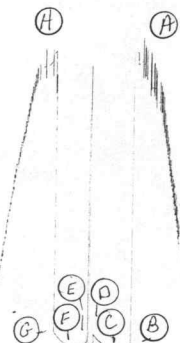


Ticket # ~~21119~~
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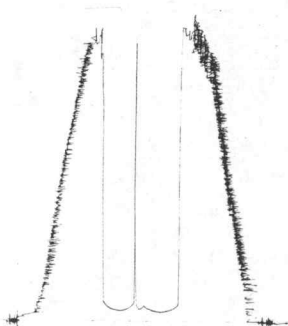
OST #1
10270



Inside Recorder

Ticket # ~~21119~~
O

OST #1
13550



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 10-29-95	TICKET	: 21119
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 1	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: LANSING
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	STATE	: KS
GAUGE SN#	: 10270	CLOCK	: 12
COUNTY	: RUSH		
RANGE	: 4150		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3290.00 ft	TO:	3347.00 ft	TVD:	3347.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3339.0 ft		3342.0 ft		
TEMPERATURE:	102.0				
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 :	3270.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	57.0 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:	3285.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	3290.0 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. :	DUKE DRILLING #4	VISCOSITY :	52.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	6.800 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	6500 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-NO BLOW. FINAL FLOW PERIOD-4
OR 5 BUBBLES, DIED. FLUSHED TOOL GOT SURGE,
REMAINED DEAD THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.2104	STB	TOTAL FLOW TIME:	30.0000 min.
WATER VOLUME:	0.0000	STB	AVERAGE OIL RATE:	0.0000 STB/D
TOTAL FLUID :	0.2104	STB	AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1672.00

Description	Duration	p1	p End
INITIAL FLOW	15.00		
INITIAL SHUT-IN	15.00	31.00	31.00
FINAL FLOW	15.00		114.00
FINAL SHUT-IN	15.00	31.00	41.00
			114.00

FINAL HYDROSTATIC PRESSURE: 1641.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1687.00

Description	Duration	p1	p End
INITIAL FLOW	15.00		
INITIAL SHUT-IN	15.00	68.00	49.00
FINAL FLOW	15.00		120.00
FINAL SHUT-IN	15.00	62.00	51.00
			131.00

FINAL HYDROSTATIC PRESSURE: 1668.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-29-95	TICKET : 21119	
CUSTOMER : LIBOC, INC.	LEASE : WERTH	
WELL : #1-24	TEST: 1	GEOLOGIST: ?
ELEVATION: 2045 KB		FORMATION: LANSING
SECTION : 24		TOWNSHIP : 16
RANGE : 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	68.00	68.00
5.00	59.00	-9.00
10.00	49.00	-10.00
15.00	49.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	51.00	51.00	0.00
6.00	60.00	9.00	0.00
9.00	78.00	18.00	0.00
12.00	100.00	22.00	0.00
15.00	120.00	20.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	62.00	62.00
5.00	72.00	10.00
10.00	56.00	-16.00
15.00	51.00	-5.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	52.00	52.00	0.00
6.00	57.00	5.00	0.00
9.00	71.00	14.00	0.00
12.00	92.00	21.00	0.00
15.00	131.00	39.00	0.00

DST REPORT

GENERAL INFORMATION

DATE	: 10-29-95	TICKET	: 21120
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 2	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: LANSING "D-F"
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	STATE	: KS
GAUGE SN#	: 10270	RANGE	: 4150
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3350.00 ft	TO:	3384.00 ft	TVD:	3384.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3353.0 ft		3356.0 ft		
TEMPERATURE:	102.0				
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 :	3330.0 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:	3345.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3350.0 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. :	DUKE DRILLING #4	VISCOSITY :	54.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	6000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	YES		

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW. GAS TO SURFACE IN
10 MINUTES. FINAL FLOW PERIOD-GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
35.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.4909	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.4909	STB		
			TOTAL FLOW TIME:	75.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1641.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	31.00
INITIAL SHUT-IN	30.00		1029.00
FINAL FLOW	45.00	52.00	31.00
FINAL SHUT-IN	45.00		966.00

FINAL HYDROSTATIC PRESSURE: 1641.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1682.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	76.00	39.00
INITIAL SHUT-IN	27.00		1041.00
FINAL FLOW	45.00	76.00	39.00
FINAL SHUT-IN	45.00		976.00

FINAL HYDROSTATIC PRESSURE: 1649.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 10-29-95	TICKET : 21120
CUSTOMER : LIBOC, INC.	LEASE : WERTH
WELL : #1-24 TEST: 2	GEOLOGIST: ?
ELEVATION: 2045 KB	FORMATION: LANSING "D-F"
SECTION : 24	TOWNSHIP : 16
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
12 MIN	MERLA	0.500	24" OF WATER	30700 SCF/D
20 MIN	MERLA	0.750	14" OF WATER	53300 SCF/D
30 MIN	MERLA	0.750	10" OF WATER	44800 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	0.750	8" OF WATER	40000 SCF/D
15 MIN	MERLA	0.750	5" OF WATER	31600 SCF/D
25 MIN	MERLA	0.750	5" OF WATER	31600 SCF/D
35 MIN	MERLA	0.750	5" OF WATER	31600 SCF/D
45 MIN	MERLA	0.750	5" OF WATER	31600 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-29-95	TICKET : 21120	
CUSTOMER : LIBOC, INC.	LEASE : WERTH	
WELL : #1-24	TEST: 2	GEOLOGIST: ?
ELEVATION: 2045 KB		FORMATION: LANSING "D-F"
SECTION : 24		TOWNSHIP : 16
RANGE : 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	76.00	76.00
5.00	56.00	-20.00
10.00	47.00	-9.00
15.00	42.00	-5.00
20.00	39.00	-3.00
25.00	39.00	0.00
30.00	39.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	786.00	786.00	11.00
6.00	904.00	118.00	6.00
9.00	964.00	60.00	4.33
12.00	990.00	26.00	3.50
15.00	1005.00	15.00	3.00
18.00	1016.00	11.00	2.67
21.00	1029.00	13.00	2.43
24.00	1034.00	5.00	2.25
27.00	1041.00	7.00	2.11

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	76.00	76.00
5.00	55.00	-21.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
10.00	46.00	-9.00
15.00	42.00	-4.00
20.00	42.00	0.00
25.00	41.00	-1.00
30.00	41.00	0.00
35.00	39.00	-2.00
40.00	39.00	0.00
45.00	39.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	636.00	636.00	16.00
6.00	780.00	144.00	8.50
9.00	843.00	63.00	6.00
12.00	876.00	33.00	4.75
15.00	898.00	22.00	4.00
18.00	912.00	14.00	3.50
21.00	924.00	12.00	3.14
24.00	934.00	10.00	2.88
27.00	946.00	12.00	2.67
30.00	953.00	7.00	2.50
33.00	957.00	4.00	2.36
36.00	963.00	6.00	2.25
39.00	968.00	5.00	2.15
42.00	975.00	7.00	2.07
45.00	976.00	1.00	2.00

DST REPORT

GENERAL INFORMATION

DATE	: 10-30-95	TICKET	: 21121
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 3	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: LANSING "H-K"
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3440.00 ft	TO:	3530.00 ft	TVD:	3530.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3444.0 ft		3447.0 ft		
TEMPERATURE:	104.0				
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 :	3420.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	90.0 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:	3435.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3440.0 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. :	DUKE DRILLING #4	VISCOSITY :	50.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	4500 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-VERY WEAK BLOW, DIED IN 25
MINUTES. FINAL FLOW PERIOD-NO BLOW, FLUSHED TOOL.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	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:	0.1403	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1403	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1713.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	15.00		20.00
FINAL FLOW	15.00	20.00	31.00
FINAL SHUT-IN	15.00		31.00

FINAL HYDROSTATIC PRESSURE: 1713.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1775.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	43.00	22.00
INITIAL SHUT-IN	15.00		25.00
FINAL FLOW	15.00	25.00	32.00
FINAL SHUT-IN	12.00		30.00

FINAL HYDROSTATIC PRESSURE: 1710.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10-30-95	TICKET	: 21121
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 3	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: LANSING "H-K"
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	43.00	43.00
5.00	29.00	-14.00
10.00	22.00	-7.00
15.00	22.00	0.00
20.00	22.00	0.00
25.00	22.00	0.00
30.00	22.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	22.00	22.00	0.00
6.00	22.00	0.00	0.00
9.00	24.00	2.00	0.00
12.00	25.00	1.00	0.00
15.00	25.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	25.00	25.00
5.00	25.00	0.00
10.00	27.00	2.00
15.00	32.00	5.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	30.00	30.00	0.00
6.00	30.00	0.00	0.00
9.00	30.00	0.00	0.00
12.00	30.00	0.00	0.00

DST REPORT

GENERAL INFORMATION

DATE	: 10-31-95	TICKET	: 21122
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 4	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: N/A
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3552.00 ft	TO:	3593.00 ft	TVD:	3593.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3555.0 ft		3558.0 ft		
TEMPERATURE:	108.0				
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:	3532.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH:	20.0 ft	TOOL SIZE:		5.500 in	
ANCHOR LENGTH:	41.0 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:	3547.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3552.0 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.:	DUKE DRILLING #4	VISCOSITY:	46.00 cp
MUD TYPE:	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT:	9.400 ppg	SERIAL NUMBER:	
CHLORIDES:	5500 ppm	REVERSED OUT?:	NO
JARS-MAKE:			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BUILDING TO A FAIR BLOW-
1 TO 3 1/2 INCH BLOW. FINAL FLOW PERIOD-FAIR BLOW
THROUGHOUT, 3 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	110FT GAS ABOVE FLUID
10.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.1403	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.1403	STB		
			TOTAL FLOW TIME:	105.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1755.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	20.00	20.00
INITIAL SHUT-IN	45.00		31.00
FINAL FLOW	60.00	20.00	20.00
FINAL SHUT-IN	60.00		31.00

FINAL HYDROSTATIC PRESSURE: 1755.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1790.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	41.00	25.00
INITIAL SHUT-IN	45.00		26.00
FINAL FLOW	60.00	26.00	24.00
FINAL SHUT-IN	60.00		40.00

FINAL HYDROSTATIC PRESSURE: 1748.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-31-95		TICKET : 21122
CUSTOMER : LIBOC, INC.		LEASE : WERTH
WELL : #1-24	TEST: 4	GEOLOGIST: ?
ELEVATION: 2045 KB		FORMATION: N/A
SECTION : 24		TOWNSHIP : 16
RANGE : 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	41.00	41.00
5.00	29.00	-12.00
10.00	25.00	-4.00
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	25.00	0.00
40.00	25.00	0.00
45.00	25.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	25.00	25.00	0.00
6.00	25.00	0.00	0.00
9.00	25.00	0.00	0.00
12.00	25.00	0.00	0.00
15.00	25.00	0.00	0.00
18.00	25.00	0.00	0.00
21.00	25.00	0.00	0.00
24.00	25.00	0.00	0.00
27.00	25.00	0.00	0.00
30.00	25.00	0.00	0.00
33.00	26.00	1.00	0.00
36.00	26.00	0.00	0.00
39.00	26.00	0.00	0.00
42.00	26.00	0.00	0.00
45.00	26.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	26.00	26.00
5.00	26.00	0.00
10.00	25.00	-1.00
15.00	25.00	0.00
20.00	25.00	0.00
25.00	24.00	-1.00
30.00	24.00	0.00
35.00	24.00	0.00
40.00	24.00	0.00
45.00	24.00	0.00
50.00	24.00	0.00
55.00	24.00	0.00
60.00	24.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	24.00	24.00	0.00
6.00	24.00	0.00	0.00
9.00	24.00	0.00	0.00
12.00	24.00	0.00	0.00
15.00	24.00	0.00	0.00
18.00	24.00	0.00	0.00
21.00	25.00	1.00	0.00
24.00	26.00	1.00	0.00
27.00	27.00	1.00	0.00
30.00	29.00	2.00	0.00
33.00	30.00	1.00	0.00
36.00	31.00	1.00	0.00
39.00	32.00	1.00	0.00
42.00	34.00	2.00	0.00
45.00	35.00	1.00	0.00
48.00	36.00	1.00	0.00
51.00	37.00	1.00	0.00
54.00	38.00	1.00	0.00
57.00	39.00	1.00	0.00
60.00	40.00	1.00	0.00

DST REPORT

GENERAL INFORMATION

DATE	: 10-31-95	TICKET	: 21123
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 5	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: N/A
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	COUNTY: RUSH	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3550.00 ft	TO:	3598.00 ft	TVD:	3598.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3554.0 ft		3557.0 ft		
TEMPERATURE:	109.0				
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 :	3530.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	48.0 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:	3545.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3550.0 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. :	DUKE DRILLING #4	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	6000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BUILDING TO A STRONG BLOW IN 7 MINUTES. FINAL FLOW PERIOD-GOOD BLOW THROUGHOUT, 7 TO 7 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	375FT GAS ABOVE FLUID
45.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.6312	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.6312	STB		
			TOTAL FLOW TIME:	105.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1786.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	31.00	31.00
INITIAL SHUT-IN	45.00		93.00
FINAL FLOW	60.00	31.00	31.00
FINAL SHUT-IN	60.00		104.00

FINAL HYDROSTATIC PRESSURE: 1734.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1767.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	53.00	37.00
INITIAL SHUT-IN	42.00		110.00
FINAL FLOW	60.00	54.00	37.00
FINAL SHUT-IN	60.00		122.00

FINAL HYDROSTATIC PRESSURE: 1713.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10-31-95	TICKET	: 21123
CUSTOMER	: LIBOC, INC.	LEASE	: WERTH
WELL	: #1-24	TEST: 5	GEOLOGIST: ?
ELEVATION	: 2045 KB	FORMATION	: N/A
SECTION	: 24	TOWNSHIP	: 16
RANGE	: 18W	STATE	: KS
GAUGE SN#	: 10270	CLOCK	: 12
	COUNTY: RUSH		
	RANGE : 4150		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	53.00	53.00
5.00	40.00	-13.00
10.00	40.00	0.00
15.00	39.00	-1.00
20.00	39.00	0.00
25.00	39.00	0.00
30.00	39.00	0.00
35.00	37.00	-2.00
40.00	37.00	0.00
45.00	37.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	37.00	37.00	0.00
6.00	41.00	4.00	0.00
9.00	47.00	6.00	0.00
12.00	52.00	5.00	0.00
15.00	55.00	3.00	0.00
18.00	61.00	6.00	0.00
21.00	67.00	6.00	0.00
24.00	75.00	8.00	0.00
27.00	80.00	5.00	0.00
30.00	85.00	5.00	0.00
33.00	91.00	6.00	0.00
36.00	96.00	5.00	0.00
39.00	103.00	7.00	0.00
42.00	110.00	7.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	54.00	54.00
5.00	40.00	-14.00
10.00	37.00	-3.00
15.00	36.00	-1.00
20.00	36.00	0.00
25.00	36.00	0.00
30.00	36.00	0.00
35.00	36.00	0.00
40.00	37.00	1.00
45.00	37.00	0.00
50.00	37.00	0.00
55.00	37.00	0.00
60.00	37.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	37.00	37.00	0.00
6.00	43.00	6.00	0.00
9.00	47.00	4.00	0.00
12.00	54.00	7.00	0.00
15.00	59.00	5.00	0.00
18.00	66.00	7.00	0.00
21.00	70.00	4.00	0.00
24.00	76.00	6.00	0.00
27.00	81.00	5.00	0.00
30.00	85.00	4.00	0.00
33.00	89.00	4.00	0.00
36.00	92.00	3.00	0.00
39.00	100.00	8.00	0.00
42.00	102.00	2.00	0.00
45.00	106.00	4.00	0.00
48.00	110.00	4.00	0.00
51.00	114.00	4.00	0.00
54.00	118.00	4.00	0.00
57.00	121.00	3.00	0.00
60.00	122.00	1.00	0.00