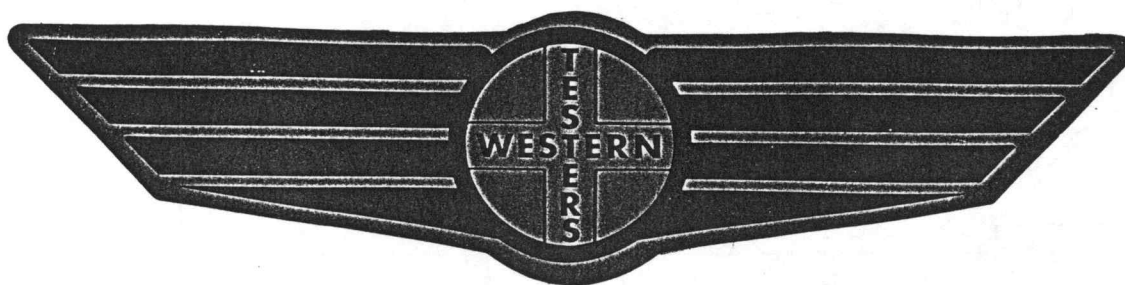


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 LUELLA SPEER SEC. 30 TWP. 19S RGE. 28W TEST NO. 1 DATE 10/9/92

DST REPORT

GENERAL INFORMATION

DATE : 10/9/92
CUSTOMER : RITCHIE EXPLORATION, INC.
WELL : 1 TEST: 1
ELEVATION: 2808 GL EST.
SECTION : 30
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13547 RANGE : 4200

TICKET : 19498
LEASE : LUELLA SPEER
GEOLOGIST: KEVIN KESSLER
FORMATION: MARMATON - FT. SCOTT
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4463.00 ft TO: 4595.00 ft TVD: 4595.0 ft
DEPTH OF SELECTIVE ZONE:
DEPTH OF RECORDERS: 4466.0 ft 4469.0 ft TEST TYPE: OIL
TEMPERATURE: 128.0

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 :	4443.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	132.0 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:	4458.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4463.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppG
CHLORIDES : 2500 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
WATER LOSS: 10.400 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW, SUILT TO A 3/4 INCH
BLOW IN BUCKET. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	OIL SPECKED MUD
0.0	0.0	0.0	0.0	0.0	OIL LESS THAN 1%

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:	0.2104	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2104	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2226.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	30.00		768.00
FINAL FLOW	30.00	42.00	42.00
FINAL SHUT-IN	30.00		664.00

FINAL HYDROSTATIC PRESSURE: 2205.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2269.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	48.00	48.00
INITIAL SHUT-IN	30.00		779.00
FINAL FLOW	30.00	49.00	49.00
FINAL SHUT-IN	33.00		678.00

FINAL HYDROSTATIC PRESSURE: 2235.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/9/92	TICKET : 19498
CUSTOMER : RITCHIE EXPLORATION, INC.	LEASE : LUELLA SPEER
WELL : 1 TEST: 1	GEOLOGIST: KEVIN KESSLER
ELEVATION: 2808 GL EST.	FORMATION: MARMATON - FT. SCOTT
SECTION : 30	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
GAUGE SN#: 13547	CLOCK : 12
COUNTY: LANE	
RANGE : 4200	

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	52.00	52.00	0.00
6.00	82.00	30.00	0.00
9.00	180.00	98.00	0.00
12.00	311.00	131.00	0.00
15.00	394.00	83.00	0.00
18.00	498.00	104.00	0.00
21.00	578.00	80.00	0.00
24.00	661.00	83.00	0.00
27.00	725.00	64.00	0.00
30.00	779.00	54.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	49.00	49.00

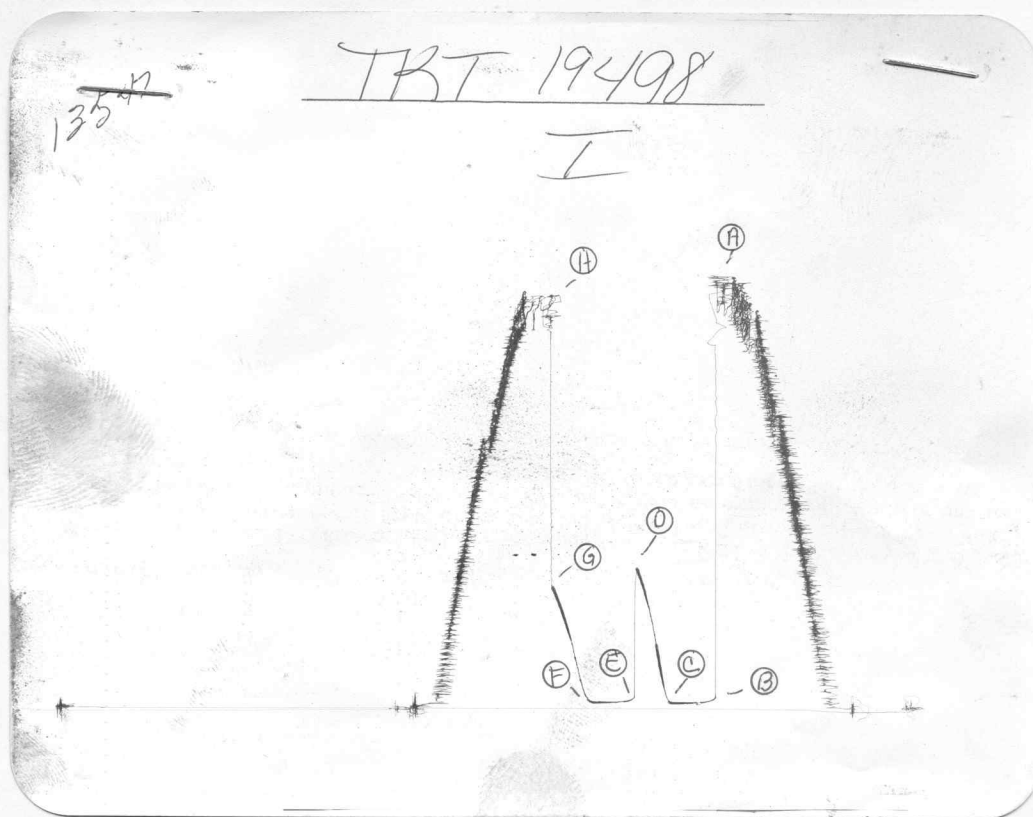
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

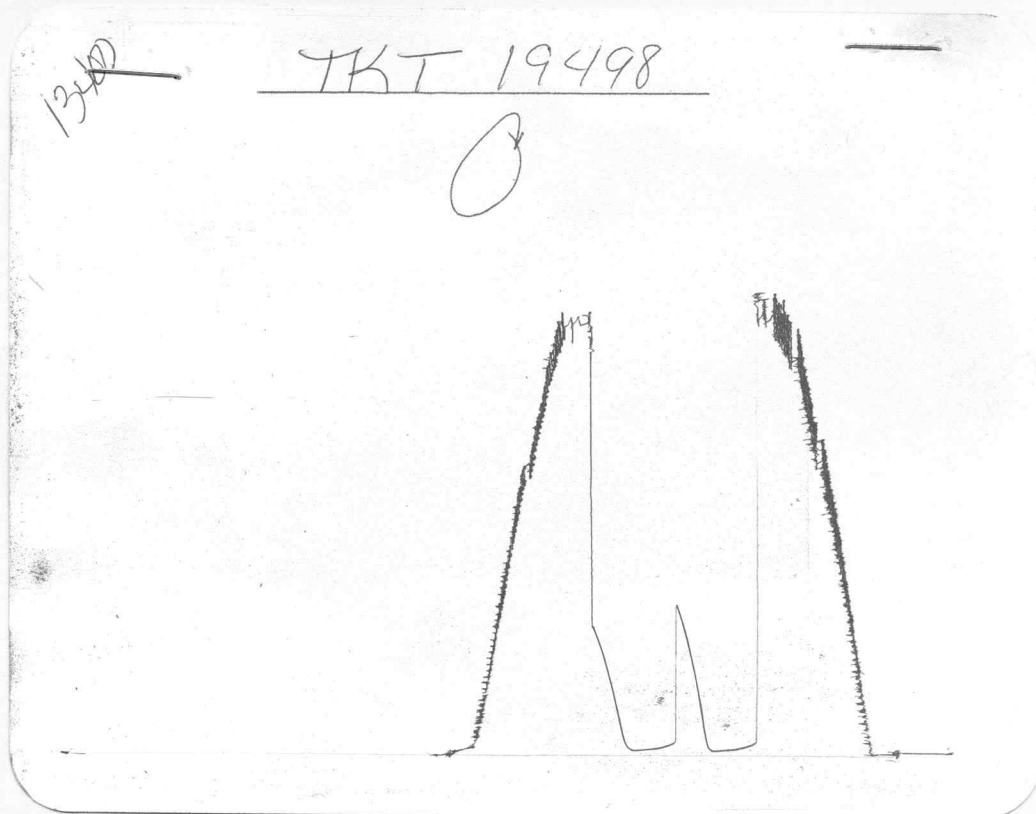
Time (min)	Pressure	Delta P
5.00	49.00	0.00
10.00	49.00	0.00
15.00	49.00	0.00
20.00	49.00	0.00
25.00	49.00	0.00
30.00	49.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	53.00	53.00	0.00
6.00	73.00	20.00	0.00
9.00	120.00	47.00	0.00
12.00	196.00	76.00	0.00
15.00	290.00	94.00	0.00
18.00	380.00	90.00	0.00
21.00	460.00	80.00	0.00
24.00	524.00	64.00	0.00
27.00	584.00	60.00	0.00
30.00	639.00	55.00	0.00
33.00	678.00	39.00	0.00

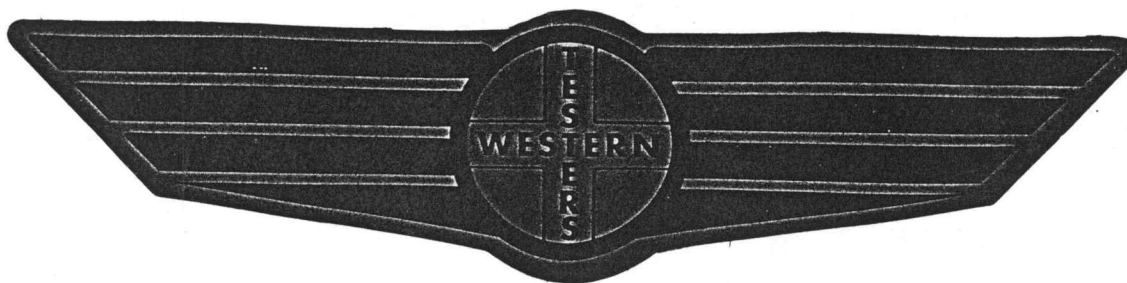


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 LUELLA SPEER SEC. 30 TWP. 19S RGE. 28W TEST NO. 2 DATE 10/9/92

DST REPORT

GENERAL INFORMATION

DATE	: 10/9/92	TICKET	: 19499
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: LUELLA SPEER
WELL	: 1	GEOLOGIST	: KEVIN KESSLER
ELEVATION	: 2808 GL EST.	FORMATION	: CONGLOMERATE SAND
SECTION	: 30	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13547	CLOCK	: 12
	COUNTY: LANE		
	RANGE : 4200		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4558.00 ft	TO:	4660.00 ft	TVD:	4660.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4561.0 ft		4564.0 ft		
TEMPERATURE:	128.0				
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 :	4538.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	102.0 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:	4553.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4558.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS	VISCOSITY :	50.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.500 ppg	SERIAL NUMBER:	
CHLORIDES :	2000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK SURFACE BLOW, DIED IN 20 MINUTES. FINAL FLOW PERIOD NO BLOW, FLUSHED TOOL IN 5 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	MUD

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:	0.1403	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1403	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2322.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	30.00		169.00
FINAL FLOW	30.00	31.00	31.00
FINAL SHUT-IN	30.00		84.00

FINAL HYDROSTATIC PRESSURE: 2290.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2319.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	29.00	29.00
INITIAL SHUT-IN	30.00		172.00
FINAL FLOW	30.00	41.00	34.00
FINAL SHUT-IN	30.00		92.00

FINAL HYDROSTATIC PRESSURE: 2289.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/9/92	TICKET : 19499
CUSTOMER : RITCHIE EXPLORATION, INC.	LEASE : LUELLA SPEER
WELL : 1 TEST: 2	GEOLOGIST: KEVIN KESSLER
ELEVATION: 2808 GL EST.	FORMATION: CONGLOMERATE SAND
SECTION : 30	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
GAUGE SN#: 13547	CLOCK : 12
COUNTY: LANE	
RANGE : 4200	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	29.00	29.00
5.00	29.00	0.00
10.00	29.00	0.00
15.00	29.00	0.00
20.00	29.00	0.00
25.00	29.00	0.00
30.00	29.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	30.00	30.00	0.00
6.00	33.00	3.00	0.00
9.00	36.00	3.00	0.00
12.00	41.00	5.00	0.00
15.00	51.00	10.00	0.00
18.00	64.00	13.00	0.00
21.00	84.00	20.00	0.00
24.00	104.00	20.00	0.00
27.00	139.00	35.00	0.00
30.00	172.00	33.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	41.00	41.00

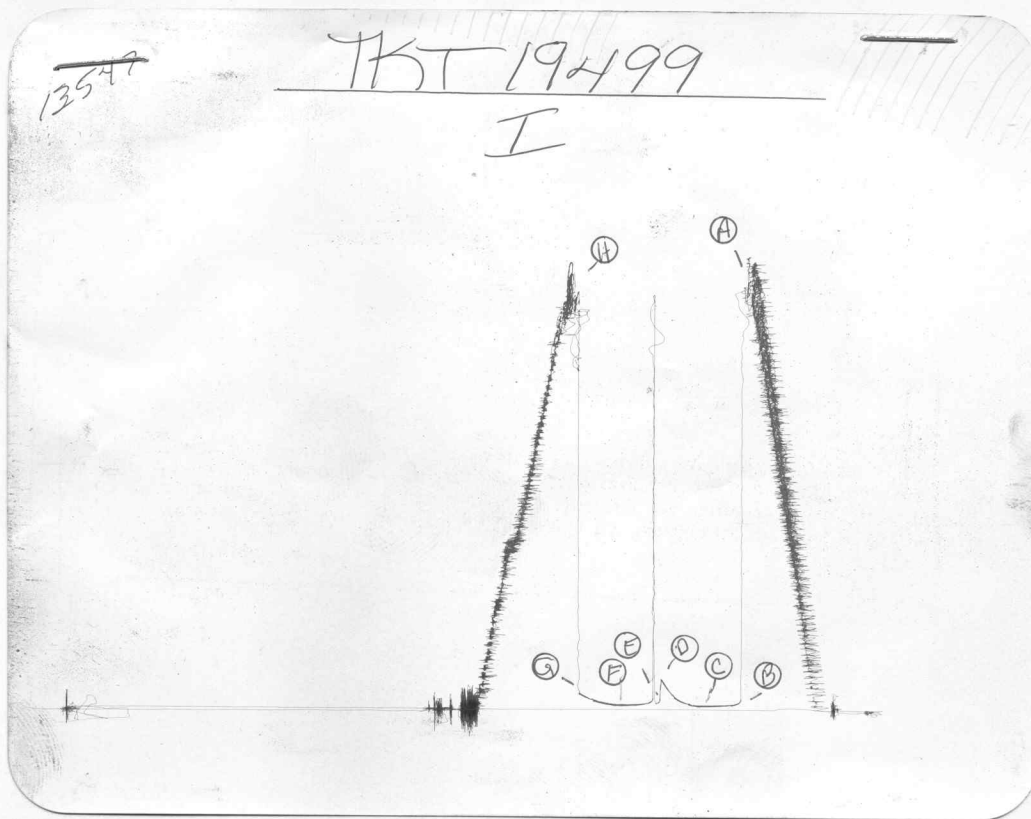
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

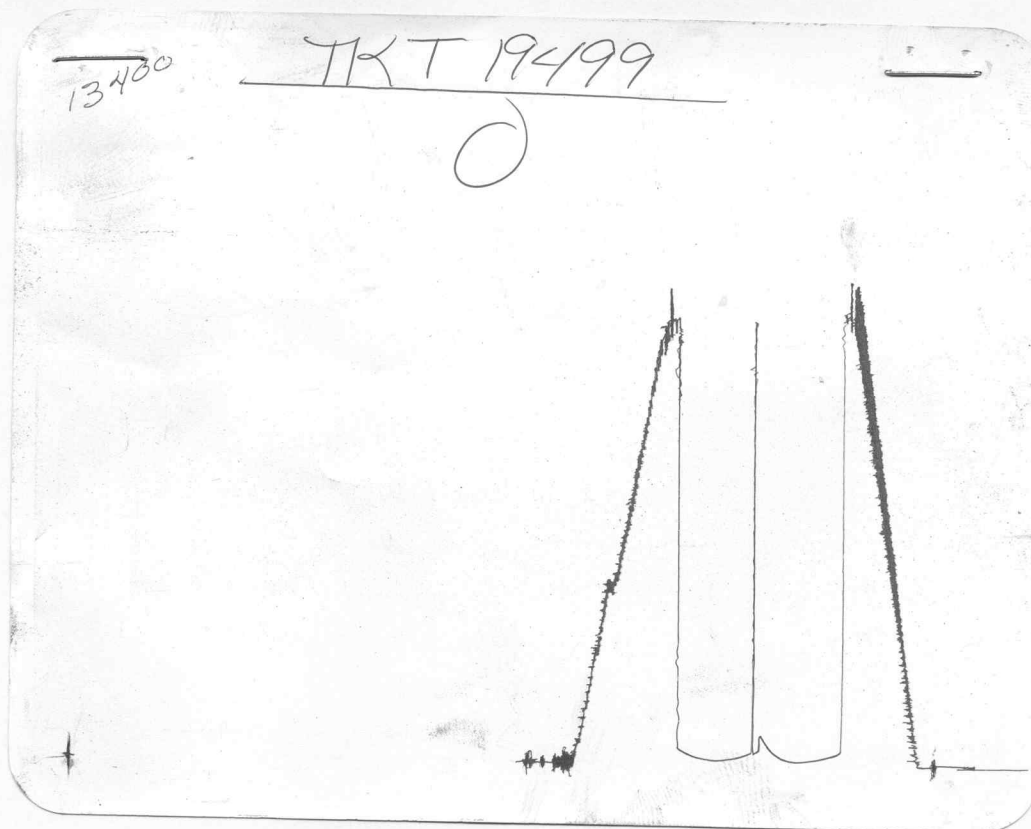
Time (min)	Pressure	Delta P
5.00	41.00	0.00
10.00	41.00	0.00
15.00	36.00	-5.00
20.00	34.00	-2.00
25.00	34.00	0.00
30.00	34.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	35.00	35.00	0.00
6.00	37.00	2.00	0.00
9.00	40.00	3.00	0.00
12.00	46.00	6.00	0.00
15.00	49.00	3.00	0.00
18.00	56.00	7.00	0.00
21.00	64.00	8.00	0.00
24.00	72.00	8.00	0.00
27.00	83.00	11.00	0.00
30.00	92.00	9.00	0.00



Inside Recorder



Outside Recorder