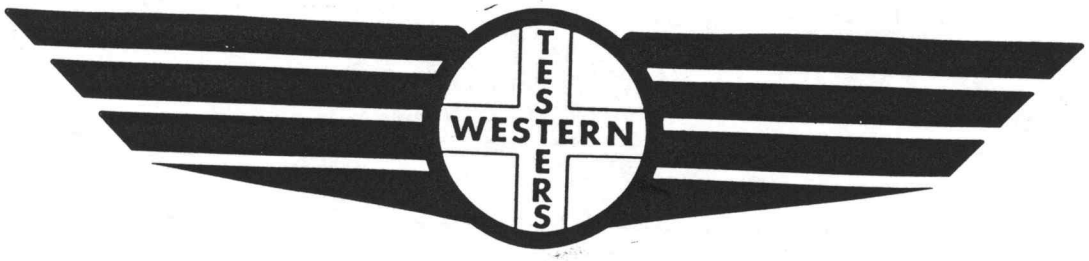
FORMATION TEST REPORT

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #1 MCNEE E SEC. 13 TWP. 32S RGE. 10E TEST NO. 4 DATE 4/1/93



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone **1-800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE	: 5/1/93	TICKET	: 18689
CUSTOMER	: RANGE OIL COMPANY INC.	LEASE	: MCNEE E
WELL	: #1 TEST: 4	GEOLOGIST	: LAUER
ELEVATION	: MISSISSIPPI	FORMATION	: 1130 KB
SECTION	: 13	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 10979 RANGE : 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2003.00 ft TO: 2023.00 ft TVD: 2023.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 2017.0 ft 2020.0 ft
TEMPERATURE: 99.0

DRILL COLLAR LENGTH:	390.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1593.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 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 :	4.5FH
PACKER DEPTH:	1998.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2003.0 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.	: GLAVES RIG 1		
MUD TYPE	: CHEMICAL	VISCOSITY :	42.00 cp
WEIGHT	: 9.300 ppg	WATER LOSS:	10.000 cc
CHLORIDES	: 1000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK TO VERY STRONG BLOW. GAS TO SURFACE IN 8 MINUTES. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME: 0.0000 STB
GAS VOLUME: 0.0000 SCF
MUD VOLUME: 0.1475 STB
WATER VOLUME: 0.0000 STB
TOTAL FLUID : 0.1475 STB

TOTAL FLOW TIME: 95.0000 min.
AVERAGE OIL RATE: 0.0000 STB/D
AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 990.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	65.00	30.00
INITIAL SHUT-IN	30.00		605.00
FINAL FLOW	60.00	30.00	40.00
FINAL SHUT-IN	60.00		605.00

FINAL HYDROSTATIC PRESSURE: 980.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1030.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	70.00	46.00
INITIAL SHUT-IN	30.00		614.00
FINAL FLOW	65.00	40.00	40.00
FINAL SHUT-IN	69.00		622.00

FINAL HYDROSTATIC PRESSURE: 974.00

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	95.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.1475 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.1475 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 990.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	65.00	30.00
INITIAL SHUT-IN	30.00		605.00
FINAL FLOW	60.00	30.00	40.00
FINAL SHUT-IN	60.00		605.00

FINAL HYDROSTATIC PRESSURE: 980.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1030.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	70.00	46.00
INITIAL SHUT-IN	30.00		614.00
FINAL FLOW	65.00	40.00	40.00
FINAL SHUT-IN	69.00		622.00

FINAL HYDROSTATIC PRESSURE: 974.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 5/1/933
CUSTOMER : RANGE OIL COMPANY INC.
WELL : #1 TEST: 4
ELEVATION: MISSISSIPPI
SECTION : 13
RANGE : 10E COUNTY: CHAUTAUQUA
GAUGE SN#: 10979 RANGE : 4100

TICKET : 18689
LEASE : MCNEE E
GEOLOGIST: LAUER
FORMATION: 1130 KB
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	7" WATER	184000 SCF/D
20 MIN	MERLA	1.000	17.5" WATER	108000 SCF/D
30 MIN	MERLA	1.000	17.5" WATER	108000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	0.750	27" WATER	74000 SCF/D
10 MIN	MERLA	0.750	20" WATER	63500 SCF/D
20 MIN	MERLA	0.750	17.5" WATER	59000 SCF/D
30 MIN	MERLA	0.750	16" WATER	56800 SCF/D
40 MIN	MERLA	0.750	15" WATER	55200 SCF/D
50 MIN	MERLA	0.750	15" WATER	55200 SCF/D
60 MIN	MERLA	0.750	14.5" WATER	54000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/1/933
CUSTOMER : RANGE OIL COMPANY INC.
WELL : #1 TEST: 4
ELEVATION: MISSISSIPPI
SECTION : 13
RANGE : 10E COUNTY: CHAUTAUQUA
GAUGE SN#: 10979 RANGE : 4100

TICKET : 18689
LEASE : MCNEE E
GEOLOGIST: LAUER
FORMATION: 1130 KB
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	70.00	70.00
5.00	70.00	0.00
10.00	76.00	6.00
15.00	63.00	-13.00
20.00	50.00	-13.00
25.00	46.00	-4.00
30.00	46.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	493.00	493.00	0.00
6.00	584.00	91.00	0.00
9.00	600.00	16.00	0.00
12.00	606.00	6.00	0.00
15.00	611.00	5.00	0.00
18.00	614.00	3.00	0.00
21.00	614.00	0.00	0.00
24.00	614.00	0.00	0.00
27.00	614.00	0.00	0.00
30.00	614.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	40.00	40.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

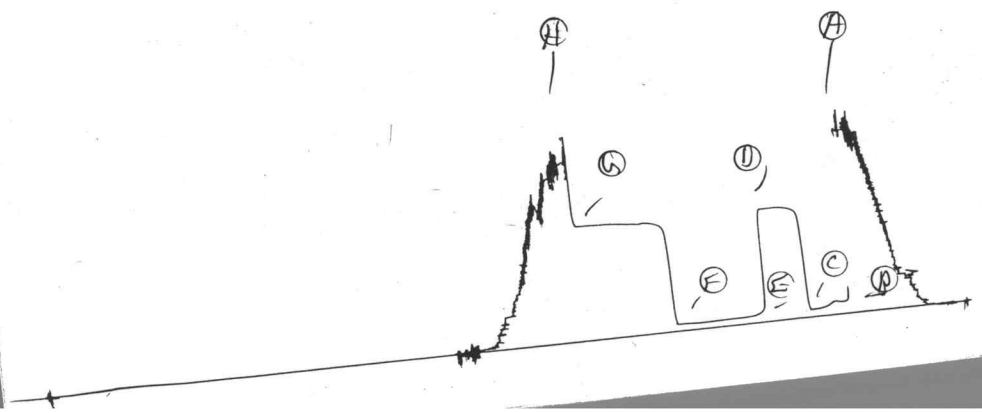
Time (min)	Pressure	Delta P
5.00	40.00	0.00
10.00	40.00	0.00
15.00	40.00	0.00
20.00	40.00	0.00
25.00	40.00	0.00
30.00	40.00	0.00
35.00	40.00	0.00
40.00	40.00	0.00
45.00	40.00	0.00
50.00	40.00	0.00
55.00	40.00	0.00
60.00	40.00	0.00
65.00	40.00	0.00

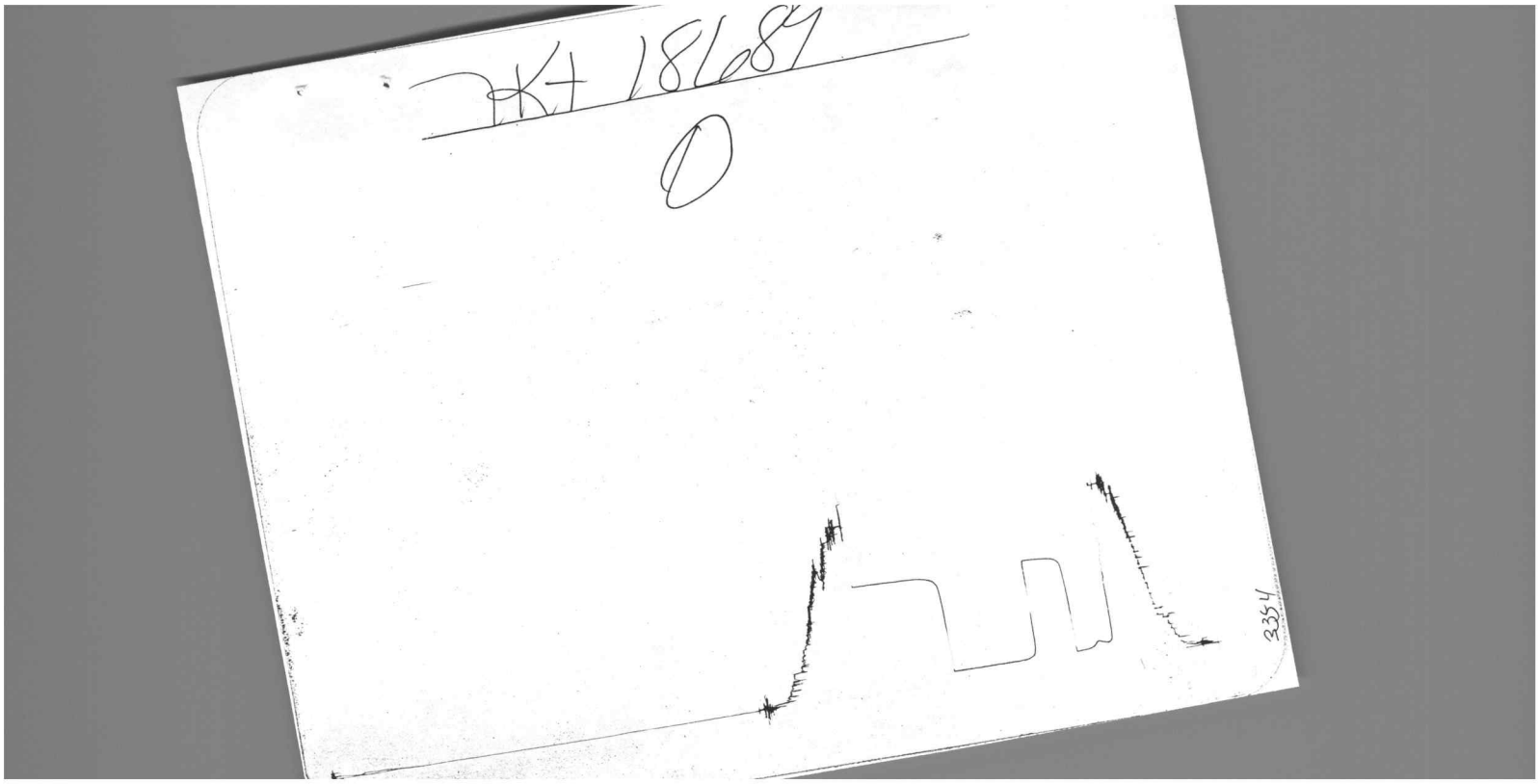
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	384.00	384.00	0.00
6.00	549.00	165.00	0.00
9.00	581.00	32.00	0.00
12.00	593.00	12.00	0.00
15.00	598.00	5.00	0.00
18.00	603.00	5.00	0.00
21.00	603.00	0.00	0.00
24.00	603.00	0.00	0.00
27.00	604.00	1.00	0.00
30.00	605.00	1.00	0.00
33.00	606.00	1.00	0.00
36.00	608.00	2.00	0.00
39.00	610.00	2.00	0.00
42.00	612.00	2.00	0.00
45.00	614.00	2.00	0.00
48.00	615.00	1.00	0.00
51.00	616.00	1.00	0.00
54.00	617.00	1.00	0.00
57.00	618.00	1.00	0.00
60.00	619.00	1.00	0.00
63.00	620.00	1.00	0.00
66.00	621.00	1.00	0.00
69.00	622.00	1.00	0.00

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