

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY B&N ENTERPRISES

LEASE & WELL NO. # A-1 HIRT FARMS SEC. 23 TWP. 27S RGE. 12W TEST NO. 1 DATE 9/18/92

DST REPORT

GENERAL INFORMATION

DATE : 9/18/92 TICKET : 18603
CUSTOMER : B&N ENTERPRISES LEASE : HIRT FARMS
WELL : A-1 TEST: 1 GEOLOGIST: VERNON SCHRAG
ELEVATION: 1851 KB FORMATION: LANSING
SECTION : 23 TOWNSHIP : 27S
RANGE : 12W COUNTY: PRATT STATE : KS
GAUGE SN#: 10979 RANGE : 4100 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3686.00 ft TO: 3840.00 ft TVD: 3840.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3834.0 ft 3837.0 ft
TEMPERATURE: 121.0

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 : 3656.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 154.0 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 : 4.5XH
PACKER DEPTH: 3681.0 ft SIZE: 6.630 in
PACKER DEPTH: 3686.0 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. : ALLEN RIG 3
MUD TYPE : CHEMICAL VISCOSITY : 52.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 9.600 cc
CHLORIDES : 9000 ppm
JARS-MAKE : W.T.C. SERIAL NUMBER: 114
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW BUILDING TO A VERY STRONG BLOW THROUGHOUT TEST. FINAL FLOW PERIOD GAS TO SURFACE IN 55 MINUTES. GAS TOO WEAK TO GAUGE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
375.0	30.0	30.0	0.0	40.0	GASSY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	1.5780 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	8.8603 SCF	AVERAGE OIL RATE:	58.9107 STB/D
MUD VOLUME:	2.1040 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	3.6819 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1855.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	135.00	165.00
INITIAL SHUT-IN	45.00		1215.00
FINAL FLOW	60.00	190.00	240.00
FINAL SHUT-IN	60.00		1185.00

FINAL HYDROSTATIC PRESSURE: 1845.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1869.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	151.00	179.00
INITIAL SHUT-IN	45.00		1221.00
FINAL FLOW	60.00	209.00	261.00
FINAL SHUT-IN	63.00		1196.00

FINAL HYDROSTATIC PRESSURE: 1869.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/18/92	TICKET	: 18603
CUSTOMER	: B&N ENTERPRISES	LEASE	: HIRT FARMS
WELL	: A-1	TEST:	1
ELEVATION:	1851 KB	GEOLOGIST:	VERNON SCHRAG
SECTION	: 23	FORMATION:	LANSING
RANGE	: 12W	TOWNSHIP	: 27S
GAUGE SN#:	10979	STATE	: KS
		CLOCK	: 12
		COUNTY:	PRATT
		RANGE	: 4100

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	151.00	151.00
5.00	151.00	0.00
10.00	153.00	2.00
15.00	162.00	9.00
20.00	166.00	4.00
25.00	172.00	6.00
30.00	179.00	7.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	218.00	218.00	0.00
6.00	361.00	143.00	0.00
9.00	606.00	245.00	0.00
12.00	798.00	192.00	0.00
15.00	924.00	126.00	0.00
18.00	995.00	71.00	0.00
21.00	1044.00	49.00	0.00
24.00	1083.00	39.00	0.00
27.00	1116.00	33.00	0.00
30.00	1140.00	24.00	0.00
33.00	1158.00	18.00	0.00
36.00	1174.00	16.00	0.00
39.00	1191.00	17.00	0.00
42.00	1207.00	16.00	0.00
45.00	1221.00	14.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	209.00	209.00
5.00	209.00	0.00
10.00	209.00	0.00
15.00	214.00	5.00
20.00	219.00	5.00
25.00	225.00	6.00
30.00	231.00	6.00
35.00	236.00	5.00
40.00	242.00	6.00
45.00	247.00	5.00
50.00	252.00	5.00
55.00	258.00	6.00
60.00	261.00	3.00

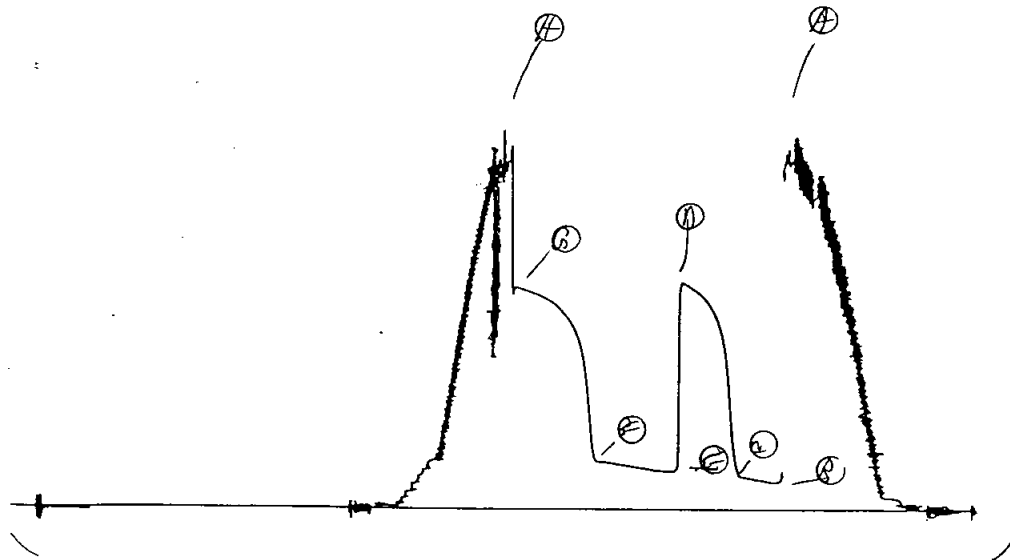
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	312.00	312.00	0.00
6.00	498.00	186.00	0.00
9.00	718.00	220.00	0.00
12.00	845.00	127.00	0.00
15.00	921.00	76.00	0.00
18.00	970.00	49.00	0.00
21.00	1008.00	38.00	0.00
24.00	1037.00	29.00	0.00
27.00	1063.00	26.00	0.00
30.00	1085.00	22.00	0.00
33.00	1102.00	17.00	0.00
36.00	1120.00	18.00	0.00
39.00	1132.00	12.00	0.00
42.00	1142.00	10.00	0.00
45.00	1153.00	11.00	0.00
48.00	1160.00	7.00	0.00
51.00	1169.00	9.00	0.00
54.00	1177.00	8.00	0.00
57.00	1183.00	6.00	0.00
60.00	1192.00	9.00	0.00
63.00	1196.00	4.00	0.00

10979

KT 18602

Z

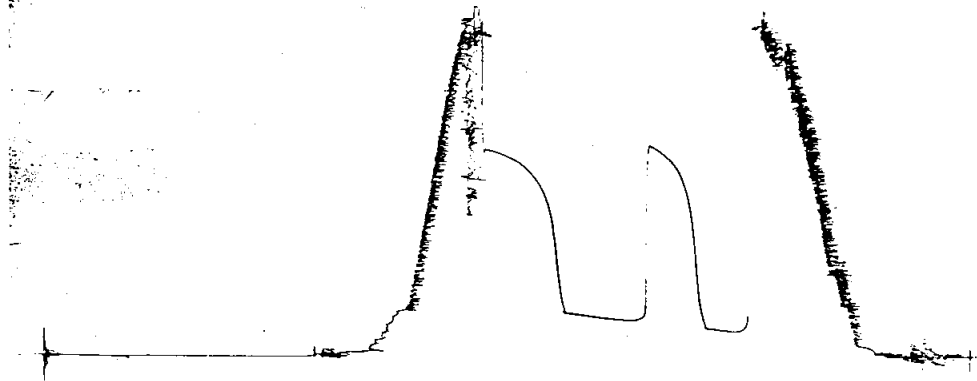


Inside Recorder

13321/6

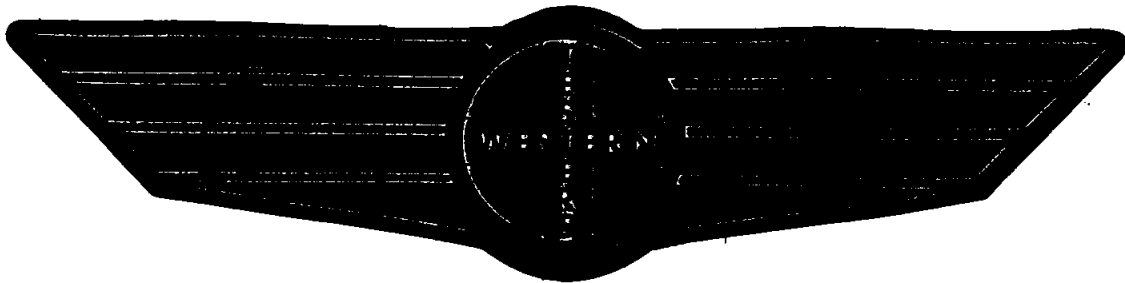
KT 18602

O



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 9/18/92	TICKET	: 18604
CUSTOMER	: B & N ENTERPRISES	LEASE	: HIRT FARMS
WELL	: A-1	TEST: 2	GEOLOGIST: VERNON SCHRAG
ELEVATION	: 1851 KB	FORMATION	: KANSAS CITY
SECTION	: 23	TOWNSHIP	: 27S
RANGE	: 12W	COUNTY: PRATT	STATE : KS
GAUGE SN#	: 10979	RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3836.00 ft TO: 3895.00 ft TVD: 3895.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3889.0 ft 3892.0 ft
TEMPERATURE: 124.0

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 :	3806.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	30.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	59.0 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 :	4.5XH
PACKER DEPTH:	3831.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3836.0 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. :	ALLEN RIG 3	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	114
CHLORIDES :	9000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	W.T.C.		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK TO A VERY STRONG BLOW
BOTTOM OF BUCKET IN 5 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	20.0	10.0	0.0	70.0	GASSY OIL CUT MUD
120.0	2.0	10.0	40.0	48.0	GASSY MUDDY WATER
300.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 105000 P.P.M.
0.0	0.0	0.0	0.0	0.0	2890' OF GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.2441 STB			
GAS VOLUME:	1.5358 SCF			
MUD VOLUME:	1.5443 STB			
WATER VOLUME:	4.8812 STB			
TOTAL FLUID :	6.6695 STB			
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	16.3026 STB/D
			AVERAGE WATER RATE:	90.4099 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1855.00

Description	Duration	pl	p End
INITIAL FLOW	30.00	75.00	115.00
INITIAL SHUT-IN	45.00		1305.00
FINAL FLOW	60.00	145.00	230.00
FINAL SHUT-IN	60.00		1275.00

FINAL HYDROSTATIC PRESSURE: 1845.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1900.00

Description	Duration	pl	p End
INITIAL FLOW	30.00	86.00	122.00
INITIAL SHUT-IN	54.00		1320.00
FINAL FLOW	60.00	159.00	250.00
FINAL SHUT-IN	66.00		1283.00

FINAL HYDROSTATIC PRESSURE: 1855.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/18/92	TICKET : 18604
CUSTOMER : B & N ENTERPRISES	LEASE : HIRT FARMS
WELL : A-1	TEST: 2
ELEVATION: 1851 KB	GEOLOGIST: VERNON SCHRAG
SECTION : 23	FORMATION: KANSAS CITY
RANGE : 12W	TOWNSHIP : 27S
COUNTY: PRATT	STATE : KS
GAUGE SN#: 10979	RANGE : 4100
	CLOCK : 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	86.00	86.00
5.00	86.00	0.00
10.00	86.00	0.00
15.00	91.00	5.00
20.00	105.00	14.00
25.00	115.00	10.00
30.00	122.00	7.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	726.00	726.00	0.00
6.00	1050.00	324.00	0.00
9.00	1154.00	104.00	0.00
12.00	1199.00	45.00	0.00
15.00	1224.00	25.00	0.00
18.00	1243.00	19.00	0.00
21.00	1255.00	12.00	0.00
24.00	1266.00	11.00	0.00
27.00	1275.00	9.00	0.00
30.00	1286.00	11.00	0.00
33.00	1292.00	6.00	0.00
36.00	1299.00	7.00	0.00
39.00	1301.00	2.00	0.00
42.00	1305.00	4.00	0.00
45.00	1308.00	3.00	0.00
48.00	1313.00	5.00	0.00
51.00	1318.00	5.00	0.00
54.00	1320.00	2.00	0.00

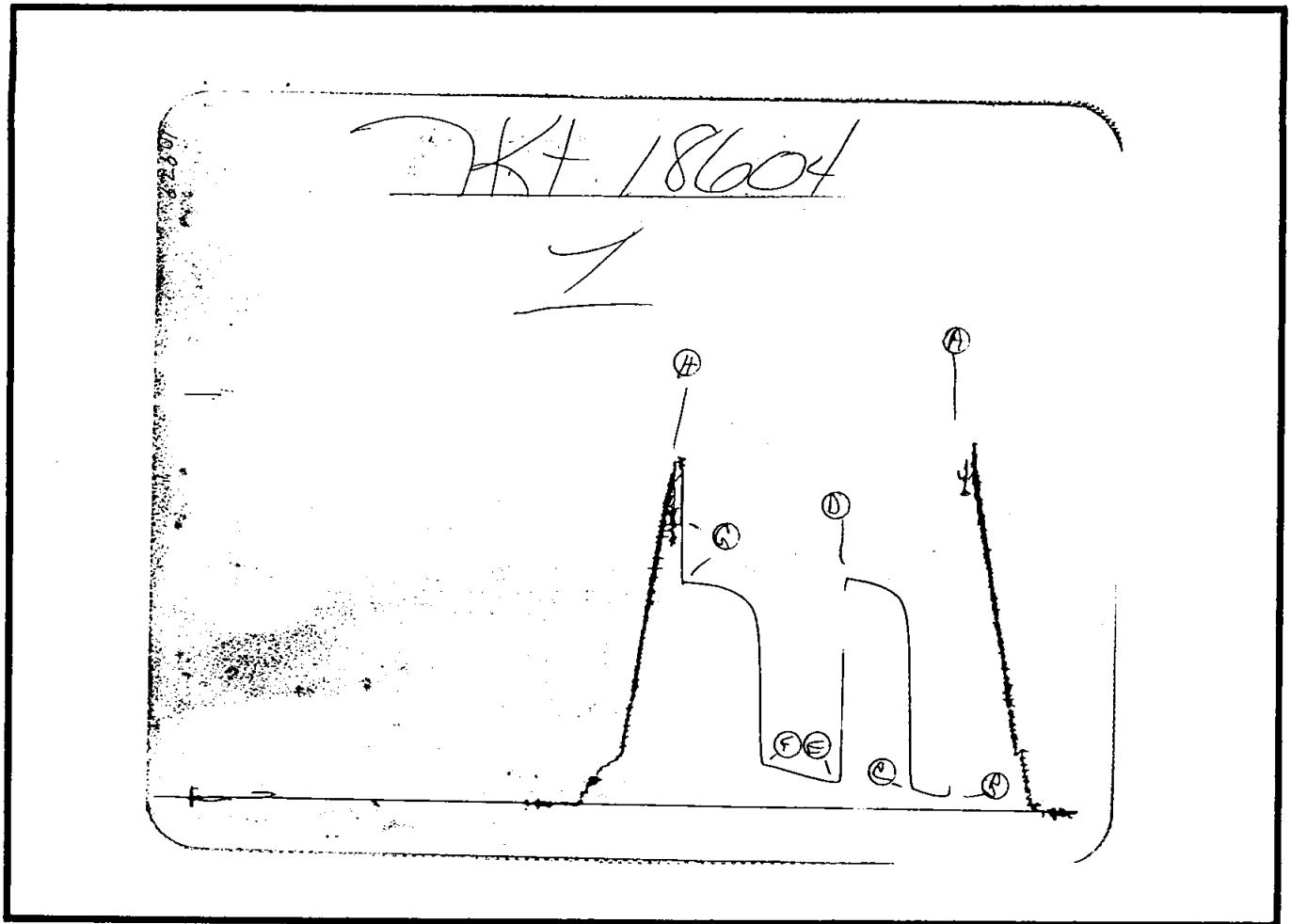
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

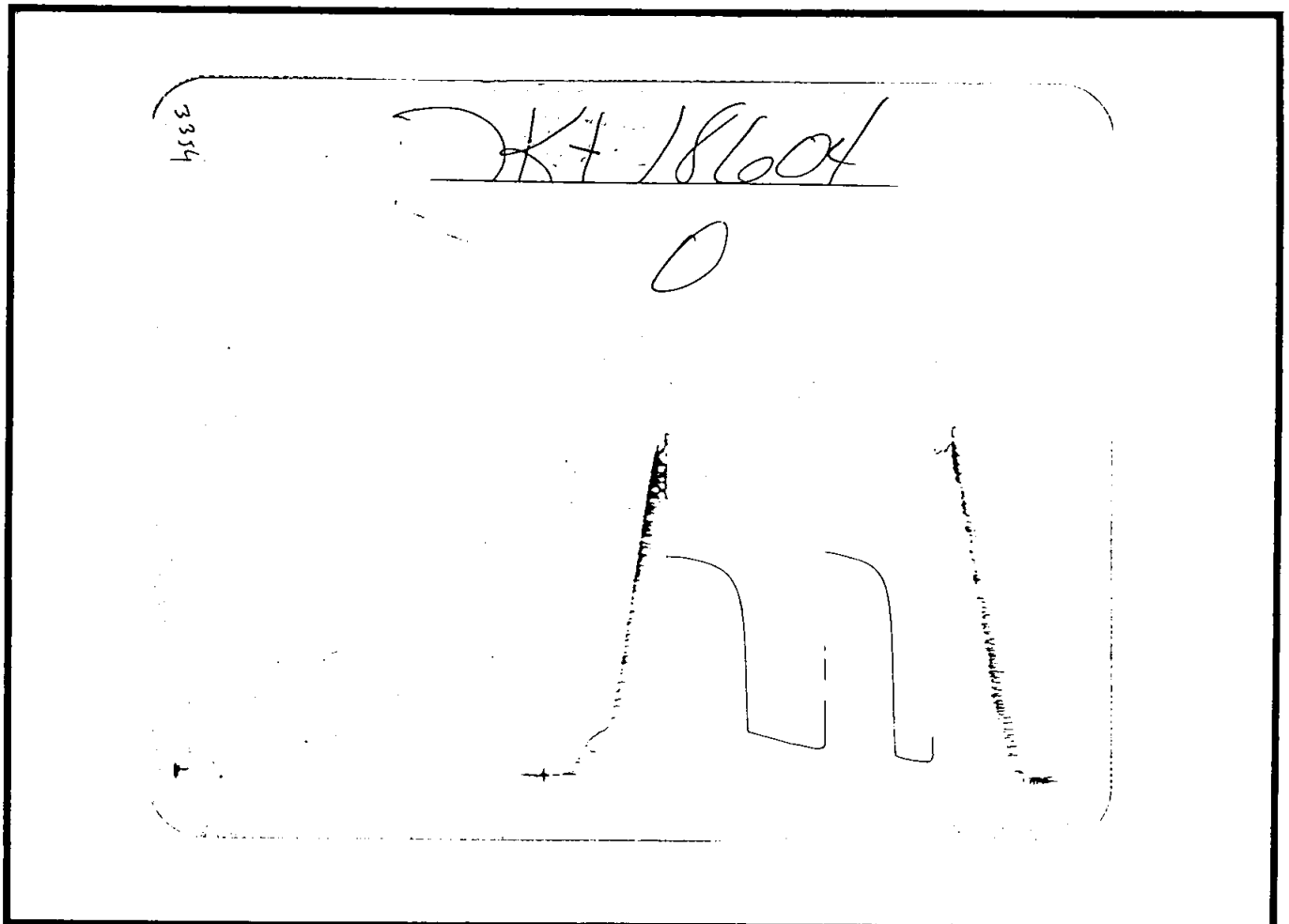
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	159.00	159.00
5.00	159.00	0.00
10.00	161.00	2.00
15.00	167.00	6.00
20.00	178.00	11.00
25.00	184.00	6.00
30.00	194.00	10.00
35.00	207.00	13.00
40.00	215.00	8.00
45.00	226.00	11.00
50.00	234.00	8.00
55.00	243.00	9.00
60.00	250.00	7.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	678.00	678.00	0.00
6.00	1023.00	345.00	0.00
9.00	1113.00	90.00	0.00
12.00	1153.00	40.00	0.00
15.00	1179.00	26.00	0.00
18.00	1195.00	16.00	0.00
21.00	1213.00	18.00	0.00
24.00	1224.00	11.00	0.00
27.00	1236.00	12.00	0.00
30.00	1243.00	7.00	0.00
33.00	1250.00	7.00	0.00
36.00	1257.00	7.00	0.00
39.00	1264.00	7.00	0.00
42.00	1267.00	3.00	0.00
45.00	1272.00	5.00	0.00
48.00	1275.00	3.00	0.00
51.00	1277.00	2.00	0.00
54.00	1279.00	2.00	0.00
57.00	1280.00	1.00	0.00
60.00	1281.00	1.00	0.00
63.00	1282.00	1.00	0.00
66.00	1283.00	1.00	0.00

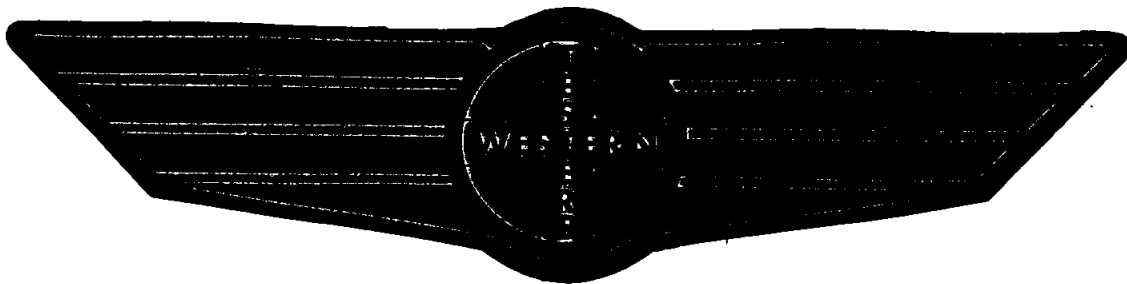


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 9/20/92
CUSTOMER : B & N ENTERPRISES
WELL : A-1 TEST: 3
ELEVATION: 1851 KB
SECTION : 23
RANGE : 12W COUNTY: PRATT
GAUGE SN#: 10979 RANGE : 4100
TICKET : 18605
LEASE : HIRT FARMS
GEOLOGIST: VERNON SCHRAG
FORMATION: MISSISSIPPI
TOWNSHIP : 27S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4136.00 ft TO: 4192.00 ft TVD: 4192.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4186.0 ft 4189.0 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 : 4106.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 56.0 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 : 4.5XH
PACKER DEPTH: 4131.0 ft SIZE: 6.630 in
PACKER DEPTH: 4136.0 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. : ALLEN RIG 3
MUD TYPE : CHEMICAL
WEIGHT : 9.000 ppg
CHLORIDES : 12000 ppm
JARS-MAKE : W.T.C.
DID WELL FLOW?: NO
VISCOSITY : 55.00 cp
WATER LOSS: 12.800 cc
SERIAL NUMBER: 114
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY STRONG BLOW, BOTTOM OF BUCKET IN LESS THAN A MINUTE. FINAL FLOW PERIOD VERY STRONG BLOW, GAS TO SURFACE AT END OF FLOW

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

PERIOD. GAS TOO WEAK TO GAUGE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB		TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF		AVERAGE OIL RATE:	16.8316 STB/D
MUD VOLUME:	1.0520 STB		AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB			
TOTAL FLUID :	1.0520 STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2100.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	65.00	40.00
INITIAL SHUT-IN	45.00		935.00
FINAL FLOW	60.00	65.00	50.00
FINAL SHUT-IN	60.00		1285.00

FINAL HYDROSTATIC PRESSURE: 2090.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2156.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	76.00	67.00
INITIAL SHUT-IN	48.00		952.00
FINAL FLOW	60.00	79.00	76.00
FINAL SHUT-IN	69.00		1306.00

FINAL HYDROSTATIC PRESSURE: 2101.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/20/92	TICKET : 18605
CUSTOMER : B & N ENTERPRISES	LEASE : HIRT FARMS
WELL : A-1	TEST: 3
ELEVATION: 1851 KB	GEOLOGIST: VERNON SCHRAG
SECTION : 23	FORMATION: MISSISSIPPI
RANGE : 12W	TOWNSHIP : 27S
GAUGE SN#: 10979	STATE : KS
COUNTY: PRATT	CLOCK : 12
RANGE : 4100	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	76.00	76.00
5.00	76.00	0.00
10.00	69.00	-7.00
15.00	67.00	-2.00
20.00	67.00	0.00
25.00	67.00	0.00
30.00	67.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	114.00	114.00	0.00
6.00	187.00	73.00	0.00
9.00	247.00	60.00	0.00
12.00	321.00	74.00	0.00
15.00	383.00	62.00	0.00
18.00	450.00	67.00	0.00
21.00	508.00	58.00	0.00
24.00	565.00	57.00	0.00
27.00	630.00	65.00	0.00
30.00	685.00	55.00	0.00
33.00	729.00	44.00	0.00
36.00	780.00	51.00	0.00
39.00	828.00	48.00	0.00
42.00	870.00	42.00	0.00
45.00	914.00	44.00	0.00
48.00	952.00	38.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	79.00	79.00
5.00	79.00	0.00
10.00	79.00	0.00
15.00	72.00	-7.00
20.00	72.00	0.00
25.00	73.00	1.00
30.00	73.00	0.00
35.00	74.00	1.00
40.00	75.00	1.00
45.00	76.00	1.00
50.00	76.00	0.00
55.00	76.00	0.00
60.00	76.00	0.00

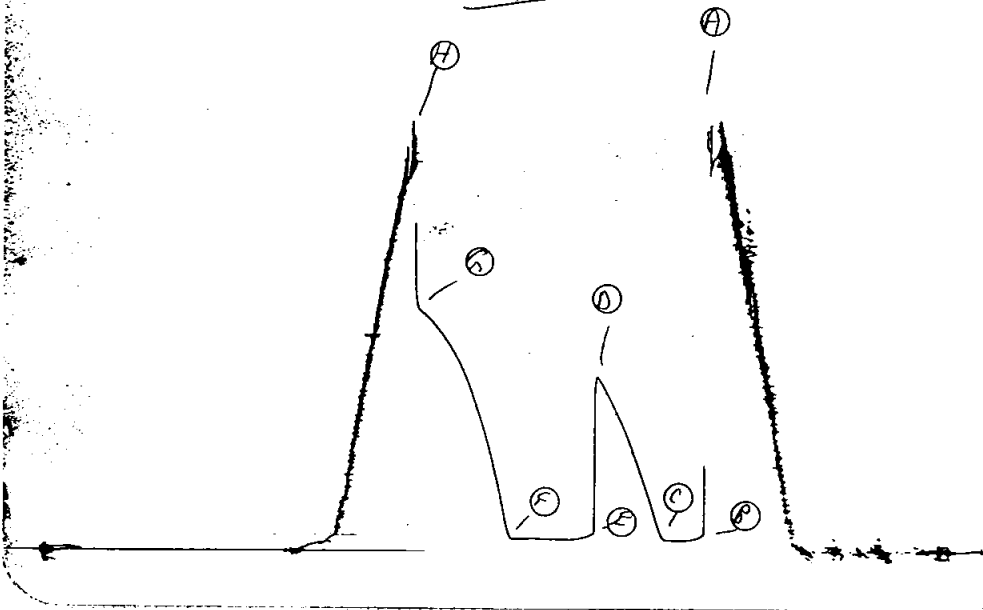
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	128.00	128.00	0.00
6.00	233.00	105.00	0.00
9.00	339.00	106.00	0.00
12.00	415.00	76.00	0.00
15.00	531.00	116.00	0.00
18.00	586.00	55.00	0.00
21.00	670.00	84.00	0.00
24.00	744.00	74.00	0.00
27.00	811.00	67.00	0.00
30.00	875.00	64.00	0.00
33.00	934.00	59.00	0.00
36.00	992.00	58.00	0.00
39.00	1032.00	40.00	0.00
42.00	1072.00	40.00	0.00
45.00	1108.00	36.00	0.00
48.00	1139.00	31.00	0.00
51.00	1173.00	34.00	0.00
54.00	1198.00	25.00	0.00
57.00	1226.00	28.00	0.00
60.00	1247.00	21.00	0.00
63.00	1270.00	23.00	0.00
66.00	1288.00	18.00	0.00
69.00	1306.00	18.00	0.00

62807

KT 18605

I

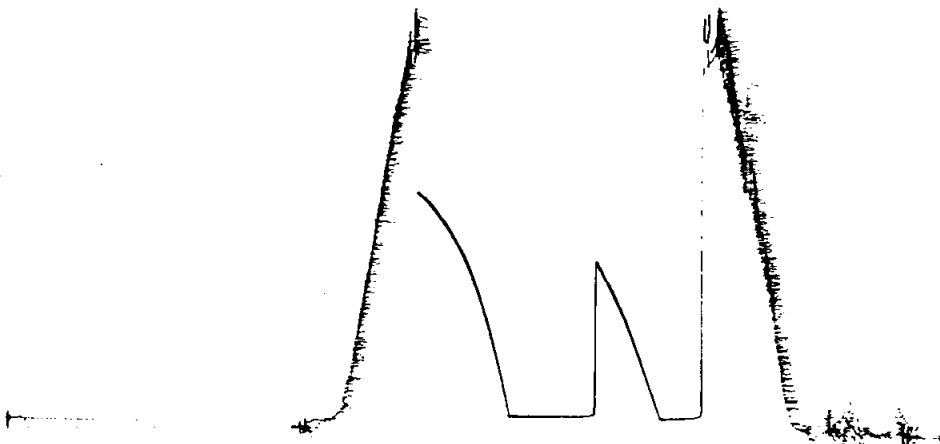


Inside Recorder

3354

KT 18605

O



Outside Recorder