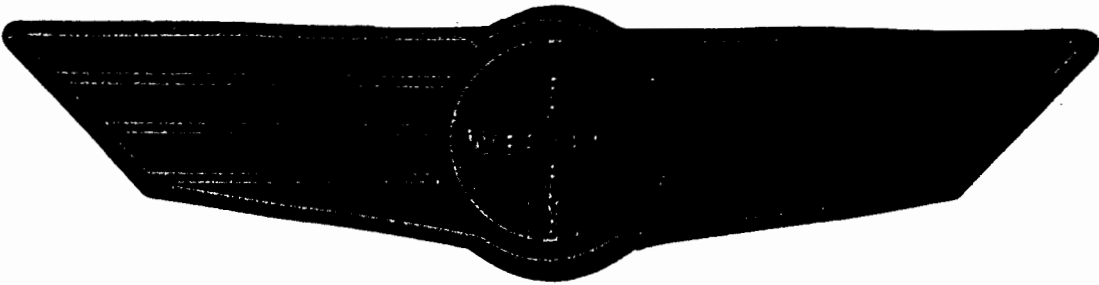


Ps 1086 psi

# FORMATION TEST REPORT



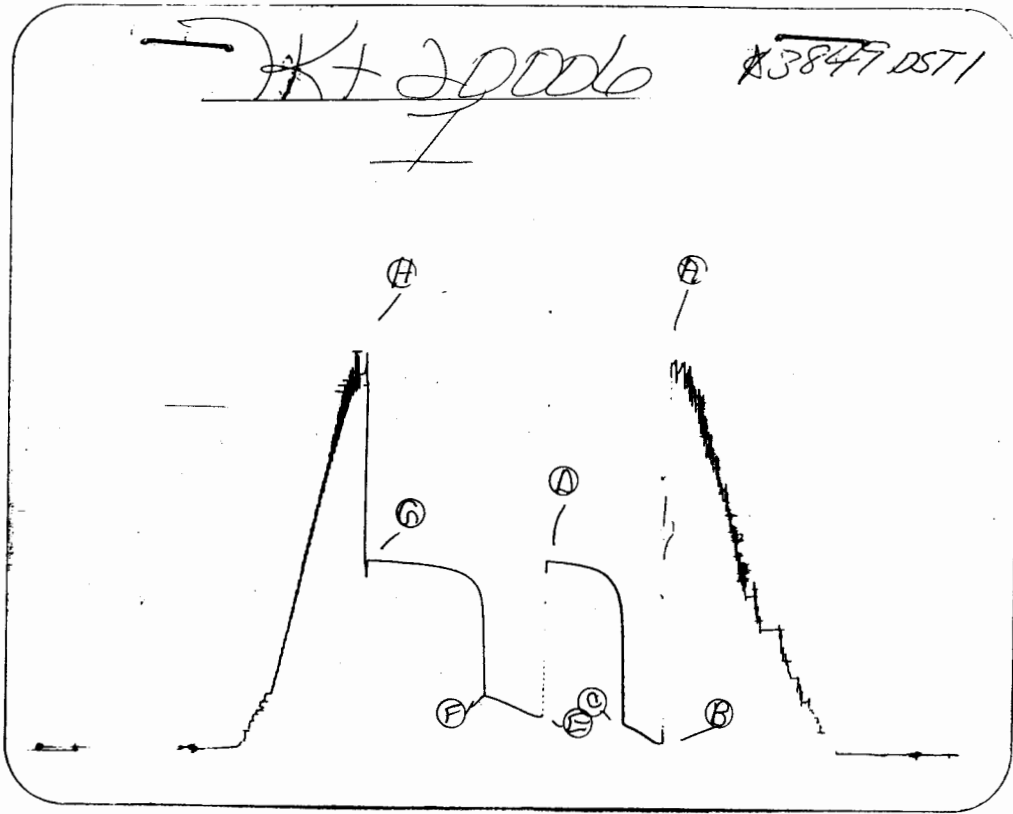
Home Office:

Wichita, Kansas 67201

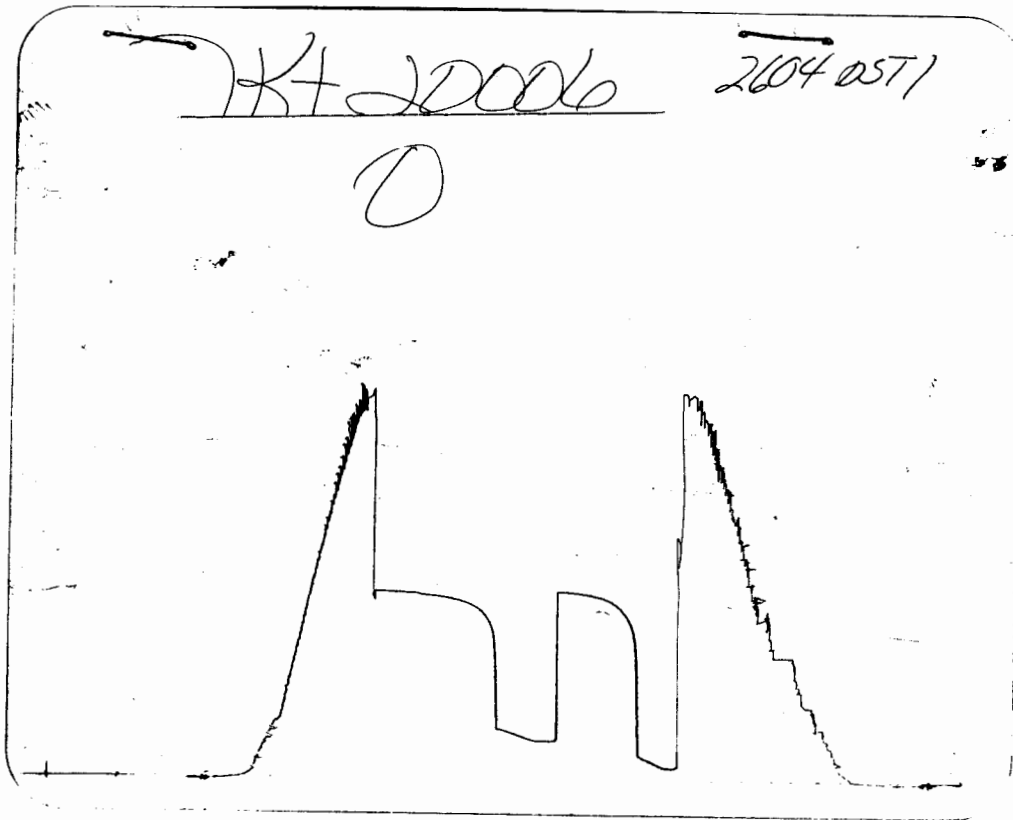
P.O. Box 1599

Phone 1-800-688-7021

COMPANY HUGOTON ENERGY CORPORATION LEASE & WELL NO. #3-30 KREY SEC. 30 TWP. 32S RGE. 40W TEST NO. 1 DATE 2/22/94



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 2/22/94	TICKET	: 20006
CUSTOMER	: HUGOTON ENERGY CORP	LEASE	: KREY
WELL	: #3-30	TEST:	1
ELEVATION:	3377 KB	GEOLOGIST:	?
SECTION	: 30	FORMATION:	MARMATON
RANGE	: 40W	COUNTY:	MORTON
GAUGE SN#:	3849	STATE	: KS
		RANGE	: 4200
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4474.00 ft	TO:	4487.00 ft	TVD:	4487.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4477.0 ft		4480.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	613.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3835.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	13.0 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:	4469.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4474.0 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 6	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.800 cc
WEIGHT :	8.900 ppg	SERIAL NUMBER:	
CHLORIDES :	1000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1/2 INCH TO STRONG BLOW  
BOTTOM OF BUCKET IN 7 MINUTES. FINAL FLOW PERIOD  
VERY WEAK 1/4 INCH TO STRONG BLOW IN 19 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
0.0	0.0	0.0	0.0	0.0	275 FT GAS ABOVE FLUID
90.0	0.0	0.0	68.0	32.0	MUD CUT WATER
530.0	0.0	0.0	100.0	0.0	SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 188000

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.1620	STB	AVERAGE WATER RATE:	59.7619	STB/D
WATER VOLUME:	2.9506	STB			
TOTAL FLUID :	3.1126	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2116.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	36.00	144.00
INITIAL SHUT-IN	60.00		1035.00
FINAL FLOW	45.00	172.00	289.00
FINAL SHUT-IN	90.00		1035.00

FINAL HYDROSTATIC PRESSURE: 2078.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2135.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	154.00
INITIAL SHUT-IN	60.00		1049.00
FINAL FLOW	45.00	195.00	305.00
FINAL SHUT-IN	90.00		1046.00

FINAL HYDROSTATIC PRESSURE: 2072.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/22/94	TICKET : 20006
CUSTOMER : HUGOTON ENERGY CORP	LEASE : KREY
WELL : #3-30 TEST: 1	GEOLOGIST: ?
ELEVATION: 3377 KB	FORMATION: MARMATON
SECTION : 30	TOWNSHIP : 32S
RANGE : 40W COUNTY: MORTON	STATE : KS
GAUGE SN#: 3849 RANGE : 4200	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	50.00	50.00
5.00	53.00	3.00
10.00	78.00	25.00
15.00	98.00	20.00
20.00	121.00	23.00
25.00	138.00	17.00
30.00	154.00	16.00

INITIAL SHUT IN

	Time (min)	Pressure	Delta P	Horner T
<i>30+</i>	// 3.00	781.00	781.00	0.00
	6 6.00	876.00	95.00	0.00
	43 9.00	926.00	50.00	0.00
	3.5 12.00	951.00	25.00	0.00
	3 15.00	974.00	23.00	0.00
	2.7 18.00	991.00	17.00	0.00
	2.4 21.00	1001.00	10.00	0.00
	2.25 24.00	1008.00	7.00	0.00
	2.1 27.00	1016.00	8.00	0.00
	2 30.00	1020.00	4.00	0.00
	1.9 33.00	1025.00	5.00	0.00
	1.8 36.00	1028.00	3.00	0.00
	1.77 39.00	1032.00	4.00	0.00
	1.71 42.00	1036.00	4.00	0.00
	1.67 45.00	1040.00	4.00	0.00
	1.63 48.00	1043.00	3.00	0.00
	1.59 51.00	1045.00	2.00	0.00
	1.56 54.00	1047.00	2.00	0.00
	1.53 57.00	1048.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1049.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	195.00	195.00
5.00	195.00	0.00
10.00	208.00	13.00
15.00	225.00	17.00
20.00	242.00	17.00
25.00	257.00	15.00
30.00	272.00	15.00
35.00	288.00	16.00
40.00	300.00	12.00
45.00	305.00	5.00

FINAL SHUT IN

	<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>	
75+	26	3.00	795.00	795.00	0.00
	13.5	6.00	892.00	97.00	0.00
	9.3	9.00	925.00	33.00	0.00
	7.3	12.00	947.00	22.00	0.00
	6	15.00	964.00	17.00	0.00
	5.2	18.00	976.00	12.00	0.00
	4.6	21.00	986.00	10.00	0.00
	4.1	24.00	994.00	8.00	0.00
	3.8	27.00	1000.00	6.00	0.00
	3.5	30.00	1004.00	4.00	0.00
	3.3	33.00	1009.00	5.00	0.00
	3.1	36.00	1016.00	7.00	0.00
	2.9	39.00	1019.00	3.00	0.00
	2.8	42.00	1021.00	2.00	0.00
	2.7	45.00	1023.00	2.00	0.00
	2.6	48.00	1025.00	2.00	0.00
	2.47	51.00	1027.00	2.00	0.00
	2.4	54.00	1029.00	2.00	0.00
	2.32	57.00	1031.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

	<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
<i>75+</i>				
<i>2.25</i>	60.00	1033.00	2.00	0.00
	63.00	1035.00	2.00	0.00
	66.00	1037.00	2.00	0.00
<i>2.09</i>	69.00	1039.00	2.00	0.00
	72.00	1040.00	1.00	0.00
<i>2</i>	75.00	1041.00	1.00	0.00
	78.00	1042.00	1.00	0.00
	81.00	1043.00	1.00	0.00
<i>1.89</i>	84.00	1044.00	1.00	0.00
	87.00	1045.00	1.00	0.00
<i>1.8</i>	90.00	1046.00	1.00	0.00

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 2/22/94  
CUSTOMER : HUGOTON ENERGY CORP  
WELL : #3-30 TEST: 1  
ELEVATION: 3377 KB  
SECTION : 30  
RANGE : 40W COUNTY: MORTON  
GAUGE SN#: 3849 RANGE : 4200  
TICKET : 20006  
LEASE : KREY  
GEOLOGIST: ?  
FORMATION: MARMATON  
TOWNSHIP : 32S  
STATE : KS  
CLOCK : 12

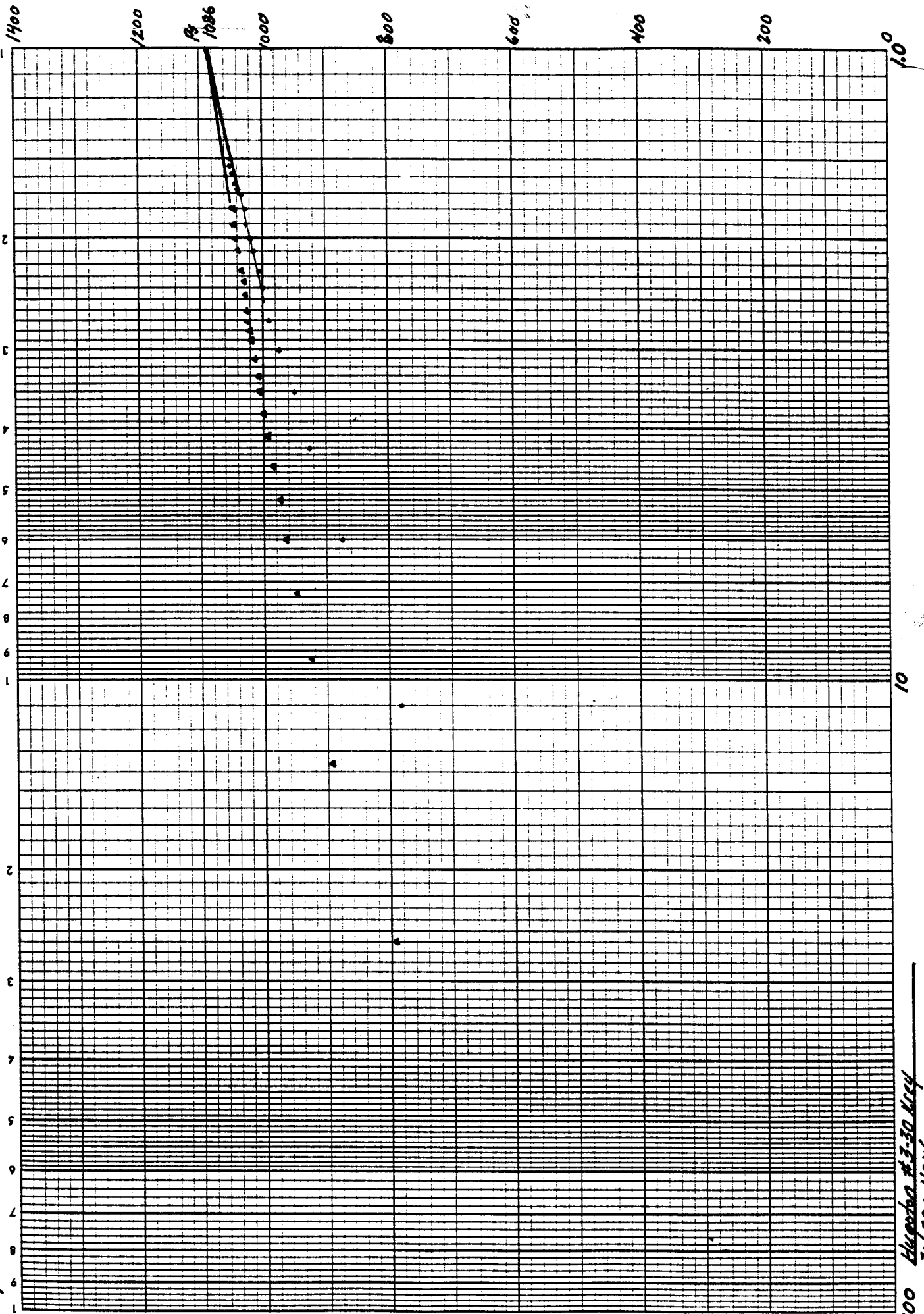
SAMPLE INFORMATION

PRESSURE IN SAMPLER: 112.00 PSIG BHT: 122.0 DEG F  
TOTAL VOLUME OF SAMPLER: 3150.00 cc  
TOTAL VOLUME OF SAMPLE: 2900.00 cc  
OIL: 0.00 cc  
WATER: 2900.00 cc  
MUD: 0.00 cc  
GAS: 1.07 cc  
OTHER: 0.00 cc

RESISTIVITY

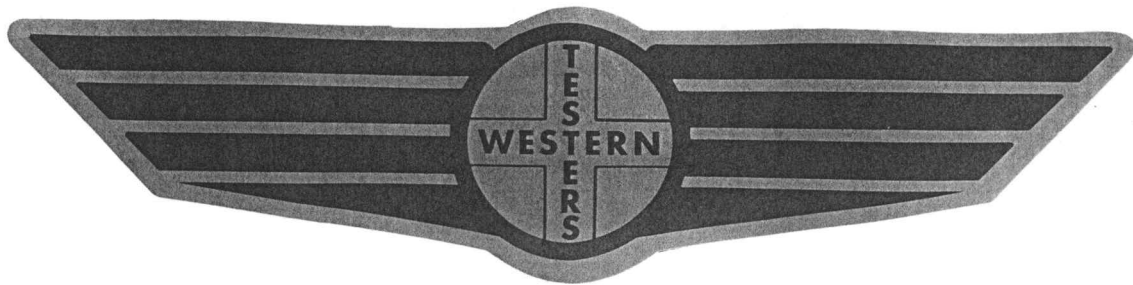
DRILLING MUD: .062 @ 55 DEGREES F CHLORIDE CONTENT: 188000.00 ppm  
MUD PIT SAMPLE: 4.0 @ 60 DEGREES F CHLORIDE CONTENT: 1600.00 ppm  
GAS/OIL RATIO: GRAVITY:  
WHERE WAS SAMPLE DRAINED: ON LOCATION  
REMARKS: NITRATED CHLORIDES 114000 PPM

Depth 4474-87 Fm. Hornerston



100 Hornerston #2-30 May  
30-322-40W

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 2/25/94 TICKET : 20007  
CUSTOMER : HUGOTON ENERGY CORP LEASE : KREY  
WELL : #3-30 TEST: 2 GEOLOGIST: ?  
ELEVATION: 3377 KB FORMATION: MORROW  
SECTION : 30 TOWNSHIP : 32S  
RANGE : 40W COUNTY: MORTON STATE : KS  
GAUGE SN#: 3849 RANGE : 4200 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5309.00 ft TO: 5330.00 ft TVD: 5330.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 5316.0 ft 5319.0 ft  
TEMPERATURE: 0.0

DRILL COLLAR LENGTH: 613.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4664.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 32.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 21.0 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: 5304.0 ft SIZE: 6.630 in  
PACKER DEPTH: 5309.0 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 6  
MUD TYPE : CHEMICAL VISCOSITY : 45.00 cp  
WEIGHT : 9.100 ppg WATER LOSS: 9.600 cc  
CHLORIDES : 2000 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 408  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD FAIR TO STRONG BLOW - BOTTOM  
OF BUCKET IN 2 MINUTES. FINAL FLOW PERIOD FAIR TO  
STRONG BLOW - BOTTOM OF BUCKET IN 11 MINUTES.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

15 FT FILL, WORKED TOOL TO 2 FT OFF BOTTOM BEFORE  
OPENING.

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
	Oil	Gas	Water	Mud	
0.0	0.0	0.0	0.0	0.0	775 FT GAS ABOVE FLUID WATER CUT MUD
30.0	0.0	0.0	12.0	88.0	

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.1298	STB	AVERAGE WATER RATE:	2.8325	STB/D
WATER VOLUME:	0.0177	STB			
TOTAL FLUID :	0.1475	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2538.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	29.00	38.00
INITIAL SHUT-IN	60.00		1236.00
FINAL FLOW	45.00	44.00	48.00
FINAL SHUT-IN	90.00		1251.00

FINAL HYDROSTATIC PRESSURE: 2514.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2561.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	43.00	47.00
INITIAL SHUT-IN	60.00		1253.00
FINAL FLOW	45.00	63.00	70.00
FINAL SHUT-IN	90.00		1268.00

FINAL HYDROSTATIC PRESSURE: 2475.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 2/25/94	TICKET	: 20007
CUSTOMER	: HUGOTON ENERGY CORP	LEASE	: KREY
WELL	: #3-30	TEST:	2
ELEVATION:	3377 KB	GEOLOGIST:	?
SECTION	: 30	FORMATION:	MORROW
RANGE	: 40W	TOWNSHIP	: 32S
COUNTY:	MORTON	STATE	: KS
Gauge SN#:	3849	RANGE	: 4200
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	43.00	43.00
5.00	43.00	0.00
10.00	43.00	0.00
15.00	44.00	1.00
20.00	45.00	1.00
25.00	46.00	1.00
30.00	47.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	105.00	105.00	0.00
6.00	177.00	72.00	0.00
9.00	244.00	67.00	0.00
12.00	323.00	79.00	0.00
15.00	404.00	81.00	0.00
18.00	485.00	81.00	0.00
21.00	569.00	84.00	0.00
24.00	658.00	89.00	0.00
27.00	750.00	92.00	0.00
30.00	817.00	67.00	0.00
33.00	896.00	79.00	0.00
36.00	961.00	65.00	0.00
39.00	1019.00	58.00	0.00
42.00	1073.00	54.00	0.00
45.00	1117.00	44.00	0.00
48.00	1153.00	36.00	0.00
51.00	1186.00	33.00	0.00
54.00	1218.00	32.00	0.00
57.00	1242.00	24.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1253.00	11.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	63.00	63.00
5.00	63.00	0.00
10.00	63.00	0.00
15.00	64.00	1.00
20.00	65.00	1.00
25.00	66.00	1.00
30.00	67.00	1.00
35.00	68.00	1.00
40.00	69.00	1.00
45.00	70.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	154.00	154.00	0.00
6.00	217.00	63.00	0.00
9.00	290.00	73.00	0.00
12.00	366.00	76.00	0.00
15.00	438.00	72.00	0.00
18.00	502.00	64.00	0.00
21.00	571.00	69.00	0.00
24.00	629.00	58.00	0.00
27.00	695.00	66.00	0.00
30.00	756.00	61.00	0.00
33.00	801.00	45.00	0.00
36.00	850.00	49.00	0.00
39.00	891.00	41.00	0.00
42.00	930.00	39.00	0.00
45.00	963.00	33.00	0.00
48.00	1000.00	37.00	0.00
51.00	1029.00	29.00	0.00
54.00	1052.00	23.00	0.00
57.00	1077.00	25.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1103.00	26.00	0.00
63.00	1128.00	25.00	0.00
66.00	1149.00	21.00	0.00
69.00	1169.00	20.00	0.00
72.00	1186.00	17.00	0.00
75.00	1202.00	16.00	0.00
78.00	1220.00	18.00	0.00
81.00	1236.00	16.00	0.00
84.00	1252.00	16.00	0.00
87.00	1264.00	12.00	0.00
90.00	1268.00	4.00	0.00

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 2/25/94  
CUSTOMER : HUGOTON ENERGY CORP  
WELL : #3-30 TEST: 2  
ELEVATION: 3377 KB  
SECTION : 30  
RANGE : 40W COUNTY: MORTON  
GAUGE SN#: 3849 RANGE : 4200  
TICKET : 20007  
LEASE : KREY  
GEOLOGIST: ?  
FORMATION: MORROW  
TOWNSHIP : 32S  
STATE : KS  
CLOCK : 12

SAMPLE INFORMATION

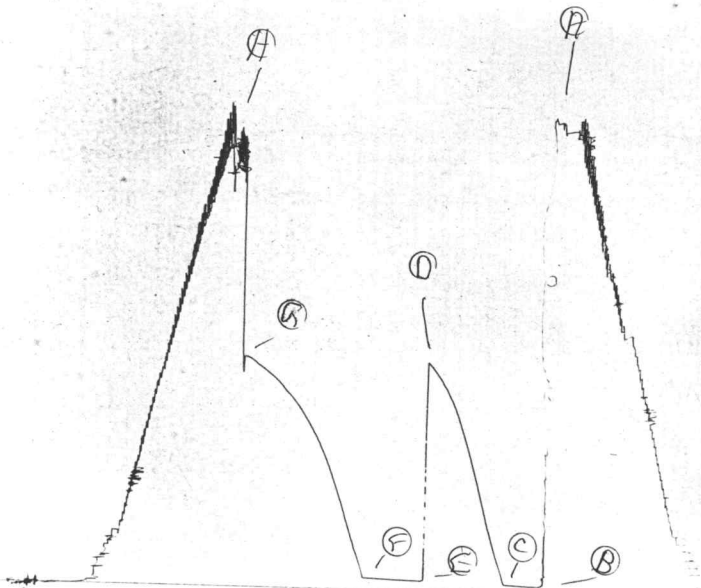
PRESSURE IN SAMPLER: 42.00 PSIG BHT: 135.0 DEG F  
TOTAL VOLUME OF SAMPLER: 3150.00 cc  
TOTAL VOLUME OF SAMPLE: 2450.00 cc  
OIL: 0.00 cc  
WATER: 550.00 cc  
MUD: 1900.00 cc  
GAS: 0.43 cc  
OTHER: 0.00 cc

RESISTIVITY

DRILLING MUD: .23 @ 65 DEGREES F CHLORIDE CONTENT: 31000.00 ppm  
MUD PIT SAMPLE: 1.9 @ 65 DEGREES F CHLORIDE CONTENT: 3300.00 ppm  
GAS/OIL RATIO: GRAVITY:  
WHERE WAS SAMPLE DRAINED: ON LOCATION  
REMARKS:

KT 20007  
I

#3849 DST 2



KT 20007

2604 DST2

0

