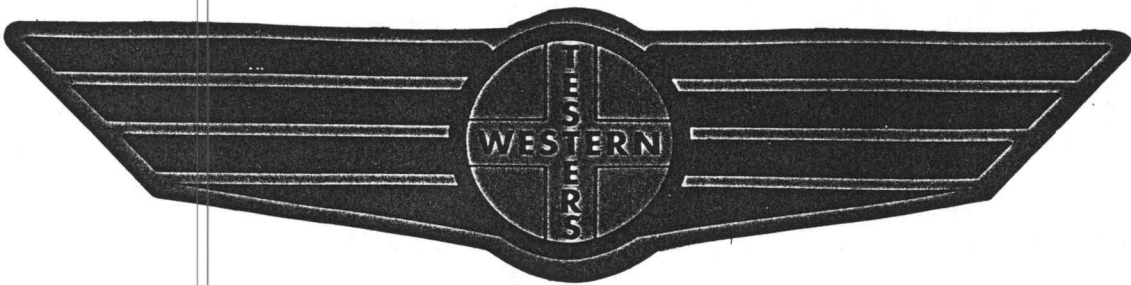


FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 9/30/92	TICKET : 18610
CUSTOMER : RANGE OIL COMPANY, INC.	LEASE : INMAN
WELL : 4 TEST: 1	GEOLOGIST: TIM LAUER
ELEVATION: 1119 KB	FORMATION: PERRY SAND
SECTION : 12	TOWNSHIP : 32S
RANGE : 9E	STATE : KS
GAUGE SN#: 10979	CLOCK : 12
COUNTY: CHAUTAUQUA	
RANGE : 4100	

WELL INFORMATION

PERFORATION INTERVAL FROM: 1055.00 ft	TO: 1072.00 ft	TVD: 1072.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 1066.0 ft	1069.0 ft	
TEMPERATURE: 84.0		
DRILL COLLAR LENGTH: 360.0 ft	I.D.: 2.250 in	
WEIGHT PIPE LENGTH : 0.0 ft	I.D.: 0.000 in	
DRILL PIPE LENGTH : 675.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 17.0 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: 1050.0 ft	SIZE: 6.630 in	
PACKER DEPTH: 1055.0 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. : EDCO RIG 1	
MUD TYPE : CHEMICAL	VISCOSITY : 51.00 cp
WEIGHT : 9.000 ppg	WATER LOSS: 10.400 cc
CHLORIDES : 800 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY STRONG BLOW, BOTTOM OF
BUCKET IN 1 MINUTE, GAS TO SURFACE IN 25 MINUTES.
SEE GAS FLOW REPORT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
190.0	65.0	10.0	0.0	25.0	MUDDY GASSY OIL
120.0	70.0	10.0	0.0	20.0	MUDDY GASSY OIL
40.0	100.0	0.0	0.0	0.0	GASSY OIL
20.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	650' OF GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	1.2763 STB		
GAS VOLUME:	0.9071 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.3744 STB	AVERAGE OIL RATE:	26.4105 STB/D
WATER VOLUME:	0.0983 STB	AVERAGE WATER RATE:	1.5736 STB/D
TOTAL FLUID :	1.7490 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 500.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	65.00	75.00
INITIAL SHUT-IN	30.00		315.00
FINAL FLOW	60.00	105.00	125.00
FINAL SHUT-IN	60.00		315.00

FINAL HYDROSTATIC PRESSURE: 490.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 526.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	60.00	84.00
INITIAL SHUT-IN	36.00		317.00
FINAL FLOW	60.00	115.00	139.00
FINAL SHUT-IN	66.00		316.00

FINAL HYDROSTATIC PRESSURE: 510.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/30/92	TICKET	: 18610
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: INMAN
WELL	: 4	GEOLOGIST	: TIM LAUER
ELEVATION	: 1119 KB	FORMATION	: PERRY SAND
SECTION	: 12	TOWNSHIP	: 32S
RANGE	: 9E	STATE	: KS
GAUGE SN#	: 10979	CLOCK	: 12
	COUNTY: CHAUTAUQUA		
	RANGE : 4100		
TEST	: 1		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	60.00	60.00
5.00	60.00	0.00
10.00	60.00	0.00
15.00	62.00	2.00
20.00	67.00	5.00
25.00	75.00	8.00
30.00	84.00	9.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	112.00	112.00	0.00
6.00	173.00	61.00	0.00
9.00	229.00	56.00	0.00
12.00	256.00	27.00	0.00
15.00	280.00	24.00	0.00
18.00	291.00	11.00	0.00
21.00	301.00	10.00	0.00
24.00	308.00	7.00	0.00
27.00	313.00	5.00	0.00
30.00	316.00	3.00	0.00
33.00	317.00	1.00	0.00
36.00	317.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	115.00	115.00
5.00	115.00	0.00
10.00	115.00	0.00
15.00	117.00	2.00
20.00	122.00	5.00
25.00	127.00	5.00
30.00	133.00	6.00
35.00	137.00	4.00
40.00	139.00	2.00
45.00	139.00	0.00
50.00	139.00	0.00
55.00	139.00	0.00
60.00	139.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	166.00	166.00	0.00
6.00	214.00	48.00	0.00
9.00	242.00	28.00	0.00
12.00	262.00	20.00	0.00
15.00	277.00	15.00	0.00
18.00	291.00	14.00	0.00
21.00	299.00	8.00	0.00
24.00	305.00	6.00	0.00
27.00	309.00	4.00	0.00
30.00	311.00	2.00	0.00
33.00	313.00	2.00	0.00
36.00	313.00	0.00	0.00
39.00	314.00	1.00	0.00
42.00	314.00	0.00	0.00
45.00	315.00	1.00	0.00
48.00	315.00	0.00	0.00
51.00	315.00	0.00	0.00
54.00	316.00	1.00	0.00
57.00	316.00	0.00	0.00
60.00	316.00	0.00	0.00
63.00	316.00	0.00	0.00
66.00	316.00	0.00	0.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE	: 9/30/92	TICKET	: 18610
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: INMAN
WELL	: 4	TEST:	1
ELEVATION:	1119 KB	GEOLOGIST:	TIM LAUER
SECTION	: 12	FORMATION:	PERRY SAND
RANGE	: 9E	TOWNSHIP	: 32S
GAUGE SN#:	10979	STATE	: KS
	COUNTY: CHAUTAUQUA	CLOCK	: 12
	RANGE : 4100		

PRE FLOW

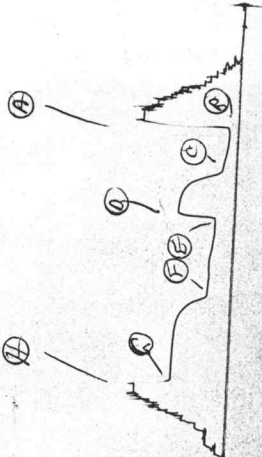
Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
---------------------	----------------	-----------------	----------	------------

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
25 MIN.	MERLA	0.000		GAS TO SURFACE
40 MIN.	MERLA	0.375	1" WATER	3560 SCF/D
50 MIN.	MERLA	0.375	2" WATER	5050 SCF/D
60 MIN.	MERLA	0.125	8" WATER	1500 SCF/D
70 MIN.	MERLA	0.125	36" WATER	3170 SCF/D
80 MIN.	MERLA	0.125	37" WATER	3200 SCF/D
90 MIN.	MERLA	0.125	45" WATER	3540 SCF/D

01987 FHC

7



1979

