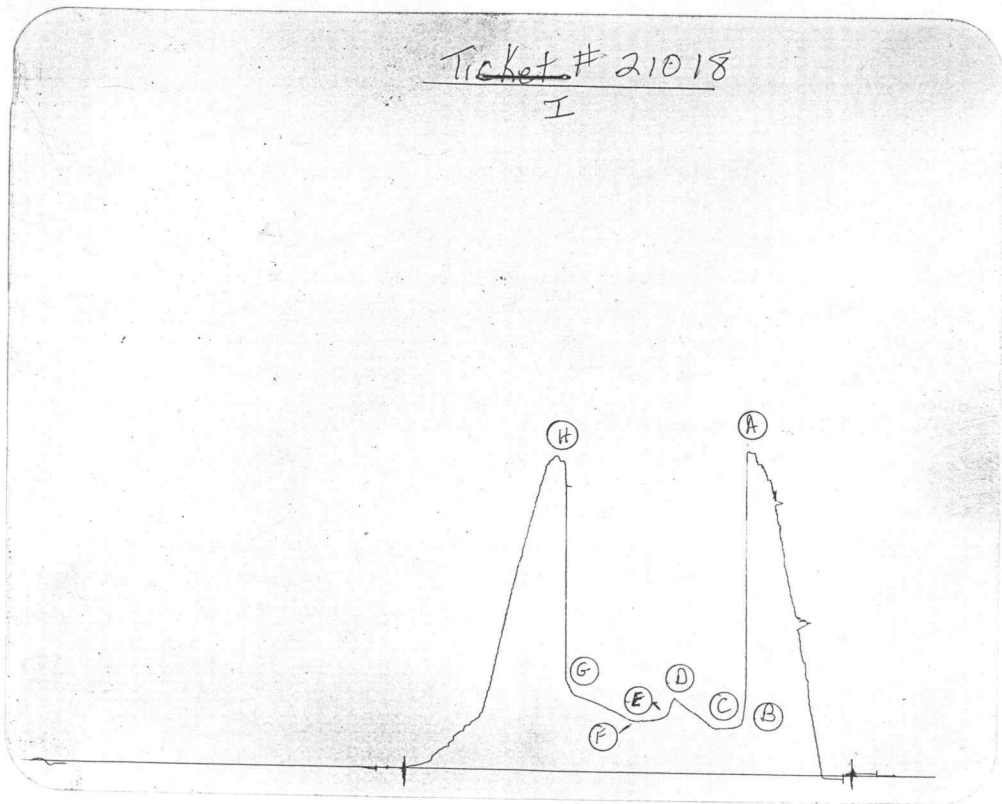
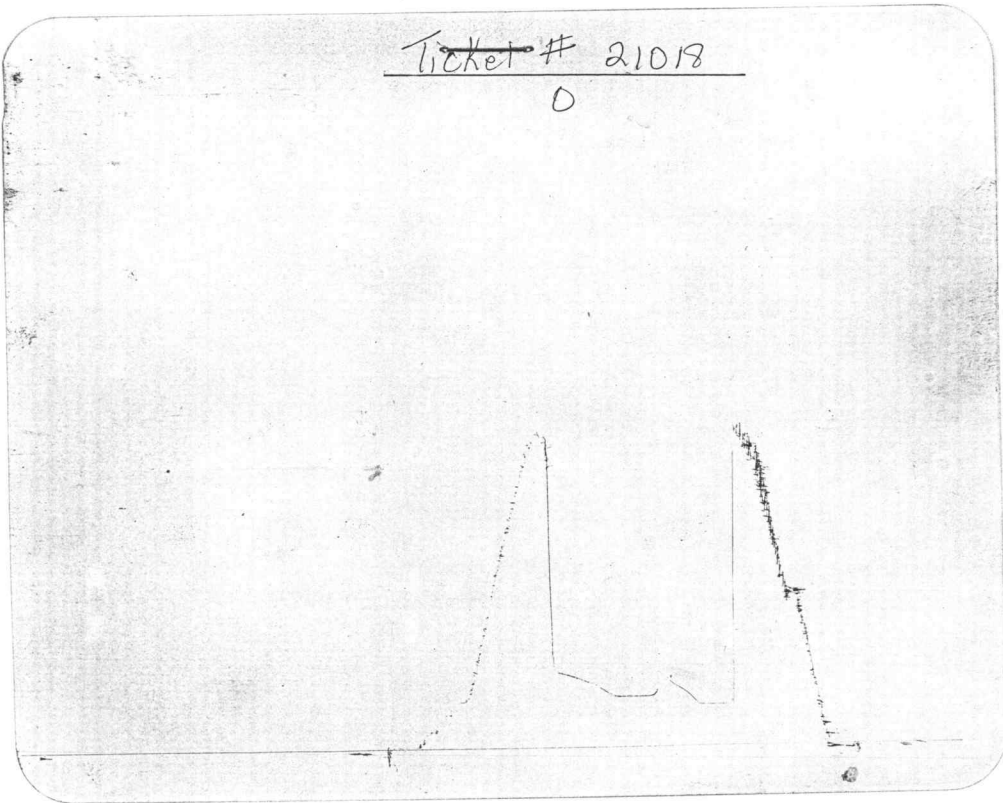


Ticket # 21018
I



Inside Recorder

Ticket # 21018
O



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 8-5-95	TICKET : 21018
CUSTOMER : LIBOC, INC.	LEASE : FOX
WELL : #1-32 TEST: 1	GEOLOGIST: FURST
ELEVATION: 2013 GL	FORMATION: ARBUCKLE
SECTION : 32	TOWNSHIP : 20S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3704.00 ft	TO: 3830.00 ft	TVD: 3830.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 3797.0 ft	3800.0 ft	
TEMPERATURE: 116.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.: 0.000 in
DRILL PIPE LENGTH : 3684.0 ft	I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE : 5.500 in
ANCHOR LENGTH : 126.0 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: 3699.0 ft	SIZE: 6.630 in
PACKER DEPTH: 3704.0 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 DRILLING #1	
MUD TYPE : CHEMICAL	VISCOSITY : 45.00 cp
WEIGHT : 9.600 ppg	WATER LOSS: 10.000 cc
CHLORIDES : 4500 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW IN 1 MINUTE. GAS TO SURFACE IN 15 MINUTES. SEE ATTACHED SHEET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
480.0	0.0	15.0	0.0	85.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	
GAS VOLUME:	5.6706	SCF	
MUD VOLUME:	5.7228	STB	
WATER VOLUME:	0.0000	STB	
TOTAL FLUID :	5.7228	STB	
			TOTAL FLOW TIME: 50.0000 min.
			AVERAGE OIL RATE: 0.0000 STB/D
			AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1813.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	213.00	213.00
INITIAL SHUT-IN	30.00		430.00
FINAL FLOW	30.00	268.00	268.00
FINAL SHUT-IN	45.00		430.00

FINAL HYDROSTATIC PRESSURE: 1813.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1834.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	303.00	261.00
INITIAL SHUT-IN	33.00		432.00
FINAL FLOW	30.00	331.00	299.00
FINAL SHUT-IN	51.00		527.00

FINAL HYDROSTATIC PRESSURE: 1798.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 8-5-95	TICKET : 21018
CUSTOMER : LIBOC, INC.	LEASE : FOX
WELL : #1-32 TEST: 1	GEOLOGIST: FURST
ELEVATION: 2013 GL	FORMATION: ARBUCKLE
SECTION : 32	TOWNSHIP : 20S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
30 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
20 MIN	MERLA	0.500	3" OF WATER	10900 SCF/D
30 MIN	MERLA	0.500	2" OF WATER	8870 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-5-95	TICKET : 21018
CUSTOMER : LIBOC, INC.	LEASE : FOX
WELL : #1-32	TEST: 1
ELEVATION: 2013 GL	GEOLOGIST: FURST
SECTION : 32	FORMATION: ARBUCKLE
RANGE : 16W	TOWNSHIP : 20S
COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051	RANGE : 4250
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	303.00	303.00
5.00	272.00	-31.00
10.00	264.00	-8.00
15.00	262.00	-2.00
20.00	261.00	-1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	270.00	270.00	7.67
6.00	290.00	20.00	4.33
9.00	308.00	18.00	3.22
12.00	326.00	18.00	2.67
15.00	341.00	15.00	2.33
18.00	355.00	14.00	2.11
21.00	370.00	15.00	1.95
24.00	387.00	17.00	1.83
27.00	403.00	16.00	1.74
30.00	423.00	20.00	1.67
33.00	432.00	9.00	1.61

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	331.00	331.00
5.00	320.00	-11.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
10.00	308.00	-12.00
15.00	302.00	-6.00
20.00	299.00	-3.00
25.00	299.00	0.00
30.00	299.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	311.00	311.00	11.00
6.00	326.00	15.00	6.00
9.00	336.00	10.00	4.33
12.00	348.00	12.00	3.50
15.00	359.00	11.00	3.00
18.00	369.00	10.00	2.67
21.00	380.00	11.00	2.43
24.00	382.00	2.00	2.25
27.00	400.00	18.00	2.11
30.00	408.00	8.00	2.00
33.00	415.00	7.00	1.91
36.00	426.00	11.00	1.83
39.00	431.00	5.00	1.77
42.00	441.00	10.00	1.71
45.00	461.00	20.00	1.67
48.00	506.00	45.00	1.63
51.00	527.00	21.00	1.59

1057 DST#2

Ticket # 21019
I



Inside Recorder

1566 DST#2

Ticket # 21019
O



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 8-5-95	TICKET : 21019
CUSTOMER : LIBOC, INC.	LEASE : FOX
WELL : #1-32 TEST: 2	GEOLOGIST: FURST
ELEVATION: 2013 GL	FORMATION: ARBUCKLE
SECTION : 32	TOWNSHIP : 20S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3831.00 ft	TO: 3842.00 ft	TVD: 3842.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 3835.0 ft	3838.0 ft	
TEMPERATURE: 122.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3811.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 11.0 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: 3826.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3831.0 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 DRILLING #1	VISCOSITY : 44.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.400 cc
WEIGHT : 9.500 ppg	
CHLORIDES : 6700 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW IN 7 MINUTES.
FINAL FLOW PERIOD-STRONG BLOW. NO GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
0.0	0.0	0.0	0.0	0.0	150FT GAS ABOVE FLUID
210.0	0.0	0.0	70.0	30.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 39,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	55.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.8837	STB	AVERAGE WATER RATE:	77.1195	STB/D
WATER VOLUME:	2.0619	STB			
TOTAL FLUID :	2.9455	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1939.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	86.00	86.00
INITIAL SHUT-IN	30.00		754.00
FINAL FLOW	30.00	129.00	129.00
FINAL SHUT-IN	45.00		808.00

FINAL HYDROSTATIC PRESSURE: 1884.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1942.00

Description	Duration	p1	p End
INITIAL FLOW	25.00	107.00	97.00
INITIAL SHUT-IN	33.00		785.00
FINAL FLOW	30.00	150.00	137.00
FINAL SHUT-IN	45.00		729.00

FINAL HYDROSTATIC PRESSURE: 1881.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-5-95	TICKET : 21019
CUSTOMER : LIBOC, INC.	LEASE : FOX
WELL : #1-32 TEST: 2	GEOLOGIST: FURST
ELEVATION: 2013 GL	FORMATION: ARBUCKLE
SECTION : 32	TOWNSHIP : 20S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	107.00	107.00
5.00	101.00	-6.00
10.00	97.00	-4.00
15.00	97.00	0.00
20.00	97.00	0.00
25.00	97.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	150.00	150.00	0.00
6.00	378.00	228.00	0.00
9.00	491.00	113.00	0.00
12.00	556.00	65.00	0.00
15.00	595.00	39.00	0.00
18.00	630.00	35.00	0.00
21.00	664.00	34.00	0.00
24.00	698.00	34.00	0.00
27.00	736.00	38.00	0.00
30.00	762.00	26.00	0.00
33.00	785.00	23.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	150.00	150.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	141.00	-9.00
10.00	137.00	-4.00
15.00	137.00	0.00
20.00	137.00	0.00
25.00	137.00	0.00
30.00	137.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	175.00	175.00	0.00
6.00	307.00	132.00	0.00
9.00	421.00	114.00	0.00
12.00	482.00	61.00	0.00
15.00	513.00	31.00	0.00
18.00	564.00	51.00	0.00
21.00	590.00	26.00	0.00
24.00	638.00	48.00	0.00
27.00	660.00	22.00	0.00
30.00	678.00	18.00	0.00
33.00	701.00	23.00	0.00
36.00	726.00	25.00	0.00
39.00	745.00	19.00	0.00
42.00	777.00	32.00	0.00
45.00	729.00	-48.00	0.00