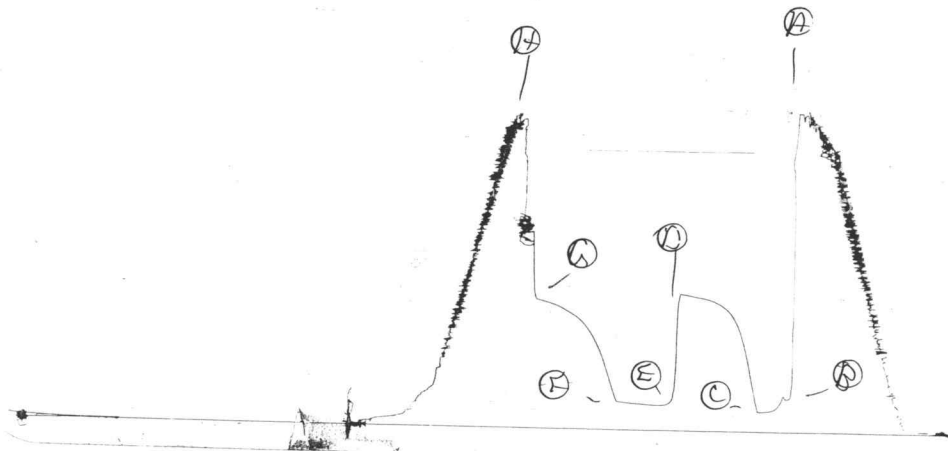


DST #1
RSC #11018
INSIDE

JK4 21417

1

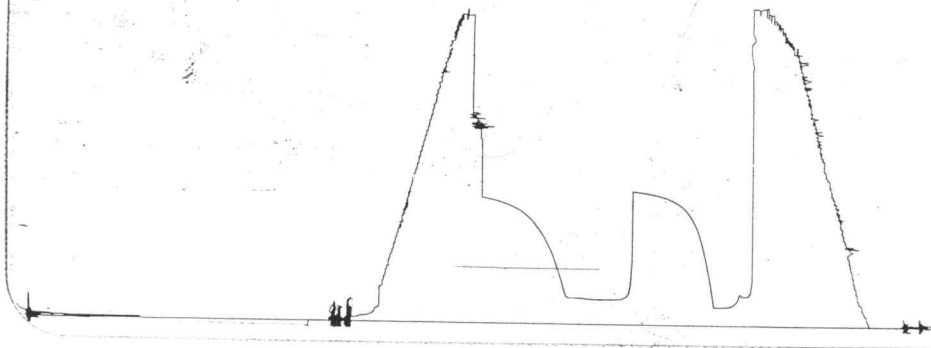


Inside Recorder

DST #1
RSC #13629
OUTSIDE

JK4 21417

0



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 4/7/95	TICKET	: 21417
CUSTOMER	: JFW, INC.	LEASE	: MARION TRUST
WELL	: #1	TEST: 1	GEOLOGIST: MUSGROVE
ELEVATION	: 1800 KB	FORMATION	: VIOLA
SECTION	: 30	TOWNSHIP	: 23S
RANGE	: 10W	COUNTY: RENO	STATE : KS
GAUGE SN#	: 11018	RANGE : 4425	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3626.00 ft	TO:	3689.00 ft	TVD:	3689.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3629.0 ft		3686.0 ft		
TEMPERATURE:	111.0				
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 :	3600.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	63.0 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:	3621.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3626.0 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 1	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.000 cc
WEIGHT :	9.100 ppg		
CHLORIDES :	10000 ppm	SERIAL NUMBER:	12369
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 2 MINUTES. GAS TO SURFACE IN 15 MINUTES.
FINAL FLOW PERIOD GAS TO SURFACE THROUGHOUT.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

SEE GAS SHEET ATTACHED.
GAS BURNED - SAMPLE CAUGHT.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
240.0	0.0	30.0	0.0	70.0	GASSY DRILLING MUD
120.0	10.0	25.0	10.0	55.0	OIL & GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.1683	STB		
GAS VOLUME:	8.0333	SCF		
MUD VOLUME:	3.2822	STB		
WATER VOLUME:	0.1683	STB		
TOTAL FLUID :	3.6188	STB		
			TOTAL FLOW TIME:	70.0000 min.
			AVERAGE OIL RATE:	12.9844 STB/D
			AVERAGE WATER RATE:	12.9844 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1764.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	166.00	78.00
INITIAL SHUT-IN	60.00		760.00
FINAL FLOW	45.00	133.00	151.00
FINAL SHUT-IN	60.00		710.00

FINAL HYDROSTATIC PRESSURE: 1713.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1819.00

Description	Duration	p1	p End
INITIAL FLOW	25.00	192.00	120.00
INITIAL SHUT-IN	60.00		785.00
FINAL FLOW	45.00	147.00	161.00
FINAL SHUT-IN	60.00		740.00
FINAL HYDROSTATIC PRESSURE:	1758.00		

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 4/7/95	TICKET : 21417	
CUSTOMER : JFW, INC.	LEASE : MARION TRUST	
WELL : #1	GEOLOGIST: MUSGROVE	TEST: 1
ELEVATION: 1800 KB	FORMATION: VIOLA	
SECTION : 30	TOWNSHIP : 23S	
RANGE : 10W	STATE : KS	COUNTY: RENO
GAUGE SN#: 11018	CLOCK : 12	RANGE : 4425

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.500	15" WATER	24500 SCF/D
25 MIN	MERLA	0.500	12" WATER	21900 SCF/D
30 MIN	MERLA	0.500	12" WATER	21900 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	0.500	20" WATER	28000 SCF/D
10 MIN	MERLA	0.500	15" WATER	24500 SCF/D
15 MIN	MERLA	0.500	11" WATER	20900 SCF/D
20 MIN	MERLA	0.500	10" WATER	19900 SCF/D
25 MIN	MERLA	0.500	8" WATER	17200 SCF/D
30 MIN	MERLA	0.500	8" WATER	17200 SCF/D
35 MIN	MERLA	0.500	8" WATER	17200 SCF/D
40 MIN	MERLA	0.500	8" WATER	17200 SCF/D
45 MIN	MERLA	0.500	8" WATER	17200 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4/7/95	TICKET	: 21417
CUSTOMER	: JFW, INC.	LEASE	: MARION TRUST
WELL	: #1	GEOLOGIST	: MUSGROVE
ELEVATION	: 1800 KB	FORMATION	: VIOLA
SECTION	: 30	TOWNSHIP	: 23S
RANGE	: 10W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	TEST: 1		
	COUNTY: RENO		
	RANGE : 4425		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	192.00	192.00
5.00	192.00	0.00
10.00	153.00	-39.00
15.00	124.00	-29.00
20.00	117.00	-7.00
25.00	120.00	3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	210.00	210.00	9.33
6.00	323.00	113.00	5.17
9.00	433.00	110.00	3.78
12.00	511.00	78.00	3.08
15.00	585.00	74.00	2.67
18.00	633.00	48.00	2.39
21.00	670.00	37.00	2.19
24.00	694.00	24.00	2.04
27.00	714.00	20.00	1.93
30.00	729.00	15.00	1.83
33.00	738.00	9.00	1.76
36.00	751.00	13.00	1.69
39.00	758.00	7.00	1.64
42.00	763.00	5.00	1.60
45.00	767.00	4.00	1.56
48.00	771.00	4.00	1.52
51.00	775.00	4.00	1.49
54.00	779.00	4.00	1.46
57.00	782.00	3.00	1.44
60.00	785.00	3.00	1.42

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	147.00	147.00
5.00	147.00	0.00
10.00	147.00	0.00
15.00	147.00	0.00
20.00	147.00	0.00
25.00	151.00	4.00
30.00	153.00	2.00
35.00	155.00	2.00
40.00	158.00	3.00
45.00	161.00	3.00

FINAL SHUT IN

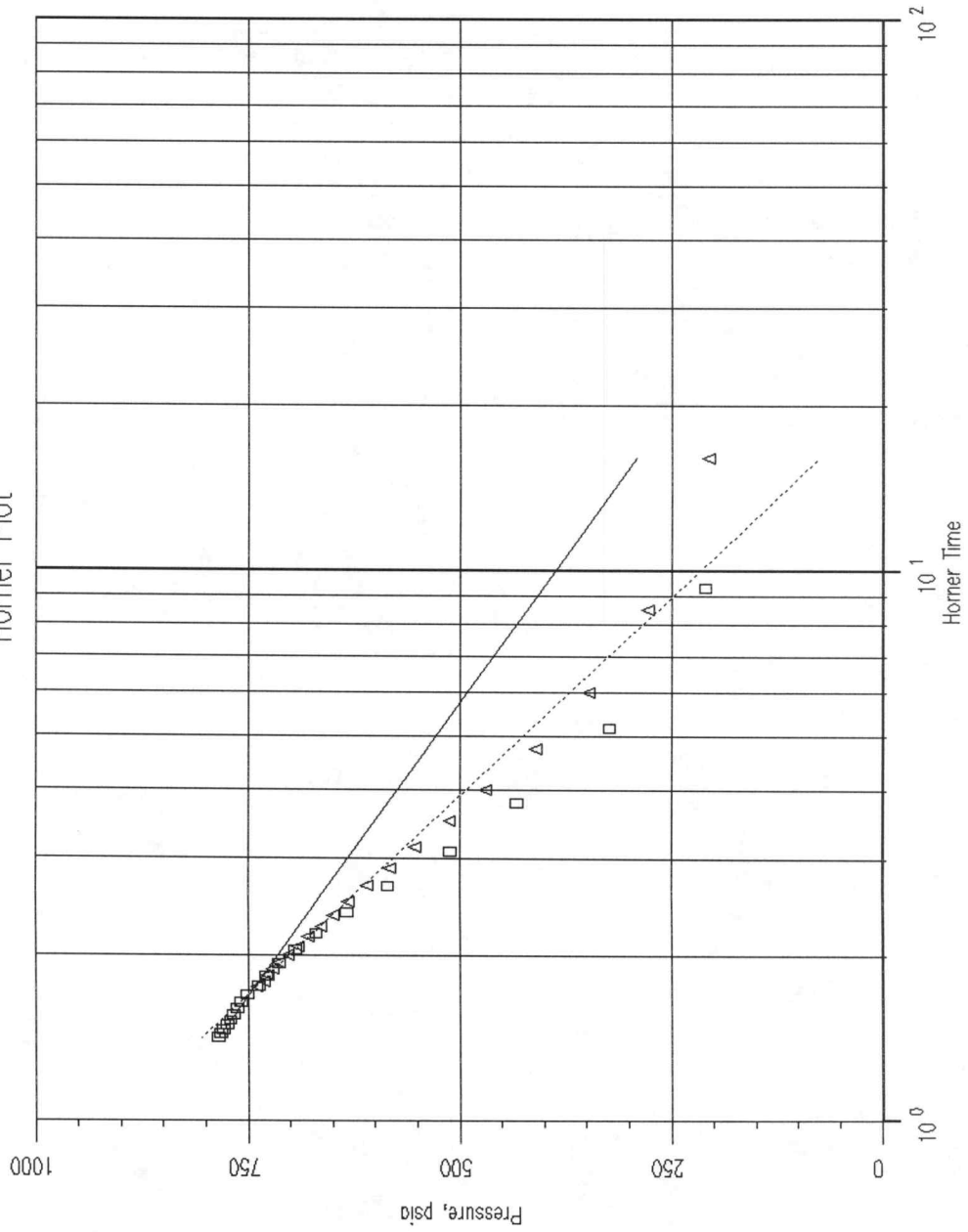
Time (min)	Pressure	Delta P	Horner T
3.00	206.00	206.00	16.00
6.00	278.00	72.00	8.50
9.00	348.00	70.00	6.00
12.00	410.00	62.00	4.75
15.00	470.00	60.00	4.00
18.00	512.00	42.00	3.50
21.00	553.00	41.00	3.14
24.00	583.00	30.00	2.88
27.00	610.00	27.00	2.67
30.00	632.00	22.00	2.50
33.00	650.00	18.00	2.36
36.00	664.00	14.00	2.25
39.00	679.00	15.00	2.15
42.00	691.00	12.00	2.07
45.00	703.00	12.00	2.00
48.00	714.00	11.00	1.94
51.00	721.00	7.00	1.88
54.00	727.00	6.00	1.83
57.00	732.00	5.00	1.79
60.00	740.00	8.00	1.75

DATE 4/7/95
 CUSTOMER JFW, INC.
 WELL #1
 ELEVATION 1800 KB
 SECTION 30
 RANGE 10W
 GAUGE SN# 11018

TEST 1
 COUNTY RENO
 RANGE 4425

TICKET 21417
 LEASE MARION TRUST
 GEOLOGIST MUSGROVE
 FORMATION VIOLA
 TOWNSHIP 23S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.42	0.75
Slope	-469.54	-693.53
Pstar, psig	856.75	909.97
P1hr, psig	785.72	741.41
Skin	-0.11	-0.77
k, md	0.58	0.39
kh/u, md-ft/cp	7.32	4.96
ri, ft	2.99	3.31
DR, %	0.69	0.45
Drawdown Factor, %		5.732
Drawdown P*, %		-6.211

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 4/7/95	TICKET : 21417	
CUSTOMER : JFW, INC.	LEASE : MARION TRUST	
WELL : #1	GEOLOGIST: MUSGROVE	TEST: 1
ELEVATION: 1800 KB	FORMATION: VIOLA	
SECTION : 30	TOWNSHIP : 23S	
RANGE : 10W	STATE : KS	COUNTY: RENO
GAUGE SN#: 11018	CLOCK : 12	RANGE : 4425

Input Data

Porosity 0.100 Rw: 0.328 ft h: 6.000 ft

qo 13.0 STB GOR 1324.7 SCF/STB

Pvt Data

Evalutation Pressure : 785.0

Evalutation Temperature: 111.0

Oil Grav 35.00 API	Gas Grav 0.65 API	Pb 4654.15 PSIA
Bo 1.629 RBL/STB	Vis 1.000 cp	Ct 5.9842E-004 1/PSI

Horner Results

Inital Shut-In

Final Shut-In

pseudo pressure time	0.42 hrs	0.75 hrs
slope	-469.54	-693.53
pstar	856.75 psig	909.97 psig
plhr	785.72 psig	741.41 psig
skin	-0.11	-0.77
permeability	0.58 md	0.39 md
transmisability	7.32 md-ft/cp	4.96 md-ft/cp
radius of investigation	2.99 ft	3.31 ft
Damage-Ratio	0.69 percent	0.45 percent
Drawdown Factor		5.732 percent
Drawdown P*		-6.211 percent

DST REPORT

GENERAL INFORMATION

DATE	: 4/7/95	TICKET	: 21418
CUSTOMER	: JFW, INC.	LEASE	: MARION TRUST
WELL	: #1	GEOLOGIST	: MUSGROVE
ELEVATION	: 1800 KB	FORMATION	: VIOLA
SECTION	: 30	TOWNSHIP	: 23S
RANGE	: 10W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	TEST: 2		
	COUNTY: RENO		
	RANGE : 4425		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3689.00 ft	TO:	3719.00 ft	TVD:	3719.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3692.0 ft		3716.0 ft		
TEMPERATURE:	113.0				
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 :	3663.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	30.0 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:	3684.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3689.0 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 1	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.000 cc
WEIGHT :	9.100 ppg		
CHLORIDES :	10000 ppm	SERIAL NUMBER:	12369
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 2 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IMMEDIATELY. GAS TO SURFACE IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

35 MINUTES.
GAS BURNED - SAMPLE CAUGHT.
GAS GUAGED A STEADY 10000 CF/D FOR 10 MINUTES THAT
IT WAS TO SURFACE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	30.0	0.0	70.0	GASSY DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	1.4176	SCF		
MUD VOLUME:	0.5891	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.5891	STB		
			TOTAL FLOW TIME:	75.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1820.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	40.00
INITIAL SHUT-IN	60.00		754.00
FINAL FLOW	45.00	55.00	57.00
FINAL SHUT-IN	60.00		734.00

FINAL HYDROSTATIC PRESSURE: 1794.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1852.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	48.00	48.00
INITIAL SHUT-IN	60.00		770.00
FINAL FLOW	45.00	61.00	61.00
FINAL SHUT-IN	60.00		756.00

FINAL HYDROSTATIC PRESSURE: 1813.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/7/95	TICKET : 21418	
CUSTOMER : JFW, INC.	LEASE : MARION TRUST	
WELL : #1	GEOLOGIST: MUSGROVE	TEST: 2
ELEVATION: 1800 KB	FORMATION: VIOLA	
SECTION : 30	TOWNSHIP : 23S	
RANGE : 10W	STATE : KS	COUNTY: RENO
GAUGE SN#: 11018	CLOCK : 12	RANGE : 4425

INITIAL 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

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	195.00	195.00	0.00
6.00	323.00	128.00	0.00
9.00	426.00	103.00	0.00
12.00	495.00	69.00	0.00
15.00	553.00	58.00	0.00
18.00	594.00	41.00	0.00
21.00	634.00	40.00	0.00
24.00	658.00	24.00	0.00
27.00	680.00	22.00	0.00
30.00	700.00	20.00	0.00
33.00	717.00	17.00	0.00
36.00	730.00	13.00	0.00
39.00	738.00	8.00	0.00
42.00	746.00	8.00	0.00
45.00	751.00	5.00	0.00
48.00	757.00	6.00	0.00
51.00	762.00	5.00	0.00
54.00	766.00	4.00	0.00
57.00	768.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	770.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	61.00	61.00
5.00	61.00	0.00
10.00	61.00	0.00
15.00	61.00	0.00
20.00	61.00	0.00
25.00	61.00	0.00
30.00	61.00	0.00
35.00	61.00	0.00
40.00	61.00	0.00
45.00	61.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	139.00	139.00	0.00
6.00	255.00	116.00	0.00
9.00	346.00	91.00	0.00
12.00	418.00	72.00	0.00
15.00	482.00	64.00	0.00
18.00	531.00	49.00	0.00
21.00	573.00	42.00	0.00
24.00	608.00	35.00	0.00
27.00	638.00	30.00	0.00
30.00	664.00	26.00	0.00
33.00	681.00	17.00	0.00
36.00	694.00	13.00	0.00
39.00	708.00	14.00	0.00
42.00	718.00	10.00	0.00
45.00	728.00	10.00	0.00
48.00	736.00	8.00	0.00
51.00	740.00	4.00	0.00
54.00	746.00	6.00	0.00
57.00	749.00	3.00	0.00

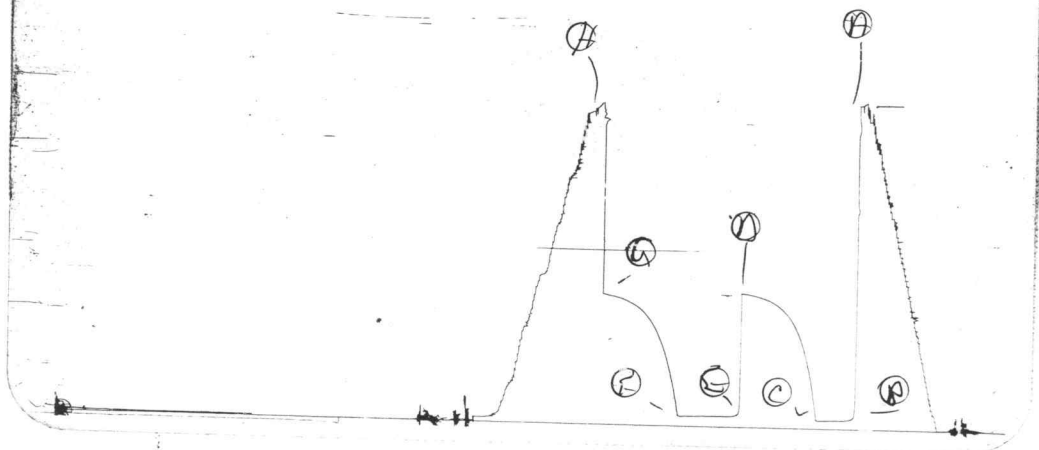
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	756.00	7.00	0.00

DST #2
RSC #11018
INSIDE

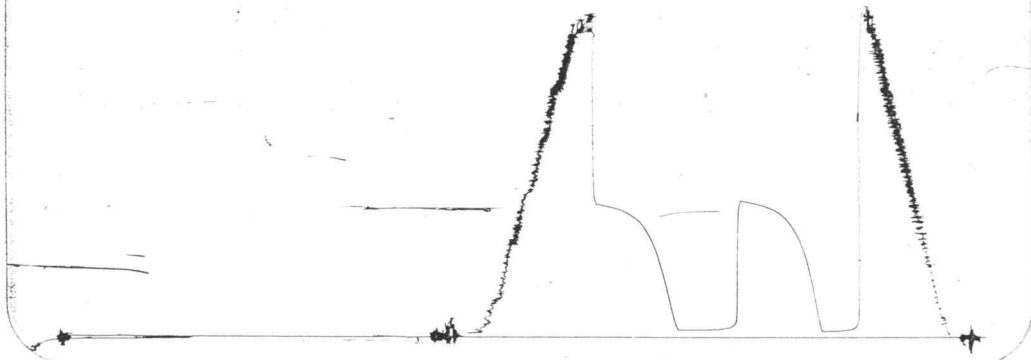
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Inside Recorder

DST #2
RSC #13629
OUTSIDE

KT 21418
O



Outside Recorder