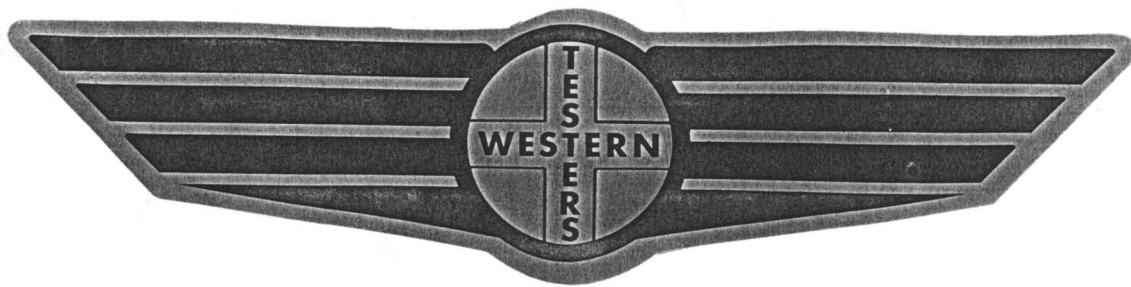


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10/5/94	TICKET	: 20603
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: #8-16	TEST: 2	GEOLOGIST: FRAULICH
ELEVATION	: 2967 GL	FORMATION	: KANSAS CITY A
SECTION	: 16	TOWNSHIP	: 23S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 1562	RANGE	: 3900
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4106.00 ft	TO:	4118.00 ft	TVD:	4118.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4110.0 ft		4113.0 ft		
TEMPERATURE:	132.0				
DRILL COLLAR LENGTH:	450.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3629.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	12.0 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:	4101.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4106.0 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 #2	VISCOSITY :	41.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	8.700 ppg		
CHLORIDES :	3900 ppm	SERIAL NUMBER:	408
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW OFF BOTTOM OF
BUCKET IN 11 MINUTES. FINAL FLOW PERIOD STRONG
BLOW OFF BOTTOM OF BUCKET IN 13 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	205 FT GAS ABOVE FLUID
125.0	100.0	0.0	0.0	0.0	FREE OIL
90.0	3.0	0.0	72.0	25.0	OIL CUT MUDDY WATER
540.0	0.0	0.0	90.0	10.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 46000 PPM

RATE INFORMATION

OIL VOLUME:	1.7912 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.6534 STB	AVERAGE OIL RATE:	28.8606 STB/D
WATER VOLUME:	3.9491 STB	AVERAGE WATER RATE:	73.4377 STB/D
TOTAL FLUID :	6.3936 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1944.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	60.00	200.00
INITIAL SHUT-IN	60.00		1193.00
FINAL FLOW	60.00	250.00	350.00
FINAL SHUT-IN	120.00		1193.00

FINAL HYDROSTATIC PRESSURE: 1934.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1954.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	67.00	197.00
INITIAL SHUT-IN	60.00		1179.00
FINAL FLOW	60.00	252.00	350.00
FINAL SHUT-IN	120.00		1189.00

FINAL HYDROSTATIC PRESSURE: 1934.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/5/94	TICKET	: 20603
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: #8-16	TEST: 2	GEOLOGIST: FRAULICH
ELEVATION:	2967 GL	FORMATION:	KANSAS CITY A
SECTION	: 16	TOWNSHIP	: 23S
RANGE	: 34W	COUNTY: FINNEY	STATE : KS
GAUGE SN#:	1562	RANGE : 3900	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	67.00	67.00
5.00	67.00	0.00
10.00	88.00	21.00
15.00	116.00	28.00
20.00	146.00	30.00
25.00	175.00	29.00
30.00	197.00	22.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	991.00	991.00	11.00
6.00	1085.00	94.00	6.00
9.00	1114.00	29.00	4.33
12.00	1130.00	16.00	3.50
15.00	1143.00	13.00	3.00
18.00	1150.00	7.00	2.67
21.00	1156.00	6.00	2.43
24.00	1161.00	5.00	2.25
27.00	1165.00	4.00	2.11
30.00	1167.00	2.00	2.00
33.00	1169.00	2.00	1.91
36.00	1171.00	2.00	1.83
39.00	1173.00	2.00	1.77
42.00	1174.00	1.00	1.71
45.00	1175.00	1.00	1.67
48.00	1176.00	1.00	1.63
51.00	1177.00	1.00	1.59
54.00	1178.00	1.00	1.56
57.00	1179.00	1.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1179.00	0.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	252.00	252.00
5.00	252.00	0.00
10.00	254.00	2.00
15.00	263.00	9.00
20.00	272.00	9.00
25.00	284.00	12.00
30.00	296.00	12.00
35.00	307.00	11.00
40.00	319.00	12.00
45.00	328.00	9.00
50.00	338.00	10.00
55.00	348.00	10.00
60.00	350.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	948.00	948.00	21.00
6.00	1074.00	126.00	11.00
9.00	1105.00	31.00	7.67
12.00	1124.00	19.00	6.00
15.00	1135.00	11.00	5.00
18.00	1144.00	9.00	4.33
21.00	1150.00	6.00	3.86
24.00	1156.00	6.00	3.50
27.00	1158.00	2.00	3.22
30.00	1161.00	3.00	3.00
33.00	1164.00	3.00	2.82
36.00	1166.00	2.00	2.67
39.00	1168.00	2.00	2.54
42.00	1169.00	1.00	2.43
45.00	1170.00	1.00	2.33
48.00	1171.00	1.00	2.25

PRESSURE TRANSIENT REPORT (CONTINUED)

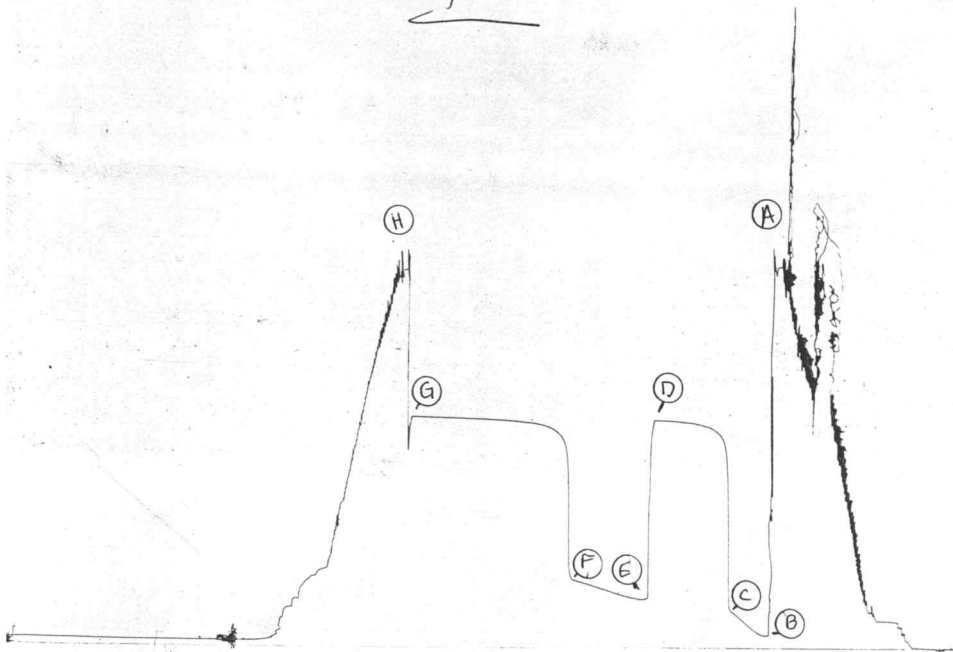
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1172.00	1.00	2.18
54.00	1173.00	1.00	2.11
57.00	1174.00	1.00	2.05
60.00	1175.00	1.00	2.00
63.00	1176.00	1.00	1.95
66.00	1177.00	1.00	1.91
69.00	1178.00	1.00	1.87
72.00	1179.00	1.00	1.83
75.00	1180.00	1.00	1.80
78.00	1181.00	1.00	1.77
81.00	1182.00	1.00	1.74
84.00	1183.00	1.00	1.71
87.00	1184.00	1.00	1.69
90.00	1184.00	0.00	1.67
93.00	1185.00	1.00	1.65
96.00	1185.00	0.00	1.63
99.00	1186.00	1.00	1.61
102.00	1186.00	0.00	1.59
105.00	1187.00	1.00	1.57
108.00	1187.00	0.00	1.56
111.00	1188.00	1.00	1.54
114.00	1188.00	0.00	1.53
117.00	1189.00	1.00	1.51
120.00	1189.00	0.00	1.50

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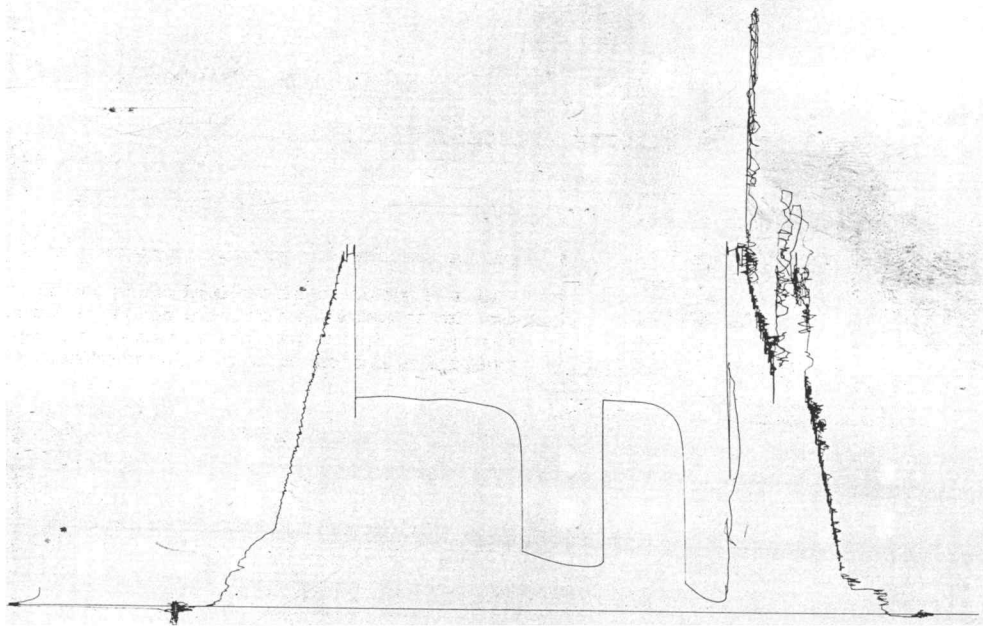


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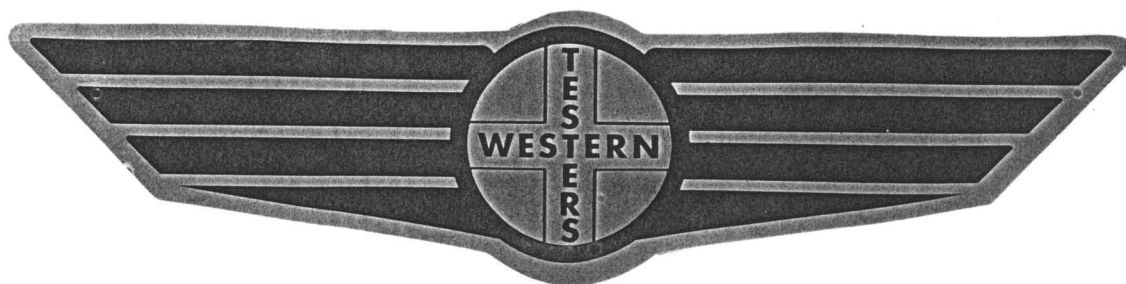
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10/6/94	TICKET	: 20604
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: #8-16	TEST: 3	GEOLOGIST: FRAULICH
ELEVATION	: 2967 GL	FORMATION	: CHEROKEE
SECTION	: 16	TOWNSHIP	: 23S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 1562	RANGE	: 3900
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4381.00 ft	TO:	4393.00 ft	TVD:	4393.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4386.0 ft		4389.0 ft		
TEMPERATURE:	134.0				
DRILL COLLAR LENGTH:	450.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3404.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	12.0 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:	4376.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4381.0 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 #2	VISCOSITY :	46.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	2600 ppm	SERIAL NUMBER:	408
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK SURFACE BLOW. FINAL
FLOW PERIOD VERY WEAK INCREASING TO WEAK BLOW -
3 INCHES IN BUCKET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
25.0	65.0	0.0	0.0	35.0	HEAVY OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 2600 PPM

RATE INFORMATION

OIL VOLUME:	0.0764	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	1.8805	STB/D
MUD VOLUME:	0.0411	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1175	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2073.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	50.00
INITIAL SHUT-IN	60.00		738.00
FINAL FLOW	60.00	60.00	60.00
FINAL SHUT-IN	120.00		886.00

FINAL HYDROSTATIC PRESSURE: 2069.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2076.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	49.00	49.00
INITIAL SHUT-IN	57.00		732.00
FINAL FLOW	60.00	48.00	48.00
FINAL SHUT-IN	117.00		875.00

FINAL HYDROSTATIC PRESSURE: 2063.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/6/94	TICKET : 20604
CUSTOMER : HARRIS OIL & GAS	LEASE : GARDEN CITY
WELL : #8-16	GEOLOGIST: FRAULICH
ELEVATION: 2967 GL	FORMATION: CHEROKEE
SECTION : 16	TOWNSHIP : 23S
RANGE : 34W	STATE : KS
GAUGE SN#: 1562	CLOCK : 12
COUNTY: FINNEY	
RANGE : 3900	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	49.00	49.00
5.00	49.00	0.00
10.00	49.00	0.00
15.00	49.00	0.00
20.00	49.00	0.00
25.00	49.00	0.00
30.00	49.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	51.00	51.00	11.00
6.00	55.00	4.00	6.00
9.00	62.00	7.00	4.33
12.00	70.00	8.00	3.50
15.00	81.00	11.00	3.00
18.00	93.00	12.00	2.67
21.00	109.00	16.00	2.43
24.00	129.00	20.00	2.25
27.00	153.00	24.00	2.11
30.00	187.00	34.00	2.00
33.00	235.00	48.00	1.91
36.00	290.00	55.00	1.83
39.00	355.00	65.00	1.77
42.00	436.00	81.00	1.71
45.00	510.00	74.00	1.67
48.00	587.00	77.00	1.63
51.00	654.00	67.00	1.59
54.00	711.00	57.00	1.56
57.00	732.00	21.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	48.00	48.00
5.00	48.00	0.00
10.00	48.00	0.00
15.00	48.00	0.00
20.00	48.00	0.00
25.00	48.00	0.00
30.00	48.00	0.00
35.00	48.00	0.00
40.00	48.00	0.00
45.00	48.00	0.00
50.00	48.00	0.00
55.00	48.00	0.00
60.00	48.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	55.00	55.00	21.00
6.00	61.00	6.00	11.00
9.00	71.00	10.00	7.67
12.00	80.00	9.00	6.00
15.00	92.00	12.00	5.00
18.00	105.00	13.00	4.33
21.00	118.00	13.00	3.86
24.00	134.00	16.00	3.50
27.00	149.00	15.00	3.22
30.00	168.00	19.00	3.00
33.00	185.00	17.00	2.82
36.00	211.00	26.00	2.67
39.00	245.00	34.00	2.54
42.00	281.00	36.00	2.43
45.00	324.00	43.00	2.33
48.00	370.00	46.00	2.25
51.00	419.00	49.00	2.18
54.00	474.00	55.00	2.11
57.00	528.00	54.00	2.05
60.00	579.00	51.00	2.00
63.00	630.00	51.00	1.95
66.00	669.00	39.00	1.91
69.00	704.00	35.00	1.87
72.00	734.00	30.00	1.83
75.00	760.00	26.00	1.80

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

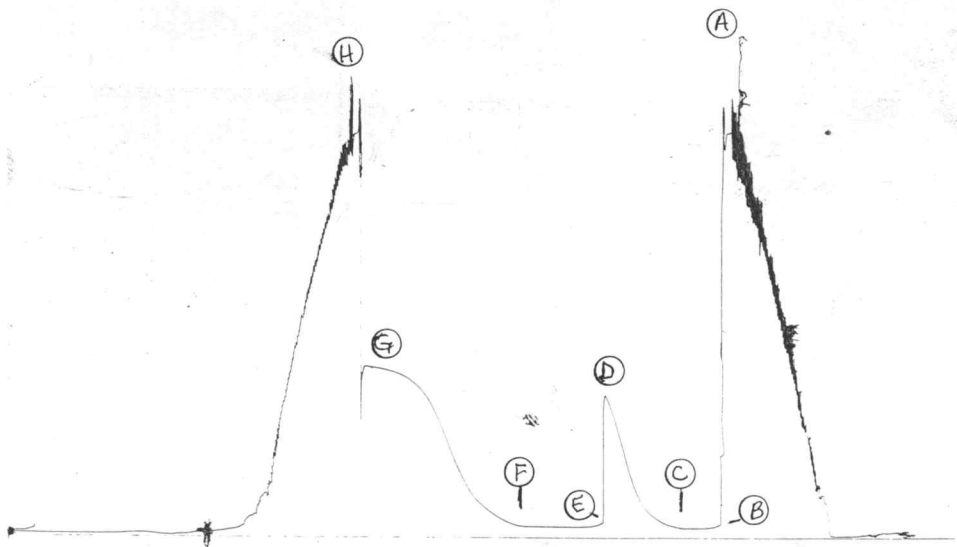
Time (min)	Pressure	Delta P	Horner T
78.00	779.00	19.00	1.77
81.00	796.00	17.00	1.74
84.00	812.00	16.00	1.71
87.00	825.00	13.00	1.69
90.00	834.00	9.00	1.67
93.00	841.00	7.00	1.65
96.00	849.00	8.00	1.63
99.00	856.00	7.00	1.61
102.00	860.00	4.00	1.59
105.00	864.00	4.00	1.57
108.00	867.00	3.00	1.56
111.00	870.00	3.00	1.54
114.00	873.00	3.00	1.53
117.00	875.00	2.00	1.51

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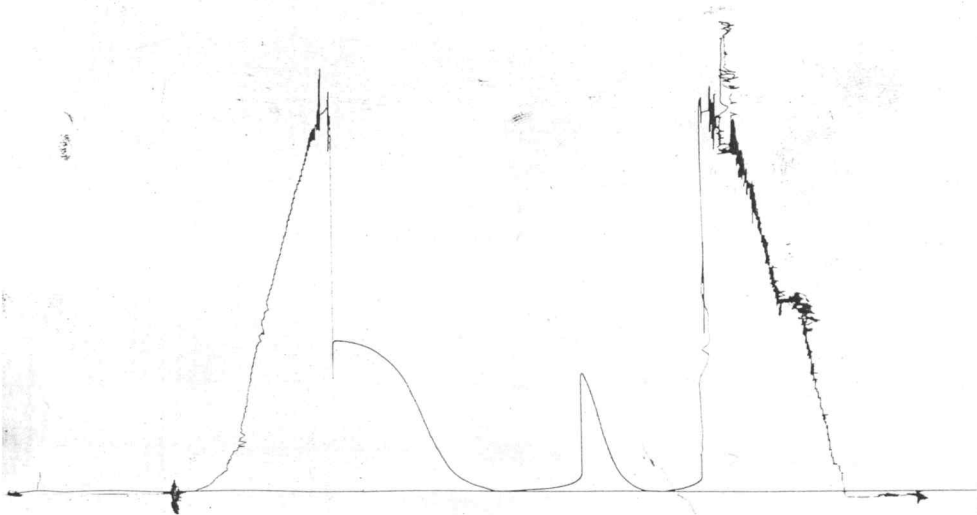


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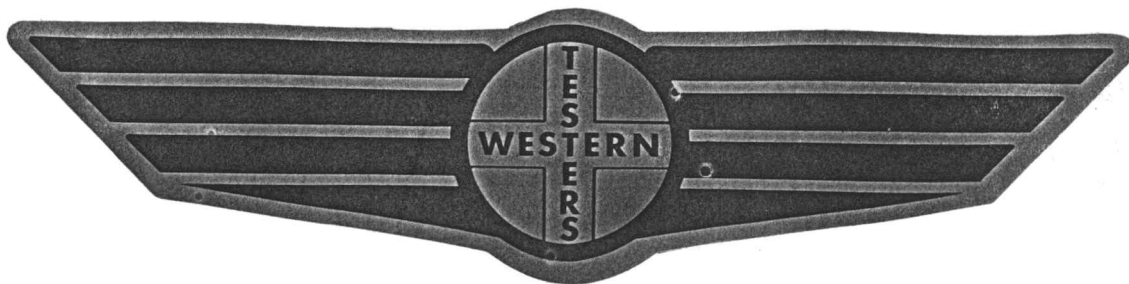
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10/9/94	TICKET	: 20605
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: 8-16	TEST: 4	GEOLOGIST: WESTENHAVEN?
ELEVATION	: 2967 GL	FORMATION	: ST LOUIS
SECTION	: 16	TOWNSHIP	: 23S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 1562	RANGE	: 3900
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4690.00 ft	TO:	4724.00 ft	TVD:	4856.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4695.0 ft		4698.0 ft		
TEMPERATURE:	138.0				
DRILL COLLAR LENGTH:	330.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4333.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	34.0 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:	4685.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	4690.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	4724.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	ALLEN RIG 2	VISCOSITY :	42.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	7.200 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	2200 ppm	SERIAL NUMBER:	408
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD: VERY WEAK SURFACE BLOW, DIED
IN 20 MINUTES. FINAL FLOW: NO BLOW.
120FT OF DRILL COLLARS IN TAIL PIPE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	60.0	40.0	WTRY MUD W\FEW SPOTS OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 22000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0282	STB	AVERAGE WATER RATE:	1.6925	STB/D
WATER VOLUME:	0.0423	STB			
TOTAL FLUID :	0.0705	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2310.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	70.00	70.00
INITIAL SHUT-IN	60.00		300.00
FINAL FLOW	30.00	60.00	60.00
FINAL SHUT-IN	60.00		280.00

FINAL HYDROSTATIC PRESSURE: 2250.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2379.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	62.00	62.00
INITIAL SHUT-IN	60.00		315.00
FINAL FLOW	30.00	62.00	62.00
FINAL SHUT-IN	60.00		126.00

FINAL HYDROSTATIC PRESSURE: 2266.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/9/94	TICKET	: 20605
CUSTOMER	: HARRIS OIL COMPANY	LEASE	: GARDEN CITY
WELL	: 8-16	TEST:	4
ELEVATION:	2967 GL	GEOLOGIST:	WESTENHAVEN?
SECTION	: 16	FORMATION:	ST LOUIS
RANGE	: 34W	TOWNSHIP	: 23S
GAUGE SN#:	1562	COUNTY:	FINNEY
		STATE	: KS
		RANGE	: 3900
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	62.00	62.00
5.00	62.00	0.00
10.00	62.00	0.00
15.00	62.00	0.00
20.00	62.00	0.00
25.00	62.00	0.00
30.00	62.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	64.00	64.00	0.00
6.00	68.00	4.00	0.00
9.00	75.00	7.00	0.00
12.00	87.00	12.00	0.00
15.00	100.00	13.00	0.00
18.00	117.00	17.00	0.00
21.00	132.00	15.00	0.00
24.00	153.00	21.00	0.00
27.00	172.00	19.00	0.00
30.00	191.00	19.00	0.00
33.00	211.00	20.00	0.00
36.00	226.00	15.00	0.00
39.00	242.00	16.00	0.00
42.00	255.00	13.00	0.00
45.00	268.00	13.00	0.00
48.00	280.00	12.00	0.00
51.00	290.00	10.00	0.00
54.00	301.00	11.00	0.00
57.00	310.00	9.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	315.00	5.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	62.00	62.00
5.00	62.00	0.00
10.00	62.00	0.00
15.00	62.00	0.00
20.00	62.00	0.00
25.00	62.00	0.00
30.00	62.00	0.00

FINAL SHUT IN

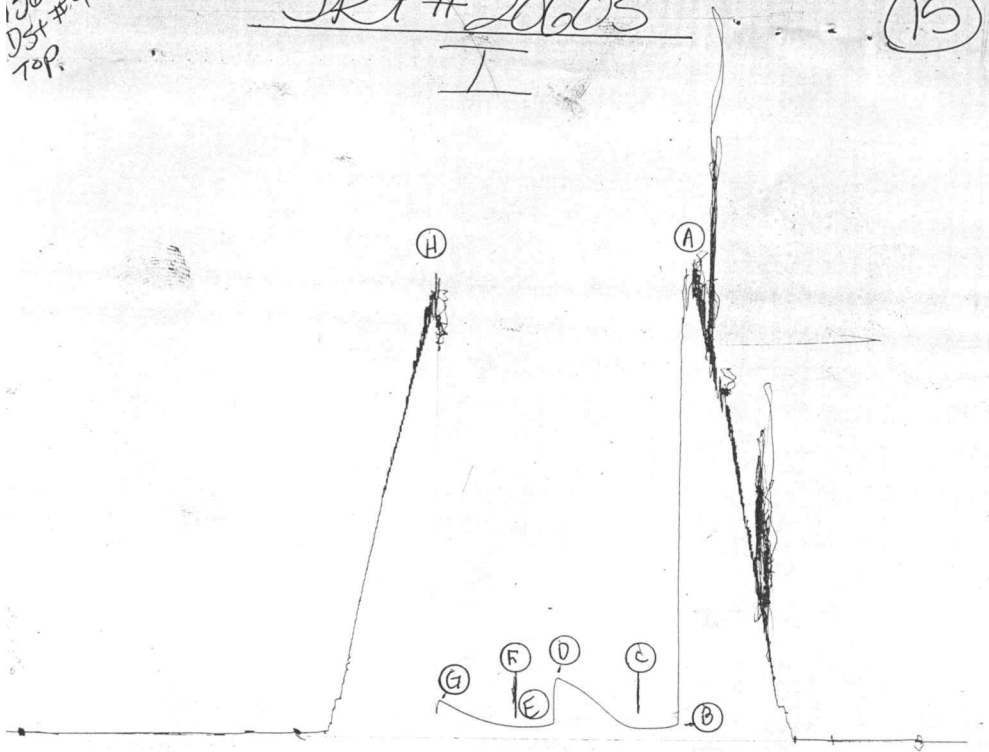
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	64.00	64.00	0.00
6.00	66.00	2.00	0.00
9.00	69.00	3.00	0.00
12.00	72.00	3.00	0.00
15.00	77.00	5.00	0.00
18.00	81.00	4.00	0.00
21.00	87.00	6.00	0.00
24.00	93.00	6.00	0.00
27.00	99.00	6.00	0.00
30.00	108.00	9.00	0.00
33.00	117.00	9.00	0.00
36.00	125.00	8.00	0.00
39.00	134.00	9.00	0.00
42.00	145.00	11.00	0.00
45.00	150.00	5.00	0.00
48.00	161.00	11.00	0.00
51.00	175.00	14.00	0.00
54.00	188.00	13.00	0.00
57.00	192.00	4.00	0.00
60.00	126.00	-66.00	0.00

564
DST #4
TOP.

KT# 20605

I

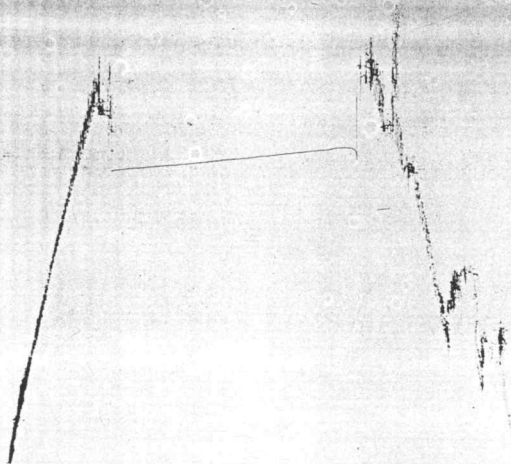
(15)



604
511#
STRADOLE

Skt # 20605

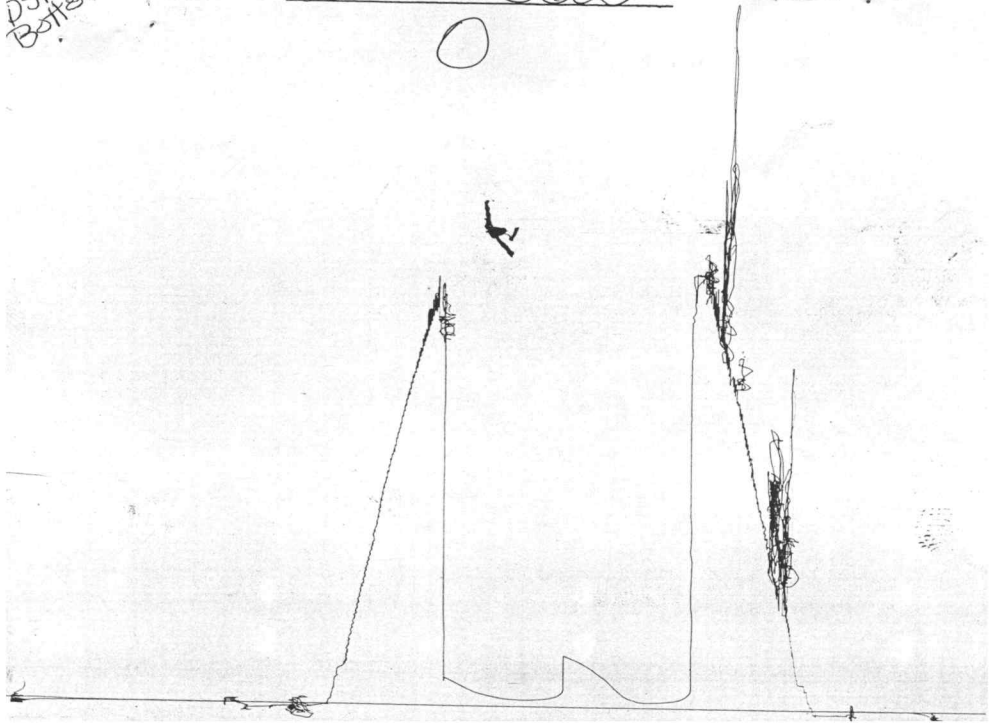
Below Straddle



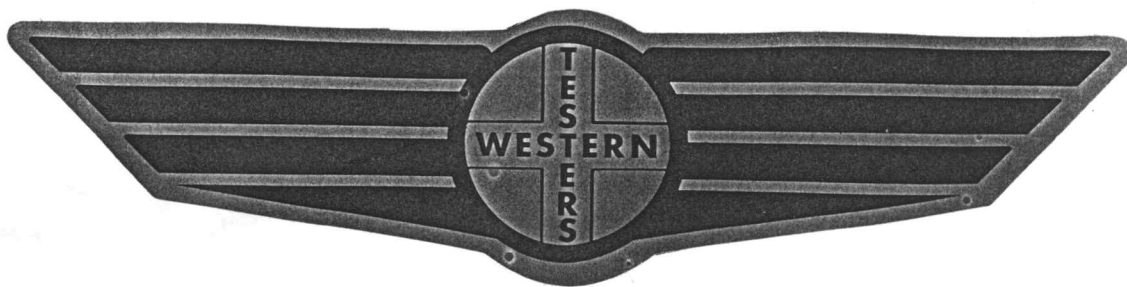
2601
DST #4
Bottom

Kit # 20605

0



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10/9/94	TICKET	: 20606
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: 8-16	TEST: 5	GEOLOGIST: WESTENHAVEN?
ELEVATION	: 2967GL	FORMATION	: MORROW
SECTION	: 16	TOWNSHIP	: 23S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 1562	RANGE	: 3900
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4570.00 ft	TO:	4690.00 ft	TVD:	4856.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4575.0 ft		4578.0 ft		
TEMPERATURE:	135.0				
DRILL COLLAR LENGTH:	300.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4243.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	120.0 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:	4565.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	4570.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	4690.0 ft	SIZE:		6.625 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	ALLEN RIG 2	VISCOSITY :	42.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	7.200 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	2200 ppm	SERIAL NUMBER:	408
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK TO FAIR BLOW, 8 INCHES IN
BUCKET. FINAL FLOW: WEAK TO FAIR BLOW, 9.5 INCHES
IN BUCKET.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

93 FT DRILL PIPE IN ANCHOR
151 FT DRILL COLLAR IN TAIL PIPE

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
380.0	0.0	0.0	15.0	85.0	WATERY MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 19000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	2.1526	STB		
WATER VOLUME:	0.3799	STB		
TOTAL FLUID :	2.5325	STB		
			TOTAL FLOW TIME:	85.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	42.9038 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2330.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	170.00	230.00
INITIAL SHUT-IN	60.00		996.00
FINAL FLOW	60.00	270.00	290.00
FINAL SHUT-IN	120.00		996.00

FINAL HYDROSTATIC PRESSURE: 2181.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2345.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	169.00	230.00
INITIAL SHUT-IN	57.00		1019.00
FINAL FLOW	55.00	266.00	288.00
FINAL SHUT-IN	123.00		1013.00
FINAL HYDROSTATIC PRESSURE:	2177.00		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/9/94	TICKET	: 20606
CUSTOMER	: HARRIS OIL & GAS	LEASE	: GARDEN CITY
WELL	: 8-16	TEST:	5
ELEVATION:	2967GL	GEOLOGIST:	WESTENHAVEN?
SECTION	: 16	FORMATION:	MORROW
RANGE	: 34W	COUNTY:	FINNEY
GAUGE SN#:	1562	RANGE	: 3900
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	169.00	169.00
5.00	176.00	7.00
10.00	187.00	11.00
15.00	201.00	14.00
20.00	211.00	10.00
25.00	220.00	9.00
30.00	230.00	10.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	293.00	293.00	0.00
6.00	418.00	125.00	0.00
9.00	537.00	119.00	0.00
12.00	629.00	92.00	0.00
15.00	689.00	60.00	0.00
18.00	725.00	36.00	0.00
21.00	747.00	22.00	0.00
24.00	776.00	29.00	0.00
27.00	806.00	30.00	0.00
30.00	839.00	33.00	0.00
33.00	868.00	29.00	0.00
36.00	894.00	26.00	0.00
39.00	916.00	22.00	0.00
42.00	935.00	19.00	0.00
45.00	956.00	21.00	0.00
48.00	972.00	16.00	0.00
51.00	989.00	17.00	0.00
54.00	1003.00	14.00	0.00
57.00	1019.00	16.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	266.00	266.00
5.00	266.00	0.00
10.00	266.00	0.00
15.00	266.00	0.00
20.00	268.00	2.00
25.00	271.00	3.00
30.00	273.00	2.00
35.00	277.00	4.00
40.00	279.00	2.00
45.00	281.00	2.00
50.00	284.00	3.00
55.00	288.00	4.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	318.00	318.00	0.00
6.00	363.00	45.00	0.00
9.00	446.00	83.00	0.00
12.00	543.00	97.00	0.00
15.00	604.00	61.00	0.00
18.00	647.00	43.00	0.00
21.00	669.00	22.00	0.00
24.00	669.00	0.00	0.00
27.00	689.00	20.00	0.00
30.00	728.00	39.00	0.00
33.00	743.00	15.00	0.00
36.00	753.00	10.00	0.00
39.00	764.00	11.00	0.00
42.00	776.00	12.00	0.00
45.00	787.00	11.00	0.00
48.00	800.00	13.00	0.00
51.00	810.00	10.00	0.00
54.00	817.00	7.00	0.00
57.00	834.00	17.00	0.00
60.00	862.00	28.00	0.00
63.00	870.00	8.00	0.00
66.00	881.00	11.00	0.00
69.00	891.00	10.00	0.00
72.00	902.00	11.00	0.00
75.00	911.00	9.00	0.00
78.00	921.00	10.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

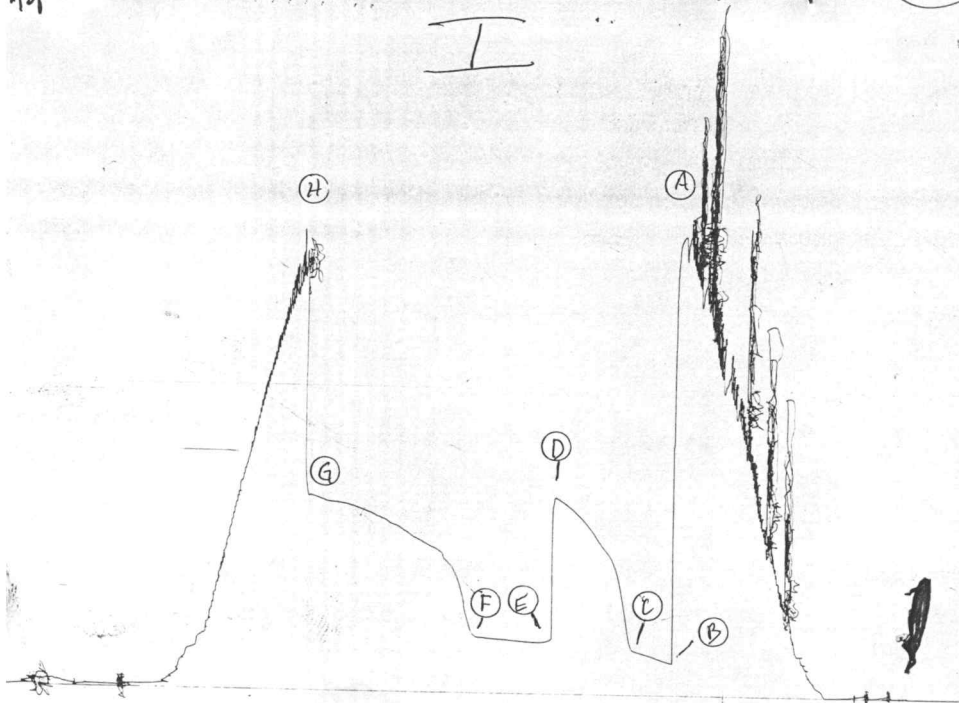
Time (min)	Pressure	Delta P	Horner T
81.00	929.00	8.00	0.00
84.00	938.00	9.00	0.00
87.00	946.00	8.00	0.00
90.00	953.00	7.00	0.00
93.00	960.00	7.00	0.00
96.00	966.00	6.00	0.00
99.00	970.00	4.00	0.00
102.00	972.00	2.00	0.00
105.00	974.00	2.00	0.00
108.00	976.00	2.00	0.00
111.00	982.00	6.00	0.00
114.00	988.00	6.00	0.00
117.00	996.00	8.00	0.00
120.00	1003.00	7.00	0.00
123.00	1013.00	10.00	0.00

150
d57 #5
top

Kit # 20606

(15)

I



60
Dist #5
Bottom

JKT # 20606

0

