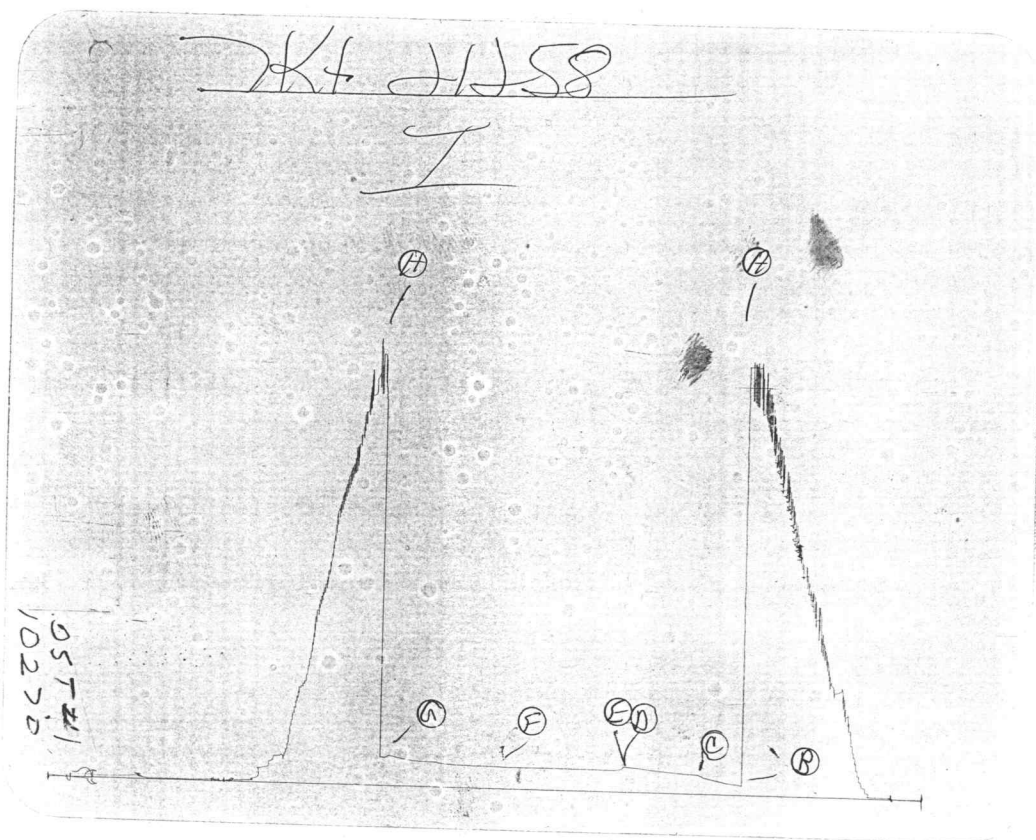
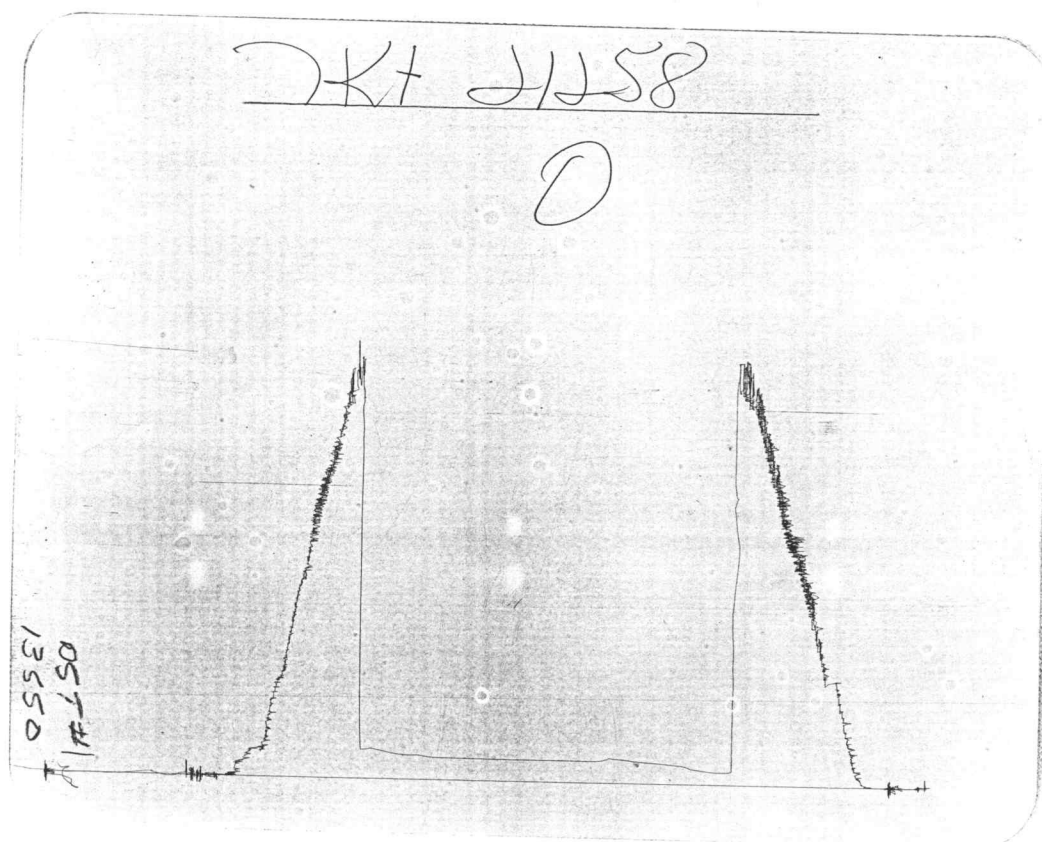




Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 5-17-95	TICKET	: 21258
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: LEWIS-WILDGEN
WELL	: #4-A	TEST: 1	GEOLOGIST: KLAVER
ELEVATION:	2593 KB	FORMATION:	FORT SCOTT
SECTION	: 31	TOWNSHIP	: 16S
RANGE	: 25W	STATE	: KS
GAUGE SN#:	10270	RANGE	: 4150
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4395.00 ft	TO:	4440.00 ft	TVD:	4440.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4399.0 ft		4402.0 ft		
TEMPERATURE:	120.0				
DRILL COLLAR LENGTH:	150.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4225.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	45.0 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:	4390.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4395.0 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. :	PICKRELL DRLG #10	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.400 cc
WEIGHT :	9.400 ppg	SERIAL NUMBER:	
CHLORIDES :	1400 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW IN 1 MINUTE.
FINAL FLOW PERIOD-STRONG BLOW THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	2400FT GAS ABOVE FLUID.
165.0	80.0	14.0	0.0	6.0	SLIGHTLY MUDDY GASSY OIL

RATE INFORMATION

OIL VOLUME:	0.7325	STB		
GAS VOLUME:	0.7198	SCF		
MUD VOLUME:	0.0549	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.7874	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	9.4490 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2222.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	83.00
INITIAL SHUT-IN	60.00		135.00
FINAL FLOW	90.00	114.00	124.00
FINAL SHUT-IN	90.00		166.00

FINAL HYDROSTATIC PRESSURE: 2191.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2247.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	89.00
INITIAL SHUT-IN	60.00		139.00
FINAL FLOW	90.00	121.00	121.00
FINAL SHUT-IN	90.00		156.00

FINAL HYDROSTATIC PRESSURE: 2223.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5-17-95	TICKET : 21258
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : LEWIS-WILDGEN
WELL : #4-A	GEOLOGIST: KLAVER
ELEVATION: 2593 KB	FORMATION: FORT SCOTT
SECTION : 31	TOWNSHIP : 16S
RANGE : 25W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: NESS	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	52.00	52.00
5.00	58.00	6.00
10.00	63.00	5.00
15.00	71.00	8.00
20.00	77.00	6.00
25.00	83.00	6.00
30.00	89.00	6.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	104.00	104.00	11.00
6.00	106.00	2.00	6.00
9.00	107.00	1.00	4.33
12.00	107.00	0.00	3.50
15.00	107.00	0.00	3.00
18.00	109.00	2.00	2.67
21.00	111.00	2.00	2.43
24.00	113.00	2.00	2.25
27.00	115.00	2.00	2.11
30.00	117.00	2.00	2.00
33.00	119.00	2.00	1.91
36.00	121.00	2.00	1.83
39.00	123.00	2.00	1.77
42.00	125.00	2.00	1.71
45.00	128.00	3.00	1.67
48.00	131.00	3.00	1.63
51.00	133.00	2.00	1.59
54.00	135.00	2.00	1.56
57.00	137.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	139.00	2.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	121.00	121.00
5.00	121.00	0.00
10.00	121.00	0.00
15.00	121.00	0.00
20.00	121.00	0.00
25.00	121.00	0.00
30.00	121.00	0.00
35.00	121.00	0.00
40.00	121.00	0.00
45.00	121.00	0.00
50.00	121.00	0.00
55.00	121.00	0.00
60.00	121.00	0.00
65.00	121.00	0.00
70.00	121.00	0.00
75.00	121.00	0.00
80.00	121.00	0.00
85.00	121.00	0.00
90.00	121.00	0.00

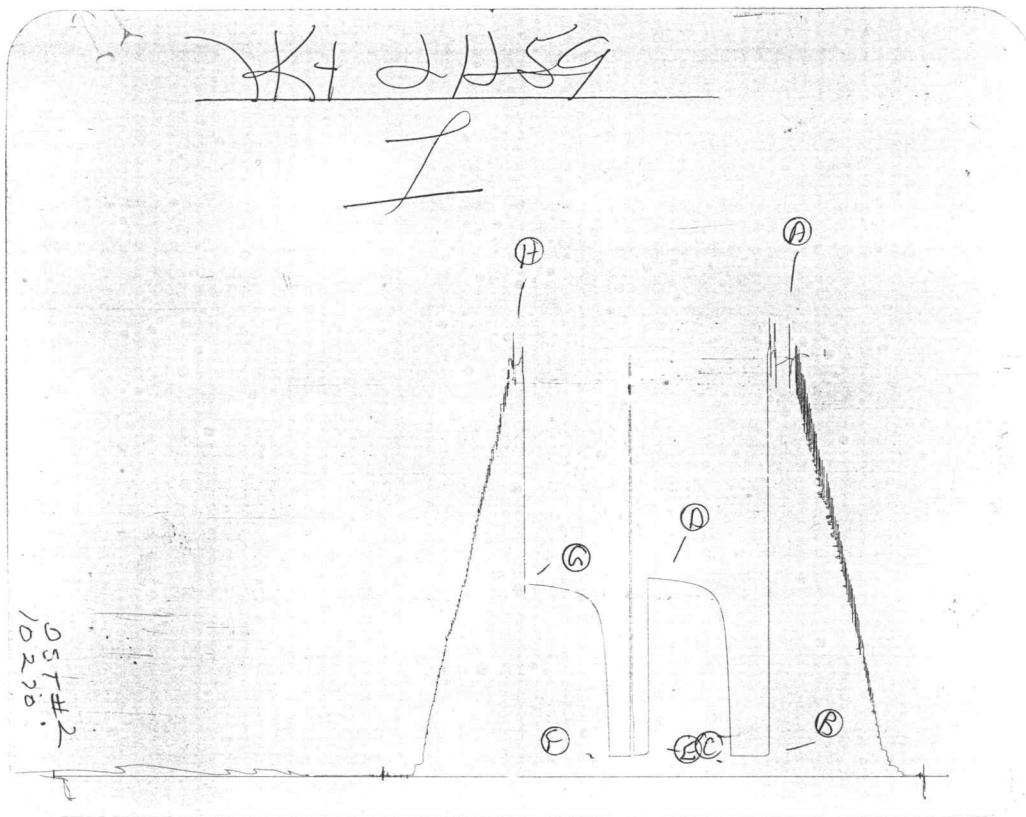
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	121.00	121.00	31.00
6.00	121.00	0.00	16.00
9.00	121.00	0.00	11.00
12.00	121.00	0.00	8.50
15.00	121.00	0.00	7.00
18.00	122.00	1.00	6.00
21.00	122.00	0.00	5.29
24.00	122.00	0.00	4.75
27.00	122.00	0.00	4.33
30.00	122.00	0.00	4.00

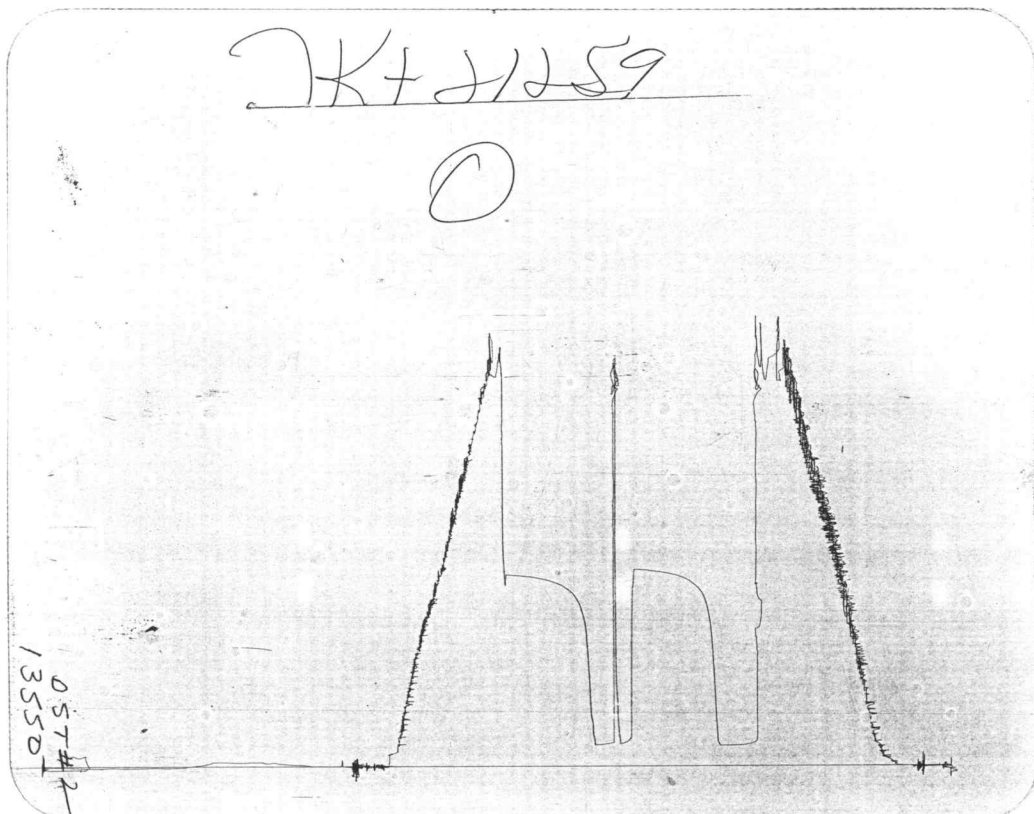
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	123.00	1.00	3.73
36.00	124.00	1.00	3.50
39.00	125.00	1.00	3.31
42.00	126.00	1.00	3.14
45.00	127.00	1.00	3.00
48.00	128.00	1.00	2.88
51.00	129.00	1.00	2.76
54.00	131.00	2.00	2.67
57.00	133.00	2.00	2.58
60.00	135.00	2.00	2.50
63.00	137.00	2.00	2.43
66.00	140.00	3.00	2.36
69.00	143.00	3.00	2.30
72.00	146.00	3.00	2.25
75.00	148.00	2.00	2.20
78.00	151.00	3.00	2.15
81.00	165.00	14.00	2.11
84.00	165.00	0.00	2.07
87.00	154.00	-11.00	2.03
90.00	156.00	2.00	2.00



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 5-18-95	TICKET	: 21259
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: LEWIS-WILDGEN
WELL	: #4-A	TEST: 2	GEOLOGIST: KLAVER
ELEVATION	: 2593 KB	FORMATION	: MISSISSIPPI
SECTION	: 31	TOWNSHIP	: 16S
RANGE	: 25W	COUNTY: NESS	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4479.00 ft	TO:	4522.00 ft	TVD:	4522.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4483.0 ft		4486.0 ft		
TEMPERATURE:	126.0				
DRILL COLLAR LENGTH:	150.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4309.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	43.0 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:	4474.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4479.0 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. :	PICKRELL DRLG #10	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.500 ppg	SERIAL NUMBER:	
CHLORIDES :	1200 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT 1/2 INCH
BLOW. FINAL FLOW PERIOD-NO BLOW-FLUSHED TOOL.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
65.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD
120.0	4.0	0.0	0.0	96.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0352	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	1.1609	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	1.1961	STB		
			TOTAL FLOW TIME:	60.0000 min.
			AVERAGE OIL RATE:	28.7070 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2212.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	104.00	104.00
INITIAL SHUT-IN	60.00		1070.00
FINAL FLOW	30.00	104.00	104.00
FINAL SHUT-IN	60.00		1029.00

FINAL HYDROSTATIC PRESSURE: 2212.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2250.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	115.00	115.00
INITIAL SHUT-IN	60.00		1068.00
FINAL FLOW	30.00	140.00	110.00
FINAL SHUT-IN	63.00		1037.00

FINAL HYDROSTATIC PRESSURE: 2241.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5-18-95	TICKET : 21259
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : LEWIS-WILDGEN
WELL : #4-A	GEOLOGIST: KLAVER
ELEVATION: 2593 KB	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 16S
RANGE : 25W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: NESS	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	115.00	115.00
5.00	115.00	0.00
10.00	115.00	0.00
15.00	115.00	0.00
20.00	115.00	0.00
25.00	115.00	0.00
30.00	115.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	773.00	773.00	11.00
6.00	901.00	128.00	6.00
9.00	948.00	47.00	4.33
12.00	980.00	32.00	3.50
15.00	999.00	19.00	3.00
18.00	1014.00	15.00	2.67
21.00	1023.00	9.00	2.43
24.00	1031.00	8.00	2.25
27.00	1035.00	4.00	2.11
30.00	1041.00	6.00	2.00
33.00	1046.00	5.00	1.91
36.00	1051.00	5.00	1.83
39.00	1055.00	4.00	1.77
42.00	1057.00	2.00	1.71
45.00	1059.00	2.00	1.67
48.00	1061.00	2.00	1.63
51.00	1063.00	2.00	1.59
54.00	1065.00	2.00	1.56
57.00	1067.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

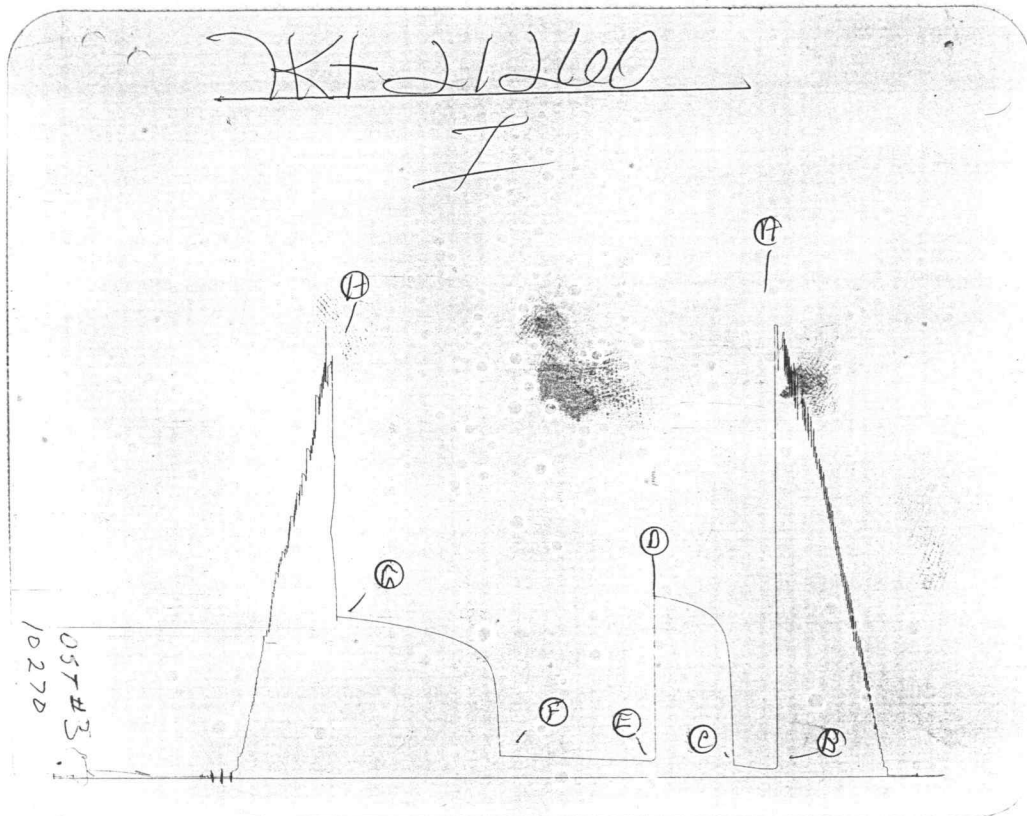
Time (min)	Pressure	Delta P	Horner T
60.00	1068.00	1.00	1.50

FINAL FLOW

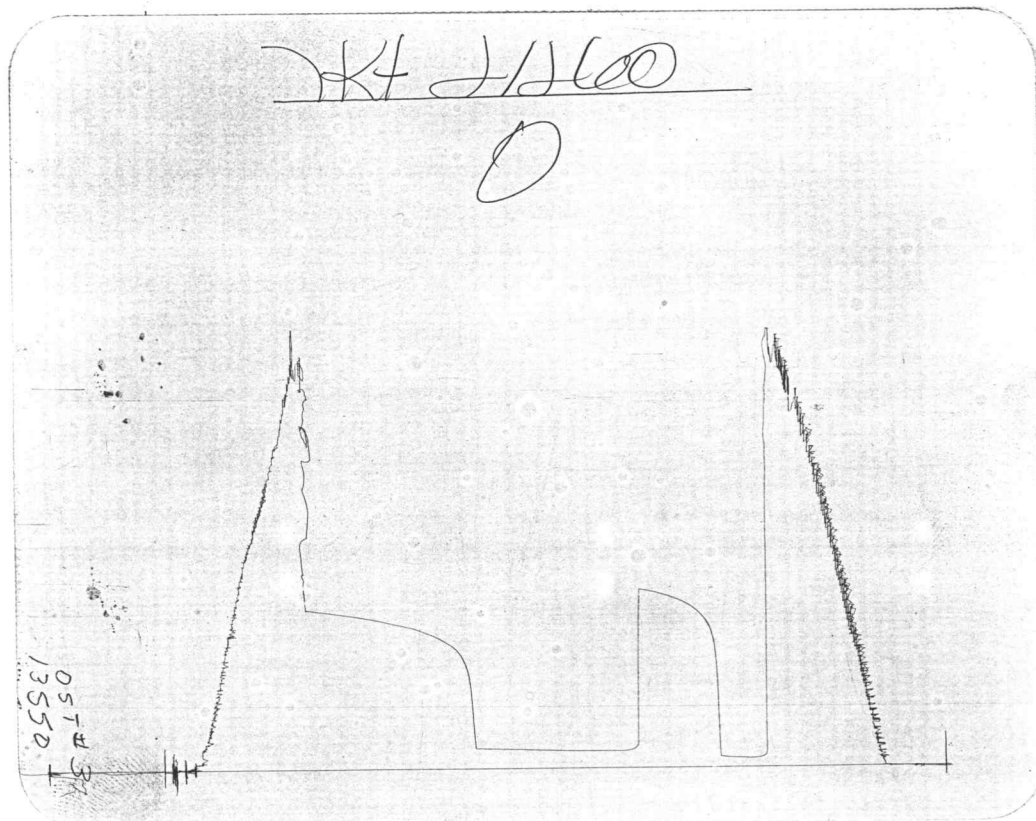
Time (min)	Pressure	Delta P
0.00	140.00	140.00
5.00	120.00	-20.00
10.00	118.00	-2.00
15.00	110.00	-8.00
20.00	110.00	0.00
25.00	110.00	0.00
30.00	110.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	684.00	684.00	11.00
6.00	842.00	158.00	6.00
9.00	900.00	58.00	4.33
12.00	936.00	36.00	3.50
15.00	958.00	22.00	3.00
18.00	978.00	20.00	2.67
21.00	985.00	7.00	2.43
24.00	995.00	10.00	2.25
27.00	1001.00	6.00	2.11
30.00	1005.00	4.00	2.00
33.00	1011.00	6.00	1.91
36.00	1017.00	6.00	1.83
39.00	1021.00	4.00	1.77
42.00	1023.00	2.00	1.71
45.00	1025.00	2.00	1.67
48.00	1027.00	2.00	1.63
51.00	1029.00	2.00	1.59
54.00	1031.00	2.00	1.56
57.00	1033.00	2.00	1.53
60.00	1035.00	2.00	1.50
63.00	1037.00	2.00	1.48



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 5-18-95	TICKET	: 21260
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: LEWIS-WILDGEN
WELL	: #4-A	TEST: 3	GEOLOGIST: KLAVER
ELEVATION:	2593 KB	FORMATION:	MISSISSIPPI
SECTION	: 31	TOWNSHIP	: 16S
RANGE	: 25W	COUNTY:	NESS
GAUGE SN#:	10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4480.00 ft	TO:	4527.00 ft	TVD:	4527.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4483.0 ft		4486.0 ft		
TEMPERATURE:	126.0				
DRILL COLLAR LENGTH:	150.0 ft	I.D.:		2.200 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4310.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	47.0 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:	4475.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4480.0 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. :	PICKRELL DRLG #10	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.200 cc
WEIGHT :	9.600 ppg		
CHLORIDES :	1100 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT-1/2 TO 2
1/2 INCH BLOW.
FINAL FLOW PERIOD-WEAK BLOW THROUGHOUT-1/4 TO 1/2

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

INCH BLOW.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 39
135.0	6.0	0.0	0.0	94.0	OIL CUT MUD
60.0	3.0	0.0	0.0	97.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.3522 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	1.2647 STB	
WATER VOLUME:	0.0000 STB	
TOTAL FLUID :	1.6169 STB	
		TOTAL FLOW TIME: 150.0000 min.
		AVERAGE OIL RATE: 15.5224 STB/D
		AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2254.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	52.00
INITIAL SHUT-IN	60.00		966.00
FINAL FLOW	120.00	72.00	114.00
FINAL SHUT-IN	120.00		863.00

FINAL HYDROSTATIC PRESSURE: 2191.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2308.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	46.00	65.00
INITIAL SHUT-IN	60.00		977.00
FINAL FLOW	120.00	93.00	119.00
FINAL SHUT-IN	120.00		869.00

FINAL HYDROSTATIC PRESSURE: 2219.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5-18-95	TICKET : 21260
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : LEWIS-WILDGEN
WELL : #4-A	GEOLOGIST: KLAVER
ELEVATION: 2593 KB	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 16S
RANGE : 25W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: NESS	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	46.00	46.00
5.00	46.00	0.00
10.00	46.00	0.00
15.00	48.00	2.00
20.00	53.00	5.00
25.00	58.00	5.00
30.00	65.00	7.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	613.00	613.00	11.00
6.00	755.00	142.00	6.00
9.00	807.00	52.00	4.33
12.00	837.00	30.00	3.50
15.00	858.00	21.00	3.00
18.00	877.00	19.00	2.67
21.00	891.00	14.00	2.43
24.00	905.00	14.00	2.25
27.00	918.00	13.00	2.11
30.00	929.00	11.00	2.00
33.00	937.00	8.00	1.91
36.00	942.00	5.00	1.83
39.00	948.00	6.00	1.77
42.00	952.00	4.00	1.71
45.00	960.00	8.00	1.67
48.00	965.00	5.00	1.63
51.00	969.00	4.00	1.59
54.00	973.00	4.00	1.56
57.00	975.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	977.00	2.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	93.00	93.00
5.00	93.00	0.00
10.00	93.00	0.00
15.00	95.00	2.00
20.00	96.00	1.00
25.00	97.00	1.00
30.00	98.00	1.00
35.00	99.00	1.00
40.00	101.00	2.00
45.00	101.00	0.00
50.00	102.00	1.00
55.00	104.00	2.00
60.00	106.00	2.00
65.00	108.00	2.00
70.00	109.00	1.00
75.00	110.00	1.00
80.00	112.00	2.00
85.00	113.00	1.00
90.00	113.00	0.00
95.00	114.00	1.00
100.00	115.00	1.00
105.00	116.00	1.00
110.00	117.00	1.00
115.00	118.00	1.00
120.00	119.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	447.00	447.00	41.00
6.00	574.00	127.00	21.00
9.00	615.00	41.00	14.33
12.00	647.00	32.00	11.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
15.00	671.00	24.00	9.00
18.00	691.00	20.00	7.67
21.00	702.00	11.00	6.71
24.00	716.00	14.00	6.00
27.00	726.00	10.00	5.44
30.00	736.00	10.00	5.00
33.00	745.00	9.00	4.64
36.00	753.00	8.00	4.33
39.00	760.00	7.00	4.08
42.00	769.00	9.00	3.86
45.00	775.00	6.00	3.67
48.00	782.00	7.00	3.50
51.00	786.00	4.00	3.35
54.00	792.00	6.00	3.22
57.00	797.00	5.00	3.11
60.00	803.00	6.00	3.00
63.00	806.00	3.00	2.90
66.00	812.00	6.00	2.82
69.00	816.00	4.00	2.74
72.00	820.00	4.00	2.67
75.00	823.00	3.00	2.60
78.00	827.00	4.00	2.54
81.00	831.00	4.00	2.48
84.00	835.00	4.00	2.43
87.00	838.00	3.00	2.38
90.00	841.00	3.00	2.33
93.00	844.00	3.00	2.29
96.00	847.00	3.00	2.25
99.00	850.00	3.00	2.21
102.00	853.00	3.00	2.18
105.00	855.00	2.00	2.14
108.00	857.00	2.00	2.11
111.00	860.00	3.00	2.08
114.00	863.00	3.00	2.05
117.00	866.00	3.00	2.03
120.00	869.00	3.00	2.00