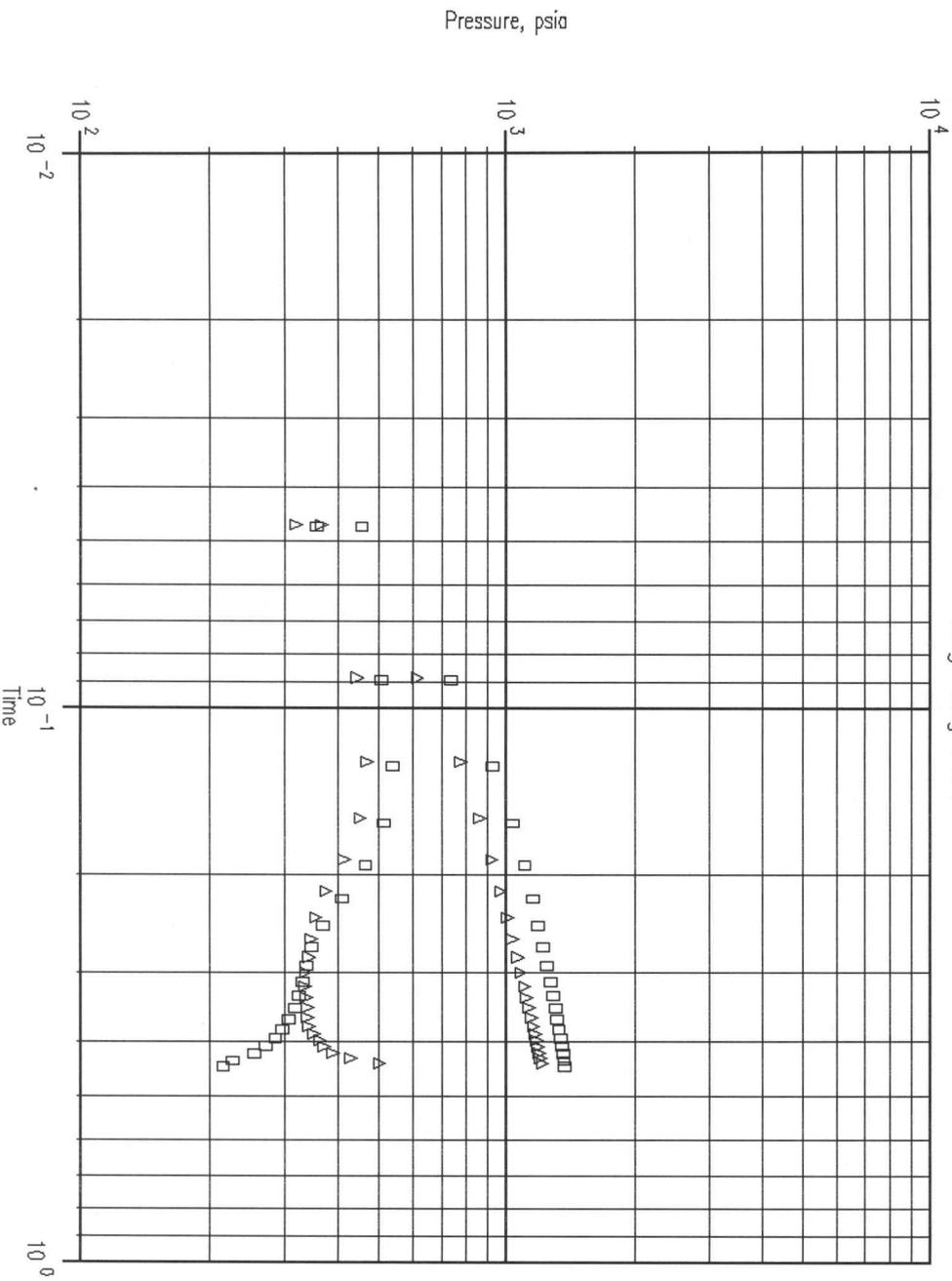
	Initial Shut-In	Final Shut-In
pseudo pressure time	0.83 hrs	0.75 hrs
slope	-678.59	-795.42
pstar	1667.35 psig	1591.84 psig
plhr	1488.71 psig	1398.52 psig
skin	-0.62	-1.11
permeability	2.13 md	1.82 md
transmissability	22.04 md-ft/cp	18.81 md-ft/cp
radius of investigation	11.43 ft	10.01 ft
Damage-Ratio	0.7 percent	0.53 percent
Drawdown Factor		4.733 percent
Drawdown P*		4.529 percent

DATE 3/12/95
 CUSTOMER HUMMON CORPORATION
 WELL #5-9
 ELEVATION 2161 KB
 SECTION 9
 RANGE 18W
 GAUGE SN# 1051

TEST 1
 COUNTY COMANCHE
 RANGE 4250

TICKET 21379
 LEASE UHL
 GEOLOGIST ARDEN RATZLAFF
 FORMATION MARMATON
 TOWNSHIP 36S
 STATE KS
 CLOCK 12

Log-Log Plot

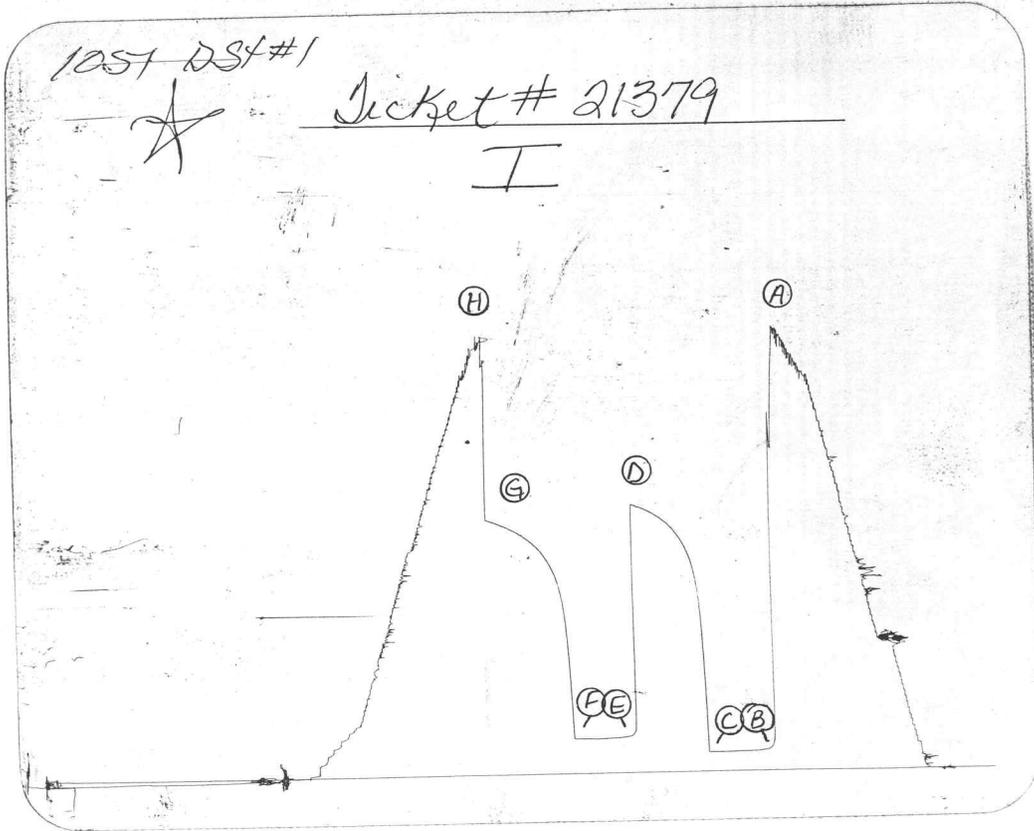


1057 DST#1



Ticket # 21379

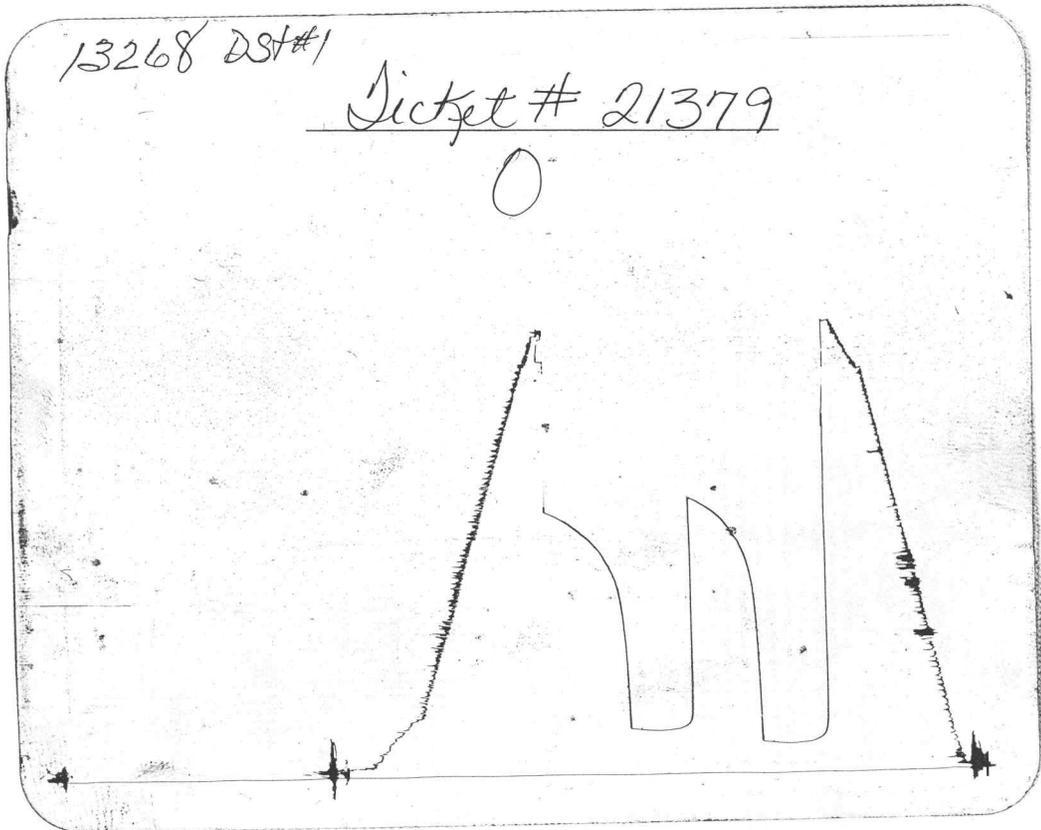
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13268 DST#1

Ticket # 21379

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DST REPORT

GENERAL INFORMATION

DATE : 3/14/95	TICKET : 21380
CUSTOMER : HUMMON CORPORATION	LEASE : UHL
WELL : #5-9 TEST: 2	GEOLOGIST: ARDEN RATZLAFF
ELEVATION: 2161 KB	FORMATION: MISSISSIPPI
SECTION : 9	TOWNSHIP : 36S
RANGE : 18W COUNTY: COMANCHE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5075.00 ft	TO: 5119.00 ft	TVD: 5119.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 5097.0 ft	5100.0 ft	
TEMPERATURE: 0.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 5055.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 44.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5 X.H.
PACKER DEPTH: 5070.0 ft	SIZE:	6.630 in
PACKER DEPTH: 5075.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRILLING RIG #5	VISCOSITY : 52.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 12.800 cc
WEIGHT : 9.400 ppg	
CHLORIDES : 10500 ppm	SERIAL NUMBER:
JARS-MAKE : NOT RAN	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

MISRUN - PACKER SEAT FAILURE

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
No Data Entered					

RATE INFORMATION

OIL VOLUME:	0.0000	STB			
GAS VOLUME:	0.0000	SCF			
MUD VOLUME:	0.0000	STB			
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0000	STB			
					TOTAL FLOW TIME: No Events Created
					AVERAGE OIL RATE: 0.0000 STB/D
					AVERAGE WATER RATE: 0.0000 STB/D

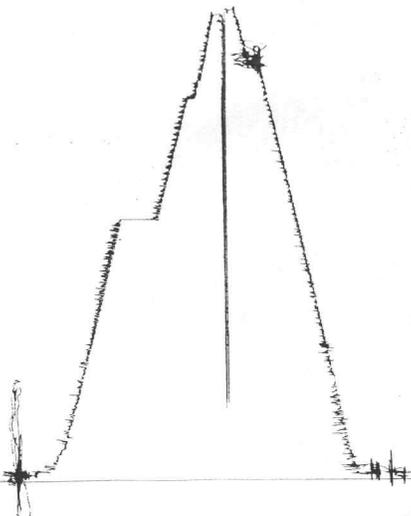
FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE:	0.00			
Description	Duration	p1	p	End
INITIAL FLOW	0.00	0.00		0.00
INITIAL SHUT-IN	0.00			0.00
FINAL FLOW	0.00	0.00		0.00
FINAL SHUT-IN	0.00			0.00
FINAL HYDROSTATIC PRESSURE:	0.00			

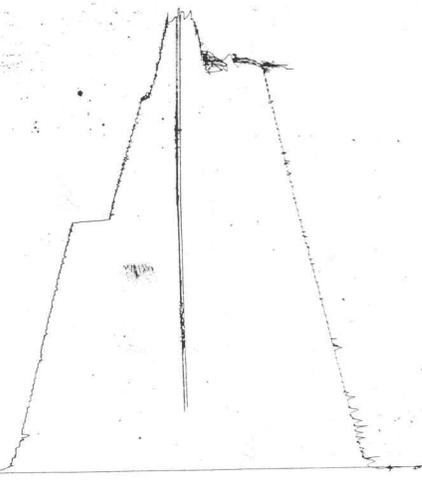
OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE:	0.00			
Description	Duration	p1	p	End
No Events Created				
FINAL HYDROSTATIC PRESSURE:	0.00			

Ticket # 21380



Ticket # 21380



DST REPORT

GENERAL INFORMATION

DATE : 3/14/95
CUSTOMER : HUMMON CORPORATION
WELL : #5-9 TEST: 3
ELEVATION: 2161 KB
SECTION : 9
RANGE : 18W COUNTY: COMANCHE
GAUGE SN#: 1051 RANGE : 4250
TICKET : 21381
LEASE : UHL
GEOLOGIST: ARDEN RATZLAFF
FORMATION: MISSISSIPPI
TOWNSHIP : 36S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5088.00 ft TO: 5119.00 ft TVD: 5119.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 5097.0 ft 5100.0 ft
TEMPERATURE: 123.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	5068.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	31.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5 X.H.
PACKER DEPTH:	5083.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5088.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRILLING RIG #5
MUD TYPE : CHEMICAL
WEIGHT : 9.400 ppg
CHLORIDES : 10500 ppm
JARS-MAKE : NOT RAN
DID WELL FLOW?: NO
VISCOSITY : 52.00 cp
WATER LOSS: 12.800 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: STRONG BLOW IN 30 MINUTES.
FINAL FLOW: STRONG BLOW IN 14 MINUTES.
NO GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	3.0	0.0	97.0	GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES - 78,000 ppm
120.0	0.0	0.0	70.0	30.0	MUD CUT WATER

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	92.0000 min.
GAS VOLUME:	0.2126 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	1.7294 STB	AVERAGE WATER RATE:	26.3452 STB/D
WATER VOLUME:	1.1782 STB		
TOTAL FLUID :	2.9077 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2583.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	86.00	86.00
INITIAL SHUT-IN	60.00		1313.00
FINAL FLOW	60.00	129.00	129.00
FINAL SHUT-IN	90.00		1313.00

FINAL HYDROSTATIC PRESSURE: 2497.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2554.00

Description	Duration	p1	p End
INITIAL FLOW	36.00	42.10	84.00
INITIAL SHUT-IN	65.00		1345.70
FINAL FLOW	56.00	89.30	135.30
FINAL SHUT-IN	88.00		1344.10

FINAL HYDROSTATIC PRESSURE: 2475.50

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 3/14/95	TICKET	: 21381
CUSTOMER	: HUMMON CORPORATION	LEASE	: UHL
WELL	: #5-9	TEST:	3
ELEVATION:	2161 KB	GEOLOGIST:	ARDEN RATZLAFF
SECTION	: 9	FORMATION:	MISSISSIPPI
RANGE	: 18W	TOWNSHIP	: 36S
GAUGE SN#:	1051	STATE	: KS
	COUNTY: COMANCHE	CLOCK	: 12
	RANGE : 4250		

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	42.10	42.10
1.00	44.00	1.90
2.00	51.50	7.50
3.00	51.90	0.40
4.00	53.30	1.40
5.00	54.40	1.10
6.00	55.60	1.20
7.00	56.00	0.40
8.00	57.50	1.50
9.00	58.70	1.20
10.00	60.00	1.30
11.00	61.30	1.30
12.00	61.80	0.50
13.00	63.10	1.30
14.00	64.40	1.30
15.00	65.80	1.40
16.00	66.70	0.90
17.00	67.70	1.00
18.00	68.20	0.50
19.00	69.20	1.00
20.00	69.80	0.60
21.00	70.70	0.90
22.00	71.70	1.00
23.00	72.60	0.90
24.00	73.60	1.00
25.00	74.60	1.00
26.00	75.60	1.00
27.00	76.60	1.00
28.00	77.20	0.60
29.00	78.30	1.10
30.00	79.30	1.00
31.00	79.90	0.60
32.00	80.60	0.70
33.00	81.20	0.60

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
34.00	82.30	1.10
35.00	83.30	1.00
36.00	84.00	0.70

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
1.00	82.70	82.70	37.00
2.00	109.80	27.10	19.00
3.00	130.30	20.50	13.00
4.00	154.60	24.30	10.00
5.00	185.80	31.20	8.20
6.00	225.40	39.60	7.00
7.00	277.90	52.50	6.14
8.00	347.60	69.70	5.50
9.00	436.30	88.70	5.00
10.00	539.50	103.20	4.60
11.00	644.90	105.40	4.27
12.00	739.50	94.60	4.00
13.00	818.90	79.40	3.77
14.00	884.20	65.30	3.57
15.00	938.00	53.80	3.40
16.00	983.00	45.00	3.25
17.00	1021.20	38.20	3.12
18.00	1053.70	32.50	3.00
19.00	1081.60	27.90	2.89
20.00	1106.10	24.50	2.80
21.00	1127.20	21.10	2.71
22.00	1145.80	18.60	2.64
23.00	1162.40	16.60	2.57
24.00	1177.30	14.90	2.50
25.00	1190.30	13.00	2.44
26.00	1201.80	11.50	2.38
27.00	1212.50	10.70	2.33
28.00	1222.10	9.60	2.29
29.00	1230.90	8.80	2.24
30.00	1238.90	8.00	2.20
31.00	1246.20	7.30	2.16
32.00	1252.60	6.40	2.13
33.00	1258.80	6.20	2.09
34.00	1264.50	5.70	2.06
35.00	1270.20	5.70	2.03

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
36.00	1275.20	5.00	2.00
37.00	1279.80	4.60	1.97
38.00	1284.10	4.30	1.95
39.00	1288.30	4.20	1.92
40.00	1292.10	3.80	1.90
41.00	1295.90	3.80	1.88
42.00	1299.40	3.50	1.86
43.00	1302.40	3.00	1.84
44.00	1305.50	3.10	1.82
45.00	1308.60	3.10	1.80
46.00	1311.30	2.70	1.78
47.00	1314.00	2.70	1.77
48.00	1316.70	2.70	1.75
49.00	1318.50	1.80	1.73
50.00	1320.80	2.30	1.72
51.00	1323.10	2.30	1.71
52.00	1325.10	2.00	1.69
53.00	1327.00	1.90	1.68
54.00	1328.90	1.90	1.67
55.00	1330.80	1.90	1.65
56.00	1332.30	1.50	1.64
57.00	1334.20	1.90	1.63
58.00	1335.80	1.60	1.62
59.00	1337.30	1.50	1.61
60.00	1338.90	1.60	1.60
61.00	1340.40	1.50	1.59
62.00	1341.90	1.50	1.58
63.00	1343.00	1.10	1.57
64.00	1344.60	1.60	1.56
65.00	1345.70	1.10	1.55

FINAL FLOW

Time (min)	Pressure	Delta P
1.00	89.30	89.30
2.00	88.90	-0.40
3.00	92.70	3.80
4.00	94.30	1.60
5.00	95.40	1.10
6.00	96.50	1.10
7.00	97.30	0.80
8.00	98.40	1.10

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
9.00	99.60	1.20
10.00	100.30	0.70
11.00	101.40	1.10
12.00	102.50	1.10
13.00	103.20	0.70
14.00	104.00	0.80
15.00	105.10	1.10
16.00	105.80	0.70
17.00	106.50	0.70
18.00	107.30	0.80
19.00	108.00	0.70
20.00	108.70	0.70
21.00	109.50	0.80
22.00	110.60	1.10
23.00	110.90	0.30
24.00	112.00	1.10
25.00	112.40	0.40
26.00	113.10	0.70
27.00	113.80	0.70
28.00	114.50	0.70
29.00	115.20	0.70
30.00	116.00	0.80
31.00	117.10	1.10
32.00	117.80	0.70
33.00	118.50	0.70
34.00	119.20	0.70
35.00	120.00	0.80
36.00	120.70	0.70
37.00	121.40	0.70
38.00	121.80	0.40
39.00	123.20	1.40
40.00	124.00	0.80
41.00	124.70	0.70
42.00	125.40	0.70
43.00	126.10	0.70
44.00	126.50	0.40
45.00	127.60	1.10
46.00	127.90	0.30
47.00	128.70	0.80
48.00	129.40	0.70
49.00	130.20	0.80
50.00	131.30	1.10
51.00	132.00	0.70
52.00	132.40	0.40
53.00	132.70	0.30
54.00	133.80	1.10

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
55.00	134.60	0.80
56.00	135.30	0.70

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
1.00	190.10	190.10	57.00
2.00	265.80	75.70	29.00
3.00	371.30	105.50	19.67
4.00	498.00	126.70	15.00
5.00	462.00	-36.00	12.20
6.00	720.00	258.00	10.33
7.00	798.90	78.90	9.00
8.00	861.80	62.90	8.00
9.00	912.20	50.40	7.22
10.00	954.50	42.30	6.60
11.00	989.90	35.40	6.09
12.00	1020.00	30.10	5.67
13.00	1046.50	26.50	5.31
14.00	1069.54	23.04	5.00
15.00	1089.40	19.86	4.73
16.00	1107.40	18.00	4.50
17.00	1123.10	15.70	4.29
18.00	1137.30	14.20	4.11
19.00	1149.90	12.60	3.95
20.00	1161.80	11.90	3.80
21.00	1172.10	10.30	3.67
22.00	1181.70	9.60	3.55
23.00	1190.50	8.80	3.43
24.00	1198.90	8.40	3.33
25.00	1206.21	7.31	3.24
26.00	1213.10	6.89	3.15
27.00	1219.60	6.50	3.07
28.00	1225.80	6.20	3.00
29.00	1231.10	5.30	2.93
30.00	1236.50	5.40	2.87
31.00	1241.50	5.00	2.81
32.00	1246.10	4.60	2.75
33.00	1250.70	4.60	2.70
34.00	1254.50	3.80	2.65
35.00	1258.70	4.20	2.60
36.00	1262.20	3.50	2.56

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

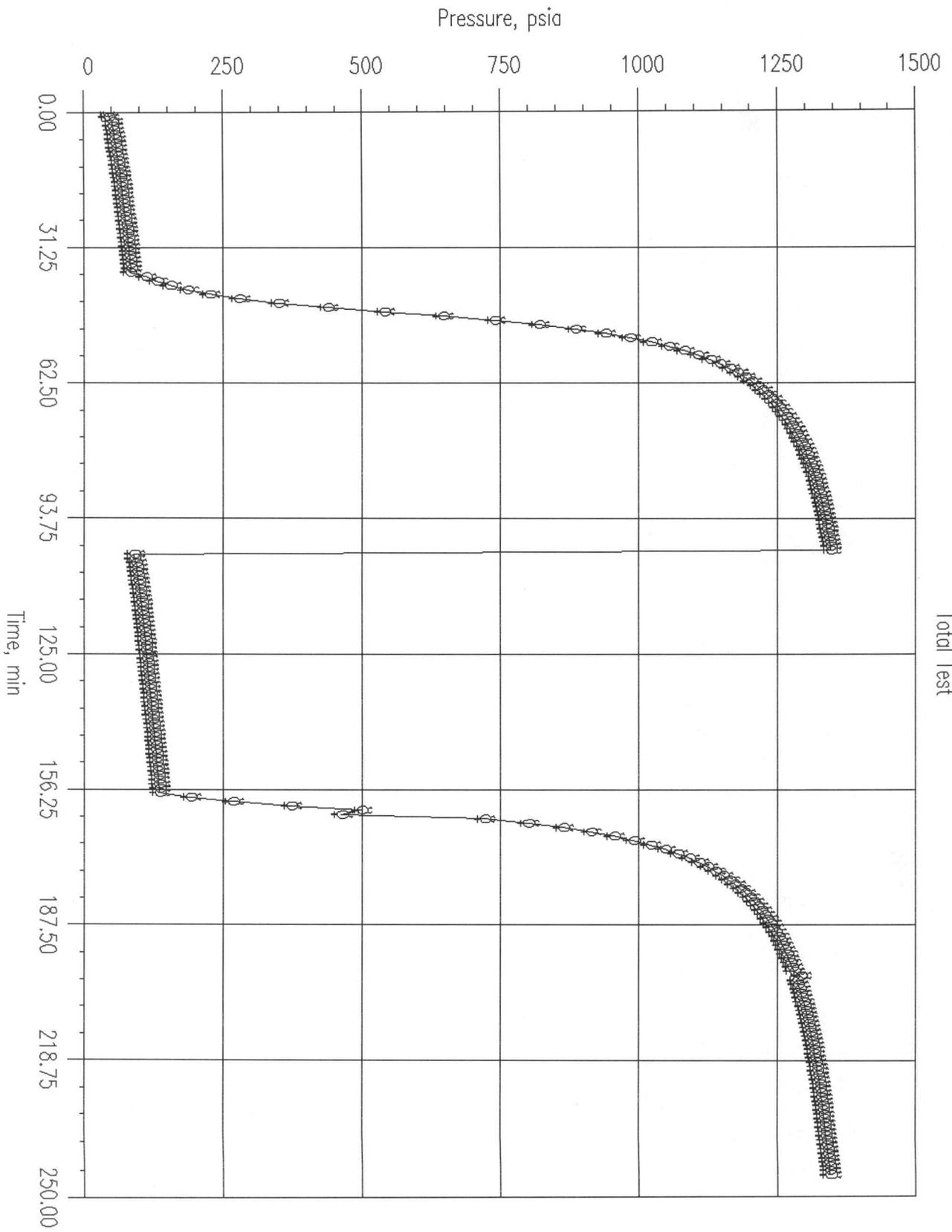
Time (min)	Pressure	Delta P	Horner T
37.00	1266.00	3.80	2.51
38.00	1269.10	3.10	2.47
39.00	1272.60	3.50	2.44
40.00	1275.60	3.00	2.40
41.00	1278.30	2.70	2.37
42.00	1291.40	13.10	2.33
43.00	1284.10	-7.30	2.30
44.00	1286.40	2.30	2.27
45.00	1289.10	2.70	2.24
46.00	1291.40	2.30	2.22
47.00	1293.30	1.90	2.19
48.00	1295.60	2.30	2.17
49.00	1297.90	2.30	2.14
50.00	1299.90	2.00	2.12
51.00	1301.80	1.90	2.10
52.00	1303.70	1.90	2.08
53.00	1305.20	1.50	2.06
54.00	1307.10	1.90	2.04
55.00	1308.70	1.60	2.02
56.00	1310.20	1.50	2.00
57.00	1311.80	1.60	1.98
58.00	1313.30	1.50	1.97
59.00	1315.36	2.06	1.95
60.00	1316.00	0.64	1.93
61.00	1317.60	1.60	1.92
62.00	1318.70	1.10	1.90
63.00	1320.20	1.50	1.89
64.00	1321.40	1.20	1.88
65.00	1322.60	1.20	1.86
66.00	1323.70	1.10	1.85
67.00	1325.30	1.60	1.84
68.00	1326.00	0.70	1.82
69.00	1327.20	1.20	1.81
70.00	1328.40	1.20	1.80
71.00	1329.50	1.10	1.79
72.00	1330.70	1.20	1.78
73.00	1331.40	0.70	1.77
74.00	1332.60	1.20	1.76
75.00	1333.30	0.70	1.75
76.00	1334.50	1.20	1.74
77.00	1335.30	0.80	1.73
78.00	1336.00	0.70	1.72
79.00	1336.80	0.80	1.71
80.00	1338.00	1.20	1.70
81.00	1338.70	0.70	1.69
82.00	1339.50	0.80	1.68

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
83.00	1340.30	0.80	1.67
84.00	1341.00	0.70	1.67
85.00	1341.80	0.80	1.66
86.00	1342.60	0.80	1.65
87.00	1343.40	0.80	1.64
88.00	1344.10	0.70	1.64

Profile Plot
Total Test

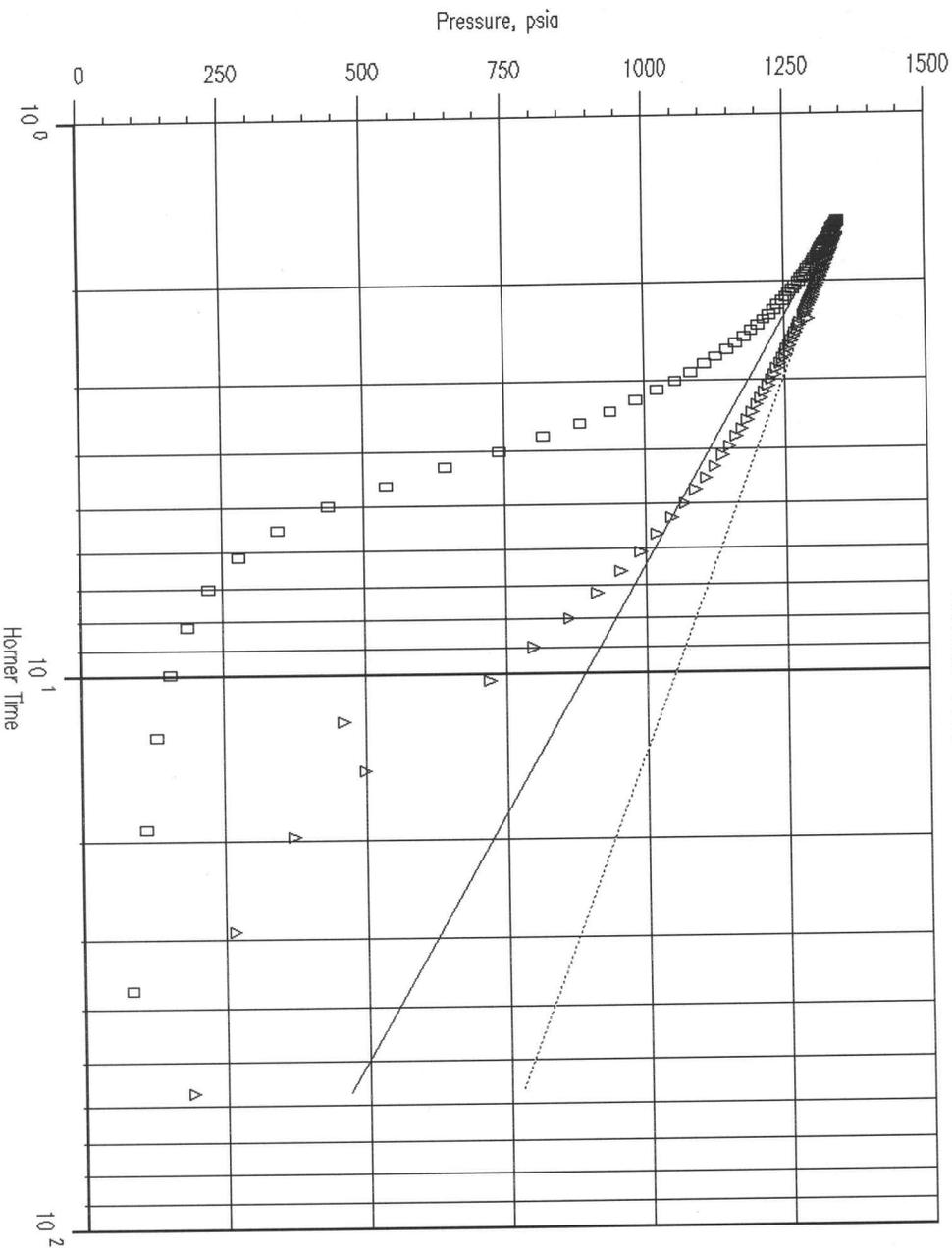


DATE 3/14/95
 CUSTOMER HUMMON CORPORATION
 WELL #5-9
 ELEVATION 2161 KB
 SECTION 9
 RANGE 18W
 GAUGE SN# 1051

TEST 3
 COUNTY COMANCHE
 RANGE 4250

TICKET 21381
 LEASE UHL
 GEOLOGIST ARDEN RATZLAFF
 FORMATION MISSISSIPPI
 TOWNSHIP 36S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.60	0.93
Slope	-562.33	-372.58
Pstar, psig	1453.63	1423.71
P1hr, psig	1338.85	1317.03
Skin	2.64	3.39
k, md	0.05	0.07
kh/u, md-ft/cp	0.34	0.51
ri, ft	0.52	0.79
DR, %	6.18	5.87
Drawdown Factor, %		0.119
Drawdown P*, %		2.058

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 3/14/95	TICKET : 21381
CUSTOMER : HUMMON CORPORATION	LEASE : UHL
WELL : #5-9 TEST: 3	GEOLOGIST: ARDEN RATZLAFF
ELEVATION: 2161 KB	FORMATION: MISSISSIPPI
SECTION : 9	TOWNSHIP : 36S
RANGE : 18W COUNTY: COMANCHE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

Input Data

Porosity 0.120 Rw: 0.328 ft h: 10.000 ft

qo 1.1 STB GOR 124.2 SCF/STB

Pvt Data
 Evaluation Pressure : 612.0
 Evaluation Temperature: 123.0

Oil Grav 38.00 API	Gas Grav 0.65 API	Pb 612.00 PSIA
Bo 1.072 RBL/STB	Vis 1.000 cp	Ct 6.7507E-004 1/PSI

Horner Results

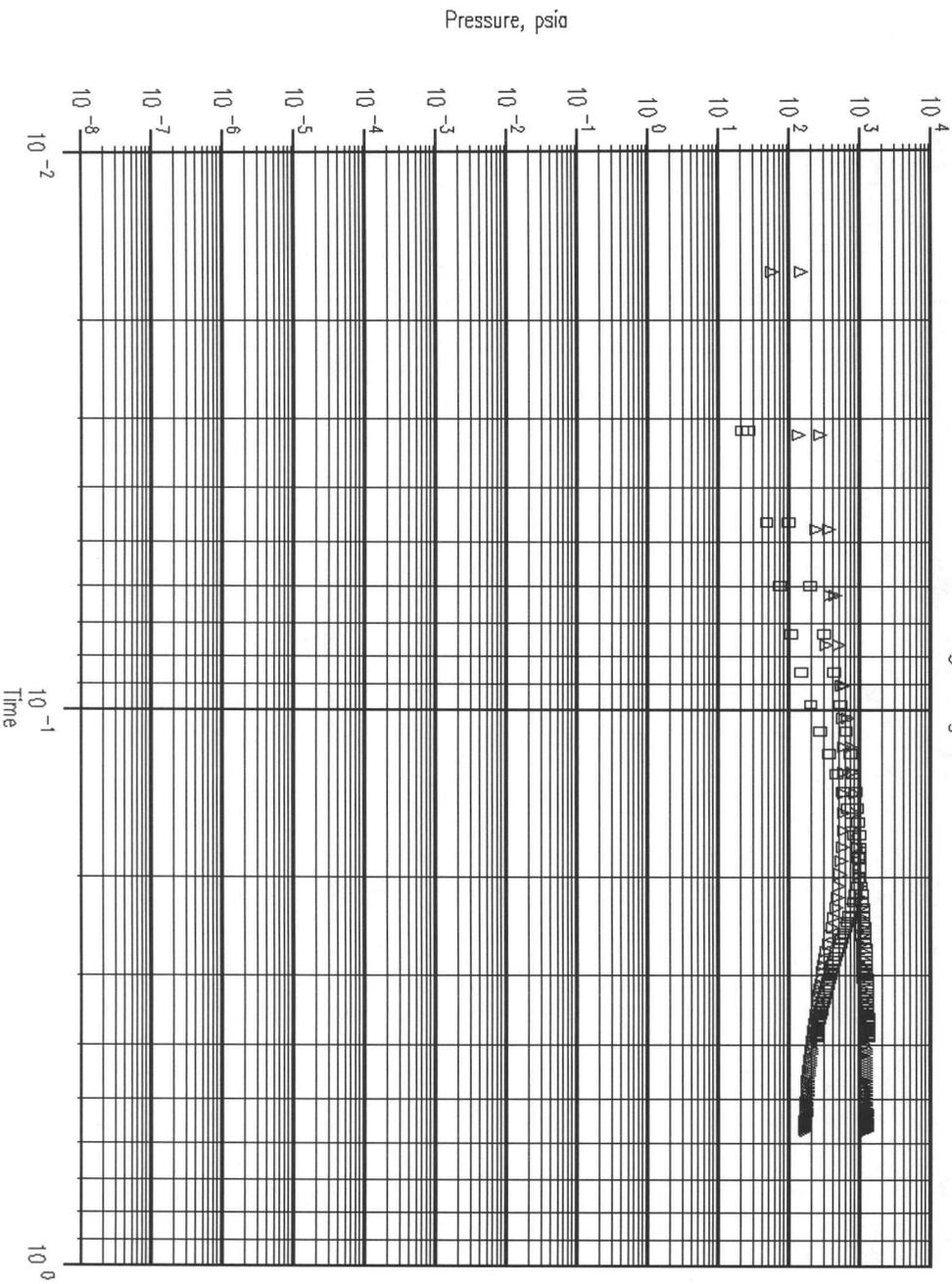
	Inital Shut-In	Final Shut-In
pseudo pressure time	0.60 hrs	0.93 hrs
slope	-562.33	-372.58
pstar	1453.63 psig	1423.71 psig
plhr	1338.85 psig	1317.03 psig
skin	2.64	3.39
permeability	0.05 md	0.07 md
transmisability	0.34 md-ft/cp	0.51 md-ft/cp
radius of investigation	0.52 ft	0.79 ft
Damage-Ratio	6.2 percent	5.9 percent
Drawdown Factor		0.119 percent
Drawdown P*		2.058 percent

DATE 3/14/95
 CUSTOMER HUMMON CORPORATION
 WELL #5-9
 ELEVATION 2161 KB
 SECTION 9
 RANGE 18W
 GAUGE SN# 1051

TEST 3
 COUNTY COMANCHE
 RANGE 4250

TICKET 21381
 LEASE UHL
 GEOLOGIST ARDEN RATZLAFF
 FORMATION MISSISSIPPI
 TOWNSHIP 36S
 STATE KS
 CLOCK 12

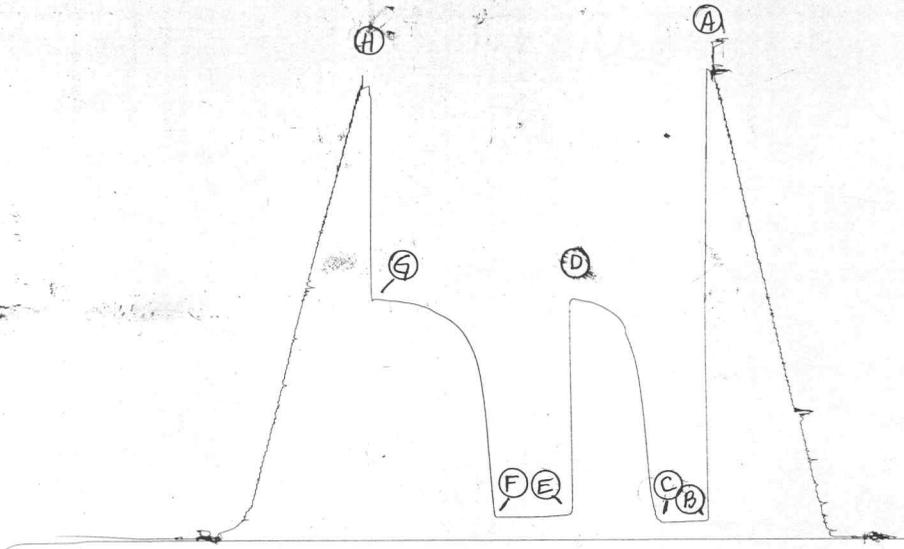
Log-Log Plot



1051 DST 3

Ticket # 21381

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13268 DST #3

Ticket # 21381

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