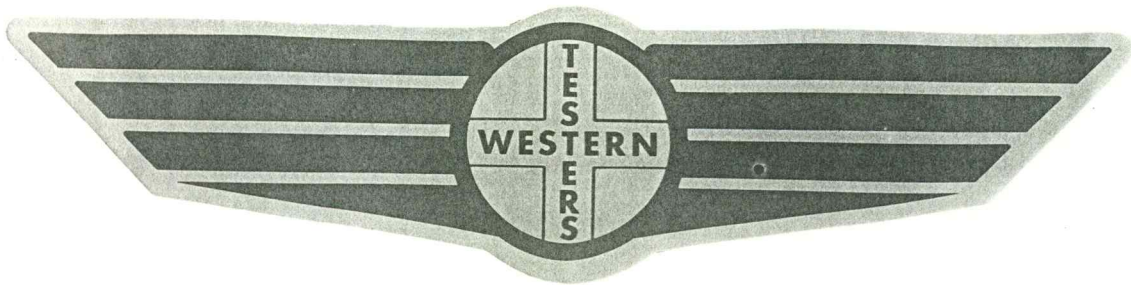


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone : 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 8/17/94
CUSTOMER : OXY USA, INC.
WELL : #199 TEST: 1
ELEVATION: 1376 KB
SECTION : 28
RANGE : 5E COUNTY: BUTLER
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20888
LEASE : HEGBERG A
GEOLOGIST: SCHROEDER
FORMATION: ADMIRE
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 583.00 ft TO: 650.00 ft TVD: 650.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 564.0 ft 586.0 ft
TEMPERATURE: 90.0
DRILL COLLAR LENGTH: 300.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 253.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 67.0 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: 576.0 ft SIZE: 6.630 in
PACKER DEPTH: 583.0 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. : ALLEN DRLG RIG 3
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp
WEIGHT : 9.000 ppg WATER LOSS: 0.000 cc
CHLORIDES : 0 ppm
JARS-MAKE : WTC SERIAL NUMBER: 12369
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 2 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET (12 INCHES) IN 6 MINUTES -

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

DECREASED TO 1/4 INCH BY END.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	0.0	5.0	95.0	DRLG MUD SL WATER CUT
120.0	0.0	0.0	50.0	50.0	MUDDY WATER

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:	0.6840 STB	AVERAGE WATER RATE:	23.6948 STB/D
WATER VOLUME:	0.3032 STB		
TOTAL FLUID :	0.9873 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 233.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	55.00	64.00
INITIAL SHUT-IN	30.00		93.00
FINAL FLOW	45.00	82.00	87.00
FINAL SHUT-IN	90.00		90.00

FINAL HYDROSTATIC PRESSURE: 210.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 229.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	78.00	68.00
INITIAL SHUT-IN	30.00		93.00
FINAL FLOW	45.00	87.00	87.00
FINAL SHUT-IN	90.00		95.00

FINAL HYDROSTATIC PRESSURE: 227.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/17/94	TICKET : 20888
CUSTOMER : OXY USA, INC.	LEASE : HEGBERG A
WELL : #199	TEST: 1
ELEVATION: 1376 KB	GEOLOGIST: SCHROEDER
SECTION : 28	FORMATION: ADMIRE
RANGE : 5E	TOWNSHIP : 25S
COUNTY: BUTLER	STATE : KS
GAUGE SN#: 11018	RANGE : 4425
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	78.00	78.00
5.00	69.00	-9.00
10.00	64.00	-5.00
15.00	68.00	4.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	73.00	73.00	0.00
6.00	78.00	5.00	0.00
9.00	82.00	4.00	0.00
12.00	84.00	2.00	0.00
15.00	86.00	2.00	0.00
18.00	88.00	2.00	0.00
21.00	90.00	2.00	0.00
24.00	91.00	1.00	0.00
27.00	92.00	1.00	0.00
30.00	93.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	87.00	87.00
5.00	84.00	-3.00
10.00	83.00	-1.00
15.00	83.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	84.00	1.00
25.00	84.00	0.00
30.00	85.00	1.00
35.00	85.00	0.00
40.00	86.00	1.00
45.00	87.00	1.00

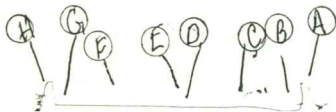
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	87.00	87.00	0.00
6.00	87.00	0.00	0.00
9.00	88.00	1.00	0.00
12.00	88.00	0.00	0.00
15.00	88.00	0.00	0.00
18.00	89.00	1.00	0.00
21.00	89.00	0.00	0.00
24.00	89.00	0.00	0.00
27.00	90.00	1.00	0.00
30.00	90.00	0.00	0.00
33.00	90.00	0.00	0.00
36.00	91.00	1.00	0.00
39.00	91.00	0.00	0.00
42.00	91.00	0.00	0.00
45.00	92.00	1.00	0.00
48.00	92.00	0.00	0.00
51.00	92.00	0.00	0.00
54.00	92.00	0.00	0.00
57.00	93.00	1.00	0.00
60.00	93.00	0.00	0.00
63.00	93.00	0.00	0.00
66.00	93.00	0.00	0.00
69.00	94.00	1.00	0.00
72.00	94.00	0.00	0.00
75.00	94.00	0.00	0.00
78.00	94.00	0.00	0.00
81.00	95.00	1.00	0.00
84.00	95.00	0.00	0.00
87.00	95.00	0.00	0.00
90.00	95.00	0.00	0.00

DST 725 R8C 711012

TR 20888

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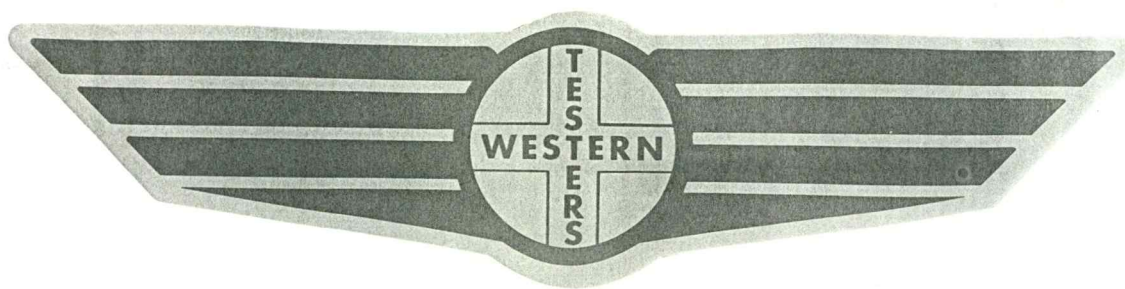
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 8/20/94
CUSTOMER : OXY USA, INC.
WELL : #199 TEST: 2
ELEVATION: 1376 KB
SECTION : 28
RANGE : 5E COUNTY: BUTLER
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20889
LEASE : HEGBERG A
GEOLOGIST: SCHROEDER
FORMATION: VIOLA
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2422.00 ft TO: 2448.00 ft TVD: 2456.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2425.0 ft 2440.0 ft
TEMPERATURE: 98.0
DRILL COLLAR LENGTH: 240.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 2156.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 26.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 26.0 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: 2417.0 ft SIZE: 6.630 in
PACKER DEPTH: 2422.0 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. : ALLEN DRLG RIG 3
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 9.000 cc
CHLORIDES : 0 ppm
JARS-MAKE : WTC SERIAL NUMBER: 12369
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DEAD IN 12
MINUTES. FINAL FLOW PERIOD NO BLOW.

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:	45.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0047	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0047	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1174.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	24.00	24.00
INITIAL SHUT-IN	30.00		462.00
FINAL FLOW	30.00	27.00	27.00
FINAL SHUT-IN	60.00		595.00

FINAL HYDROSTATIC PRESSURE: 1150.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1187.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	58.00	34.00
INITIAL SHUT-IN	24.00		476.00
FINAL FLOW	30.00	53.00	36.00
FINAL SHUT-IN	60.00		606.00

FINAL HYDROSTATIC PRESSURE: 1181.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/20/94	TICKET : 20889
CUSTOMER : OXY USA, INC.	LEASE : HEGBERG A
WELL : #199 TEST: 2	GEOLOGIST: SCHROEDER
ELEVATION: 1376 KB	FORMATION: VIOLA
SECTION : 28	TOWNSHIP : 25S
RANGE : 5E COUNTY: BUTLER	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	58.00	58.00
5.00	38.00	-20.00
10.00	34.00	-4.00
15.00	34.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	49.00	49.00	0.00
6.00	118.00	69.00	0.00
9.00	209.00	91.00	0.00
12.00	276.00	67.00	0.00
15.00	349.00	73.00	0.00
18.00	393.00	44.00	0.00
21.00	440.00	47.00	0.00
24.00	476.00	36.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	53.00	53.00
5.00	38.00	-15.00
10.00	38.00	0.00
15.00	37.00	-1.00
20.00	37.00	0.00
25.00	36.00	-1.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
30.00	36.00	0.00

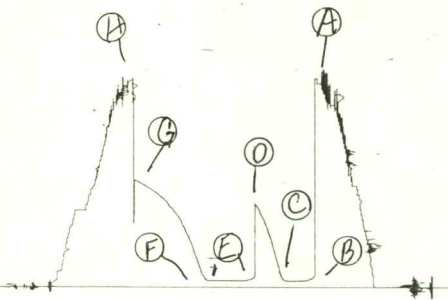
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	36.00	36.00	0.00
6.00	56.00	20.00	0.00
9.00	96.00	40.00	0.00
12.00	164.00	68.00	0.00
15.00	224.00	60.00	0.00
18.00	284.00	60.00	0.00
21.00	333.00	49.00	0.00
24.00	378.00	45.00	0.00
27.00	416.00	38.00	0.00
30.00	444.00	28.00	0.00
33.00	473.00	29.00	0.00
36.00	500.00	27.00	0.00
39.00	520.00	20.00	0.00
42.00	538.00	18.00	0.00
45.00	553.00	15.00	0.00
48.00	566.00	13.00	0.00
51.00	584.00	18.00	0.00
54.00	592.00	8.00	0.00
57.00	602.00	10.00	0.00
60.00	606.00	4.00	0.00

VST #2 REC#11018

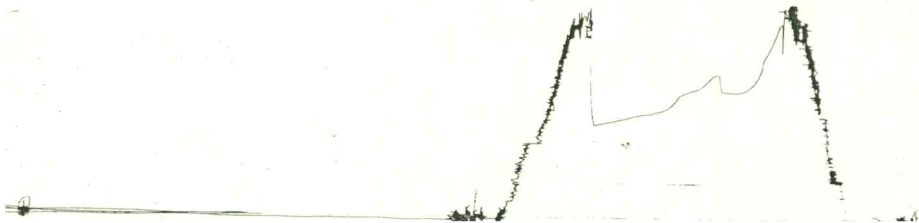
TK# 20889

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DST#2 REC#6234

TK#20889
Below Straddle



1950-11-10

TRT# 20889
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