

DST REPORT

GENERAL INFORMATION

DATE : 11/25/94	TICKET : 20662
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29                      TEST: 1	GEOLOGIST: ?
ELEVATION: 1878KB	FORMATION: LANSING F & G
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W                      COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270                  RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3397.00 ft	TO: 3442.00 ft	TVD: 3442.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3400.0 ft	3403.0 ft	
TEMPERATURE: 103.0		

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 : 3377.0 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: 3392.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3397.0 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 RIG #2	
MUD TYPE : CHEMICAL	VISCOSITY : 45.00 cp
WEIGHT : 9.400 ppg	WATER LOSS: 12.800 cc
CHLORIDES : 5800 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BUILDING TO A FAIR BLOW,  
1/2 INCH TO 6 INCH BLOW. FINAL FLOW: WEAK BLOW  
THROUGHOUT, 1/2 INCH TO 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	205 FEET GAS ABOVE FLUID
45.0	4.0	5.0	0.0	91.0	SLI OIL AND GAS CUT MUD
60.0	2.0	3.0	15.0	80.0	SLI OIL AND GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 32,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0421 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.3190 SCF	AVERAGE OIL RATE:	16.6960 STB/D
MUD VOLUME:	1.2476 STB	AVERAGE WATER RATE:	17.2871 STB/D
WATER VOLUME:	0.1262 STB		
TOTAL FLUID :	1.4160 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1703.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	30.00		1153.00
FINAL FLOW	30.00	62.00	62.00
FINAL SHUT-IN	45.00		1153.00

FINAL HYDROSTATIC PRESSURE: 1672.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1705.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	30.00		1156.00
FINAL FLOW	30.00	65.00	65.00
FINAL SHUT-IN	45.00		1152.00

FINAL HYDROSTATIC PRESSURE: 1672.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/25/94	TICKET : 20662
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29            TEST: 1	GEOLOGIST: ?
ELEVATION: 1878KB	FORMATION: LANSING F & G
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W            COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270      RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	41.00	41.00
5.00	41.00	0.00
10.00	41.00	0.00
15.00	41.00	0.00
20.00	41.00	0.00
25.00	41.00	0.00
30.00	41.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	464.00	464.00	11.00
6.00	840.00	376.00	6.00
9.00	990.00	150.00	4.33
12.00	1052.00	62.00	3.50
15.00	1082.00	30.00	3.00
18.00	1108.00	26.00	2.67
21.00	1122.00	14.00	2.43
24.00	1135.00	13.00	2.25
27.00	1145.00	10.00	2.11
30.00	1156.00	11.00	2.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	65.00	65.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	65.00	0.00
10.00	65.00	0.00
15.00	65.00	0.00
20.00	65.00	0.00
25.00	65.00	0.00
30.00	65.00	0.00

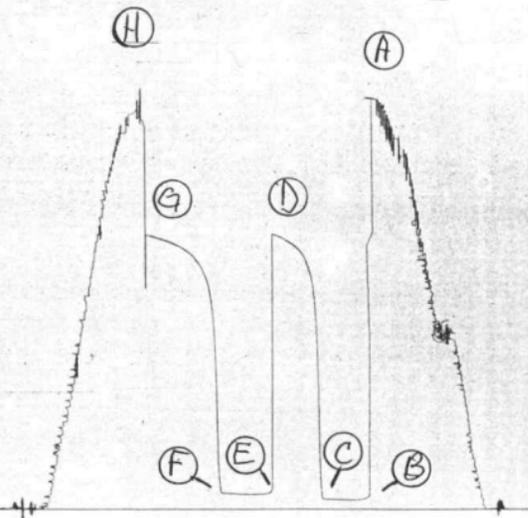
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	347.00	347.00	11.00
6.00	739.00	392.00	6.00
9.00	921.00	182.00	4.33
12.00	993.00	72.00	3.50
15.00	1032.00	39.00	3.00
18.00	1062.00	30.00	2.67
21.00	1081.00	19.00	2.43
24.00	1098.00	17.00	2.25
27.00	1109.00	11.00	2.11
30.00	1118.00	9.00	2.00
33.00	1125.00	7.00	1.91
36.00	1133.00	8.00	1.83
39.00	1139.00	6.00	1.77
42.00	1145.00	6.00	1.71
45.00	1152.00	7.00	1.67

Ticket # 20662

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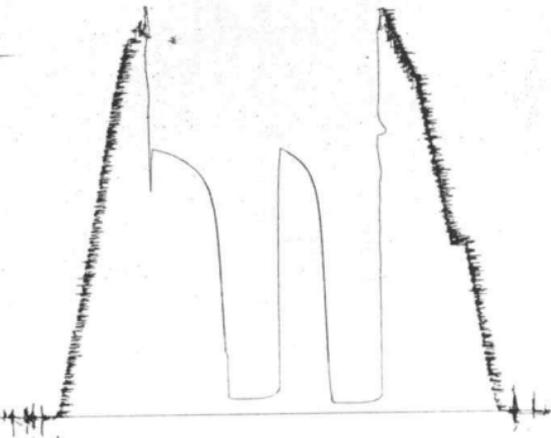
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13550



DST REPORT

GENERAL INFORMATION

DATE : 11/26/94  
CUSTOMER : HUTCHINSON OIL COMPANY  
WELL : #1-29 TEST: 2  
ELEVATION: 1878KB  
SECTION : 29  
RANGE : 12W COUNTY: STAFFORD  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 20663  
LEASE : WILLINGER  
GEOLOGIST: ?  
FORMATION: LANSING I, J, K  
TOWNSHIP : 22S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3487.00 ft TO: 3542.00 ft TVD: 3542.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3534.0 ft 3537.0 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 : 3467.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 55.0 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: 3482.0 ft SIZE: 6.630 in  
PACKER DEPTH: 3487.0 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 RIG #2  
MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp  
WEIGHT : 9.400 ppg WATER LOSS: 12.800 cc  
CHLORIDES : 5800 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BUILDING TO A STRONG BLOW IN  
4 MINUTES.  
FINAL FLOW: 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	570 FEET GAS ABOVE FLUID OIL AND GAS CUT MUD
30.0	6.0	5.0	0.0	89.0	

RATE INFORMATION

OIL VOLUME:	0.0252 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.1181 SCF	AVERAGE OIL RATE:	6.3960 STB/D
MUD VOLUME:	0.3745 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.3998 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1755.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	52.00
INITIAL SHUT-IN	45.00		302.00
FINAL FLOW	60.00	52.00	52.00
FINAL SHUT-IN	45.00		208.00

FINAL HYDROSTATIC PRESSURE: 1734.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1763.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	52.00	52.00
INITIAL SHUT-IN	42.00		296.00
FINAL FLOW	60.00	52.00	52.00
FINAL SHUT-IN	39.00		217.00

FINAL HYDROSTATIC PRESSURE: 1741.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/26/94	TICKET : 20663
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29                      TEST: 2	GEOLOGIST: ?
ELEVATION: 1878KB	FORMATION: LANSING I, J, K
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W                      COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270                RANGE : 4150	CLOCK : 12

INITIAL 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

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	59.00	59.00	11.00
6.00	77.00	18.00	6.00
9.00	108.00	31.00	4.33
12.00	124.00	16.00	3.50
15.00	144.00	20.00	3.00
18.00	159.00	15.00	2.67
21.00	175.00	16.00	2.43
24.00	194.00	19.00	2.25
27.00	213.00	19.00	2.11
30.00	231.00	18.00	2.00
33.00	248.00	17.00	1.91
36.00	263.00	15.00	1.83
39.00	277.00	14.00	1.77
42.00	296.00	19.00	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
50.00	52.00	0.00
55.00	52.00	0.00
60.00	52.00	0.00

FINAL SHUT IN

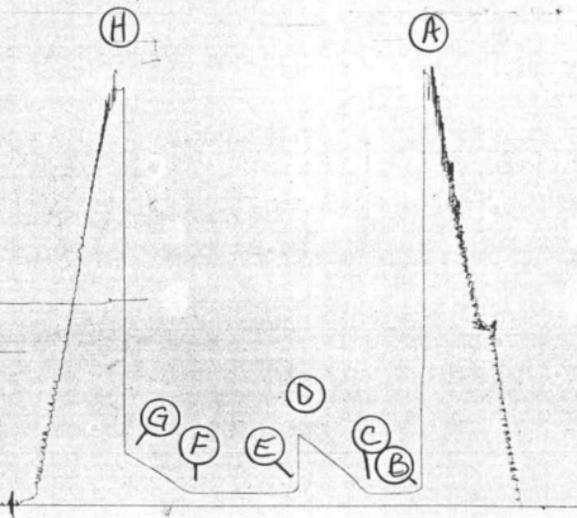
Time (min)	Pressure	Delta P	Horner T
3.00	53.00	53.00	21.00
6.00	61.00	8.00	11.00
9.00	76.00	15.00	7.67
12.00	92.00	16.00	6.00
15.00	108.00	16.00	5.00
18.00	122.00	14.00	4.33
21.00	136.00	14.00	3.86
24.00	149.00	13.00	3.50
27.00	162.00	13.00	3.22
30.00	174.00	12.00	3.00
33.00	189.00	15.00	2.82
36.00	203.00	14.00	2.67
39.00	217.00	14.00	2.54

Ticket # 20663

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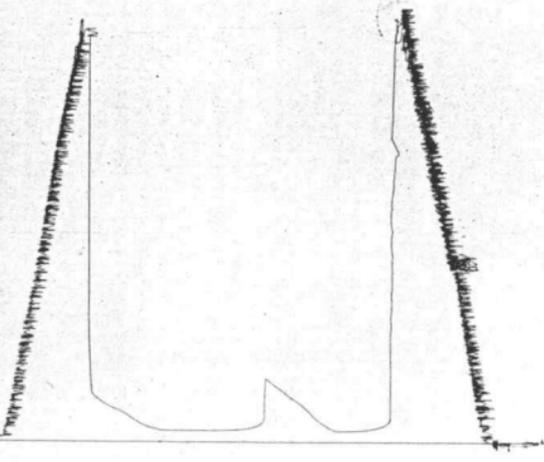
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Ticket # 20663

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OST # 2  
12540



DST REPORT

GENERAL INFORMATION

DATE : 11/26/94	TICKET : 20664
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29                      TEST: 3	GEOLOGIST: JEFF BURKE
ELEVATION: 1878 K.B.	FORMATION: VIOLA
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W                      COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270                  RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3616.00 ft	TO: 3660.00 ft	TVD: 3660.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3619.0 ft	3622.0 ft	
TEMPERATURE: 112.0		

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 : 3596.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 44.0 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: 3611.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3616.0 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 RIG #2	
MUD TYPE : CHEMICAL	VISCOSITY : 50.00 cp
WEIGHT : 9.400 ppg	WATER LOSS: 15.200 cc
CHLORIDES : 9800 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: YES	REVERSED OUT?: NO

COMMENTS

Comment

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INITIAL FLOW: STRONG BLOW THROUGHOUT.  
 FINAL FLOW: STRONG BLOW, GAS TO SURFACE IN 30  
 MINUTES, GAS TOO WEAK TO GAGE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
300.0	42.0	23.0	10.0	25.0	GASSY MUDDY OIL
600.0	28.0	22.0	30.0	20.0	GASSY OIL & MUD CUT WATER
120.0	33.0	15.0	52.0	0.0	HEAVY OIL & GAS CUT WATER
300.0	10.0	2.0	88.0	0.0	OIL & GAS CUT WATER
120.0	2.0	0.0	98.0	0.0	SLIGHTLY OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 23,000 PPM
1140.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	RW 0.23 @ 55 DEG F.

RATE INFORMATION

OIL VOLUME:	5.1336 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	17.7205 SCF	AVERAGE OIL RATE:	108.7341 STB/D
MUD VOLUME:	2.7351 STB	AVERAGE WATER RATE:	419.7790 STB/D
WATER VOLUME:	25.1633 STB		
TOTAL FLUID :	33.0321 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1755.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	385.00	821.00
INITIAL SHUT-IN	45.00		1174.00
FINAL FLOW	60.00	904.00	1132.00
FINAL SHUT-IN	90.00		1174.00

FINAL HYDROSTATIC PRESSURE: 1755.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1762.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	404.00	841.00
INITIAL SHUT-IN	27.00		1177.00
FINAL FLOW	60.00	923.00	1167.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION (CONTINUED)

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
FINAL SHUT-IN	90.00		1181.00
FINAL HYDROSTATIC PRESSURE:	1755.00		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/26/94	TICKET : 20664
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29 TEST: 3	GEOLOGIST: JEFF BURKE
ELEVATION: 1878 K.B.	FORMATION: VIOLA
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	404.00	404.00
5.00	424.00	20.00
10.00	520.00	96.00
15.00	615.00	95.00
20.00	699.00	84.00
25.00	774.00	75.00
30.00	841.00	67.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1109.00	1109.00	11.00
6.00	1136.00	27.00	6.00
9.00	1151.00	15.00	4.33
12.00	1159.00	8.00	3.50
15.00	1167.00	8.00	3.00
18.00	1170.00	3.00	2.67
21.00	1173.00	3.00	2.43
24.00	1175.00	2.00	2.25
27.00	1177.00	2.00	2.11

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	923.00	923.00
5.00	923.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
10.00	969.00	46.00
15.00	1011.00	42.00
20.00	1045.00	34.00
25.00	1073.00	28.00
30.00	1094.00	21.00
35.00	1113.00	19.00
40.00	1129.00	16.00
45.00	1140.00	11.00
50.00	1149.00	9.00
55.00	1158.00	9.00
60.00	1167.00	9.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1175.00	1175.00	21.00
6.00	1179.00	4.00	11.00
9.00	1181.00	2.00	7.67
12.00	1181.00	0.00	6.00
15.00	1181.00	0.00	5.00
18.00	1181.00	0.00	4.33
21.00	1181.00	0.00	3.86
24.00	1181.00	0.00	3.50
27.00	1181.00	0.00	3.22
30.00	1181.00	0.00	3.00
33.00	1181.00	0.00	2.82
36.00	1181.00	0.00	2.67
39.00	1181.00	0.00	2.54
42.00	1181.00	0.00	2.43
45.00	1181.00	0.00	2.33
48.00	1181.00	0.00	2.25
51.00	1181.00	0.00	2.18
54.00	1181.00	0.00	2.11
57.00	1181.00	0.00	2.05
60.00	1181.00	0.00	2.00
63.00	1181.00	0.00	1.95
66.00	1181.00	0.00	1.91
69.00	1181.00	0.00	1.87
72.00	1181.00	0.00	1.83
75.00	1181.00	0.00	1.80
78.00	1181.00	0.00	1.77
81.00	1181.00	0.00	1.74

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

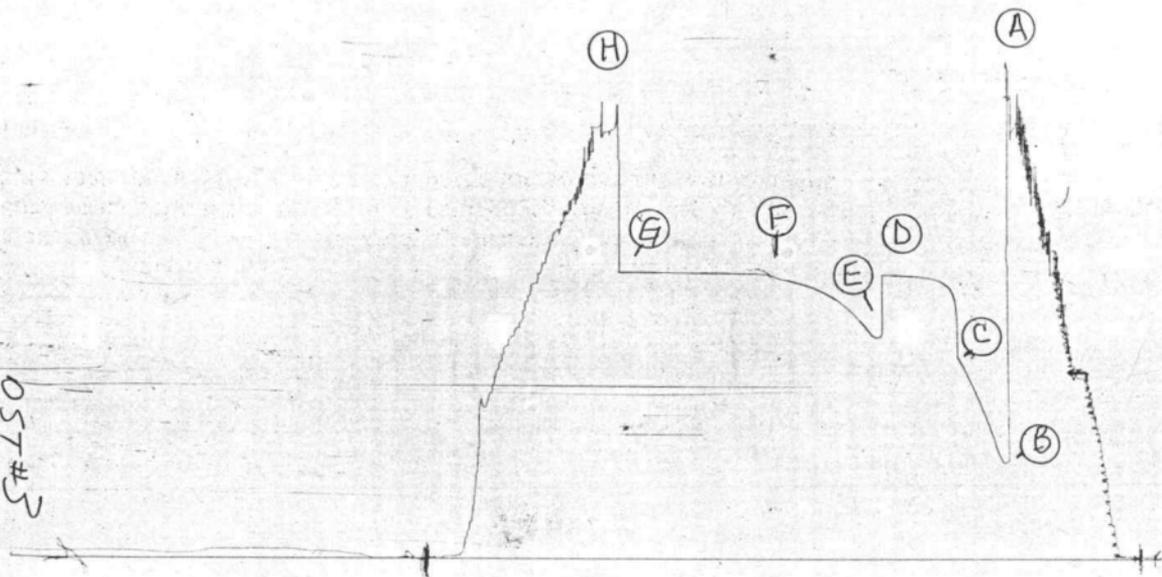
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
84.00	1181.00	0.00	1.71
87.00	1181.00	0.00	1.69
90.00	1181.00	0.00	1.67

Ticket # 20664

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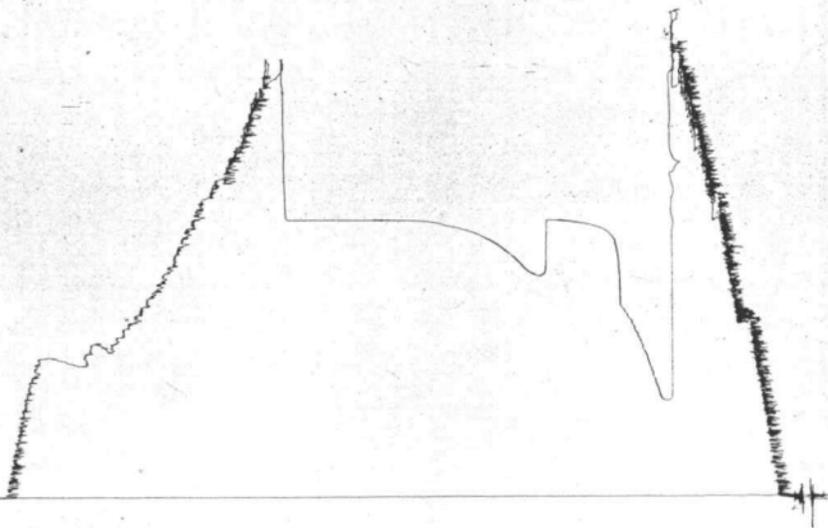
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OST #3



Ticket # 20664

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OST # 3  
225

DST REPORT

GENERAL INFORMATION

DATE : 11/27/94	TICKET : 20665
CUSTOMER : HUTCHINSON OIL COMPANY	LEASE : WILLINGER
WELL : #1-29                      TEST: 4	GEOLOGIST: ?
ELEVATION: 1878KB	FORMATION: ARBUCKLE
SECTION : 29	TOWNSHIP : 22S
RANGE : 12W                      COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270                      RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3739.00 ft	TO: 3747.00 ft	TVD: 3747.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 3741.0 ft	3744.0 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 : 3719.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 8.0 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: 3734.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3739.0 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 RIG #2	
MUD TYPE : CHEMICAL	VISCOSITY : 41.00 cp
WEIGHT : 9.000 ppg	WATER LOSS: 15.200 cc
CHLORIDES : 15500 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT, 1/2 INCH TO 3 INCH BLOW. FINAL FLOW: WEAK BUILDING TO A FAIR BLOW, 1/2 INCH TO 4 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
290.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 17,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0000	STB	AVERAGE WATER RATE:	65.0823	STB/D
WATER VOLUME:	4.0676	STB			
TOTAL FLUID :	4.0676	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1817.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	41.00
INITIAL SHUT-IN	45.00		1236.00
FINAL FLOW	60.00	72.00	124.00
FINAL SHUT-IN	45.00		1184.00

FINAL HYDROSTATIC PRESSURE: 1817.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1848.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	27.00	58.00
INITIAL SHUT-IN	54.00		1239.00
FINAL FLOW	60.00	89.00	141.00
FINAL SHUT-IN	48.00		1189.00

FINAL HYDROSTATIC PRESSURE: 1844.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 11/27/94	TICKET	: 20665
CUSTOMER	: HUTCHINSON OIL COMPANY	LEASE	: WILLINGER
WELL	: #1-29	TEST:	4
ELEVATION:	1878KB	GEOLOGIST:	?
SECTION	: 29	FORMATION:	ARBUCKLE
RANGE	: 12W	COUNTY:	STAFFORD
GAUGE SN#:	10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	27.00	27.00
5.00	27.00	0.00
10.00	29.00	2.00
15.00	38.00	9.00
20.00	46.00	8.00
25.00	54.00	8.00
30.00	58.00	4.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	512.00	512.00	0.00
6.00	820.00	308.00	0.00
9.00	975.00	155.00	0.00
12.00	1044.00	69.00	0.00
15.00	1086.00	42.00	0.00
18.00	1117.00	31.00	0.00
21.00	1139.00	22.00	0.00
24.00	1155.00	16.00	0.00
27.00	1171.00	16.00	0.00
30.00	1183.00	12.00	0.00
33.00	1196.00	13.00	0.00
36.00	1205.00	9.00	0.00
39.00	1215.00	10.00	0.00
42.00	1220.00	5.00	0.00
45.00	1226.00	6.00	0.00
48.00	1231.00	5.00	0.00
51.00	1235.00	4.00	0.00
54.00	1239.00	4.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	89.00	89.00
5.00	89.00	0.00
10.00	89.00	0.00
15.00	89.00	0.00
20.00	92.00	3.00
25.00	97.00	5.00
30.00	103.00	6.00
35.00	110.00	7.00
40.00	116.00	6.00
45.00	122.00	6.00
50.00	128.00	6.00
55.00	135.00	7.00
60.00	141.00	6.00

FINAL SHUT IN

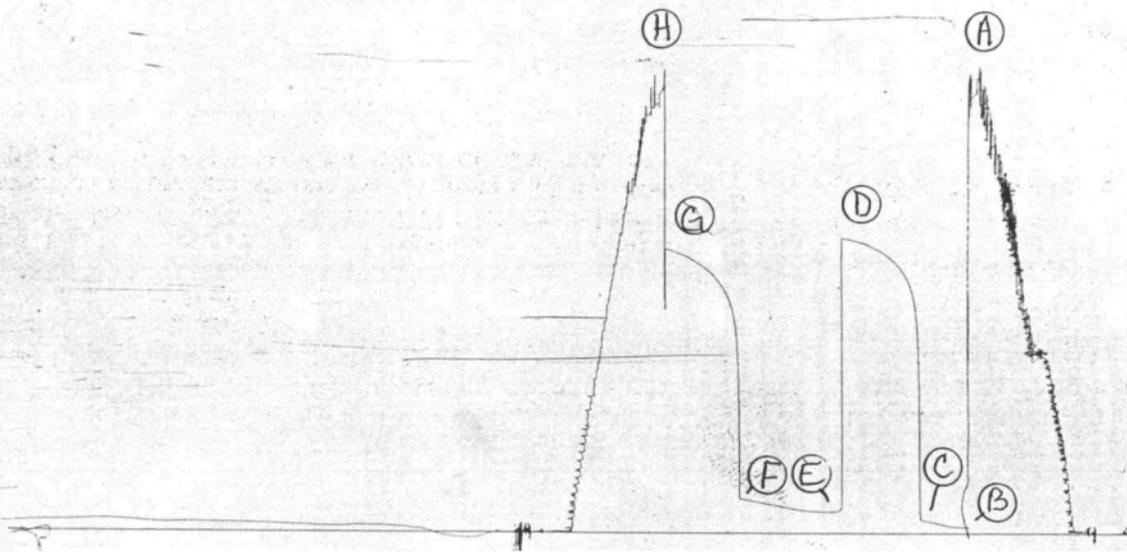
Time (min)	Pressure	Delta P	Horner T
3.00	579.00	579.00	0.00
6.00	826.00	247.00	0.00
9.00	940.00	114.00	0.00
12.00	996.00	56.00	0.00
15.00	1031.00	35.00	0.00
18.00	1060.00	29.00	0.00
21.00	1085.00	25.00	0.00
24.00	1103.00	18.00	0.00
27.00	1118.00	15.00	0.00
30.00	1133.00	15.00	0.00
33.00	1143.00	10.00	0.00
36.00	1156.00	13.00	0.00
39.00	1165.00	9.00	0.00
42.00	1174.00	9.00	0.00
45.00	1183.00	9.00	0.00
48.00	1189.00	6.00	0.00

Ticket # 20665

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Ticket # 20665

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