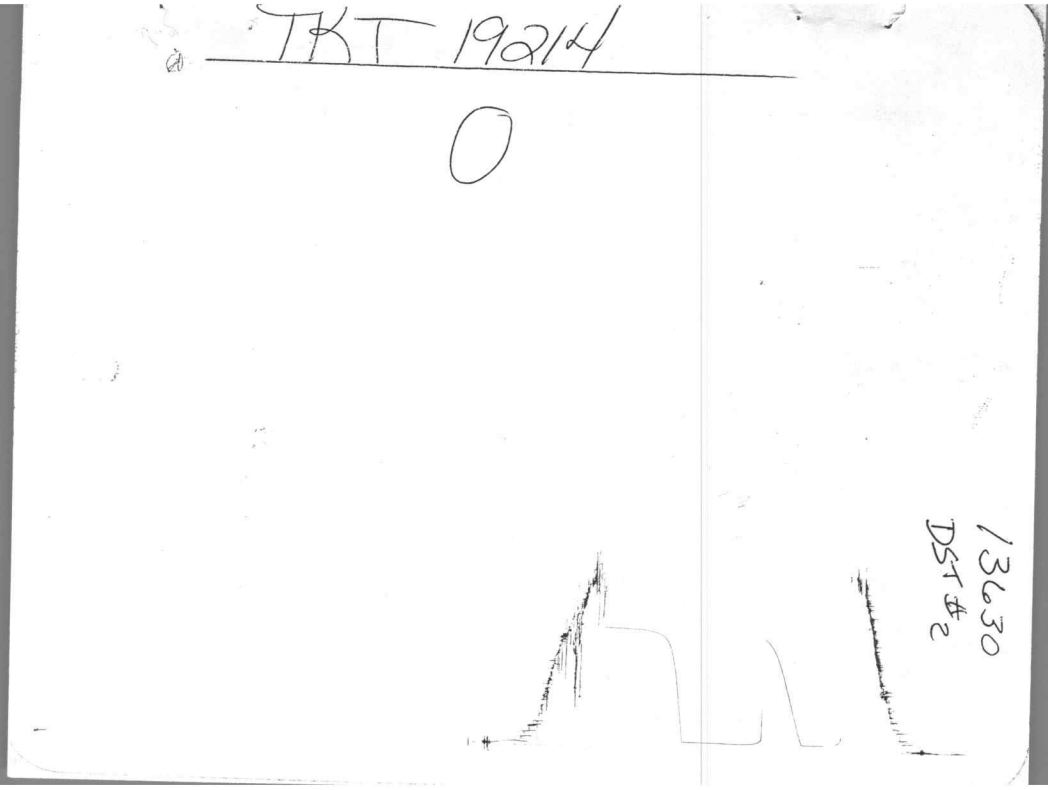
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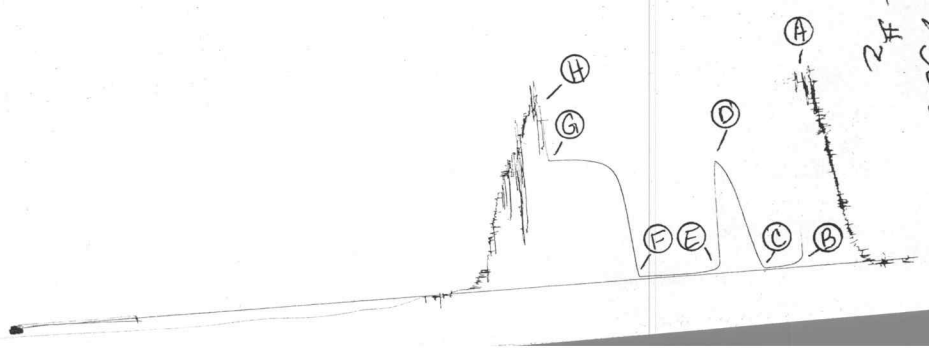
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DST #2

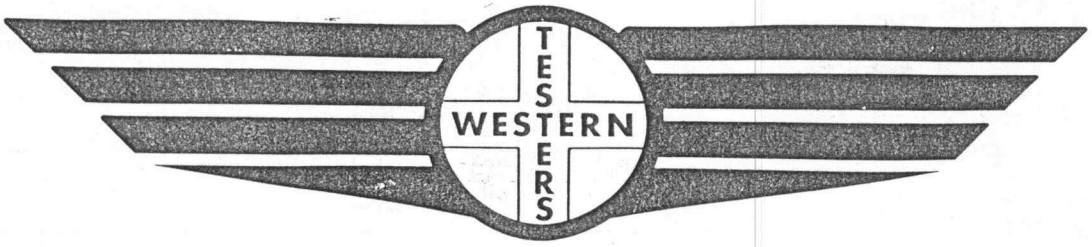
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A 13551
DST #2

FORMATION TEST REPORT



Home Office:
P.O. Box 1599

Wichita, Kansas 67201
Phone 1-800-688-7021

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #1 WALKER F SEC. 35 TWP. 32S RGE. 10E TEST NO. 1 DATE 8/30/92

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.1180 STB/D
MUD VOLUME:	0.0049 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0049 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 889.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	10.00
INITIAL SHUT-IN	30.00		20.00
FINAL FLOW	30.00	10.00	10.00
FINAL SHUT-IN	30.00		10.00

FINAL HYDROSTATIC PRESSURE: 878.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 891.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	18.00	10.00
INITIAL SHUT-IN	27.00		17.00
FINAL FLOW	30.00	10.00	10.00
FINAL SHUT-IN	30.00		10.00

FINAL HYDROSTATIC PRESSURE: 888.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

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

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	10.00	10.00	0.00
6.00	10.00	0.00	0.00
9.00	10.00	0.00	0.00
12.00	10.00	0.00	0.00
15.00	10.00	0.00	0.00
18.00	10.00	0.00	0.00
21.00	10.00	0.00	0.00
24.00	10.00	0.00	0.00
27.00	10.00	0.00	0.00
30.00	10.00	0.00	0.00

DST REPORT

GENERAL INFORMATION

DATE	: 8/30/92	TICKET	: 19213
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: WALKER F
WELL	: 1 TEST: 1	GEOLOGIST	: DAVE CALLEWAERT
ELEVATION	: 1075 KB	FORMATION	: CATTLEMAN
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 1783.00 ft TO: 1817.00 ft TVD: 1817.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 1805.0 ft 1808.0 ft
TEMPERATURE: 96.0

DRILL COLLAR LENGTH:	364.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1399.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 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:	1778.0 ft	SIZE:	6.630 in
PACKER DEPTH:	1783.0 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 :	46.00 cp
WEIGHT	: 9.600 ppg	WATER LOSS:	12.800 cc
CHLORIDES	: 1200 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK SURFACE BLOW, DIED IN 7 MINUTES. FINAL FLOW PERIOD NO BLOW.

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/30/92
CUSTOMER : RANGE OIL COMPANY, INC.
WELL : 1 TEST: 1
ELEVATION: 1075 KB
SECTION : 35
RANGE : 10E COUNTY: CHAUTAUQUA
GAUGE SN#: 13551 RANGE : 4150

TICKET : 19213
LEASE : WALKER F
GEOLOGIST: DAVE CALLEWAERT
FORMATION: CATTLEMAN
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	18.00	18.00
5.00	18.00	0.00
10.00	18.00	0.00
15.00	14.00	-4.00
20.00	11.00	-3.00
25.00	10.00	-1.00
30.00	10.00	0.00

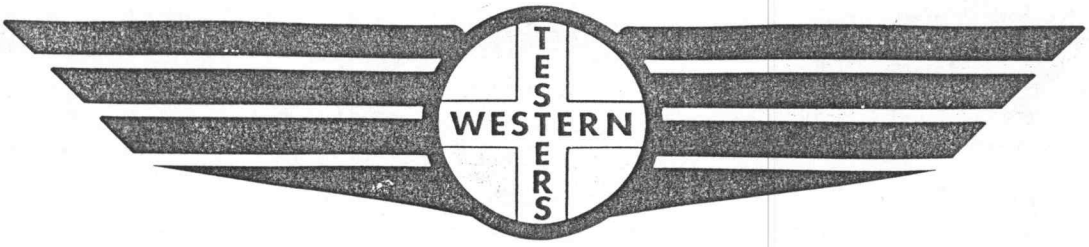
INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	10.00	10.00	0.00
6.00	10.00	0.00	0.00
9.00	10.00	0.00	0.00
12.00	11.00	1.00	0.00
15.00	12.00	1.00	0.00
18.00	13.00	1.00	0.00
21.00	14.00	1.00	0.00
24.00	15.00	1.00	0.00
27.00	17.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	10.00	10.00
5.00	10.00	0.00

FORMATION TEST REPORT



Home Office:
P.O. Box 1599

Wichita, Kansas 67201
Phone 1-800-688-7021

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #1 WALKER F SEC. 35 TWP. 32S RGE. 10E TEST NO. 2 DATE 8/31/92

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IMMEDIATELY, GAS TO SURFACE IN 50 MINUTES.
VERY FAINT ODOR OF GAS IN PIPE.

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	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.1475 STB	AVERAGE OIL RATE:	2.3604 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.1475 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1004.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	20.00
INITIAL SHUT-IN	30.00		606.00
FINAL FLOW	60.00	31.00	20.00
FINAL SHUT-IN	60.00		679.00

FINAL HYDROSTATIC PRESSURE: 993.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8/31/92	TICKET	: 19214
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: WALKER F
WELL	: 1 TEST: 2	GEOLOGIST	: DAVE CALLEWAERT
ELEVATION	: 1075 KB	FORMATION	: MISSISSIPPI
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	13.00	13.00
5.00	13.00	0.00
10.00	13.00	0.00
15.00	13.00	0.00
20.00	13.00	0.00
25.00	13.00	0.00
30.00	13.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	66.00	66.00	0.00
6.00	143.00	77.00	0.00
9.00	221.00	78.00	0.00
12.00	306.00	85.00	0.00
15.00	388.00	82.00	0.00
18.00	458.00	70.00	0.00
21.00	514.00	56.00	0.00
24.00	556.00	42.00	0.00
27.00	589.00	33.00	0.00
30.00	610.00	21.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	18.00	18.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	18.00	0.00
10.00	18.00	0.00
15.00	13.00	-5.00
20.00	13.00	0.00
25.00	13.00	0.00
30.00	13.00	0.00
35.00	13.00	0.00
40.00	13.00	0.00
45.00	13.00	0.00
50.00	13.00	0.00
55.00	13.00	0.00
60.00	13.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	209.00	209.00	0.00
6.00	383.00	174.00	0.00
9.00	507.00	124.00	0.00
12.00	574.00	67.00	0.00
15.00	607.00	33.00	0.00
18.00	627.00	20.00	0.00
21.00	640.00	13.00	0.00
24.00	649.00	9.00	0.00
27.00	656.00	7.00	0.00
30.00	663.00	7.00	0.00
33.00	666.00	3.00	0.00
36.00	670.00	4.00	0.00
39.00	674.00	4.00	0.00
42.00	676.00	2.00	0.00
45.00	677.00	1.00	0.00
48.00	679.00	2.00	0.00
51.00	680.00	1.00	0.00
54.00	680.00	0.00	0.00
57.00	680.00	0.00	0.00
60.00	680.00	0.00	0.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1019.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	13.00	13.00
INITIAL SHUT-IN	30.00		610.00
FINAL FLOW	60.00	18.00	13.00
FINAL SHUT-IN	60.00		680.00

FINAL HYDROSTATIC PRESSURE: 984.00

DST REPORT

GENERAL INFORMATION

DATE	: 8/31/92	TICKET	: 19214
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: WALKER F
WELL	: 1 TEST: 2	GEOLOGIST	: DAVE CALLEWAERT
ELEVATION	: 1075 KB	FORMATION	: MISSISSIPPI
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2002.00 ft TO: 2017.00 ft TVD: 2017.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2009.0 ft 2012.0 ft
TEMPERATURE: 98.0

DRILL COLLAR LENGTH:	242.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1740.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	15.0 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:	1997.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2002.0 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 :	49.00 cp
WEIGHT	: 9.800 ppg	WATER LOSS:	12.800 cc
CHLORIDES	: 1200 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?	: NO

COMMENTS

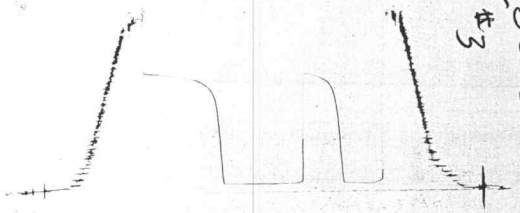
Comment

INITIAL FLOW PERIOD WEAK BLOW BUILDING TO A STRONG BLOW, BOTTOM OF BUCKET IN 14 MINUTES.
FINAL FLOW PERIOD STRONG BLOW, BOTTOM OF BUCKET

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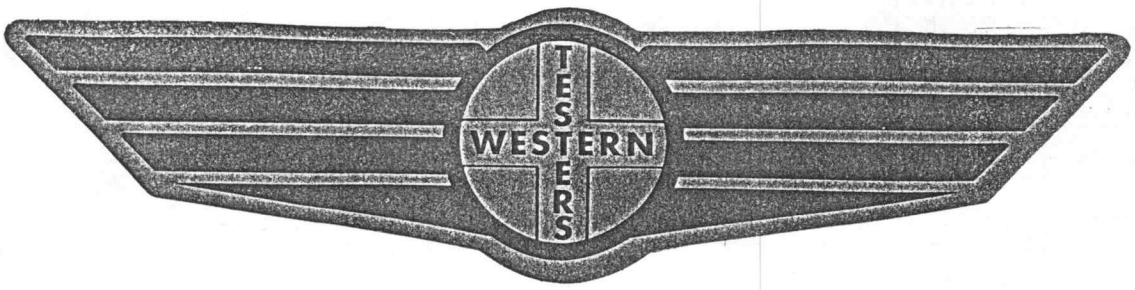
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DST #3



TKT 19215

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FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

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

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #1 WALKER F SEC. 35 TWP. 32S RGE. 10E TEST NO. 3 DATE 9/1/92

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FAINT ODOR OF GAS IN PIPE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	2.0	2.0	0.0	96.0	SLY OIL & GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	ASPHALTIC VERY LOW
0.0	0.0	0.0	0.0	0.0	GRAVITY

RATE INFORMATION

OIL VOLUME:	0.0059 STB		
GAS VOLUME:	0.0331 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.2832 STB	AVERAGE OIL RATE:	4.6264 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.2891 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1025.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	20.00
INITIAL SHUT-IN	30.00		669.00
FINAL FLOW	60.00	31.00	20.00
FINAL SHUT-IN	60.00		669.00

FINAL HYDROSTATIC PRESSURE: 1014.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/1/92
CUSTOMER : RANGE OIL COMPANY, INC.
WELL : 1 TEST: 3
ELEVATION: 1075 KB
SECTION : 35
RANGE : 10E COUNTY: CHAUTAUQUA
GAUGE SN#: 13551 RANGE : 4150

TICKET : 19215
LEASE : WALKER F
GEOLOGIST: DAVE CALLEWAERT
FORMATION: MISSISSIPPI
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	24.00	24.00
5.00	24.00	0.00
10.00	24.00	0.00
15.00	20.00	-4.00
20.00	20.00	0.00
25.00	20.00	0.00
30.00	20.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	367.00	367.00	0.00
6.00	516.00	149.00	0.00
9.00	584.00	68.00	0.00
12.00	612.00	28.00	0.00
15.00	632.00	20.00	0.00
18.00	645.00	13.00	0.00
21.00	654.00	9.00	0.00
24.00	662.00	8.00	0.00
27.00	667.00	5.00	0.00
30.00	670.00	3.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	25.00	25.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE	: 9/1/92	TICKET	: 19215
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: WALKER F
WELL	: 1 TEST: 3	GEOLOGIST	: DAVE CALLEWAERT
ELEVATION	: 1075 KB	FORMATION	: MISSISSIPPI
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
01 MIN.	MERLA	0.250		GAS TO SURFACE
05 MIN.	MERLA	0.250	30" WATER	92000 SCF/D
10 MIN.	MERLA	0.250	30" WATER	92000 SCF/D
15 MIN.	MERLA	0.250	30" WATER	92000 SCF/D
20 MIN.	MERLA	0.250	30" WATER	92000 SCF/D
25 MIN.	MERLA	0.250	26" WATER	85600 SCF/D
30 MIN.	MERLA	0.250	30" WATER	92000 SCF/D
35 MIN.	MERLA	0.250	32" WATER	95000 SCF/D
40 MIN.	MERLA	0.250	34" WATER	97900 SCF/D
45 MIN.	MERLA	0.250	34" WATER	97900 SCF/D
50 MIN.	MERLA	0.250	34" WATER	97900 SCF/D
55 MIN.	MERLA	0.250	36" WATER	10100 SCF/D
60 MIN.	MERLA	0.250	36" WATER	10100 SCF/D

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	25.00	0.00
10.00	25.00	0.00
15.00	25.00	0.00
20.00	25.00	0.00
25.00	25.00	0.00
30.00	25.00	0.00
35.00	22.00	-3.00
40.00	22.00	0.00
45.00	22.00	0.00
50.00	22.00	0.00
55.00	22.00	0.00
60.00	22.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	230.00	230.00	0.00
6.00	453.00	223.00	0.00
9.00	544.00	91.00	0.00
12.00	584.00	40.00	0.00
15.00	604.00	20.00	0.00
18.00	617.00	13.00	0.00
21.00	628.00	11.00	0.00
24.00	638.00	10.00	0.00
27.00	645.00	7.00	0.00
30.00	652.00	7.00	0.00
33.00	657.00	5.00	0.00
36.00	662.00	5.00	0.00
39.00	665.00	3.00	0.00
42.00	669.00	4.00	0.00
45.00	672.00	3.00	0.00
48.00	675.00	3.00	0.00
51.00	677.00	2.00	0.00
54.00	678.00	1.00	0.00
57.00	679.00	1.00	0.00
60.00	679.00	0.00	0.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1032.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	24.00	20.00
INITIAL SHUT-IN	30.00		670.00
FINAL FLOW	60.00	25.00	22.00
FINAL SHUT-IN	60.00		679.00

FINAL HYDROSTATIC PRESSURE: 1025.00

DST REPORT

GENERAL INFORMATION

DATE	: 9/1/92	TICKET	: 19215
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: WALKER F
WELL	: 1 TEST: 3	GEOLOGIST	: DAVE CALLEWAERT
ELEVATION	: 1075 KB	FORMATION	: MISSISSIPPI
SECTION	: 35	TOWNSHIP	: 32S
RANGE	: 10E COUNTY: CHAUTAUQUA	STATE	: KS
GAUGE SN#	: 13551 RANGE : 4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2018.00 ft TO: 2047.00 ft TVD: 2047.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 2037.0 ft 2040.0 ft
TEMPERATURE: 100.0

DRILL COLLAR LENGTH:	122.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1876.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	29.0 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:	2013.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2018.0 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 :	48.00 cp
WEIGHT	: 9.700 ppg	WATER LOSS:	12.800 cc
CHLORIDES	: 1200 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?	: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW, BOTTOM OF BUCKET IN 2 MINUTES. FINAL FLOW PERIOD VERY STRONG BLOW, GAS TO SURFACE IN 1 MINUTE. SEE FLOW CHART.