

DST REPORT

GENERAL INFORMATION

DATE : 11-30-95
CUSTOMER : HUMMON CORP.
WELL : #1 TEST: 1
ELEVATION: 2448 G.L.
SECTION : 4
RANGE : 23W COUNTY: NORTON
GAUGE SN#: 11018 RANGE : 4425

TICKET : 22170
LEASE : SPROUL
GEOLOGIST: DAVID GOLDAK
FORMATION: GORHAM SAND
TOWNSHIP : 4S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3818.00 ft TO: 3836.00 ft TVD: 3836.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3821.0 ft 3833.0 ft
TEMPERATURE: 116.0

DRILL COLLAR LENGTH:	360.0 ft	I.D.:	2.200 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 :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	18.0 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:	3813.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3818.0 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. : NEBRASKA #1
MUD TYPE : CHEMICAL
WEIGHT : 9.100 ppg
CHLORIDES : 900 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 45.00 cp
WATER LOSS: 7.200 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW FROM BOTTOM OF BUCKET IN ONE MINUTE
(NO BLOW BACK) ON INITIAL FLOW PERIOD. WEAK BLOW
THROUGHOUT FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
120.0	0.0	0.0	50.0	50.0	MUDDY WATER
1500.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 48000PPM

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:	0.8416	STB	AVERAGE WATER RATE:	464.7767	STB/D
WATER VOLUME:	18.5241	STB			
TOTAL FLUID :	19.3657	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1850.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	467.00	627.00
INITIAL SHUT-IN	60.00		681.00
FINAL FLOW	30.00	692.00	692.00
FINAL SHUT-IN	60.00		692.00

FINAL HYDROSTATIC PRESSURE: 1823.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1930.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	487.00	681.00
INITIAL SHUT-IN	60.00		695.00
FINAL FLOW	30.00	699.00	704.00
FINAL SHUT-IN	45.00		704.00

FINAL HYDROSTATIC PRESSURE: 1877.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11-30-95	TICKET : 22170
CUSTOMER : HUMMON CORP.	LEASE : SPROUL
WELL : #1	GEOLOGIST: DAVID GOLDAK
ELEVATION: 2448 G.L.	FORMATION: GORHAM SAND
SECTION : 4	TOWNSHIP : 4S
RANGE : 23W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
TEST: 1	
COUNTY: NORTON	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	487.00	487.00
5.00	502.00	15.00
10.00	571.00	69.00
15.00	608.00	37.00
20.00	639.00	31.00
25.00	666.00	27.00
30.00	681.00	15.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	685.00	685.00	0.00
6.00	688.00	3.00	0.00
9.00	690.00	2.00	0.00
12.00	690.00	0.00	0.00
15.00	690.00	0.00	0.00
18.00	691.00	1.00	0.00
21.00	691.00	0.00	0.00
24.00	691.00	0.00	0.00
27.00	692.00	1.00	0.00
30.00	692.00	0.00	0.00
33.00	692.00	0.00	0.00
36.00	693.00	1.00	0.00
39.00	693.00	0.00	0.00
42.00	693.00	0.00	0.00
45.00	694.00	1.00	0.00
48.00	694.00	0.00	0.00
51.00	694.00	0.00	0.00
54.00	695.00	1.00	0.00
57.00	695.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

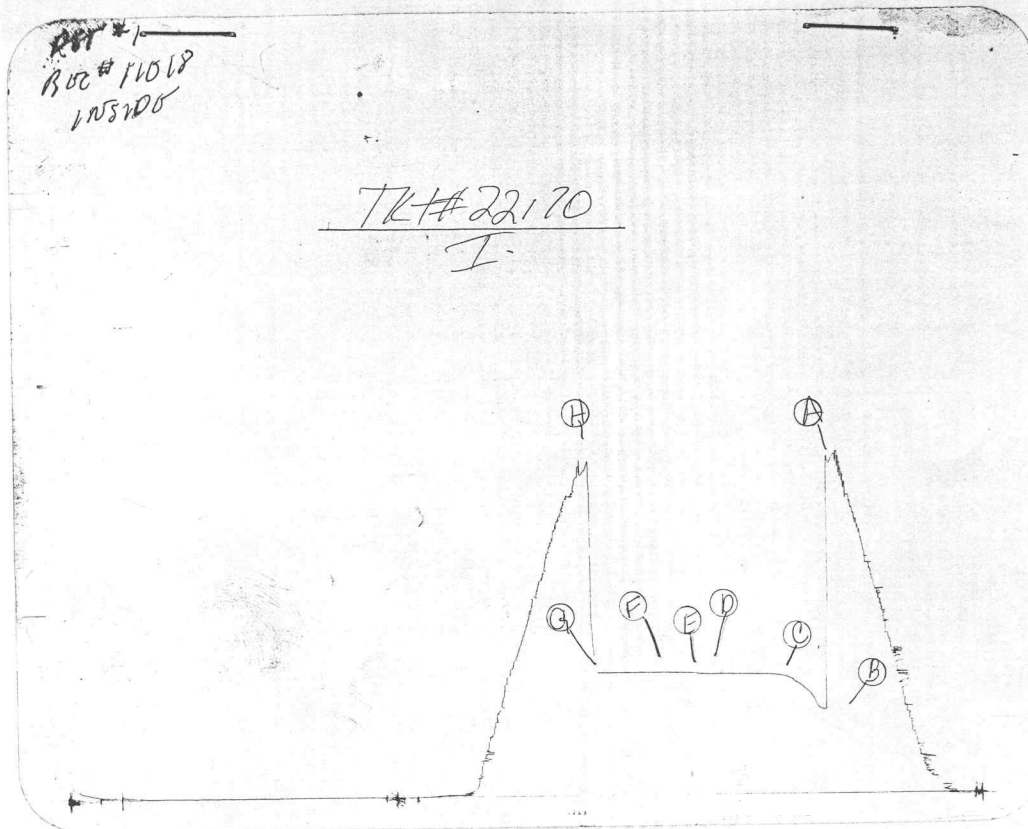
Time (min)	Pressure	Delta P	Horner T
60.00	695.00	0.00	0.00

FINAL FLOW

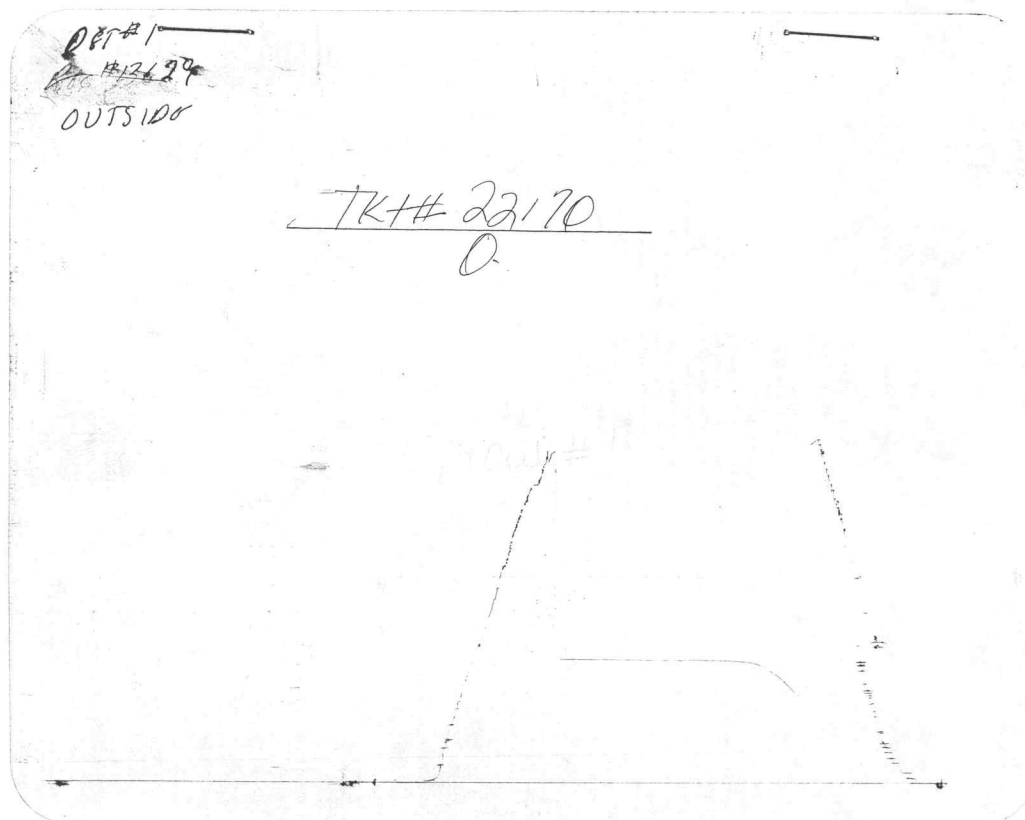
Time (min)	Pressure	Delta P
0.00	699.00	699.00
5.00	704.00	5.00
10.00	704.00	0.00
15.00	704.00	0.00
20.00	704.00	0.00
25.00	704.00	0.00
30.00	704.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	704.00	704.00	0.00
6.00	704.00	0.00	0.00
9.00	704.00	0.00	0.00
12.00	704.00	0.00	0.00
15.00	704.00	0.00	0.00
18.00	704.00	0.00	0.00
21.00	704.00	0.00	0.00
24.00	704.00	0.00	0.00
27.00	704.00	0.00	0.00
30.00	704.00	0.00	0.00
33.00	704.00	0.00	0.00
36.00	704.00	0.00	0.00
39.00	704.00	0.00	0.00
42.00	704.00	0.00	0.00
45.00	704.00	0.00	0.00



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 12-01-95
CUSTOMER : HUMMON CORP.
WELL : #1 TEST: 2
ELEVATION: 2448 G.L.
SECTION : 4
RANGE : 23W COUNTY: NORTON
GAUGE SN#: 11018 RANGE : 4425

TICKET : 22171
LEASE : SPROUL
GEOLOGIST: DAVID GOLDAK
FORMATION: ARBUCKLE
TOWNSHIP : 4S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3847.00 ft TO: 3854.00 ft TVD: 3854.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3840.0 ft 3851.0 ft
TEMPERATURE: 120.0

DRILL COLLAR LENGTH:	360.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3461.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	26.0 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:	3847.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : NEBRASKA DRLG. #1
MUD TYPE : CHEMICAL
WEIGHT : 9.100 ppg
CHLORIDES : 2300 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
WATER LOSS: 7.200 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET IN 2 MINUTES (NO BLOW BACK). WEAK BLOW THROUGHOUT FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	0.0	50.0	50.0	MUDDY WATER
1260.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 36000PPM

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:	0.4208	STB	AVERAGE WATER RATE:	363.7869	STB/D
WATER VOLUME:	14.7370	STB			
TOTAL FLUID :	15.1578	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1940.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	256.00	446.00
INITIAL SHUT-IN	60.00		502.00
FINAL FLOW	30.00	484.00	502.00
FINAL SHUT-IN	60.00		502.00

FINAL HYDROSTATIC PRESSURE: 1910.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1934.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	164.00	467.00
INITIAL SHUT-IN	60.00		502.00
FINAL FLOW	30.00	502.00	522.00
FINAL SHUT-IN	60.00		522.00

FINAL HYDROSTATIC PRESSURE: 1930.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12-01-95	TICKET : 22171	
CUSTOMER : HUMMON CORP.	LEASE : SPROUL	
WELL : #1	GEOLOGIST: DAVID GOLDAK	TEST: 2
ELEVATION: 2448 G.L.	FORMATION: ARBUCKLE	
SECTION : 4	TOWNSHIP : 4S	
RANGE : 23W	STATE : KS	
GAUGE SN#: 11018	CLOCK : 12	COUNTY: NORTON
		RANGE : 4425

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	164.00	164.00
5.00	240.00	76.00
10.00	316.00	76.00
15.00	376.00	60.00
20.00	416.00	40.00
25.00	444.00	28.00
30.00	467.00	23.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	467.00	467.00	0.00
6.00	489.00	22.00	0.00
9.00	493.00	4.00	0.00
12.00	498.00	5.00	0.00
15.00	502.00	4.00	0.00
18.00	502.00	0.00	0.00
21.00	502.00	0.00	0.00
24.00	502.00	0.00	0.00
27.00	502.00	0.00	0.00
30.00	502.00	0.00	0.00
33.00	502.00	0.00	0.00
36.00	502.00	0.00	0.00
39.00	502.00	0.00	0.00
42.00	502.00	0.00	0.00
45.00	502.00	0.00	0.00
48.00	502.00	0.00	0.00
51.00	502.00	0.00	0.00
54.00	502.00	0.00	0.00
57.00	502.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	502.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	502.00	502.00
5.00	507.00	5.00
10.00	511.00	4.00
15.00	513.00	2.00
20.00	516.00	3.00
25.00	520.00	4.00
30.00	522.00	2.00

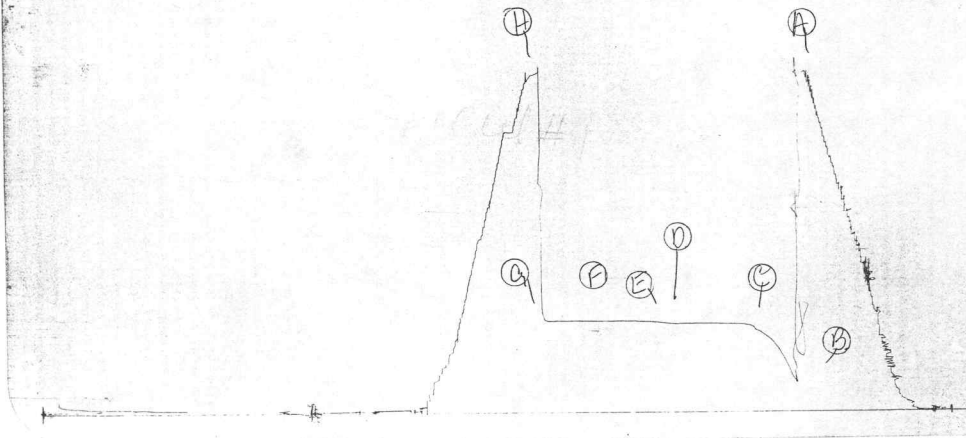
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	522.00	522.00	0.00
6.00	522.00	0.00	0.00
9.00	522.00	0.00	0.00
12.00	522.00	0.00	0.00
15.00	522.00	0.00	0.00
18.00	522.00	0.00	0.00
21.00	522.00	0.00	0.00
24.00	522.00	0.00	0.00
27.00	522.00	0.00	0.00
30.00	522.00	0.00	0.00
33.00	522.00	0.00	0.00
36.00	522.00	0.00	0.00
39.00	522.00	0.00	0.00
42.00	522.00	0.00	0.00
45.00	522.00	0.00	0.00
48.00	522.00	0.00	0.00
51.00	522.00	0.00	0.00
54.00	522.00	0.00	0.00
57.00	522.00	0.00	0.00
60.00	522.00	0.00	0.00

DST #2
INSIDE
ROC #11018

TK#22171

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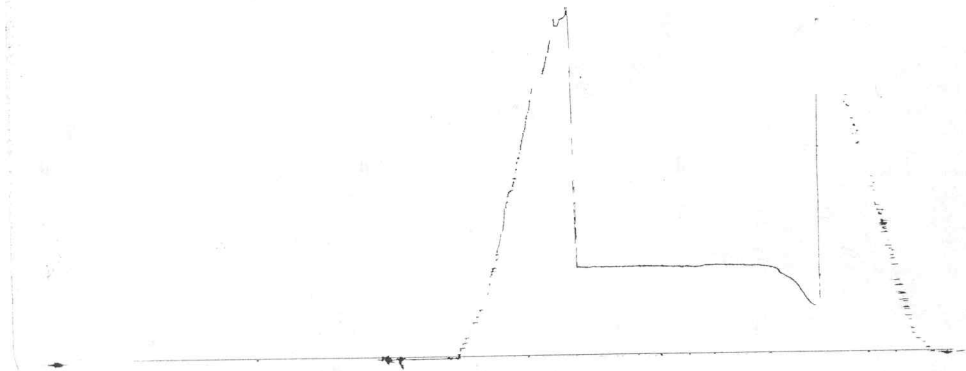


Inside Recorder

DST #2
ROC #13624
OUTSIDE

TK#22171

O



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 12-02-95
CUSTOMER : HUMMON CORP.
WELL : #1 TEST: 3
ELEVATION: 2448 G.L.
SECTION : 4
RANGE : 23W COUNTY: NORTON
GAUGE SN#: 11018 RANGE : 4425

TICKET : 22172
LEASE : SPROUL
GEOLOGIST: DAVID GOLDAK
FORMATION: L. KANSAS CITY
TOWNSHIP : 4S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3623.00 ft TO: 3638.00 ft TVD: 3910.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3626.0 ft 3631.0 ft
TEMPERATURE: 107.0

DRILL COLLAR LENGTH:	360.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3241.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	15.0 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:	3618.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3623.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3638.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : NEBRASKA DRLG. #1
MUD TYPE : CHEMICAL
WEIGHT : 9.100 ppg
CHLORIDES : 2300 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
WATER LOSS: 7.200 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

WEAK BLOW DEAD IN 28 MINUTES ON INITIAL FLOW
PERIOD. NO BLOW ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	0.0	0.0	80.0	20.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 18000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	50.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0658	STB	AVERAGE WATER RATE:	9.4779	STB/D
WATER VOLUME:	0.2633	STB			
TOTAL FLUID :	0.3291	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1800.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	37.00	39.00
INITIAL SHUT-IN	30.00		1250.00
FINAL FLOW	15.00	46.00	46.00
FINAL SHUT-IN	30.00		1250.00

FINAL HYDROSTATIC PRESSURE: 1780.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1817.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	76.00	51.00
INITIAL SHUT-IN	30.00		1264.00
FINAL FLOW	20.00	104.00	71.00
FINAL SHUT-IN	27.00		1258.00

FINAL HYDROSTATIC PRESSURE: 1780.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12-02-95	TICKET : 22172
CUSTOMER : HUMMON CORP.	LEASE : SPROUL
WELL : #1	GEOLOGIST: DAVID GOLDAK
ELEVATION: 2448 G.L.	FORMATION: L. KANSAS CITY
SECTION : 4	TOWNSHIP : 4S
RANGE : 23W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
TEST: 3	
COUNTY: NORTON	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	76.00	76.00
5.00	56.00	-20.00
10.00	51.00	-5.00
15.00	51.00	0.00
20.00	51.00	0.00
25.00	51.00	0.00
30.00	51.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	841.00	841.00	0.00
6.00	1152.00	311.00	0.00
9.00	1189.00	37.00	0.00
12.00	1216.00	27.00	0.00
15.00	1227.00	11.00	0.00
18.00	1238.00	11.00	0.00
21.00	1251.00	13.00	0.00
24.00	1258.00	7.00	0.00
27.00	1262.00	4.00	0.00
30.00	1264.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	104.00	104.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	76.00	-28.00
10.00	71.00	-5.00
15.00	71.00	0.00
20.00	71.00	0.00

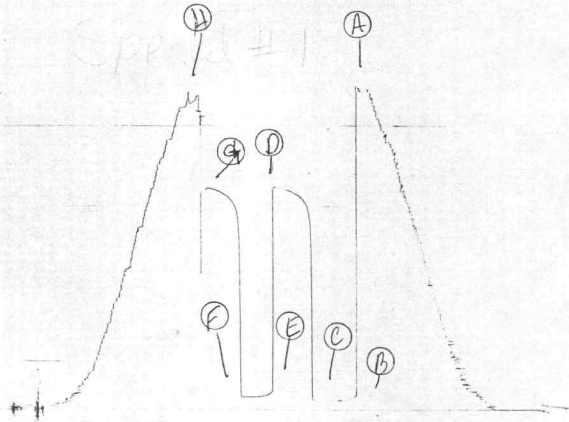
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	945.00	945.00	0.00
6.00	1152.00	207.00	0.00
9.00	1192.00	40.00	0.00
12.00	1214.00	22.00	0.00
15.00	1229.00	15.00	0.00
18.00	1240.00	11.00	0.00
21.00	1251.00	11.00	0.00
24.00	1256.00	5.00	0.00
27.00	1258.00	2.00	0.00

DSF #3
INSIDE TOP
RCC #11018

TK#22172

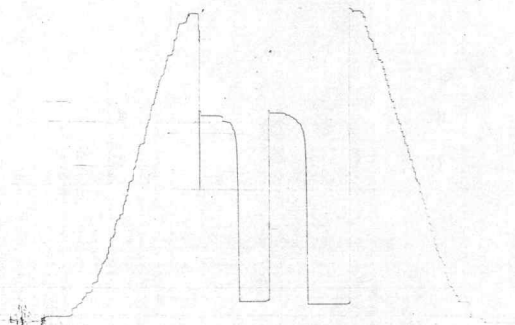
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Inside Recorder

DSF #3
INSIDE BTM
RCC #13629

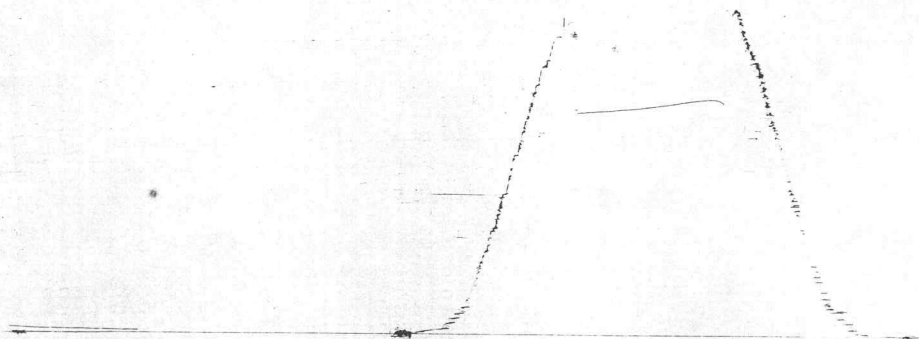
TK#22172
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Outside Recorder

DS #3
Below STRADDLE
RSC #13628

TK# 22172
Below Straddle



Inside Recorder

Outside Recorder