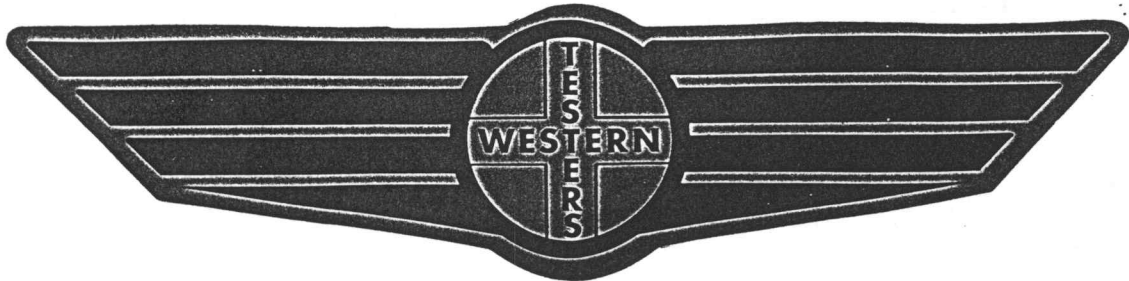


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY CMX, INC.

LEASE & WELL NO. #1 SMITH

SEC. 8

TWP. 25S RGE. 9W

TEST NO. 1

DATE 8/31/93

*C N/E - N/E*

DST REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET : 18919
CUSTOMER : CMX, INC.	LEASE : SMITH
WELL : #1-8	GEOLOGIST: DOUGLAS H. MCGINNESS
ELEVATION: 1701 G.L.	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 25S
RANGE : 9W	COUNTY: RENO
GAUGE SN#: 13265	RANGE : 3975
	STATE : KS
	CLOCK : 12
	TEST: 1

WELL INFORMATION

PERFORATION INTERVAL FROM: 3857.00 ft	TO: 3885.00 ft	TVD: 3885.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 3872.0 ft	3875.0 ft	
TEMPERATURE: 117.0		
DRILL COLLAR LENGTH: 426.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3403.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 28.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.780 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 3852.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3857.0 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. : STERLING DRLG. #2	VISCOSITY : 60.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.000 cc
WEIGHT : 8.900 ppg	
CHLORIDES : 6000 ppm	
JARS-MAKE : NO	SERIAL NUMBER: NO
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

WEAK BLOW BUILDING FROM FAIR TO GOOD 6" TO 7"  
ON INITIAL FLOW PERIOD. GOOD BLOW BUILDING TO  
STRONG BLOW IN 20 MINUTES ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment \_\_\_\_\_

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	1.0	5.0	0.0	94.0	GAS & OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	428' GAS ABOVE FUIILD

RATE INFORMATION

OIL VOLUME:	0.0030 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0828 SCF	AVERAGE OIL RATE:	5.3817 STB/D
MUD VOLUME:	0.2773 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.2803 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1949.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.00	30.00
INITIAL SHUT-IN	45.00		151.00
FINAL FLOW	45.00	50.00	50.00
FINAL SHUT-IN	60.00		231.00

FINAL HYDROSTATIC PRESSURE: 1929.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1923.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	49.00	49.00
INITIAL SHUT-IN	45.00		161.00
FINAL FLOW	45.00	58.00	58.00
FINAL SHUT-IN	63.00		235.00

FINAL HYDROSTATIC PRESSURE: 1917.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET : 18919
CUSTOMER : CMX, INC.	LEASE : SMITH
WELL : #1-8	GEOLOGIST: DOUGLAS H. MCGINNESS
ELEVATION: 1701 G.L.	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 25S
RANGE : 9W	STATE : KS
GAUGE SN#: 13265	CLOCK : 12
TEST: 1	
COUNTY: RENO	
RANGE : 3975	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	49.00	49.00
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

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	51.00	51.00	0.00
6.00	53.00	2.00	0.00
9.00	58.00	5.00	0.00
12.00	65.00	7.00	0.00
15.00	75.00	10.00	0.00
18.00	85.00	10.00	0.00
21.00	94.00	9.00	0.00
24.00	101.00	7.00	0.00
27.00	111.00	10.00	0.00
30.00	118.00	7.00	0.00
33.00	125.00	7.00	0.00
36.00	132.00	7.00	0.00
39.00	139.00	7.00	0.00
42.00	149.00	10.00	0.00
45.00	161.00	12.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	58.00	58.00
5.00	58.00	0.00
10.00	58.00	0.00
15.00	58.00	0.00
20.00	58.00	0.00
25.00	58.00	0.00
30.00	58.00	0.00
35.00	58.00	0.00
40.00	58.00	0.00
45.00	58.00	0.00

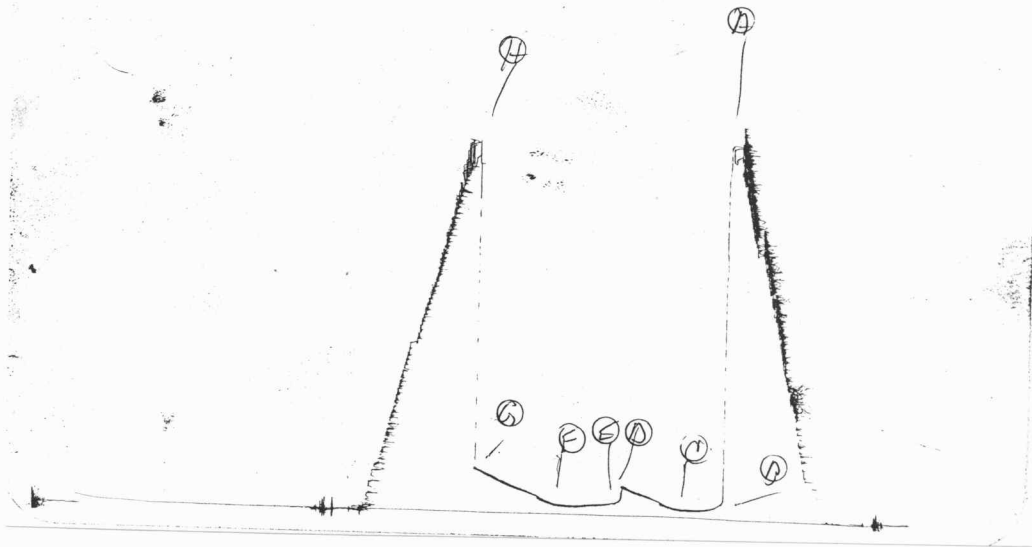
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	60.00	60.00	0.00
6.00	68.00	8.00	0.00
9.00	76.00	8.00	0.00
12.00	83.00	7.00	0.00
15.00	95.00	12.00	0.00
18.00	104.00	9.00	0.00
21.00	115.00	11.00	0.00
24.00	123.00	8.00	0.00
27.00	129.00	6.00	0.00
30.00	136.00	7.00	0.00
33.00	146.00	10.00	0.00
36.00	154.00	8.00	0.00
39.00	161.00	7.00	0.00
42.00	172.00	11.00	0.00
45.00	179.00	7.00	0.00
48.00	192.00	13.00	0.00
51.00	196.00	4.00	0.00
54.00	207.00	11.00	0.00
57.00	219.00	12.00	0.00
60.00	226.00	7.00	0.00
63.00	235.00	9.00	0.00

13265 DST#1

KT 18919

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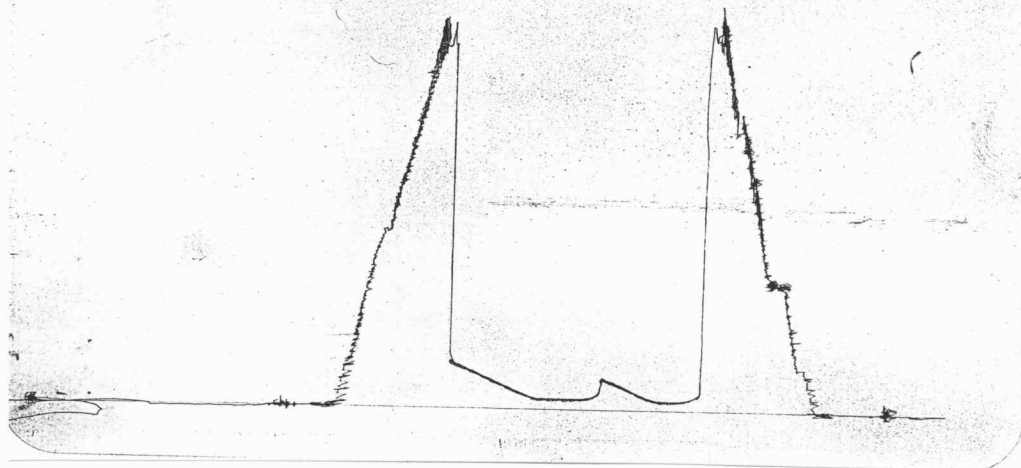


Inside Recorder

13275 DST#1

KT 18919

O



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY CMX, INC.

LEASE & WELL NO.

#1 SMITH

SEC.

8

TWP.

25S

RGE.

9W

TEST NO.

2

DATE

8/31/93

*2 NE-NE*

DST REPORT

GENERAL INFORMATION

DATE : 8-31-93  
CUSTOMER : CMX, INC.  
WELL : #1-8 TEST: 2  
ELEVATION: 1701 G.L.  
SECTION : 8  
RANGE : 9W COUNTY: RENO  
GAUGE SN#: 13265 RANGE : 3975  
TICKET : 18920  
LEASE : SMITH  
GEOLOGIST: DOUGLAS H. MCGINNESS  
FORMATION: MISSISSIPPI  
TOWNSHIP : 25S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3886.00 ft TO: 3921.00 ft TVD: 3921.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS  
DEPTH OF RECORDERS: 3907.0 ft 3910.0 ft  
TEMPERATURE: 124.0  
DRILL COLLAR LENGTH: 226.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3640.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 35.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.780 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 3881.0 ft SIZE: 6.630 in  
PACKER DEPTH: 3886.0 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. : STERLING DRLG. #2  
MUD TYPE : CHEMICAL VISCOSITY : 62.00 cp  
WEIGHT : 9.000 ppg WATER LOSS: 8.000 cc  
CHLORIDES : 6000 ppm  
JARS-MAKE : NO SERIAL NUMBER: NO  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

WEAK TO STRONG BLOW IN 15 MINUTES ON INITIAL FLOW PERIODS. STRONG BLOW ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

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FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
	Oil	Gas	Water	Mud	
90.0	5.0	10.0	35.0	50.0	SLI. GAS & OIL C/WTRY MUD WATER CHLORIDES 78000 PPM 180' GAS ABOVE FLUID.
456.0	0.0	0.0	100.0	0.0	
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0631 STB	TOTAL FLOW TIME:	85.0000 min.
GAS VOLUME:	0.7088 SCF	AVERAGE OIL RATE:	2.4059 STB/D
MUD VOLUME:	0.6312 STB	AVERAGE WATER RATE:	90.3224 STB/D
WATER VOLUME:	4.7792 STB		
TOTAL FLUID :	5.4735 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2000.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	100.00	131.00
INITIAL SHUT-IN	45.00		1396.00
FINAL FLOW	60.00	201.00	282.00
FINAL SHUT-IN	90.00		1396.00

FINAL HYDROSTATIC PRESSURE: 2000.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2001.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	25.00	108.00	139.00
INITIAL SHUT-IN	45.00		1404.00
FINAL FLOW	60.00	211.00	286.00
FINAL SHUT-IN	96.00		1410.00
FINAL HYDROSTATIC PRESSURE:	1989.00		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET : 18920
CUSTOMER : CMX, INC.	LEASE : SMITH
WELL : #1-8	TEST: 2
ELEVATION: 1701 G.L.	GEOLOGIST: DOUGLAS H. MCGINNESS
SECTION : 8	FORMATION: MISSISSIPPI
RANGE : 9W	TOWNSHIP : 25S
COUNTY: RENO	STATE : KS
GAUGE SN#: 13265	RANGE : 3975
	CLOCK : 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	108.00	108.00
5.00	108.00	0.00
10.00	108.00	0.00
15.00	115.00	7.00
20.00	126.00	11.00
25.00	139.00	13.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	248.00	248.00	0.00
6.00	918.00	670.00	0.00
9.00	1219.00	301.00	0.00
12.00	1279.00	60.00	0.00
15.00	1315.00	36.00	0.00
18.00	1335.00	20.00	0.00
21.00	1354.00	19.00	0.00
24.00	1362.00	8.00	0.00
27.00	1374.00	12.00	0.00
30.00	1382.00	8.00	0.00
33.00	1389.00	7.00	0.00
36.00	1394.00	5.00	0.00
39.00	1398.00	4.00	0.00
42.00	1401.00	3.00	0.00
45.00	1404.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	211.00	211.00
5.00	211.00	0.00
10.00	211.00	0.00
15.00	221.00	10.00
20.00	231.00	10.00
25.00	242.00	11.00
30.00	253.00	11.00
35.00	260.00	7.00
40.00	265.00	5.00
45.00	274.00	9.00
50.00	278.00	4.00
55.00	282.00	4.00
60.00	286.00	4.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	367.00	367.00	0.00
6.00	847.00	480.00	0.00
9.00	1181.00	334.00	0.00
12.00	1241.00	60.00	0.00
15.00	1280.00	39.00	0.00
18.00	1307.00	27.00	0.00
21.00	1318.00	11.00	0.00
24.00	1323.00	5.00	0.00
27.00	1336.00	13.00	0.00
30.00	1345.00	9.00	0.00
33.00	1354.00	9.00	0.00
36.00	1360.00	6.00	0.00
39.00	1366.00	6.00	0.00
42.00	1371.00	5.00	0.00
45.00	1375.00	4.00	0.00
48.00	1381.00	6.00	0.00
51.00	1386.00	5.00	0.00
54.00	1388.00	2.00	0.00
57.00	1391.00	3.00	0.00
60.00	1395.00	4.00	0.00
63.00	1398.00	3.00	0.00
66.00	1401.00	3.00	0.00
69.00	1403.00	2.00	0.00
72.00	1405.00	2.00	0.00
75.00	1407.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

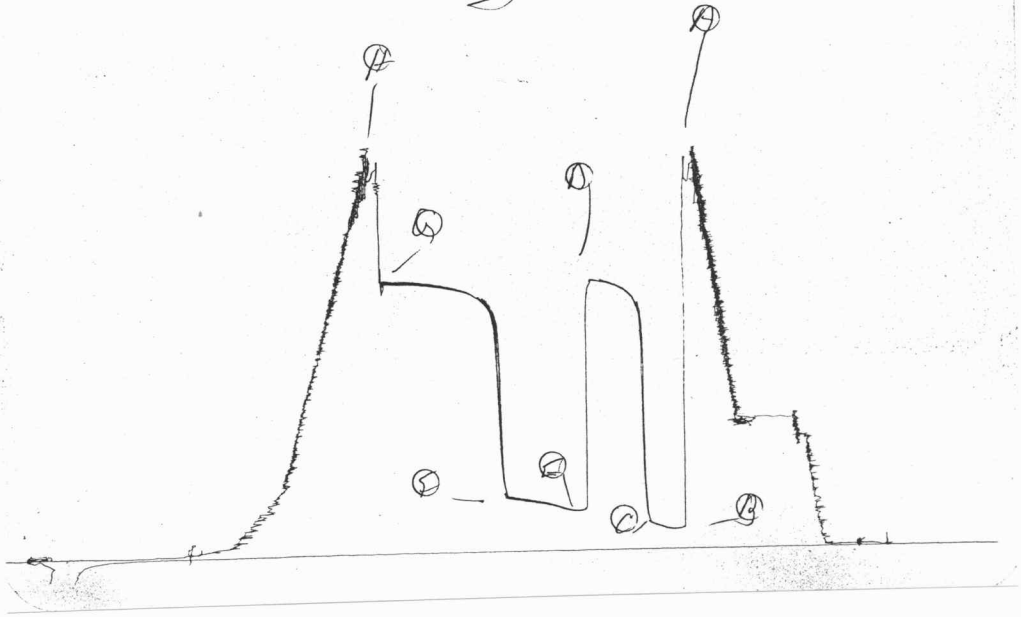
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
78.00	1408.00	1.00	0.00
81.00	1409.00	1.00	0.00
84.00	1409.00	0.00	0.00
87.00	1410.00	1.00	0.00
90.00	1410.00	0.00	0.00
93.00	1410.00	0.00	0.00
96.00	1410.00	0.00	0.00

13265 DST#2

X

KT 18920

Z



Inside Recorder

13759 DST#2

KT 18920

O



Outside Recorder