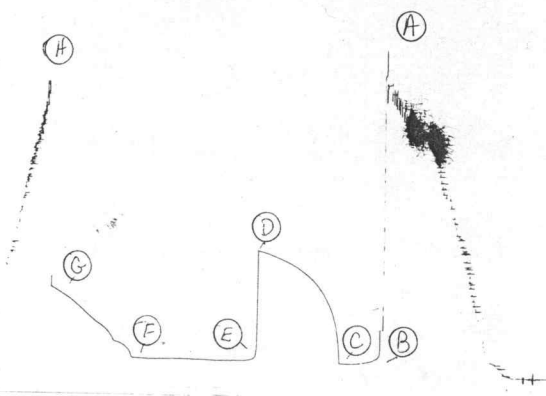


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Ticket # 22147

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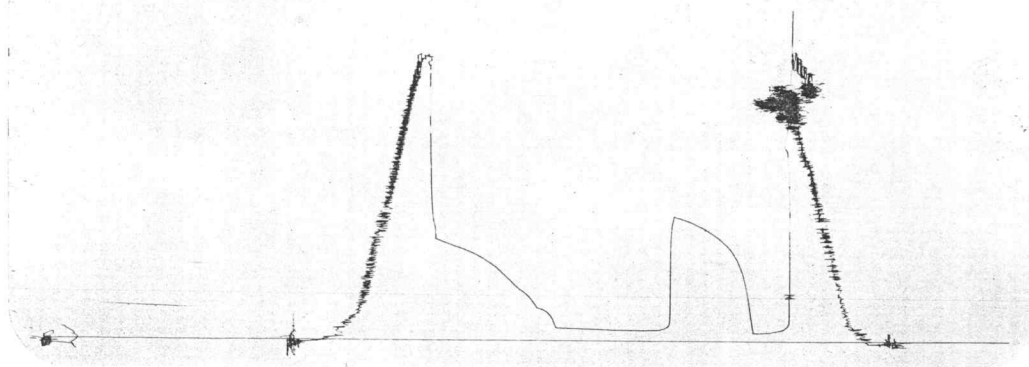


Inside Recorder

~~13629-1~~

Ticket # 22147

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Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 8-11-95	TICKET	: 22147
CUSTOMER	: PICKRELL DRILLING	LEASE	: RUNDELL "C"
WELL	: #1	TEST:	1
ELEVATION	: 1828 KB	GEOLOGIST	: KLAVER
SECTION	: 12	FORMATION	: LANSING
RANGE	: 12W	TOWNSHIP	: 25
GAUGE SN#	: 11018	STATE	: KS
	COUNTY: STAFFORD	CLOCK	: 12
	RANGE : 4425		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3522.00 ft	TO:	3554.00 ft	TVD:	3554.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3544.0 ft		3547.0 ft		
TEMPERATURE:	108.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3262.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	32.0 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:	3522.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3517.0 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 DRILLING	VISCOSITY :	37.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	8.800 ppg	SERIAL NUMBER:	
CHLORIDES :	0 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

STRONG BLOW THROUGHOUT-GAS TO SURFACE IN 9 MINUTES
SEE ATTACHED SHEET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	20.0	10.0	0.0	70.0	HEAVY OIL & GAS CUT MUD
60.0	30.0	10.0	0.0	60.0	OIL & GAS CUT MUD
120.0	40.0	40.0	0.0	20.0	MUD & GAS CUT OIL

RATE INFORMATION

OIL VOLUME:	0.4256	STB		
GAS VOLUME:	1.7748	SCF		
MUD VOLUME:	0.6489	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	1.0745	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	12.8940 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1680.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	88.00	55.00
INITIAL SHUT-IN	60.00		721.00
FINAL FLOW	90.00	77.00	88.00
FINAL SHUT-IN	90.00		500.00

FINAL HYDROSTATIC PRESSURE: 1603.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1646.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	115.00	74.00
INITIAL SHUT-IN	60.00		716.00
FINAL FLOW	90.00	97.00	87.00
FINAL SHUT-IN	60.00		486.00

FINAL HYDROSTATIC PRESSURE: 1590.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 8-11-95	TICKET : 22147
CUSTOMER : PICKRELL DRILLING	LEASE : RUNDELL "C"
WELL : #1	GEOLOGIST: KLAVER
ELEVATION: 1828 KB	FORMATION: LANSING
SECTION : 12	TOWNSHIP : 25
RANGE : 12W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: STAFFORD	
RANGE : 4425	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
15 MIN	MERLA	1.000	4" OF WATER	51600 SCF/D
20 MIN	MERLA	1.000	3" OF WATER	44700 SCF/D
25 MIN	MERLA	1.000	2" OF WATER	36500 SCF/D
30 MIN	MERLA	1.000	1" OF WATER	25800 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.000	4" OF WATER	51600 SCF/D
10 MIN	MERLA	1.000	3" OF WATER	44700 SCF/D
15 MIN	MERLA	1.000	2" OF WATER	36500 SCF/D
20 MIN	MERLA	1.000	1" OF WATER	25800 SCF/D
25 MIN	MERLA	1.000	1" OF WATER	25800 SCF/D
30 MIN	MERLA	0.500	15" OF WATER	24500 SCF/D
35 MIN	MERLA	0.500	13" OF WATER	22800 SCF/D
40 MIN	MERLA	0.500	11" OF WATER	20900 SCF/D
45 MIN	MERLA	0.500	10" OF WATER	19900 SCF/D
50 MIN	MERLA	0.500	8" OF WATER	17200 SCF/D
55 MIN	MERLA	0.500	7" OF WATER	16700 SCF/D
60 MIN	MERLA	0.500	6" OF WATER	15400 SCF/D
65 MIN	MERLA	0.500	6" OF WATER	15400 SCF/D
70 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
75 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
80 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
85 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D
90 MIN	MERLA	0.500	5" OF WATER	14100 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-11-95	TICKET : 22147
CUSTOMER : PICKRELL DRILLING	LEASE : RUNDELL "C"
WELL : #1	GEOLOGIST: KLAVER
ELEVATION: 1828 KB	FORMATION: LANSING
SECTION : 12	TOWNSHIP : 25
RANGE : 12W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: STAFFORD	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	115.00	115.00
5.00	94.00	-21.00
10.00	84.00	-10.00
15.00	75.00	-9.00
20.00	73.00	-2.00
25.00	73.00	0.00
30.00	74.00	1.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	295.00	295.00	11.00
6.00	370.00	75.00	6.00
9.00	424.00	54.00	4.33
12.00	462.00	38.00	3.50
15.00	503.00	41.00	3.00
18.00	533.00	30.00	2.67
21.00	555.00	22.00	2.43
24.00	576.00	21.00	2.25
27.00	595.00	19.00	2.11
30.00	610.00	15.00	2.00
33.00	627.00	17.00	1.91
36.00	640.00	13.00	1.83
39.00	651.00	11.00	1.77
42.00	662.00	11.00	1.71
45.00	672.00	10.00	1.67
48.00	683.00	11.00	1.63
51.00	691.00	8.00	1.59
54.00	702.00	11.00	1.56
57.00	707.00	5.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	716.00	9.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	97.00	97.00
5.00	86.00	-11.00
10.00	81.00	-5.00
15.00	81.00	0.00
20.00	81.00	0.00
25.00	81.00	0.00
30.00	81.00	0.00
35.00	81.00	0.00
40.00	81.00	0.00
45.00	83.00	2.00
50.00	85.00	2.00
55.00	85.00	0.00
60.00	85.00	0.00
65.00	85.00	0.00
70.00	85.00	0.00
75.00	85.00	0.00
80.00	85.00	0.00
85.00	86.00	1.00
90.00	87.00	1.00

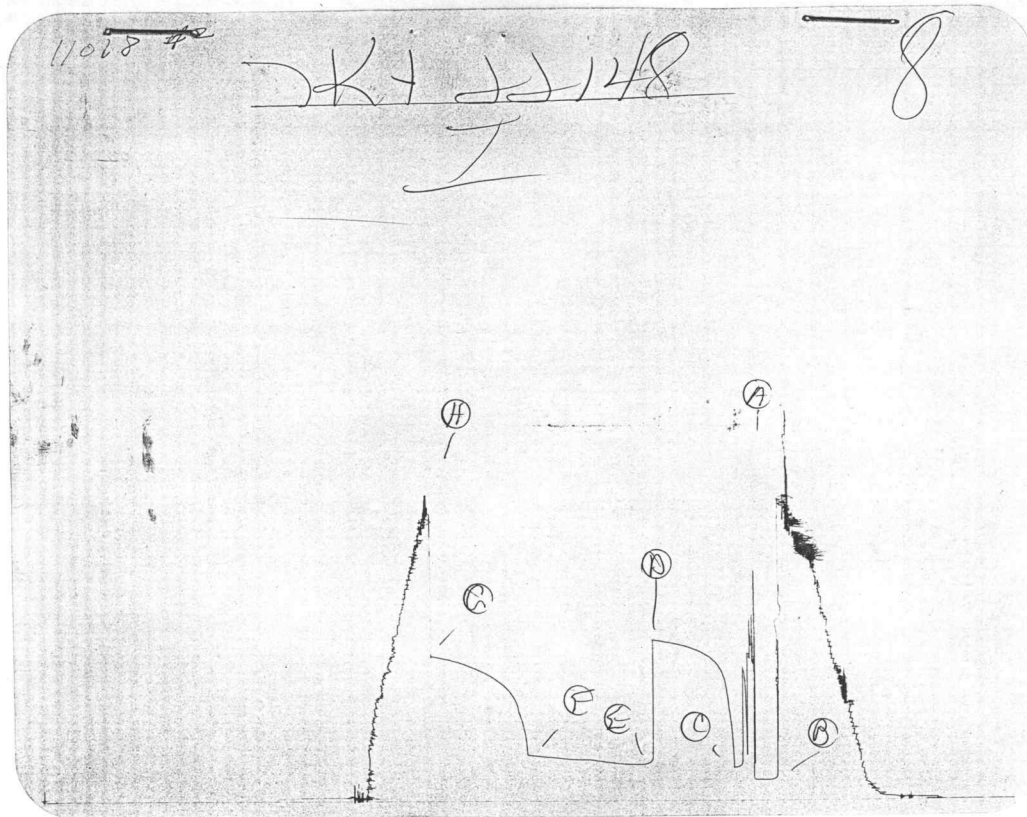
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	140.00	140.00	31.00
6.00	157.00	17.00	16.00
9.00	172.00	15.00	11.00
12.00	179.00	7.00	8.50
15.00	208.00	29.00	7.00
18.00	240.00	32.00	6.00
21.00	262.00	22.00	5.29
24.00	279.00	17.00	4.75
27.00	292.00	13.00	4.33
30.00	313.00	21.00	4.00

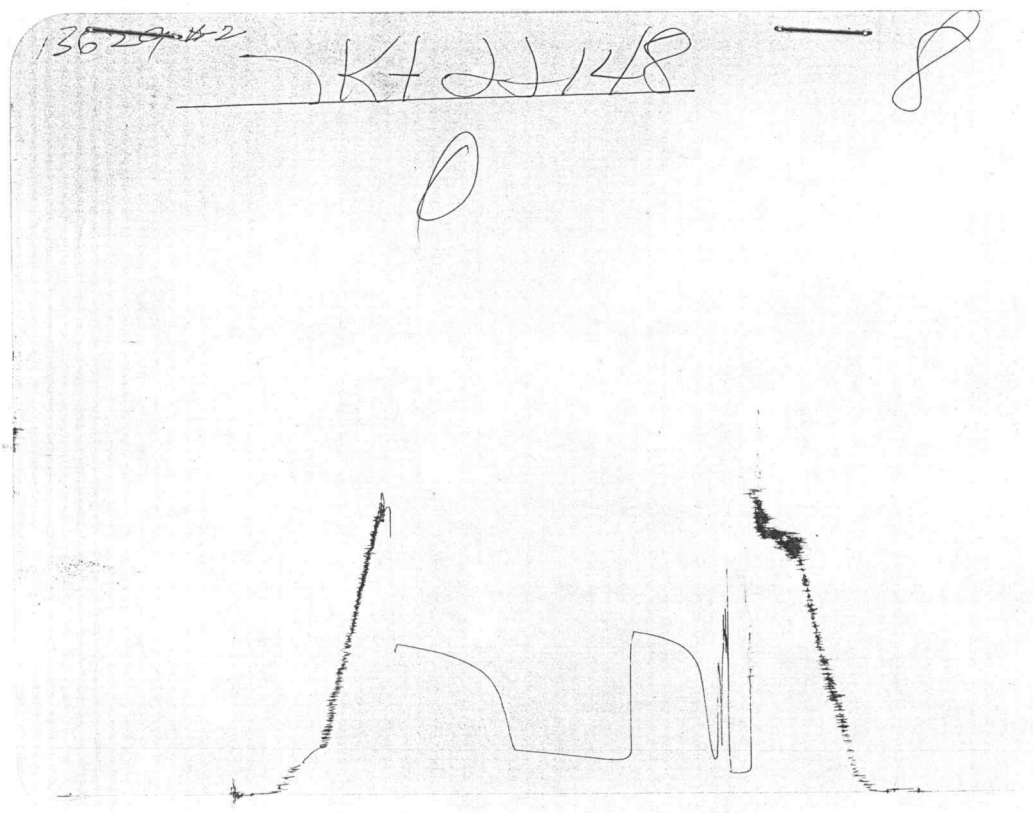
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	334.00	21.00	3.73
36.00	355.00	21.00	3.50
39.00	378.00	23.00	3.31
42.00	397.00	19.00	3.14
45.00	416.00	19.00	3.00
48.00	432.00	16.00	2.88
51.00	445.00	13.00	2.76
54.00	459.00	14.00	2.67
57.00	475.00	16.00	2.58
60.00	486.00	11.00	2.50



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 8/12/95	TICKET	: 22148
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: RUNDELL
WELL	: #C-1	TEST: 2	GEOLOGIST: KLAVER
ELEVATION	: 1828 KB	FORMATION	: LANSING F
SECTION	: 12	TOWNSHIP	: 25S
RANGE	: 12W	STATE	: KS
GAUGE SN#	: 11018	RANGE	: 4425
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3564.00 ft	TO:	3588.00 ft	TVD:	3588.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3578.0 ft		3581.0 ft		
TEMPERATURE:	112.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3304.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	24.0 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:	3559.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3564.0 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 DRILLING	VISCOSITY :	38.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	8.800 ppg	SERIAL NUMBER:	
CHLORIDES :	10000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

STRONG BLOW THROUGHOUT TEST.
TOOL SLID ON INITIAL FLOW PERIOD CAUSING TOOL TO
CLOSE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
120.0	30.0	0.0	20.0	50.0	GAS & OIL CUT MUD
120.0	10.0	0.0	90.0	0.0	SL GAS & OIL CUT WATER
240.0	0.0	0.0	100.0	0.0	SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 120000 PPM
0.0	0.0	0.0	0.0	0.0	1300 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.6733	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.8416	STB		
WATER VOLUME:	3.0317	STB		
TOTAL FLUID :	4.5465	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	14.1386 STB/D
			AVERAGE WATER RATE:	40.4197 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1713.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	133.00	188.00
INITIAL SHUT-IN	60.00		931.00
FINAL FLOW	90.00	211.00	277.00
FINAL SHUT-IN	90.00		842.00

FINAL HYDROSTATIC PRESSURE: 1680.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1725.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	127.00	193.00
INITIAL SHUT-IN	60.00		930.00
FINAL FLOW	90.00	224.00	271.00
FINAL SHUT-IN	72.00		842.00

FINAL HYDROSTATIC PRESSURE: 1646.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8/12/95	TICKET	: 22148
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: RUNDELL
WELL	: #C-1	GEOLOGIST	: KLAVER
ELEVATION	: 1828 KB	FORMATION	: LANSING F
SECTION	: 12	TOWNSHIP	: 25S
RANGE	: 12W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	COUNTY: STAFFORD		
	RANGE : 4425		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	127.00	127.00
5.00	125.00	-2.00
10.00	125.00	0.00
15.00	125.00	0.00
20.00	898.00	773.00
25.00	754.00	-144.00
30.00	193.00	-561.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	430.00	430.00	11.00
6.00	595.00	165.00	6.00
9.00	705.00	110.00	4.33
12.00	757.00	52.00	3.50
15.00	795.00	38.00	3.00
18.00	817.00	22.00	2.67
21.00	835.00	18.00	2.43
24.00	849.00	14.00	2.25
27.00	864.00	15.00	2.11
30.00	873.00	9.00	2.00
33.00	881.00	8.00	1.91
36.00	890.00	9.00	1.83
39.00	896.00	6.00	1.77
42.00	903.00	7.00	1.71
45.00	909.00	6.00	1.67
48.00	914.00	5.00	1.63
51.00	920.00	6.00	1.59
54.00	924.00	4.00	1.56
57.00	927.00	3.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	930.00	3.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	224.00	224.00
5.00	219.00	-5.00
10.00	215.00	-4.00
15.00	215.00	0.00
20.00	216.00	1.00
25.00	220.00	4.00
30.00	225.00	5.00
35.00	230.00	5.00
40.00	236.00	6.00
45.00	243.00	7.00
50.00	245.00	2.00
55.00	245.00	0.00
60.00	247.00	2.00
65.00	251.00	4.00
70.00	255.00	4.00
75.00	262.00	7.00
80.00	264.00	2.00
85.00	266.00	2.00
90.00	271.00	5.00

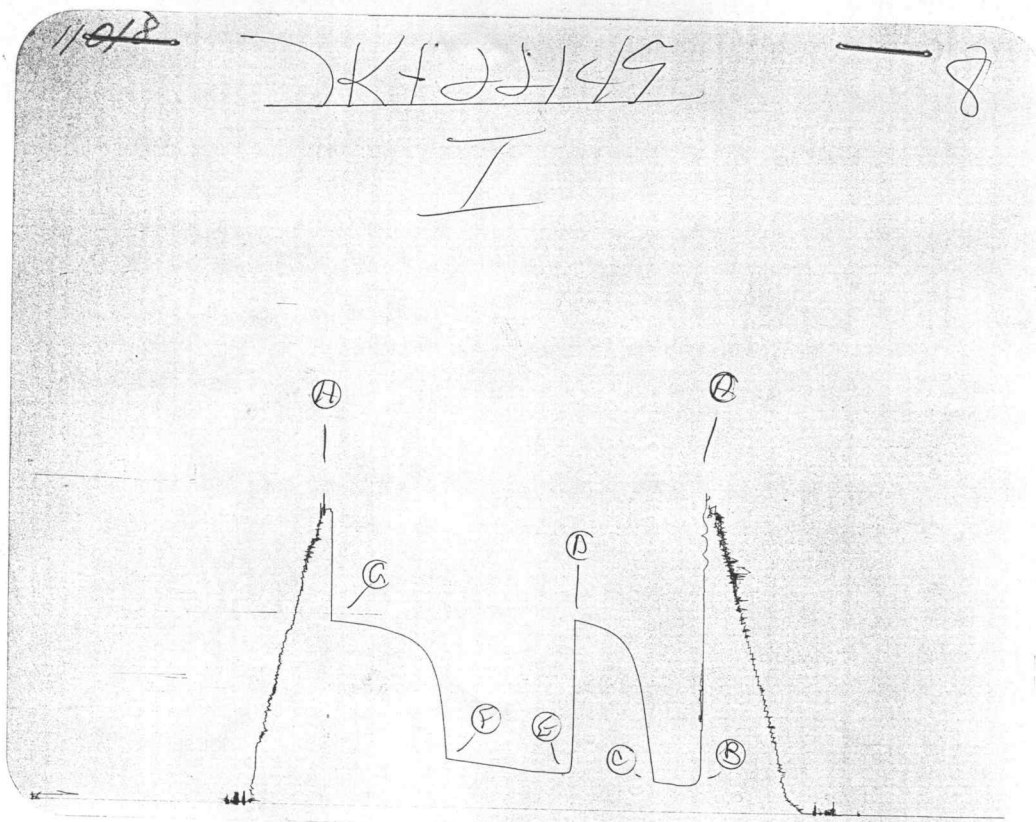
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	437.00	437.00	31.00
6.00	504.00	67.00	16.00
9.00	579.00	75.00	11.00
12.00	615.00	36.00	8.50
15.00	646.00	31.00	7.00
18.00	667.00	21.00	6.00
21.00	683.00	16.00	5.29
24.00	705.00	22.00	4.75
27.00	721.00	16.00	4.33
30.00	733.00	12.00	4.00

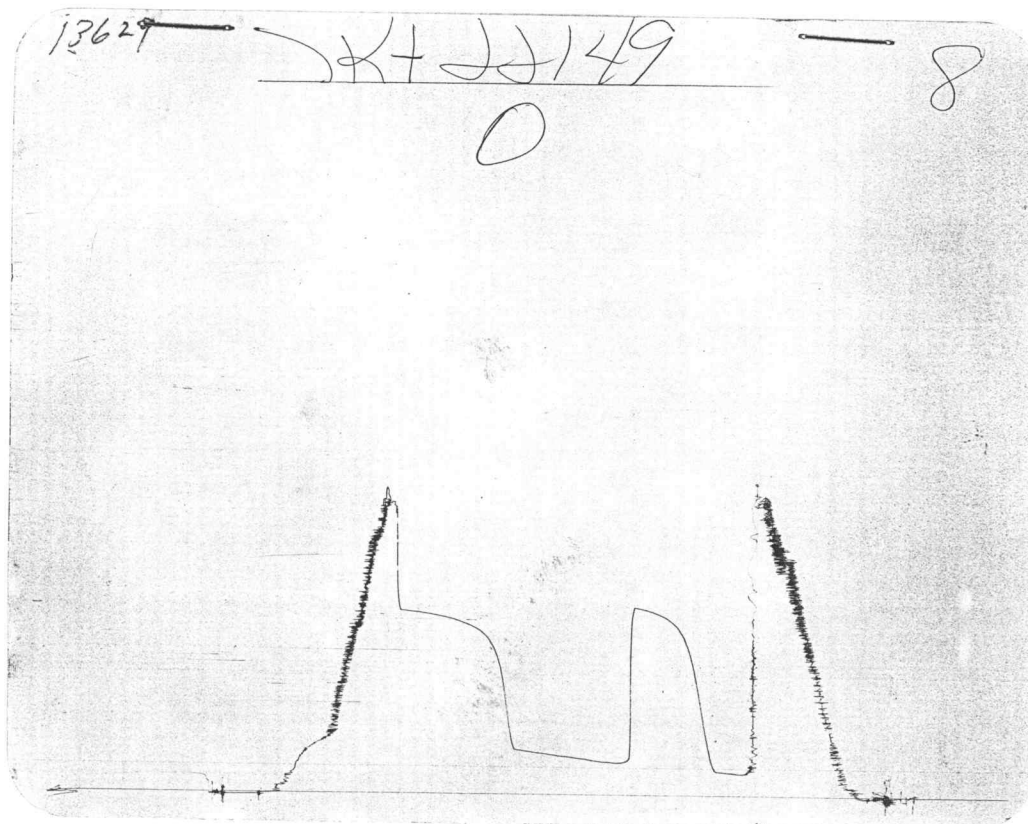
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	746.00	13.00	3.73
36.00	755.00	9.00	3.50
39.00	767.00	12.00	3.31
42.00	778.00	11.00	3.14
45.00	785.00	7.00	3.00
48.00	794.00	9.00	2.88
51.00	802.00	8.00	2.76
54.00	808.00	6.00	2.67
57.00	817.00	9.00	2.58
60.00	823.00	6.00	2.50
63.00	827.00	4.00	2.43
66.00	834.00	7.00	2.36
69.00	838.00	4.00	2.30
72.00	842.00	4.00	2.25



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 8/13/95
CUSTOMER : PICKRELL DRILLING CO INC
WELL : #C-1 TEST: 3
ELEVATION: 1828 KB
SECTION : 12
RANGE : 12W COUNTY: STAFFORD
GAUGE SN#: 11018 RANGE : 4425

TICKET : 22149
LEASE : RUNDELL
GEOLOGIST: KLAVER
FORMATION:
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3620.00 ft TO: 3682.00 ft TVD: 3682.0 ft
DEPTH OF SELECTIVE ZONE:
DEPTH OF RECORDERS: 3642.0 ft 3645.0 ft TEST TYPE: OIL
TEMPERATURE: 115.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3360.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	62.0 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:	3615.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3620.0 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 DRILLING
MUD TYPE : CHEMICAL
WEIGHT : 8.800 ppg
CHLORIDES : 10000 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 38.00 cp
WATER LOSS: 11.200 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 20 MINUTES ON INITIAL FLOW.
SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	10.0	10.0	0.0	80.0	OIL & GAS CUT MUD
330.0	50.0	10.0	0.0	40.0	MUDDY GASSY OIL
210.0	2.0	0.0	98.0	0.0	SL OIL CUT SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 90000 PPM

RATE INFORMATION

OIL VOLUME:	2.3036	STB	
GAS VOLUME:	3.0363	SCF	
MUD VOLUME:	2.5838	STB	
WATER VOLUME:	1.0120	STB	
TOTAL FLUID :	5.8993	STB	
			TOTAL FLOW TIME: 130.0000 min.
			AVERAGE OIL RATE: 54.1365 STB/D
			AVERAGE WATER RATE: 11.2100 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1812.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	155.00	188.00
INITIAL SHUT-IN	60.00		1096.00
FINAL FLOW	90.00	200.00	277.00
FINAL SHUT-IN	90.00		1063.00

FINAL HYDROSTATIC PRESSURE: 1713.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1748.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	162.00	171.00
INITIAL SHUT-IN	60.00		1090.00
FINAL FLOW	95.00	213.00	282.00
FINAL SHUT-IN	90.00		1061.00

FINAL HYDROSTATIC PRESSURE: 1702.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 8/13/95	TICKET : 22149
CUSTOMER : PICKRELL DRILLING CO INC	LEASE : RUNDELL
WELL : #C-1	GEOLOGIST: KLAVER
ELEVATION: 1828 KB	FORMATION:
SECTION : 12	TOWNSHIP : 25S
RANGE : 12W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: STAFFORD	
RANGE : 4425	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
25 MIN	MERLA	0.250	20" WATER	7510 SCF/D
30 MIN	MERLA	0.250	40" WATER	10600 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	0.750	12" WATER	49300 SCF/D
10 MIN	MERLA	0.750	2" WATER	20000 SCF/D
15 MIN	MERLA	0.500	10" WATER	19900 SCF/D
20 MIN	MERLA	0.500	10" WATER	19900 SCF/D
25 MIN	MERLA	0.500	8" WATER	17200 SCF/D
30 MIN	MERLA	0.500	5" WATER	14100 SCF/D
35 MIN	MERLA	0.500	5" WATER	14100 SCF/D
40 MIN	MERLA	0.500	3" WATER	10900 SCF/D
45 MIN	MERLA	0.500	3" WATER	10900 SCF/D
50 MIN	MERLA	0.500	3" WATER	10900 SCF/D
55 MIN	MERLA	0.500	3" WATER	10900 SCF/D
60 MIN	MERLA	0.500	3" WATER	10900 SCF/D
70 MIN	MERLA	0.500	3" WATER	10900 SCF/D
75 MIN	MERLA	0.500	3" WATER	10900 SCF/D
80 MIN	MERLA	0.500	3" WATER	10900 SCF/D
85 MIN	MERLA	0.500	3" WATER	10900 SCF/D
90 MIN	MERLA	0.500	3" WATER	10900 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8/13/95	TICKET	: 22149
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: RUNDELL
WELL	: #C-1	GEOLOGIST	: KLAVER
ELEVATION	: 1828 KB	FORMATION	:
SECTION	: 12	TOWNSHIP	: 25S
RANGE	: 12W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	COUNTY: STAFFORD		
	RANGE : 4425		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	162.00	162.00
5.00	162.00	0.00
10.00	153.00	-9.00
15.00	153.00	0.00
20.00	159.00	6.00
25.00	162.00	3.00
30.00	166.00	4.00
35.00	171.00	5.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	304.00	304.00	12.67
6.00	484.00	180.00	6.83
9.00	661.00	177.00	4.89
12.00	769.00	108.00	3.92
15.00	845.00	76.00	3.33
18.00	900.00	55.00	2.94
21.00	945.00	45.00	2.67
24.00	969.00	24.00	2.46
27.00	991.00	22.00	2.30
30.00	1012.00	21.00	2.17
33.00	1029.00	17.00	2.06
36.00	1040.00	11.00	1.97
39.00	1048.00	8.00	1.90
42.00	1056.00	8.00	1.83
45.00	1063.00	7.00	1.78
48.00	1070.00	7.00	1.73
51.00	1079.00	9.00	1.69
54.00	1084.00	5.00	1.65

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
57.00	1087.00	3.00	1.61
60.00	1090.00	3.00	1.58

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	213.00	213.00
5.00	213.00	0.00
10.00	213.00	0.00
15.00	213.00	0.00
20.00	215.00	2.00
25.00	217.00	2.00
30.00	218.00	1.00
35.00	222.00	4.00
40.00	229.00	7.00
45.00	235.00	6.00
50.00	241.00	6.00
55.00	246.00	5.00
60.00	251.00	5.00
65.00	255.00	4.00
70.00	260.00	5.00
75.00	265.00	5.00
80.00	273.00	8.00
85.00	278.00	5.00
90.00	280.00	2.00
95.00	282.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	530.00	530.00	32.67
6.00	692.00	162.00	16.83
9.00	774.00	82.00	11.56
12.00	838.00	64.00	8.92
15.00	877.00	39.00	7.33
18.00	905.00	28.00	6.28
21.00	926.00	21.00	5.52
24.00	947.00	21.00	4.96

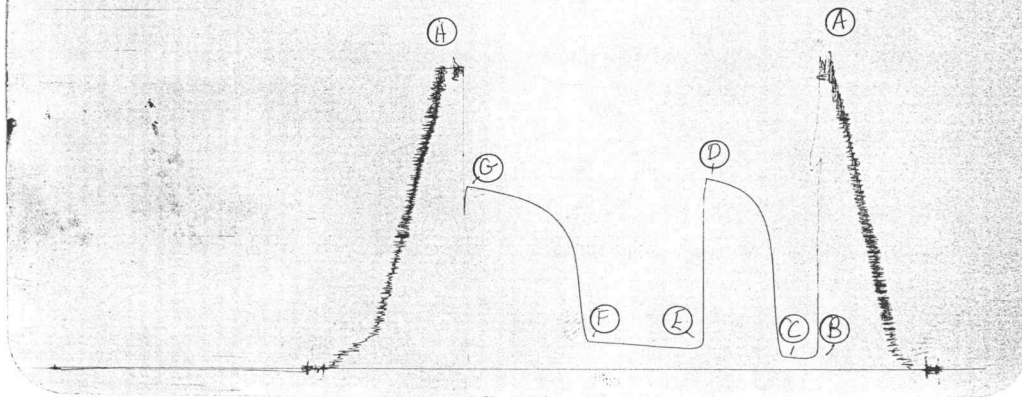
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
27.00	961.00	14.00	4.52
30.00	973.00	12.00	4.17
33.00	987.00	14.00	3.88
36.00	993.00	6.00	3.64
39.00	1002.00	9.00	3.44
42.00	1007.00	5.00	3.26
45.00	1012.00	5.00	3.11
48.00	1017.00	5.00	2.98
51.00	1029.00	12.00	2.86
54.00	1033.00	4.00	2.76
57.00	1036.00	3.00	2.67
60.00	1040.00	4.00	2.58
63.00	1043.00	3.00	2.51
66.00	1045.00	2.00	2.44
69.00	1047.00	2.00	2.38
72.00	1050.00	3.00	2.32
75.00	1053.00	3.00	2.27
78.00	1056.00	3.00	2.22
81.00	1058.00	2.00	2.17
84.00	1059.00	1.00	2.13
87.00	1060.00	1.00	2.09
90.00	1061.00	1.00	2.06

DST # 4
ROCKFORD
INSIDE

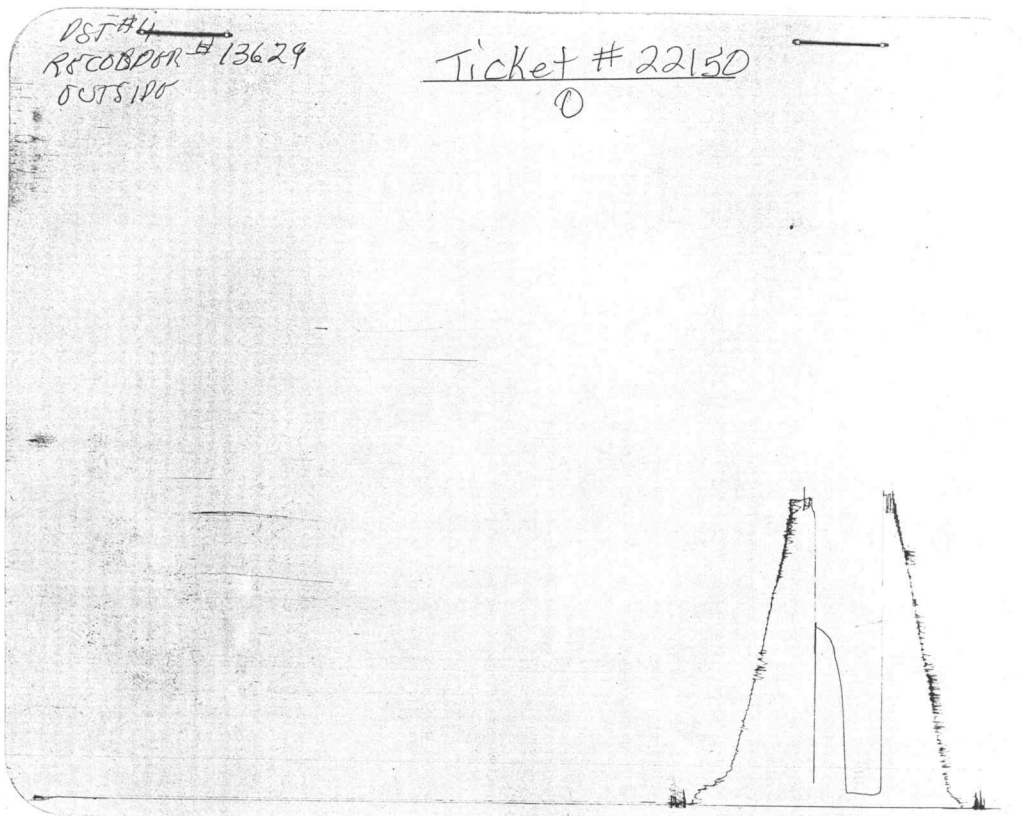
Ticket # 22150
I



Inside Recorder

DST # 4
ROCKFORD # 13629
OUTSIDE

Ticket # 22150
D



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 8-13-95	TICKET	: 22150
CUSTOMER	: PICKRELL DRILLING	LEASE	: RUNDELL "C"
WELL	: #1	TEST:	4
ELEVATION:	1828 KB	GEOLOGIST:	KLAVER
SECTION	: 12	FORMATION:	L KANSAS CITY "J"
RANGE	: 12W	TOWNSHIP	: 25
GAUGE SN#:	11018	STATE	: KS
		CLOCK	: 12
	COUNTY: STAFFORD		
	RANGE : 4425		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3696.00 ft	TO:	3720.00 ft	TVD:	3720.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3699.0 ft		3717.0 ft		
TEMPERATURE:	120.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3436.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	24.0 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:	3691.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3696.0 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 DRILLING	VISCOSITY :	40.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.000 cc
WEIGHT :	8.900 ppg		
CHLORIDES :	10000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW BOTTOM OF BUCKET
IN 12 MINUTES. WEAK SHUT-IN BLOWBACK.
FINAL FLOW PERIOD-STRONG BLOW BOTTOM OF BUCKET IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

40 MINUTES. NO BLOWBACK.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	700FT GAS ABOVE FLUID
70.0	20.0	15.0	10.0	55.0	OIL & GAS CUT WATERY MUD
240.0	0.0	0.0	100.0	0.0	WATER WITH SCUM OF OIL-
0.0	0.0	0.0	0.0	0.0	LESS THAN 1% OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 60,000 PPM

RATE INFORMATION

OIL VOLUME: 0.1964 STB
 GAS VOLUME: 0.8270 SCF
 MUD VOLUME: 0.5400 STB
 WATER VOLUME: 1.2784 STB
 TOTAL FLUID : 2.0148 STB

TOTAL FLOW TIME: 110.0000 min.
 AVERAGE OIL RATE: 7.2835 STB/D
 AVERAGE WATER RATE: 19.0916 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1730.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	58.00
INITIAL SHUT-IN	60.00		1090.00
FINAL FLOW	90.00	104.00	146.00
FINAL SHUT-IN	90.00		1040.00

FINAL HYDROSTATIC PRESSURE: 1702.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1748.00

Description	Duration	p1	p End
INITIAL FLOW	25.00	94.00	79.00
INITIAL SHUT-IN	57.00		1104.00
FINAL FLOW	85.00	140.00	166.00
FINAL SHUT-IN	87.00		1059.00

FINAL HYDROSTATIC PRESSURE: 1700.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-13-95	TICKET : 22150
CUSTOMER : PICKRELL DRILLING	LEASE : RUNDELL "C"
WELL : #1	GEOLOGIST: KLAVER
ELEVATION: 1828 KB	FORMATION: L KANSAS CITY "J"
SECTION : 12	TOWNSHIP : 25
RANGE : 12W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
TEST: 4	
COUNTY: STAFFORD	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	94.00	94.00
5.00	73.00	-21.00
10.00	71.00	-2.00
15.00	71.00	0.00
20.00	75.00	4.00
25.00	79.00	4.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	205.00	205.00	9.33
6.00	502.00	297.00	5.17
9.00	725.00	223.00	3.78
12.00	808.00	83.00	3.08
15.00	878.00	70.00	2.67
18.00	926.00	48.00	2.39
21.00	960.00	34.00	2.19
24.00	887.00	-73.00	2.04
27.00	1010.00	123.00	1.93
30.00	1025.00	15.00	1.83
33.00	1041.00	16.00	1.76
36.00	1050.00	9.00	1.69
39.00	1063.00	13.00	1.64
42.00	1071.00	8.00	1.60
45.00	1079.00	8.00	1.56
48.00	1087.00	8.00	1.52
51.00	1092.00	5.00	1.49
54.00	1099.00	7.00	1.46
57.00	1104.00	5.00	1.44

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	140.00	140.00
5.00	128.00	-12.00
10.00	128.00	0.00
15.00	128.00	0.00
20.00	131.00	3.00
25.00	134.00	3.00
30.00	135.00	1.00
35.00	139.00	4.00
40.00	142.00	3.00
45.00	145.00	3.00
50.00	149.00	4.00
55.00	153.00	4.00
60.00	154.00	1.00
65.00	157.00	3.00
70.00	160.00	3.00
75.00	162.00	2.00
80.00	164.00	2.00
85.00	166.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	291.00	291.00	29.33
6.00	533.00	242.00	15.17
9.00	673.00	140.00	10.44
12.00	737.00	64.00	8.08
15.00	788.00	51.00	6.67
18.00	822.00	34.00	5.72
21.00	851.00	29.00	5.05
24.00	876.00	25.00	4.54
27.00	898.00	22.00	4.15
30.00	917.00	19.00	3.83
33.00	932.00	15.00	3.58
36.00	945.00	13.00	3.36
39.00	957.00	12.00	3.18
42.00	969.00	12.00	3.02
45.00	977.00	8.00	2.89
48.00	986.00	9.00	2.77
51.00	994.00	8.00	2.67
54.00	1001.00	7.00	2.57
57.00	1007.00	6.00	2.49
60.00	1013.00	6.00	2.42

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
63.00	1018.00	5.00	2.35
66.00	1026.00	8.00	2.29
69.00	1030.00	4.00	2.23
72.00	1035.00	5.00	2.18
75.00	1041.00	6.00	2.13
78.00	1047.00	6.00	2.09
81.00	1051.00	4.00	2.05
84.00	1054.00	3.00	2.01
87.00	1059.00	5.00	1.98

DST REPORT

GENERAL INFORMATION

DATE	: 8-14-95	TICKET	: 21076
CUSTOMER	: PICKRELL DRILLING	LEASE	: RUNDELL "C"
WELL	: #1	TEST: 5	GEOLOGIST: KLAVER
ELEVATION	: 1828 KB	FORMATION	: VIOLA
SECTION	: 12	TOWNSHIP	: 25
RANGE	: 12W	COUNTY: STAFFORD	STATE : KS
GAUGE SN#	: 11018	RANGE : 4425	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3913.00 ft	TO:	3920.00 ft	TVD:	3920.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3903.0 ft		3917.0 ft		
TEMPERATURE:	118.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3649.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	24.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	7.0 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:	3908.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3913.0 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 DRILLING	VISCOSITY :	39.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	19.000 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	19000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BLOW 1 INCH DECREASING
& THEN DEAD IN 17 MINUTES.
FINAL FLOW PERIOD-NO BLOW-FLUSHED TOOL & RECOVERED

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

WEAK BLOW-DEAD IN 16 MINUTES.
TOOL SLID 4FT TO BOTTOM WHEN OPENED.
SEVERE PLUGGING ON INITIAL FLOW AND SHUT-IN.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
80.0	0.0	0.0	0.0	100.0	DRILLING MUD

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:	0.3934	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.3934	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1860.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	124.00	150.00
INITIAL SHUT-IN	60.00		0.00
FINAL FLOW	30.00	34.00	38.00
FINAL SHUT-IN	60.00		760.00

FINAL HYDROSTATIC PRESSURE: 1830.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1894.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	108.00	61.00
INITIAL SHUT-IN	54.00		1130.00
FINAL FLOW	30.00	57.00	55.00
FINAL SHUT-IN	60.00		778.00

FINAL HYDROSTATIC PRESSURE: 1852.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-14-95	TICKET : 21076
CUSTOMER : PICKRELL DRILLING	LEASE : RUNDELL "C"
WELL : #1	GEOLOGIST: KLAVER
ELEVATION: 1828 KB	FORMATION: VIOLA
SECTION : 12	TOWNSHIP : 25
RANGE : 12W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
TEST: 5	
COUNTY: STAFFORD	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	108.00	108.00
5.00	111.00	3.00
10.00	223.00	112.00
15.00	249.00	26.00
20.00	22.00	-227.00
25.00	899.00	877.00
30.00	61.00	-838.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	761.00	761.00	0.00
6.00	903.00	142.00	0.00
9.00	925.00	22.00	0.00
12.00	842.00	-83.00	0.00
15.00	1061.00	219.00	0.00
18.00	1097.00	36.00	0.00
21.00	1156.00	59.00	0.00
24.00	1249.00	93.00	0.00
27.00	1242.00	-7.00	0.00
30.00	1237.00	-5.00	0.00
33.00	1229.00	-8.00	0.00
36.00	1210.00	-19.00	0.00
39.00	1198.00	-12.00	0.00
42.00	1187.00	-11.00	0.00
45.00	1178.00	-9.00	0.00
48.00	1149.00	-29.00	0.00
51.00	1141.00	-8.00	0.00
54.00	1130.00	-11.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

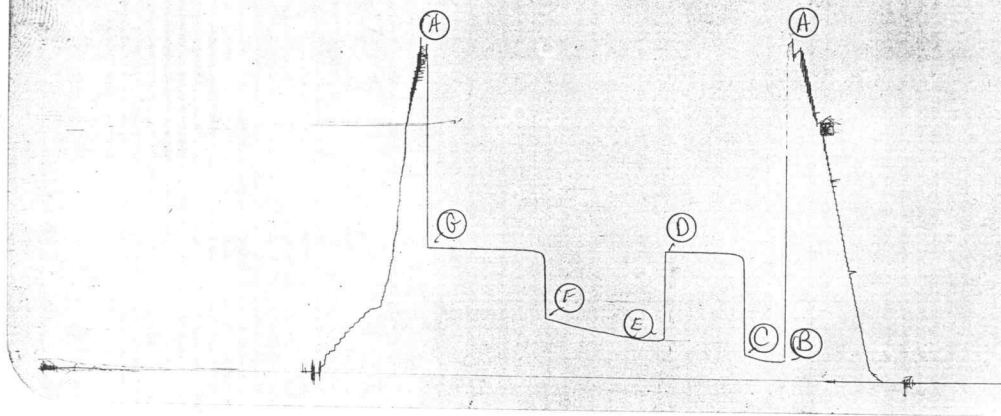
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	57.00	57.00
5.00	57.00	0.00
10.00	57.00	0.00
15.00	52.00	-5.00
20.00	52.00	0.00
25.00	53.00	1.00
30.00	55.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	351.00	351.00	0.00
6.00	747.00	396.00	0.00
9.00	761.00	14.00	0.00
12.00	765.00	4.00	0.00
15.00	773.00	8.00	0.00
18.00	774.00	1.00	0.00
21.00	775.00	1.00	0.00
24.00	776.00	1.00	0.00
27.00	777.00	1.00	0.00
30.00	778.00	1.00	0.00
33.00	778.00	0.00	0.00
36.00	778.00	0.00	0.00
39.00	778.00	0.00	0.00
42.00	778.00	0.00	0.00
45.00	778.00	0.00	0.00
48.00	778.00	0.00	0.00
51.00	778.00	0.00	0.00
54.00	778.00	0.00	0.00
57.00	778.00	0.00	0.00
60.00	778.00	0.00	0.00

11018
DST#6
INSIDE

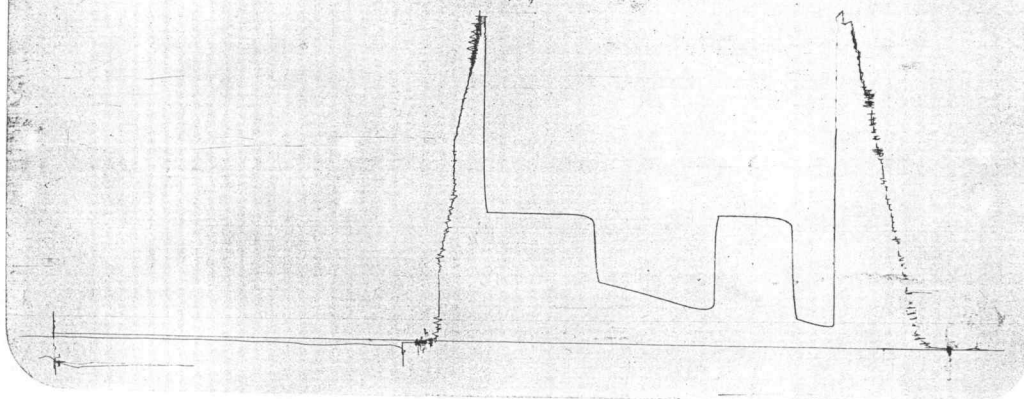
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Inside Recorder

13627
DST#6

Ticket # 21077
O



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 8-15-95	TICKET	: 21077
CUSTOMER	: PICKRELL DRILLING	LEASE	: RUNDELL "C"
WELL	: #1	TEST: 6	GEOLOGIST: KLAVER
ELEVATION	: 1828 KB	FORMATION	: VIOLA
SECTION	: 12	TOWNSHIP	: 25
RANGE	: 12W	COUNTY: STAFFORD	STATE : KS
GAUGE SN#	: 11018	RANGE : 4425	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3815.00 ft	TO:	3920.00 ft	TVD:	3920.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3840.0 ft		3843.0 ft		
TEMPERATURE:	118.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH:	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH:	3555.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH:	20.0 ft	TOOL SIZE:		5.500 in	
ANCHOR LENGTH:	105.0 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:	3810.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3815.0 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 DRILLING	VISCOSITY:	39.00 cp
MUD TYPE:	CHEMICAL	WATER LOSS:	19.000 cc
WEIGHT:	9.000 ppg	SERIAL NUMBER:	
CHLORIDES:	19000 ppm	REVERSED OUT?:	NO
JARS-MAKE:			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW OFF BOTTOM OF
BUCKET IN 14 MINUTES.
FINAL FLOW PERIOD-STRONG BLOW OFF BOTTOM OF BUCKET

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IN 14 MINUTES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	60FT GAS ABOVE FLUID
105.0	10.0	10.0	0.0	80.0	SLIGHT OIL & GAS CUT MUD
300.0	10.0	10.0	30.0	50.0	SLIGHT OIL & GAS CUT MUD
300.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 55,000 PPM

RATE INFORMATION

OIL VOLUME: 0.5681 STB
 GAS VOLUME: 3.1897 SCF
 MUD VOLUME: 3.2822 STB
 WATER VOLUME: 3.2841 STB
 TOTAL FLUID : 7.1344 STB

TOTAL FLOW TIME: 120.0000 min.
 AVERAGE OIL RATE: 27.2672 STB/D
 AVERAGE WATER RATE: 58.3454 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1892.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	100.00	145.00
INITIAL SHUT-IN	60.00		713.00
FINAL FLOW	90.00	212.00	312.00
FINAL SHUT-IN	90.00		713.00

FINAL HYDROSTATIC PRESSURE: 1892.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1914.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	140.00
INITIAL SHUT-IN	60.00		734.00
FINAL FLOW	90.00	220.00	334.00
FINAL SHUT-IN	90.00		736.00

FINAL HYDROSTATIC PRESSURE: 1896.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8-15-95	TICKET	: 21077
CUSTOMER	: PICKRELL DRILLING	LEASE	: RUNDELL "C"
WELL	: #1	TEST:	6
ELEVATION	: 1828 KB	GEOLOGIST	: KLAVER
SECTION	: 12	FORMATION	: VIOLA
RANGE	: 12W	TOWNSHIP	: 25
GAUGE SN#	: 11018	STATE	: KS
		CLOCK	: 12
		COUNTY	: STAFFORD
		RANGE	: 4425

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	107.00	107.00
5.00	111.00	4.00
10.00	113.00	2.00
15.00	117.00	4.00
20.00	126.00	9.00
25.00	136.00	10.00
30.00	140.00	4.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	706.00	706.00	11.00
6.00	721.00	15.00	6.00
9.00	726.00	5.00	4.33
12.00	730.00	4.00	3.50
15.00	733.00	3.00	3.00
18.00	734.00	1.00	2.67
21.00	734.00	0.00	2.43
24.00	734.00	0.00	2.25
27.00	734.00	0.00	2.11
30.00	734.00	0.00	2.00
33.00	734.00	0.00	1.91
36.00	734.00	0.00	1.83
39.00	734.00	0.00	1.77
42.00	734.00	0.00	1.71
45.00	734.00	0.00	1.67
48.00	734.00	0.00	1.63
51.00	734.00	0.00	1.59
54.00	734.00	0.00	1.56
57.00	734.00	0.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	734.00	0.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	220.00	220.00
5.00	222.00	2.00
10.00	223.00	1.00
15.00	225.00	2.00
20.00	226.00	1.00
25.00	234.00	8.00
30.00	243.00	9.00
35.00	250.00	7.00
40.00	256.00	6.00
45.00	265.00	9.00
50.00	272.00	7.00
55.00	277.00	5.00
60.00	284.00	7.00
65.00	293.00	9.00
70.00	302.00	9.00
75.00	311.00	9.00
80.00	322.00	11.00
85.00	331.00	9.00
90.00	334.00	3.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	706.00	706.00	31.00
6.00	722.00	16.00	16.00
9.00	729.00	7.00	11.00
12.00	733.00	4.00	8.50
15.00	734.00	1.00	7.00
18.00	736.00	2.00	6.00
21.00	736.00	0.00	5.29
24.00	736.00	0.00	4.75
27.00	736.00	0.00	4.33
30.00	736.00	0.00	4.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	736.00	0.00	3.73
36.00	736.00	0.00	3.50
39.00	735.00	-1.00	3.31
42.00	735.00	0.00	3.14
45.00	735.00	0.00	3.00
48.00	735.00	0.00	2.88
51.00	735.00	0.00	2.76
54.00	735.00	0.00	2.67
57.00	735.00	0.00	2.58
60.00	735.00	0.00	2.50
63.00	735.00	0.00	2.43
66.00	735.00	0.00	2.36
69.00	735.00	0.00	2.30
72.00	735.00	0.00	2.25
75.00	735.00	0.00	2.20
78.00	736.00	1.00	2.15
81.00	736.00	0.00	2.11
84.00	736.00	0.00	2.07
87.00	736.00	0.00	2.03
90.00	736.00	0.00	2.00