DST REPORT

GENERAL INFORMATION

DATE	: 11/18/94	TICKET	: 20680
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 1	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: KANSAS CITY 120 FT
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4020.00 ft TO: 4040.00 ft TVD: 4040.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4012.0 ft 4017.0 ft
TEMPERATURE: 117.0

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 :	4000.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 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:	4015.0 ft	SIZE:	6.625 in
PACKER DEPTH:	4020.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: WHITE & ELLIS RIG #9		
MUD TYPE	: CHEMICAL	VISCOSITY :	42.00 cp
WEIGHT	: 9.400 ppg	WATER LOSS:	11.200 cc
CHLORIDES	: 6000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?	: NO

COMMENTS

Comment

INITIAL FLOW: GOOD BLOW, BUILDING THROUGHOUT, 8 INCHES AT END, NO BLOWBACK. FINAL FLOW: STRONG BLOW, BOTTOM OF BUCKET IN 10 MINUTES, NO BLOWBACK.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	500 FEET GAS ABOVE FLUID
45.0	25.0	15.0	0.0	60.0	OIL & GAS CUT MUD

RATE INFORMATION

OIL VOLUME: 0.1578 STB
GAS VOLUME: 0.5316 SCF
MUD VOLUME: 0.3787 STB
WATER VOLUME: 0.0000 STB
TOTAL FLUID : 0.5365 STB

TOTAL FLOW TIME: 75.0000 min.
AVERAGE OIL RATE: 10.3010 STB/D
AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1944.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	35.00
INITIAL SHUT-IN	45.00		434.00
FINAL FLOW	45.00	46.00	46.00
FINAL SHUT-IN	60.00		438.00

FINAL HYDROSTATIC PRESSURE: 1916.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2004.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	43.00	44.00
INITIAL SHUT-IN	42.00		439.00
FINAL FLOW	45.00	52.00	52.00
FINAL SHUT-IN	66.00		449.00

FINAL HYDROSTATIC PRESSURE: 1954.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/18/94
CUSTOMER : DUNNE OIL COMPANY
WELL : #2-15 TEST: 1
ELEVATION: 2605KB
SECTION : 15
RANGE : 27W COUNTY: LANE
GAUGE SN#: 11018 RANGE : 4425

TICKET : 20680
LEASE : BROUGHTON
GEOLOGIST: OATSDEAN
FORMATION: KANSAS CITY 120 FT
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	43.00	43.00
5.00	43.00	0.00
10.00	43.00	0.00
15.00	43.00	0.00
20.00	44.00	1.00
25.00	44.00	0.00
30.00	44.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	63.00	63.00	11.00
6.00	87.00	24.00	6.00
9.00	118.00	31.00	4.33
12.00	153.00	35.00	3.50
15.00	179.00	26.00	3.00
18.00	214.00	35.00	2.67
21.00	260.00	46.00	2.43
24.00	308.00	48.00	2.25
27.00	350.00	42.00	2.11
30.00	379.00	29.00	2.00
33.00	400.00	21.00	1.91
36.00	419.00	19.00	1.83
39.00	430.00	11.00	1.77
42.00	439.00	9.00	1.71

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	52.00	52.00
5.00	52.00	0.00
10.00	52.00	0.00
15.00	52.00	0.00
20.00	52.00	0.00
25.00	52.00	0.00
30.00	52.00	0.00
35.00	52.00	0.00
40.00	52.00	0.00
45.00	52.00	0.00

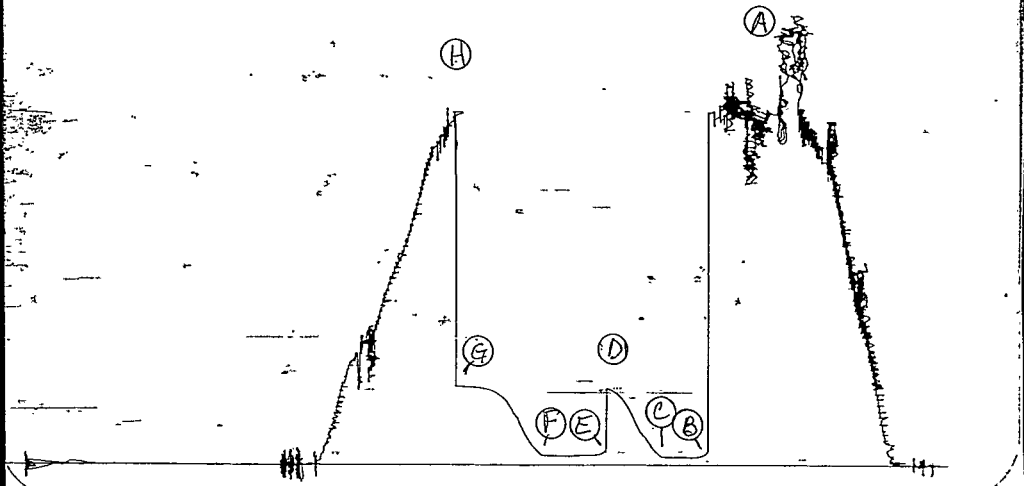
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	65.00	65.00	16.00
6.00	89.00	24.00	8.50
9.00	120.00	31.00	6.00
12.00	150.00	30.00	4.75
15.00	195.00	45.00	4.00
18.00	240.00	45.00	3.50
21.00	273.00	33.00	3.14
24.00	306.00	33.00	2.88
27.00	341.00	35.00	2.67
30.00	376.00	35.00	2.50
33.00	393.00	17.00	2.36
36.00	410.00	17.00	2.25
39.00	420.00	10.00	2.15
42.00	429.00	9.00	2.07
45.00	434.00	5.00	2.00
48.00	439.00	5.00	1.94
51.00	442.00	3.00	1.88
54.00	445.00	3.00	1.83
57.00	447.00	2.00	1.79
60.00	448.00	1.00	1.75
63.00	449.00	1.00	1.71
66.00	449.00	0.00	1.68

DST #1 Loc #11018

Ticket # 20680

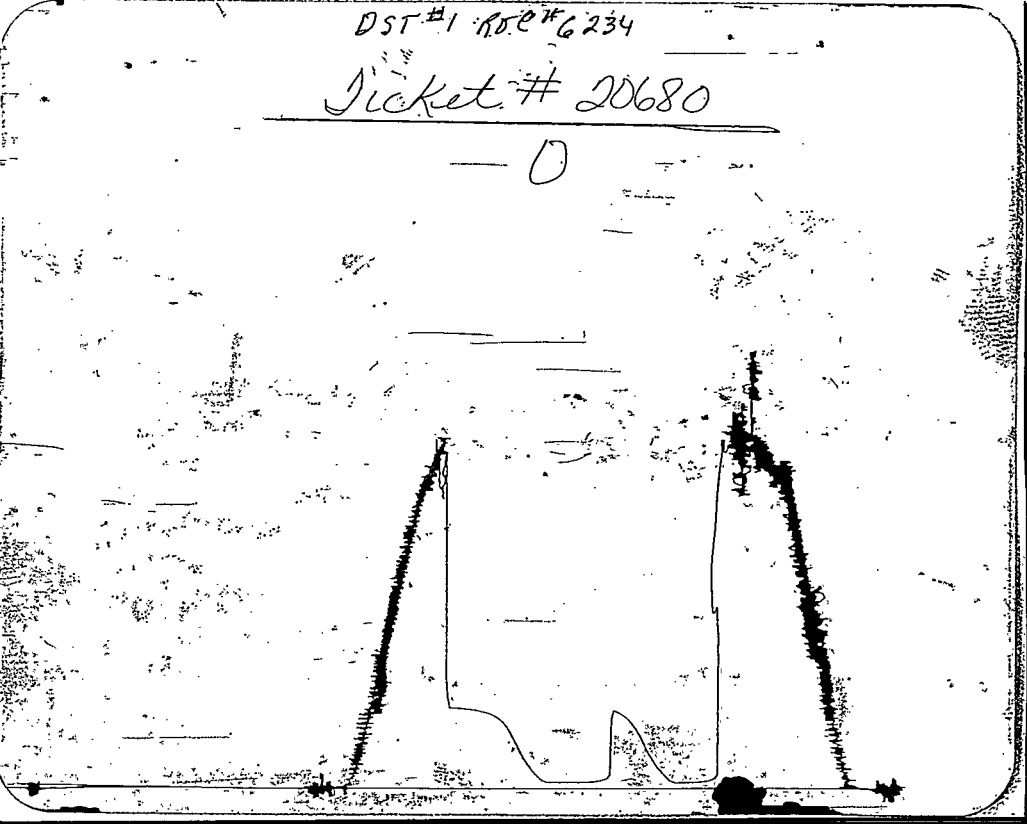
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DST #1 Roe #6234

Ticket # 20680

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DST REPORT

GENERAL INFORMATION

DATE	: 11/18/94	TICKET	: 20681
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 2	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: KANSAS CITY 160 FT
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4050.00 ft TO: 4080.00 ft TVD: 4080.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4043.0 ft 4077.0 ft
TEMPERATURE: 117.0

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 :	4030.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	30.0 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:	4045.0 ft	SIZE:	6.625 in
PACKER DEPTH:	4050.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: WHITE & ELLIS RIG #9		
MUD TYPE	: CHEMICAL	VISCOSITY :	45.00 cp
WEIGHT	: 9.200 ppg	WATER LOSS:	9.600 cc
CHLORIDES	: 4000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW: FAIR BLOW: 3 INCHES.
FINAL FLOW: STRONG BLOW, BOTTOM OF BUCKET IN
2 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	270 FEET GAS ABOVE FLUID
30.0	25.0	5.0	0.0	70.0	OIL & GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.1052 STB		
GAS VOLUME:	0.1181 SCF	TOTAL FLOW TIME:	80.0000 min.
MUD VOLUME:	0.2946 STB	AVERAGE OIL RATE:	7.1955 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.3998 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1980.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	34.00	34.00
INITIAL SHUT-IN	45.00		610.00
FINAL FLOW	45.00	45.00	45.00
FINAL SHUT-IN	60.00		1041.00

FINAL HYDROSTATIC PRESSURE: 1956.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1999.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	42.00	42.00
INITIAL SHUT-IN	42.00		622.00
FINAL FLOW	45.00	42.00	42.00
FINAL SHUT-IN	57.00		1045.00

FINAL HYDROSTATIC PRESSURE: 1963.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 11/18/94	TICKET	: 20681
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 2	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: KANSAS CITY 160 FT
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00
35.00	42.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	48.00	48.00	12.67
6.00	61.00	13.00	6.83
9.00	90.00	29.00	4.89
12.00	113.00	23.00	3.92
15.00	134.00	21.00	3.33
18.00	163.00	29.00	2.94
21.00	197.00	34.00	2.67
24.00	234.00	37.00	2.46
27.00	271.00	37.00	2.30
30.00	324.00	53.00	2.17
33.00	382.00	58.00	2.06
36.00	461.00	79.00	1.97
39.00	566.00	105.00	1.90
42.00	622.00	56.00	1.83

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00
35.00	42.00	0.00
40.00	42.00	0.00
45.00	42.00	0.00

FINAL SHUT IN

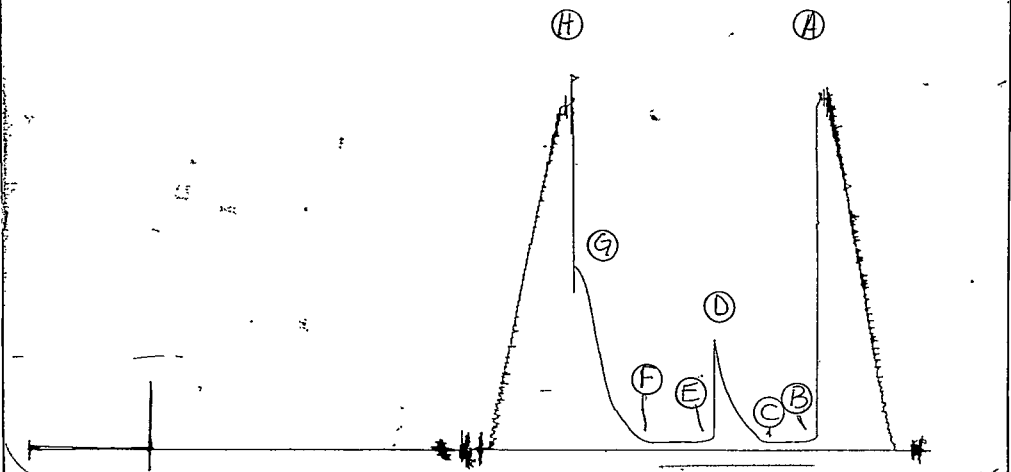
Time (min)	Pressure	Delta P	Horner T
3.00	54.00	54.00	16.00
6.00	68.00	14.00	8.50
9.00	84.00	16.00	6.00
12.00	109.00	25.00	4.75
15.00	138.00	29.00	4.00
18.00	168.00	30.00	3.50
21.00	198.00	30.00	3.14
24.00	228.00	30.00	2.88
27.00	262.00	34.00	2.67
30.00	348.00	86.00	2.50
33.00	423.00	75.00	2.36
36.00	539.00	116.00	2.25
39.00	626.00	87.00	2.15
42.00	754.00	128.00	2.07
45.00	882.00	128.00	2.00
48.00	956.00	74.00	1.94
51.00	1016.00	60.00	1.88
54.00	1030.00	14.00	1.83
57.00	1045.00	15.00	1.79

DST #2 Rock #1103

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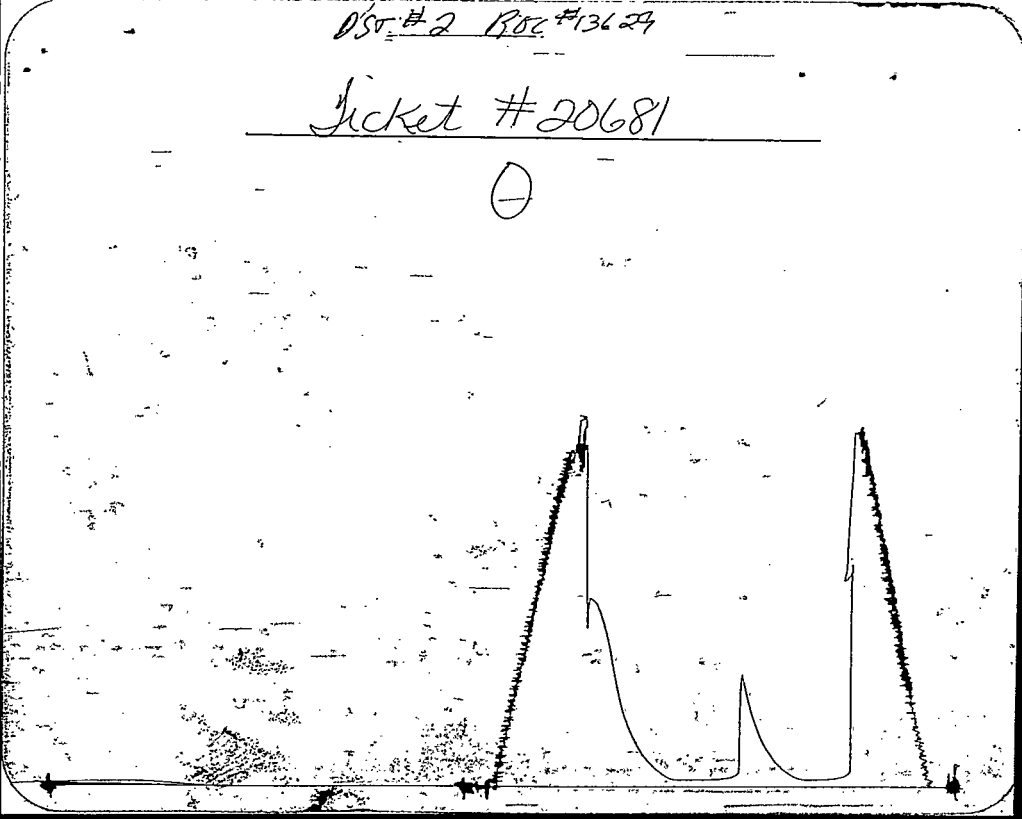
Ticket # 20681

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DST #2 Rec #13629

Ticket #20681



DST REPORT

GENERAL INFORMATION

DATE	: 11/19/94	TICKET	: 20682
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 3	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605 KB	FORMATION	: KANSAS CITY 180'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4080.00 ft TO: 4110.00 ft TVD: 4110.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4083.0 ft 4107.0 ft
TEMPERATURE: 119.0

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 :	4060.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	30.0 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:	4075.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4080.0 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.	: WHITE & ELLIS RIG 9		
MUD TYPE	: CHEMICAL	VISCOSITY :	45.00 cp
WEIGHT	: 9.200 ppg	WATER LOSS:	9.500 cc
CHLORIDES	: 4000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD GOOD BLOW - 6 INCHES.
FINAL FLOW PERIOD FAIR BLOW - 4 INCHES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	400 FT GAS ABOVE FLUID
110.0	30.0	10.0	0.0	60.0	GAS & OIL CUT MUD
40.0	25.0	10.0	20.0	45.0	OIL & GAS CUT WATERY MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 25000 PPM

RATE INFORMATION

OIL VOLUME: 0.6031 STB
GAS VOLUME: 1.1814 SCF
MUD VOLUME: 1.1782 STB
WATER VOLUME: 0.1122 STB
TOTAL FLUID : 1.8936 STB

TOTAL FLOW TIME: 75.0000 min.
AVERAGE OIL RATE: 32.0474 STB/D
AVERAGE WATER RATE: 4.3089 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2044.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	44.00	53.00
INITIAL SHUT-IN	45.00		654.00
FINAL FLOW	45.00	58.00	72.00
FINAL SHUT-IN	60.00		648.00

FINAL HYDROSTATIC PRESSURE: 1980.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2044.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	88.00	67.00
INITIAL SHUT-IN	45.00		671.00
FINAL FLOW	45.00	120.00	90.00
FINAL SHUT-IN	60.00		664.00

FINAL HYDROSTATIC PRESSURE: 1994.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 11/19/94	TICKET	: 20682
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 3	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605 KB	FORMATION	: KANSAS CITY 180'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	88.00	88.00
5.00	64.00	-24.00
10.00	64.00	0.00
15.00	66.00	2.00
20.00	66.00	0.00
25.00	67.00	1.00
30.00	67.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	158.00	158.00	0.00
6.00	482.00	324.00	0.00
9.00	590.00	108.00	0.00
12.00	618.00	28.00	0.00
15.00	632.00	14.00	0.00
18.00	646.00	14.00	0.00
21.00	654.00	8.00	0.00
24.00	657.00	3.00	0.00
27.00	661.00	4.00	0.00
30.00	665.00	4.00	0.00
33.00	668.00	3.00	0.00
36.00	669.00	1.00	0.00
39.00	670.00	1.00	0.00
42.00	670.00	0.00	0.00
45.00	671.00	1.00	0.00

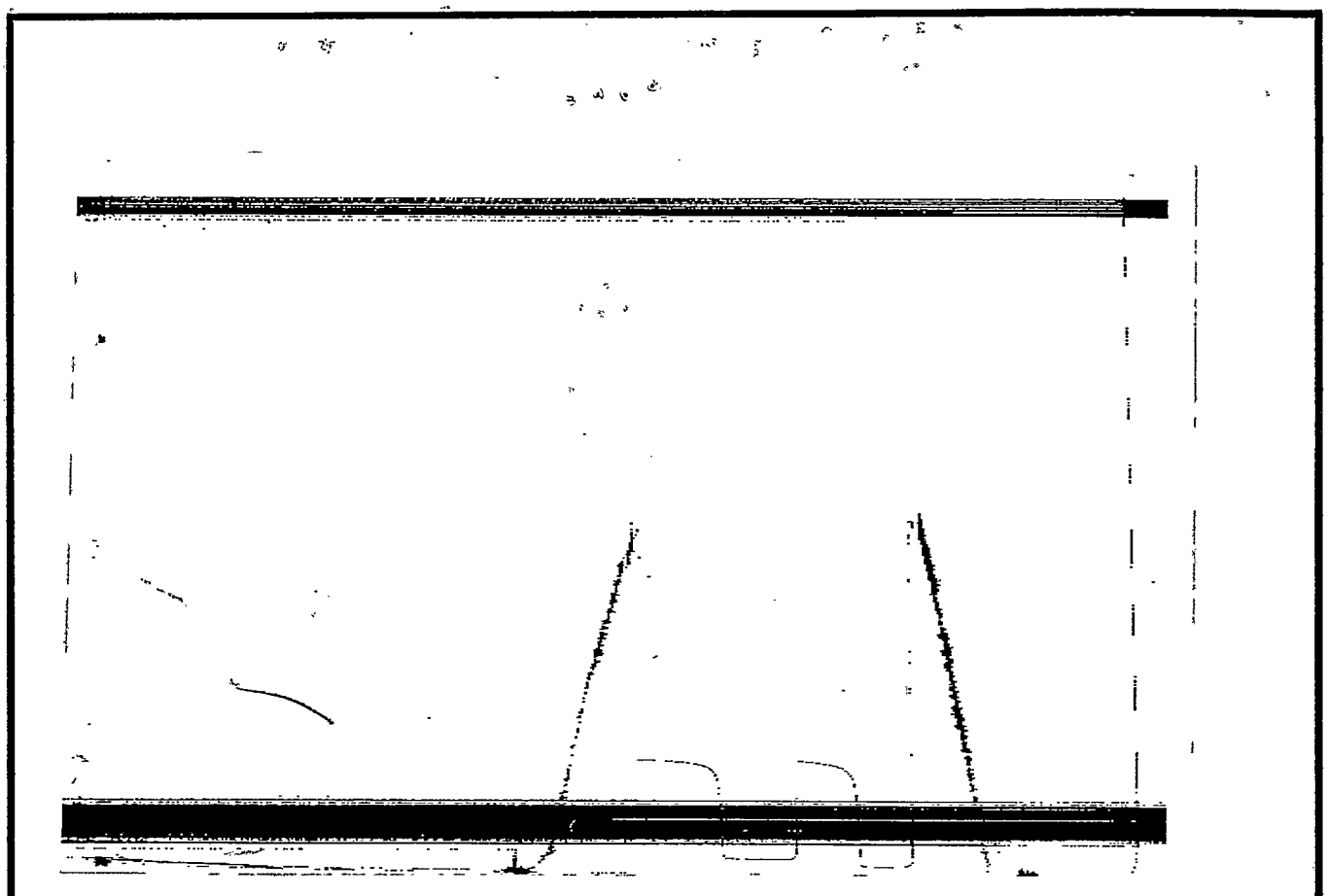
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

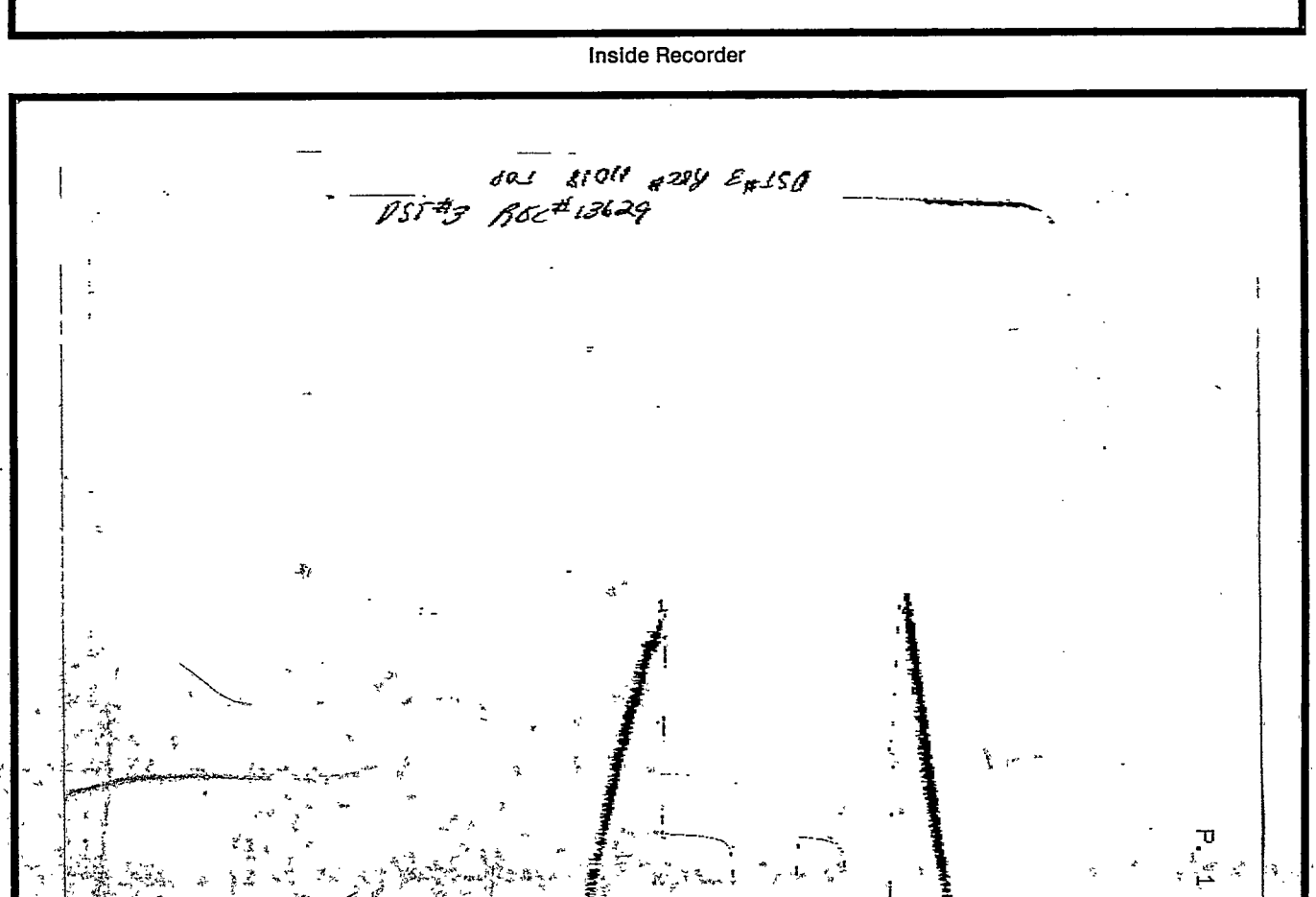
Time (min)	Pressure	Delta P
0.00	120.00	120.00
5.00	89.00	-31.00
10.00	87.00	-2.00
15.00	87.00	0.00
20.00	88.00	1.00
25.00	88.00	0.00
30.00	89.00	1.00
35.00	89.00	0.00
40.00	90.00	1.00
45.00	90.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	184.00	184.00	0.00
6.00	426.00	242.00	0.00
9.00	580.00	154.00	0.00
12.00	610.00	30.00	0.00
15.00	630.00	20.00	0.00
18.00	637.00	7.00	0.00
21.00	641.00	4.00	0.00
24.00	645.00	4.00	0.00
27.00	648.00	3.00	0.00
30.00	651.00	3.00	0.00
33.00	653.00	2.00	0.00
36.00	655.00	2.00	0.00
39.00	658.00	3.00	0.00
42.00	661.00	3.00	0.00
45.00	663.00	2.00	0.00
48.00	663.00	0.00	0.00
51.00	663.00	0.00	0.00
54.00	663.00	0.00	0.00
57.00	664.00	1.00	0.00
60.00	664.00	0.00	0.00



Inside Recorder

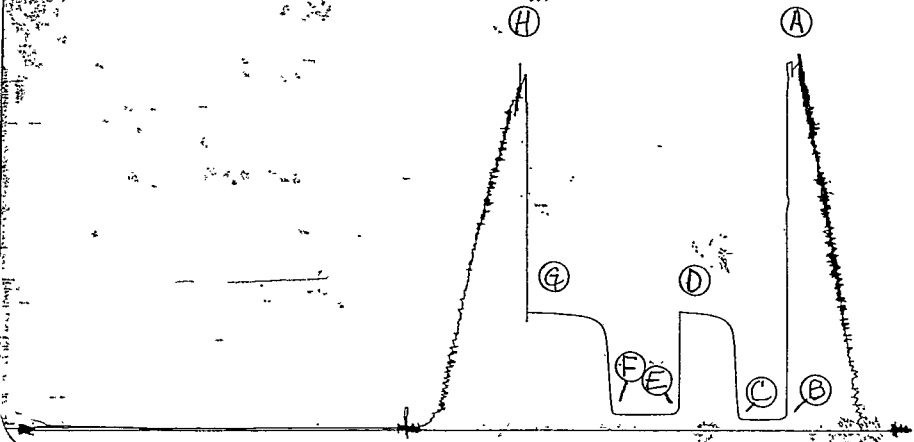


Outside Recorder

DST#3 Roc# 11018 TOP

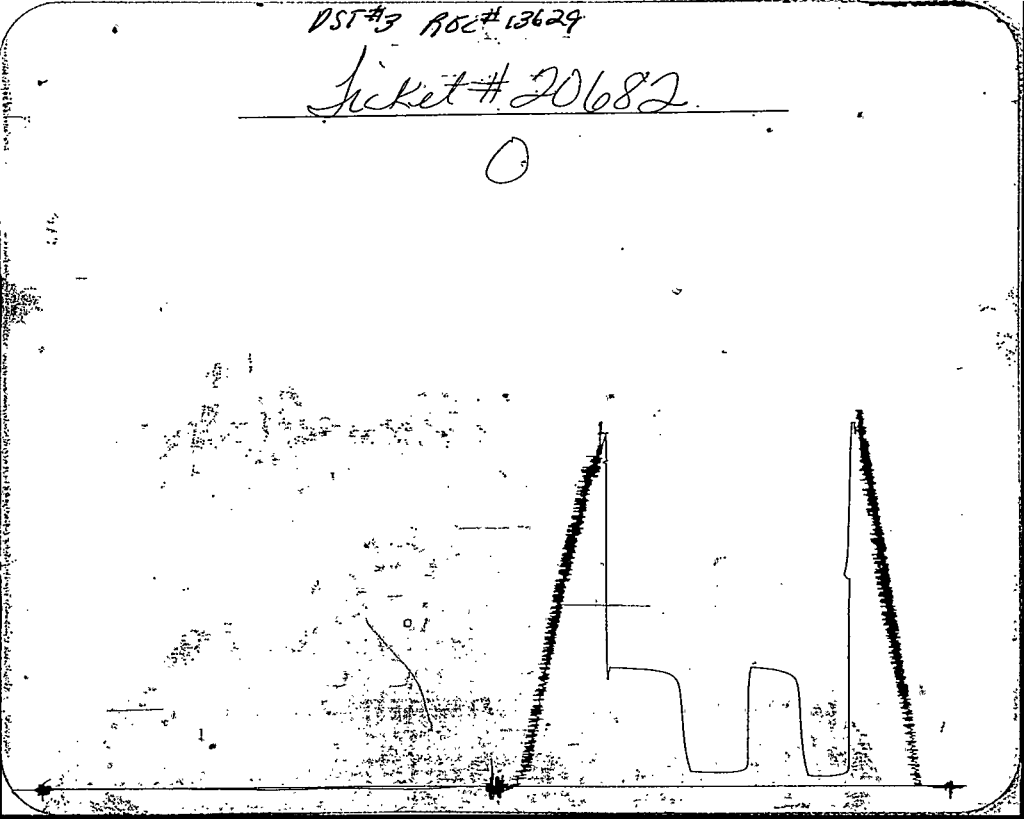
Ticket #20687

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DST #3 ROC #13629

Ticket #20682



DST REPORT

GENERAL INFORMATION

DATE	: 11/20/94	TICKET	: 20683
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 4	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605 KB	FORMATION	: L KANSAS CITY 200'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4120.00 ft TO: 4140.00 ft TVD: 4140.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4123.0 ft 4137.0 ft
TEMPERATURE: 118.0

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 :	4100.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 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:	4115.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4120.0 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.	: WHITE & ELLIS RIG 9		
MUD TYPE	: CHEMICAL	VISCOSITY :	45.00 cp
WEIGHT	: 9.200 ppg	WATER LOSS:	9.500 cc
CHLORIDES	: 4000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?	: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW BOTTOM OF BUCKET IN 12 MINUTES. FINAL FLOW PERIOD STRONG BLOW BOTTOM OF BUCKET IN 10 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	1200 FT GAS ABOVE FLUID
140.0	40.0	30.0	0.0	30.0	MUDDY GASSY OIL
30.0	15.0	10.0	40.0	35.0	GAS & OIL CUT MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45000 PPM

RATE INFORMATION

OIL VOLUME:	0.8486 STB		
GAS VOLUME:	3.5441 SCF	TOTAL FLOW TIME:	75.0000 min.
MUD VOLUME:	0.7364 STB	AVERAGE OIL RATE:	28.3751 STB/D
WATER VOLUME:	0.1683 STB	AVERAGE WATER RATE:	5.2882 STB/D
TOTAL FLUID :	1.7533 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2055.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	45.00
INITIAL SHUT-IN	45.00		1063.00
FINAL FLOW	45.00	66.00	78.00
FINAL SHUT-IN	60.00		1046.00

FINAL HYDROSTATIC PRESSURE: 2020.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2052.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	83.00	58.00
INITIAL SHUT-IN	45.00		1071.00
FINAL FLOW	45.00	108.00	106.00
FINAL SHUT-IN	60.00		1050.00

FINAL HYDROSTATIC PRESSURE: 2024.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 11/20/94	TICKET	: 20683
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 4	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605 KB	FORMATION	: L KANSAS CITY 200'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	83.00	83.00
5.00	55.00	-28.00
10.00	55.00	0.00
15.00	55.00	0.00
20.00	56.00	1.00
25.00	57.00	1.00
30.00	58.00	1.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	344.00	344.00	0.00
6.00	842.00	498.00	0.00
9.00	945.00	103.00	0.00
12.00	986.00	41.00	0.00
15.00	1003.00	17.00	0.00
18.00	1020.00	17.00	0.00
21.00	1030.00	10.00	0.00
24.00	1041.00	11.00	0.00
27.00	1048.00	7.00	0.00
30.00	1056.00	8.00	0.00
33.00	1060.00	4.00	0.00
36.00	1063.00	3.00	0.00
39.00	1066.00	3.00	0.00
42.00	1068.00	2.00	0.00
45.00	1071.00	3.00	0.00

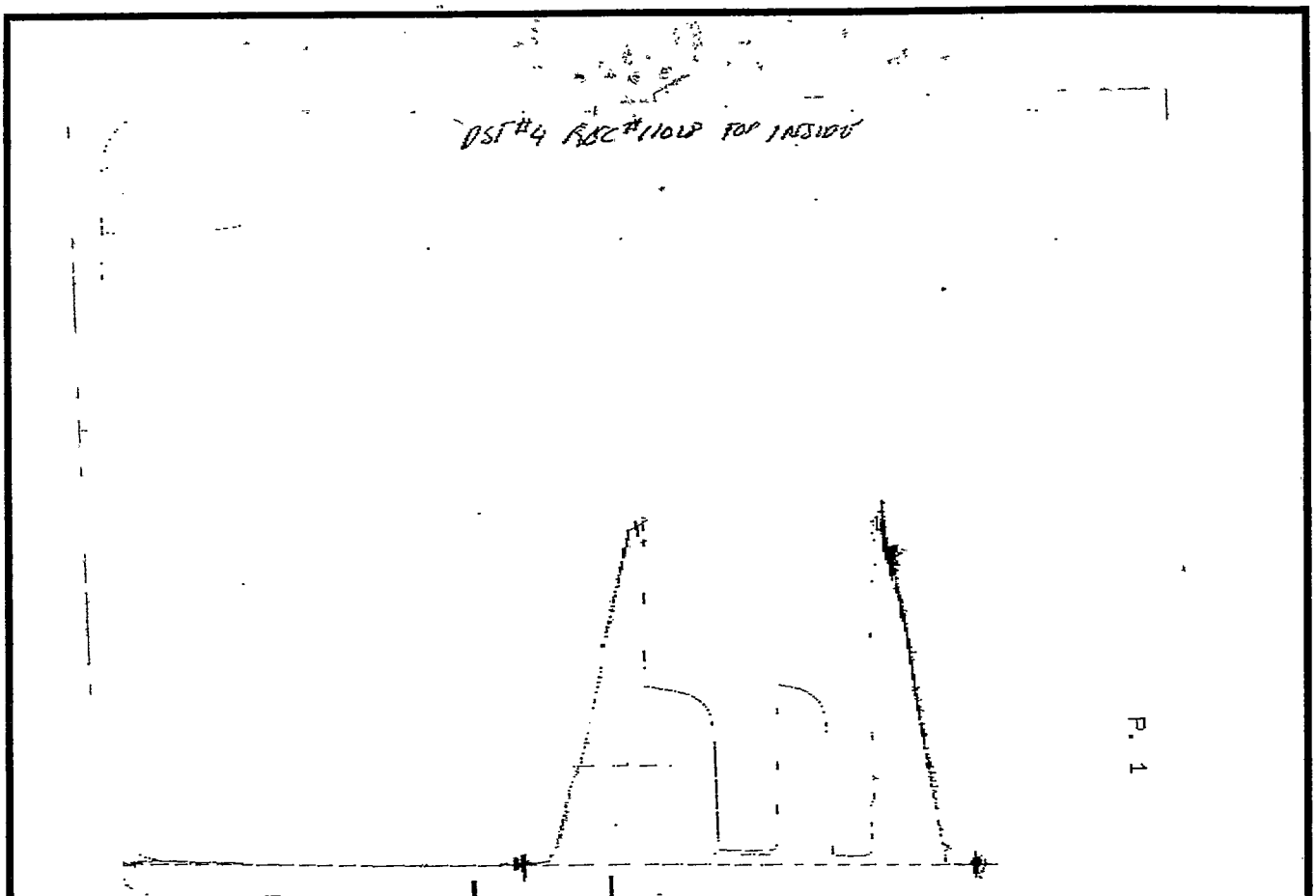
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

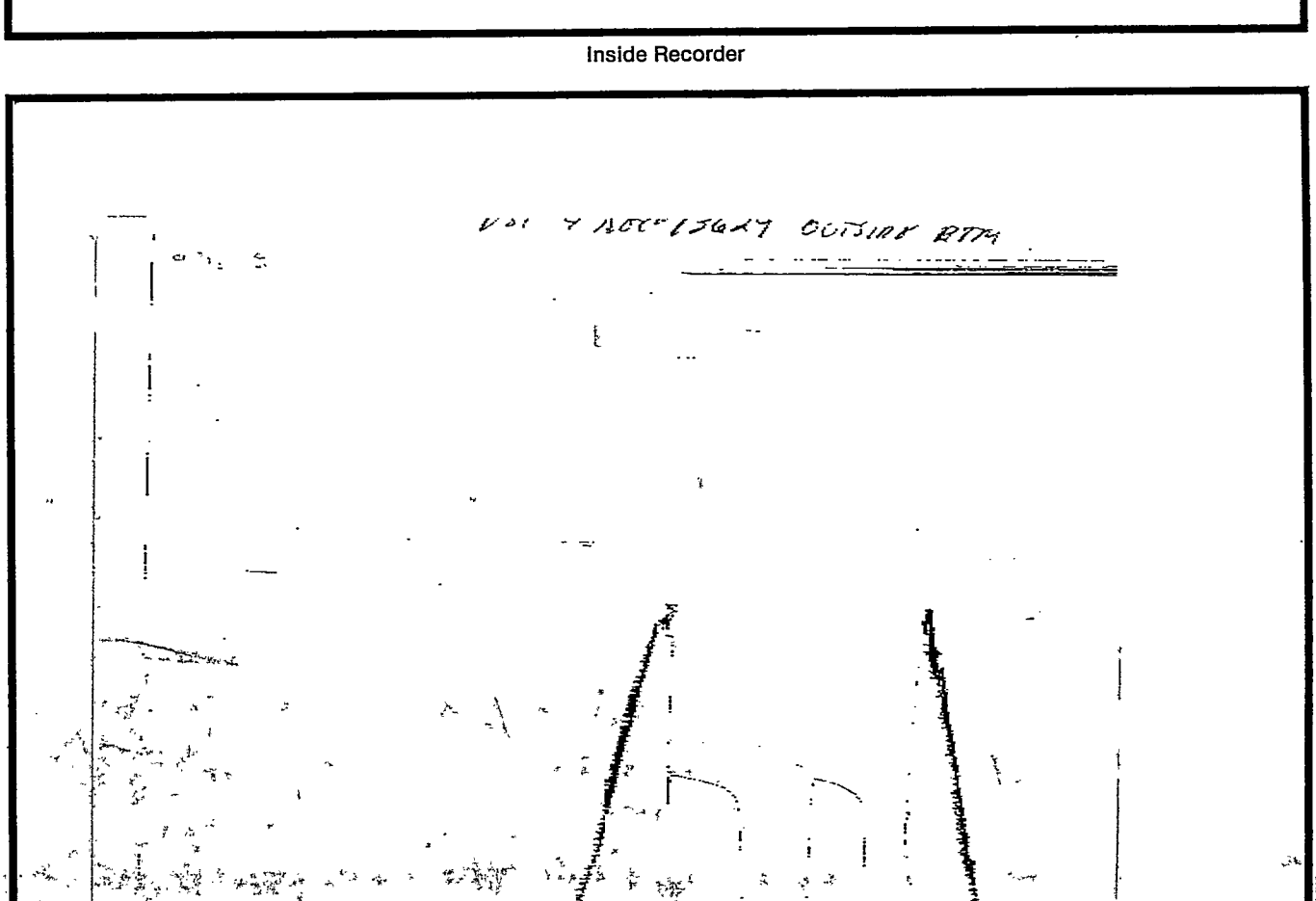
Time (min)	Pressure	Delta P
0.00	108.00	108.00
5.00	102.00	-6.00
10.00	102.00	0.00
15.00	103.00	1.00
20.00	104.00	1.00
25.00	104.00	0.00
30.00	105.00	1.00
35.00	105.00	0.00
40.00	106.00	1.00
45.00	106.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	180.00	180.00	0.00
6.00	720.00	540.00	0.00
9.00	900.00	180.00	0.00
12.00	938.00	38.00	0.00
15.00	971.00	33.00	0.00
18.00	984.00	13.00	0.00
21.00	993.00	9.00	0.00
24.00	1006.00	13.00	0.00
27.00	1013.00	7.00	0.00
30.00	1019.00	6.00	0.00
33.00	1024.00	5.00	0.00
36.00	1027.00	3.00	0.00
39.00	1030.00	3.00	0.00
42.00	1032.00	2.00	0.00
45.00	1035.00	3.00	0.00
48.00	1039.00	4.00	0.00
51.00	1043.00	4.00	0.00
54.00	1046.00	3.00	0.00
57.00	1048.00	2.00	0.00
60.00	1050.00	2.00	0.00



Inside Recorder

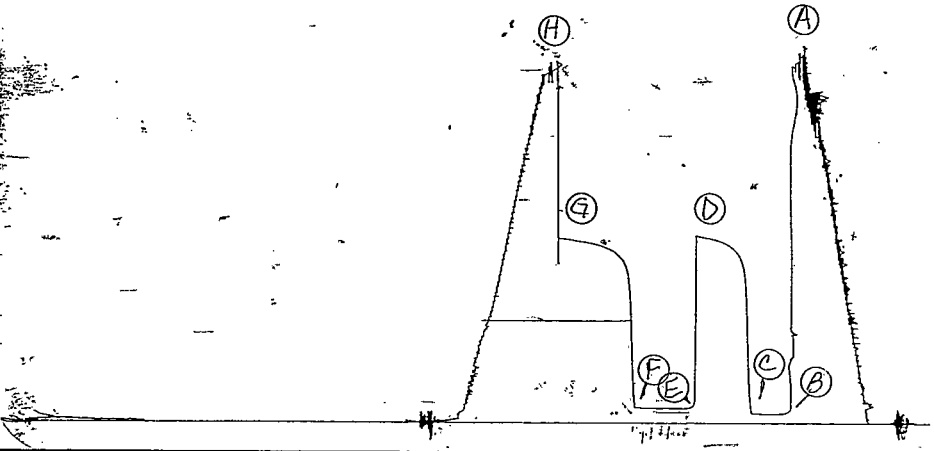


Outside Recorder

DST #4 RBC #1010 TOP INSIDE

Ticket # 20683

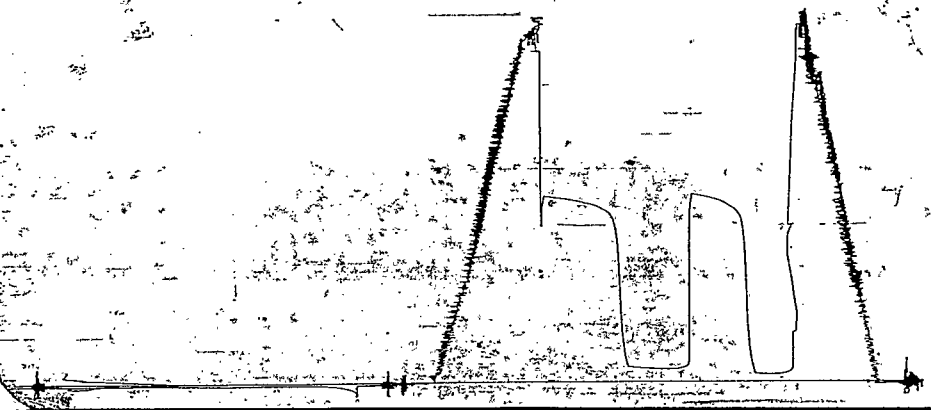
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DST #4 Rec# 13629 OUTSIDE BTM.

Ticket # 20683

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DST REPORT

GENERAL INFORMATION

DATE	: 11/20/94	TICKET	: 20684
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 5	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: LOWER KANS CITY 220'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4145.00 ft TO: 4180.00 ft TVD: 4180.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4148.0 ft 4177.0 ft
TEMPERATURE: 120.0

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 :	4125.0 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 :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4140.0 ft	SIZE:	6.625 in
PACKER DEPTH:	4145.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: WHITE & ELLIS RIG #9		
MUD TYPE	: CHEMICAL	VISCOSITY :	50.00 cp
WEIGHT	: 9.100 ppg	WATER LOSS:	10.400 cc
CHLORIDES	: 5000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?	: NO

COMMENTS

Comment

INITIAL FLOW: STRONG BLOW, BOTTOM OF BUCKET IN 5 MINUTES, NO BLOWBACK. FINAL FLOW: STRONG BLOW, BOTTOM OF BUCKET IN 6 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	1300 FEET GAS ABOVE FLUID
50.0	10.0	25.0	0.0	65.0	OIL AND GAS CUT MUD
60.0	40.0	35.0	0.0	25.0	MUDDY GASSY OIL

RATE INFORMATION

OIL VOLUME: 0.4068 STB
GAS VOLUME: 2.6384 SCF
MUD VOLUME: 0.6663 STB
WATER VOLUME: 0.0000 STB
TOTAL FLUID : 1.0730 STB

TOTAL FLOW TIME: 75.0000 min.
AVERAGE OIL RATE: 20.6019 STB/D
AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2048.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	66.00	69.00
INITIAL SHUT-IN	45.00		642.00
FINAL FLOW	45.00	77.00	84.00
FINAL SHUT-IN	60.00		637.00

FINAL HYDROSTATIC PRESSURE: 2022.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2052.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	106.00	62.00
INITIAL SHUT-IN	45.00		643.00
FINAL FLOW	45.00	122.00	78.00
FINAL SHUT-IN	60.00		643.00

FINAL HYDROSTATIC PRESSURE: 2028.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 11/20/94	TICKET	: 20684
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 5	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: LOWER KANS CITY 220'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	106.00	106.00
5.00	64.00	-42.00
10.00	62.00	-2.00
15.00	62.00	0.00
20.00	62.00	0.00
25.00	62.00	0.00
30.00	62.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	86.00	86.00	11.00
6.00	182.00	96.00	6.00
9.00	312.00	130.00	4.33
12.00	428.00	116.00	3.50
15.00	526.00	98.00	3.00
18.00	548.00	22.00	2.67
21.00	572.00	24.00	2.43
24.00	588.00	16.00	2.25
27.00	600.00	12.00	2.11
30.00	610.00	10.00	2.00
33.00	617.00	7.00	1.91
36.00	626.00	9.00	1.83
39.00	632.00	6.00	1.77
42.00	638.00	6.00	1.71
45.00	643.00	5.00	1.67

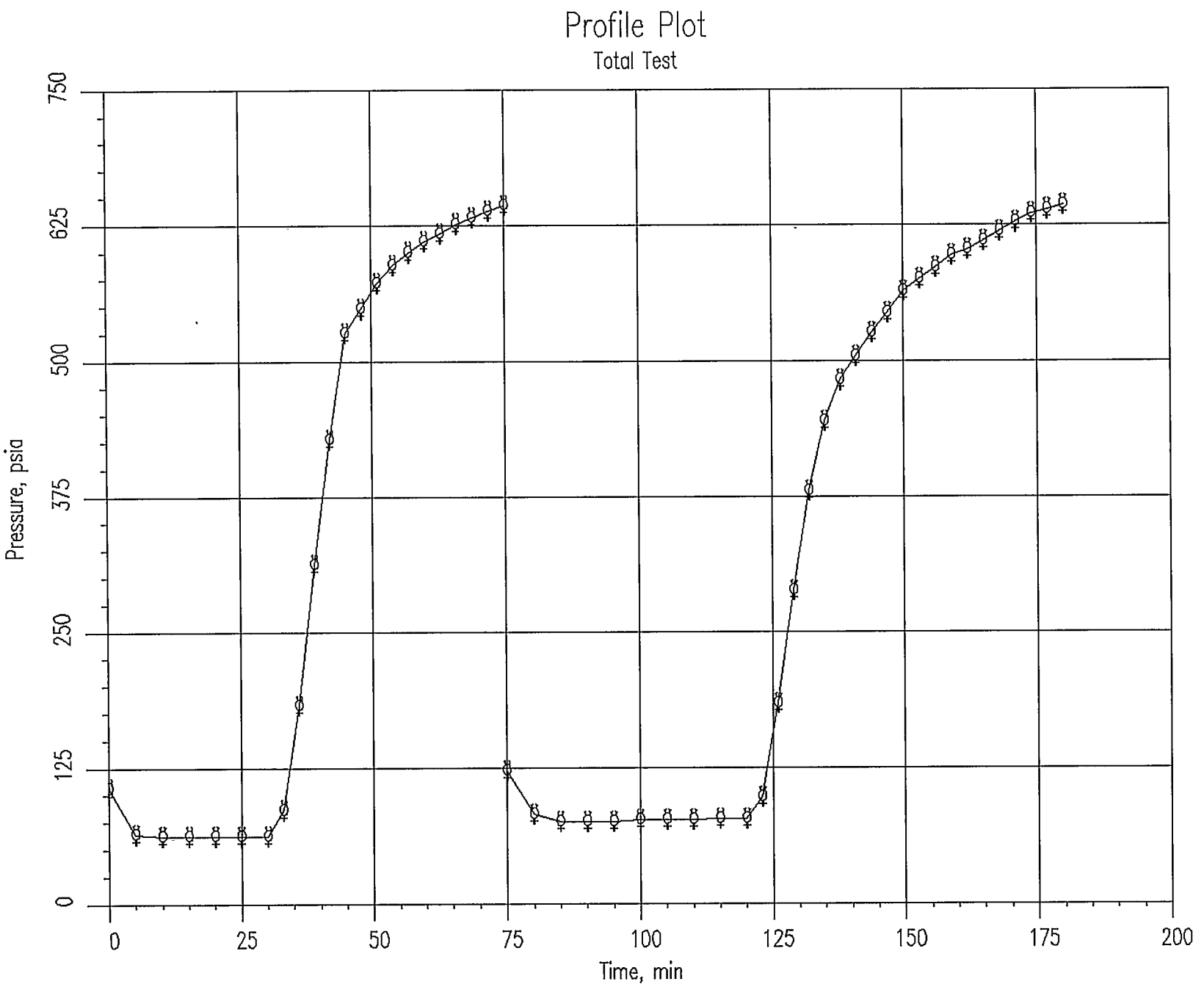
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

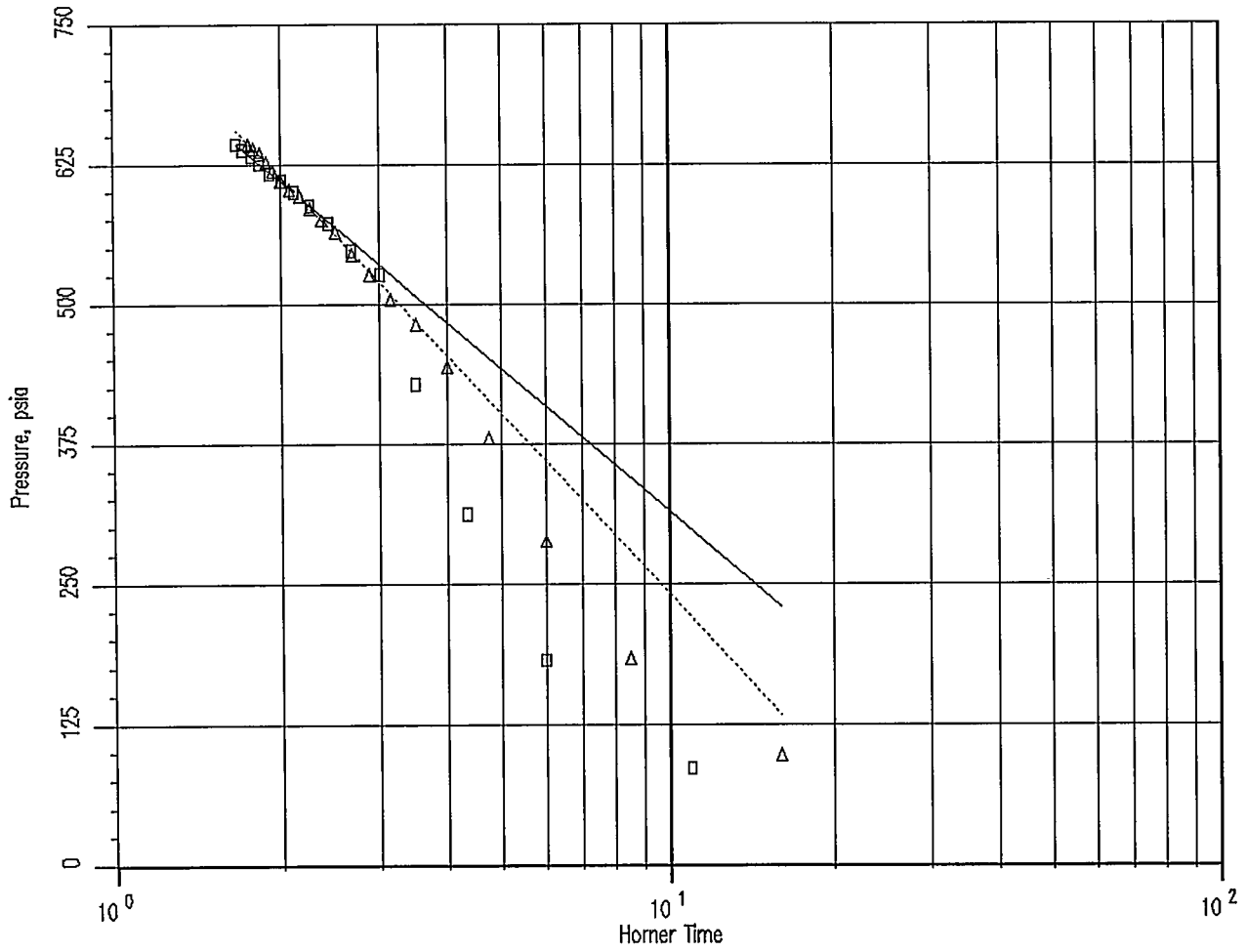
Time (min)	Pressure	Delta P
0.00	122.00	122.00
5.00	82.00	-40.00
10.00	75.00	-7.00
15.00	75.00	0.00
20.00	75.00	0.00
25.00	77.00	2.00
30.00	77.00	0.00
35.00	77.00	0.00
40.00	78.00	1.00
45.00	78.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	98.00	98.00	16.00
6.00	184.00	86.00	8.50
9.00	288.00	104.00	6.00
12.00	380.00	92.00	4.75
15.00	444.00	64.00	4.00
18.00	482.00	38.00	3.50
21.00	504.00	22.00	3.14
24.00	526.00	22.00	2.88
27.00	544.00	18.00	2.67
30.00	564.00	20.00	2.50
33.00	575.00	11.00	2.36
36.00	586.00	11.00	2.25
39.00	597.00	11.00	2.15
42.00	602.00	5.00	2.07
45.00	610.00	8.00	2.00
48.00	619.00	9.00	1.94
51.00	627.00	8.00	1.88
54.00	635.00	8.00	1.83
57.00	639.00	4.00	1.79
60.00	643.00	4.00	1.75


Profile Plot
Total Test
Pressure, psia
750
625
500
375
250
125
0
0
25
50
75
100
125
150
175
200
Time, min

DATE	11/20/94			TICKET	20684
CUSTOMER	DUNNE OIL COMPANY			LEASE	BROUGHTON
WELL	#2-15	TEST	5	GEOLOGIST	OATSDEAN
ELEVATION	2605KB			FORMATION	LOWER KANS CITY 220'
SECTION	15			TOWNSHIP	16S
RANGE	27W	COUNTY	LANE	STATE	KS
GAUGE SN#	11018	RANGE	4425	CLOCK	12



Result

	#1	#2
tp, hrs	0.50	0.75
Slope	-421.37	-530.67
Pstar, psig	736.47	772.35
P1hr, psig	662.27	643.38
Skin	-0.13	-0.55
k, md	1.95	1.55
kh/u, md-ft/cp	8.54	6.78
ri, ft	3.15	3.43
DR, %	0.71	0.56
Drawdown Factor, %		
Drawdown P*, %		-4.872

____ BUILD 1

..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE	: 11/20/94	TICKET	: 20684
CUSTOMER	: DUNNE OIL COMPANY	LEASE	: BROUGHTON
WELL	: #2-15 TEST: 5	GEOLOGIST	: OATSDEAN
ELEVATION	: 2605KB	FORMATION	: LOWER KANS CITY 220'
SECTION	: 15	TOWNSHIP	: 16S
RANGE	: 27W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

Input Data

Porosity 0.120 Rw: 0.328 ft h: 6.000 ft

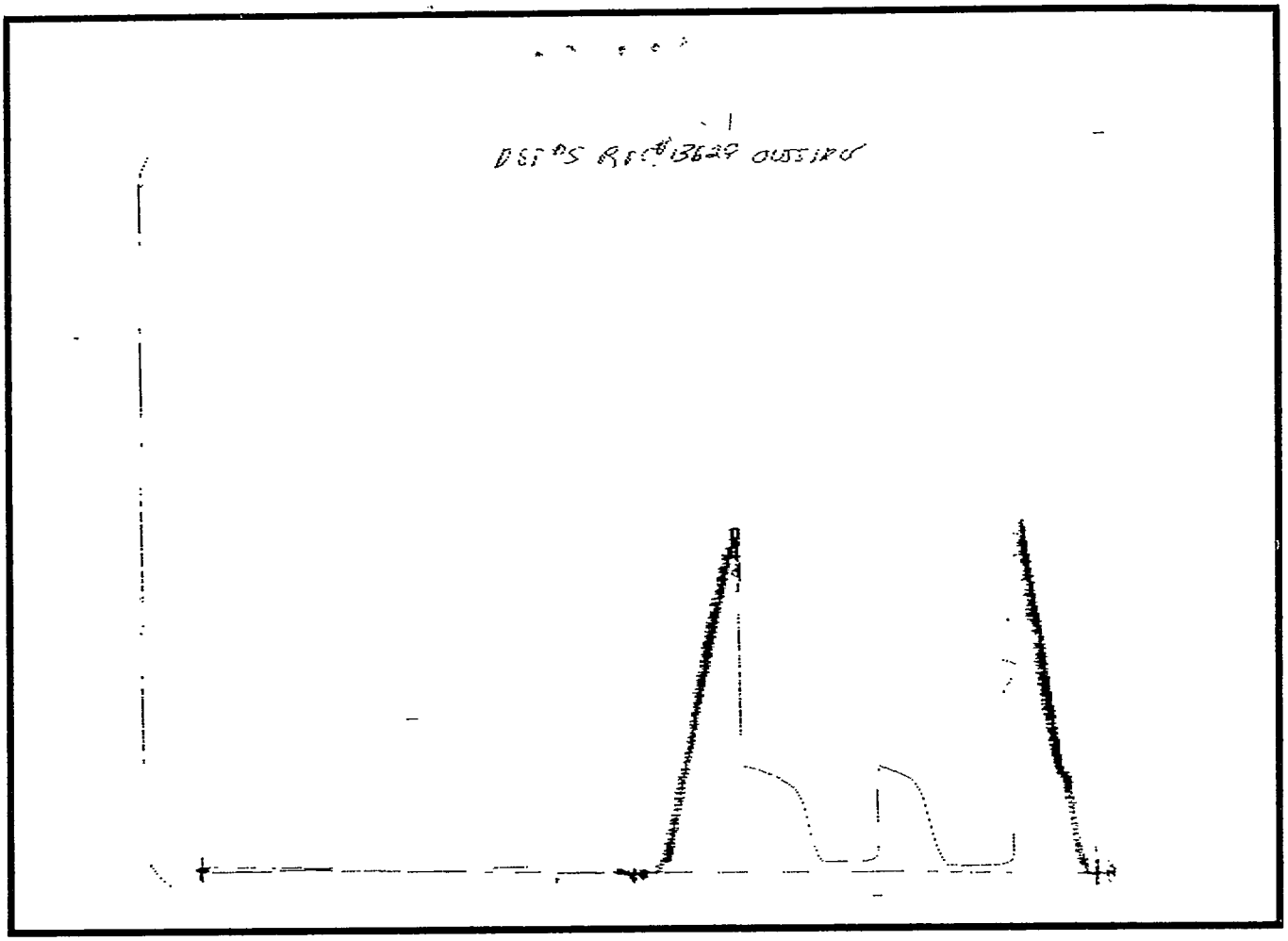
qo 20.6 STB GOR 132.8 SCF/STB

Pvt Data
Evalutation Pressure : 643.0
Evalutation Temperature: 120.0

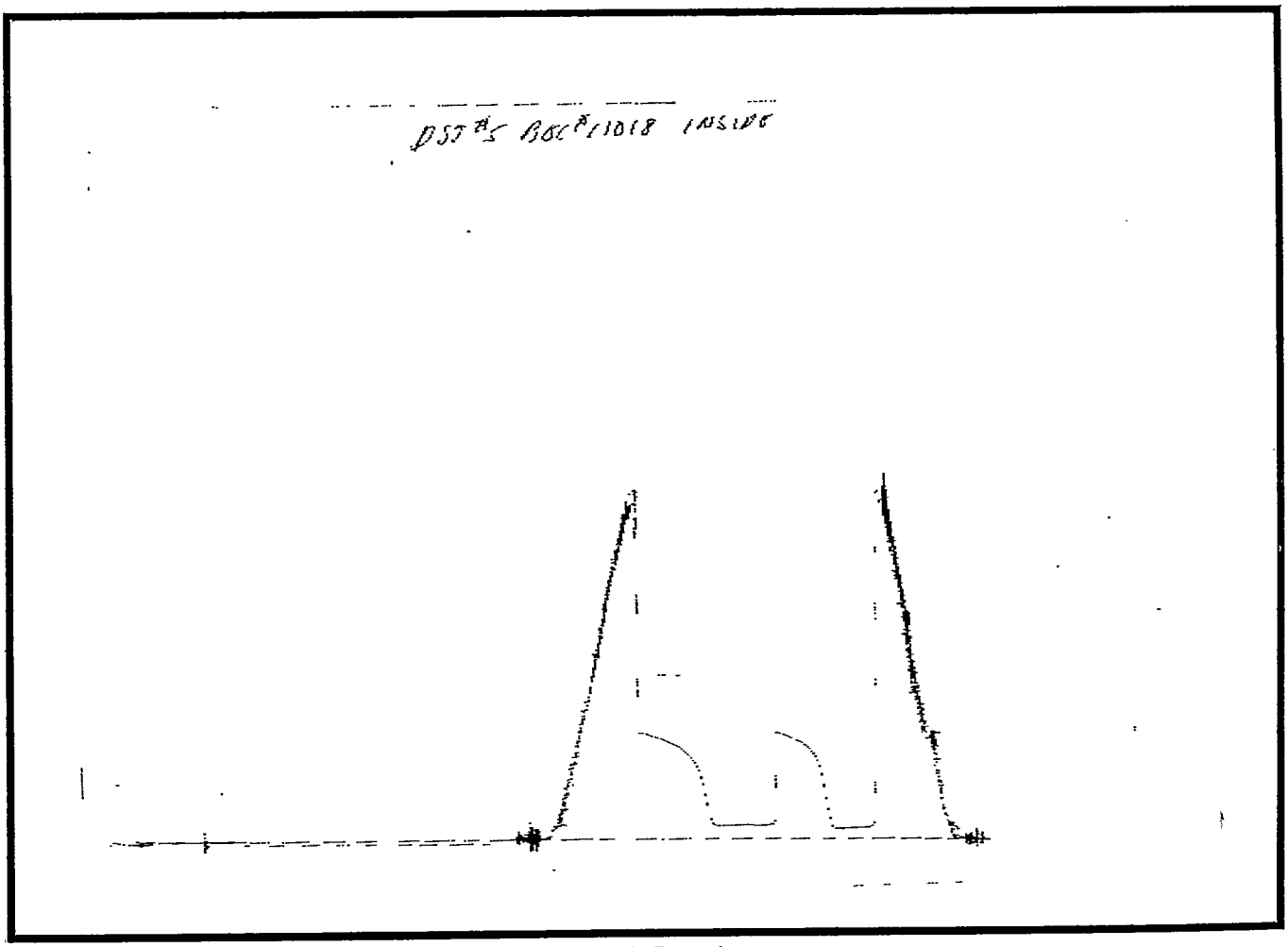
Oil Grav	38.00 API	Gas Grav	0.65 API	Pb	643.00 PSIA
Bo	1.074 RBL/STB	Vis	1.000 cp	Ct	6.3132E-004 1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.75 hrs
slope	-421.37	-530.67
pstar	736.47 psig	772.35 psig
p1hr	662.27 psig	643.38 psig
skin	-0.13	-0.55
permeability	1.95 md	1.55 md
transmisability	8.54 md-ft/cp	6.78 md-ft/cp
radius of investigation	3.15 ft	3.43 ft
Damage-Ratio	0.71 percent	0.56 percent
Drawdown Factor		
Drawdown P*		-4.872 percent



Inside Recorder

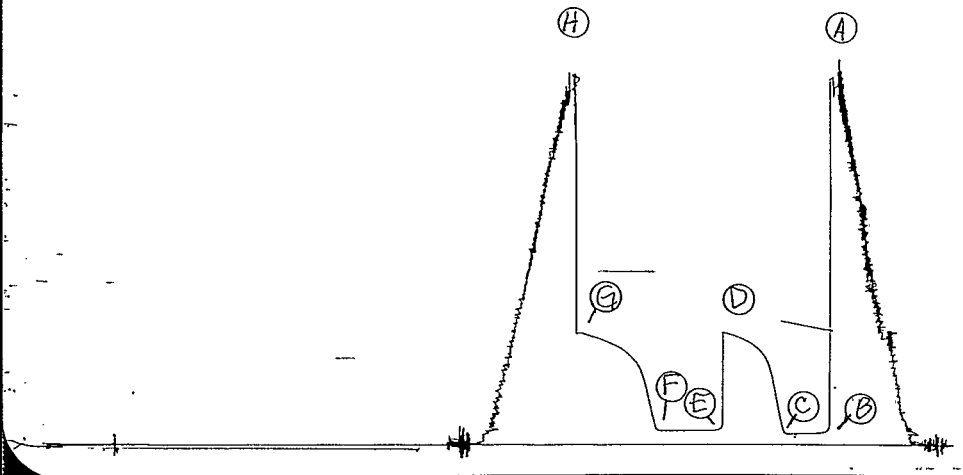


Outside Recorder

DST #5 BOC #1018 INSIDE

Ticket # 20684

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DST #5 RC #13629 OUTSIDE

Ticket # 20684

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