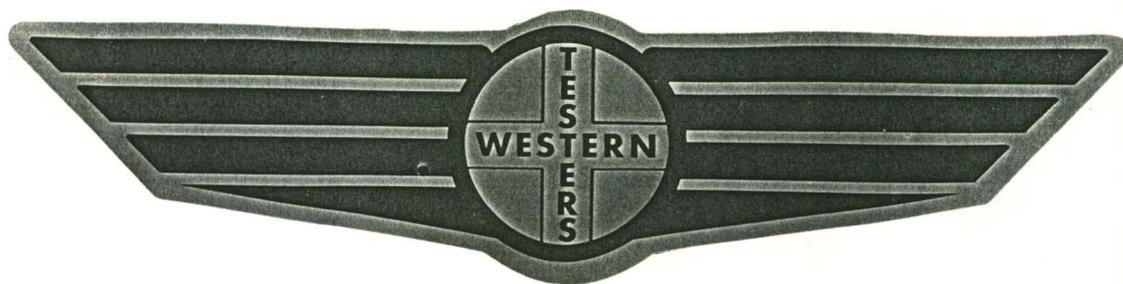


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 8-31-94
CUSTOMER : MCCOY PETROLEUM CORP
WELL : #1-31 TEST: 1
ELEVATION: 2293 EST. G.R.
SECTION : 31
RANGE : 20W COUNTY: RUSH
GAUGE SN#: 11018 RANGE : 4425

TICKET : 20890
LEASE : YOUNG A
GEOLOGIST: J. HASTING
FORMATION: MISSISSIPPI
TOWNSHIP : 19S
STATE : KS
CLOCK : 12 H.R.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4421.00 ft TO: 4426.00 ft TVD: 4426.0 ft
DEPTH OF SELECTIVE ZONE: NONE TEST TYPE: OIL
DEPTH OF RECORDERS: 4404.0 ft 4423.0 ft
TEMPERATURE: 126.0

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 : 4391.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 5.0 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: 4416.0 ft SIZE: 6.630 in
PACKER DEPTH: 4421.0 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. : VAL ENERGY RIG 1
MUD TYPE : CHEMICAL
WEIGHT : 9.500 ppg
CHLORIDES : 4200 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 42.00 cp
WATER LOSS: 11.200 cc
SERIAL NUMBER: 12369
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW STRONG BLOW OFF BUTTOM OF BUCKET IN
7 MINUTES
FINAL FLOW STRONG BLOW BUILT TO 10 INCHES

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
210.0	90.0	10.0	0.0	0.0	CLEAN GASSY OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 37 @ 60 DEGREES F
60.0	50.0	10.0	0.0	40.0	HEAVY MUD CUT GASSY OIL
125.0	60.0	10.0	0.0	30.0	MUD CUT GASSY OIL
0.0	0.0	0.0	0.0	0.0	210 FT OF GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	4.1237 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	3.1109 SCF	AVERAGE OIL RATE:	119.6729 STB/D
MUD VOLUME:	0.8626 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	4.9864 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2176.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	100.00
INITIAL SHUT-IN	60.00		1052.00
FINAL FLOW	30.00	133.00	151.00
FINAL SHUT-IN	60.00		958.00

FINAL HYDROSTATIC PRESSURE: 2150.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2175.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	103.00
INITIAL SHUT-IN	60.00		1035.00
FINAL FLOW	30.00	196.00	163.00
FINAL SHUT-IN	66.00		942.00

FINAL HYDROSTATIC PRESSURE: 2150.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-31-94	TICKET : 20890
CUSTOMER : MCCOY PETROLEUM CORP	LEASE : YOUNG A
WELL : #1-31 TEST: 1	GEOLOGIST: J. HASTING
ELEVATION: 2293 EST. G.R.	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12 H.R.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	107.00	107.00
5.00	102.00	-5.00
10.00	97.00	-5.00
15.00	98.00	1.00
20.00	100.00	2.00
25.00	101.00	1.00
30.00	103.00	2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	602.00	602.00	11.00
6.00	693.00	91.00	6.00
9.00	752.00	59.00	4.33
12.00	794.00	42.00	3.50
15.00	826.00	32.00	3.00
18.00	846.00	20.00	2.67
21.00	874.00	28.00	2.43
24.00	885.00	11.00	2.25
27.00	907.00	22.00	2.11
30.00	916.00	9.00	2.00
33.00	937.00	21.00	1.91
36.00	948.00	11.00	1.83
39.00	965.00	17.00	1.77
42.00	977.00	12.00	1.71
45.00	991.00	14.00	1.67
48.00	1002.00	11.00	1.63
51.00	1011.00	9.00	1.59
54.00	1020.00	9.00	1.56
57.00	1028.00	8.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1035.00	7.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	196.00	196.00
5.00	168.00	-28.00
10.00	163.00	-5.00
15.00	159.00	-4.00
20.00	159.00	0.00
25.00	161.00	2.00
30.00	163.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	474.00	474.00	11.00
6.00	585.00	111.00	6.00
9.00	646.00	61.00	4.33
12.00	687.00	41.00	3.50
15.00	706.00	19.00	3.00
18.00	728.00	22.00	2.67
21.00	760.00	32.00	2.43
24.00	780.00	20.00	2.25
27.00	800.00	20.00	2.11
30.00	816.00	16.00	2.00
33.00	831.00	15.00	1.91
36.00	842.00	11.00	1.83
39.00	855.00	13.00	1.77
42.00	871.00	16.00	1.71
45.00	882.00	11.00	1.67
48.00	888.00	6.00	1.63
51.00	900.00	12.00	1.59
54.00	912.00	12.00	1.56
57.00	920.00	8.00	1.53
60.00	927.00	7.00	1.50
63.00	936.00	9.00	1.48
66.00	942.00	6.00	1.45

DATE
CUSTOMER
WELL
ELEVATION
SECTION
RANGE
GAUGE SN#

8-31-94
MCCOY PETROLEUM CORP
#1-31
2293 EST. G.R.
31
20W
11018

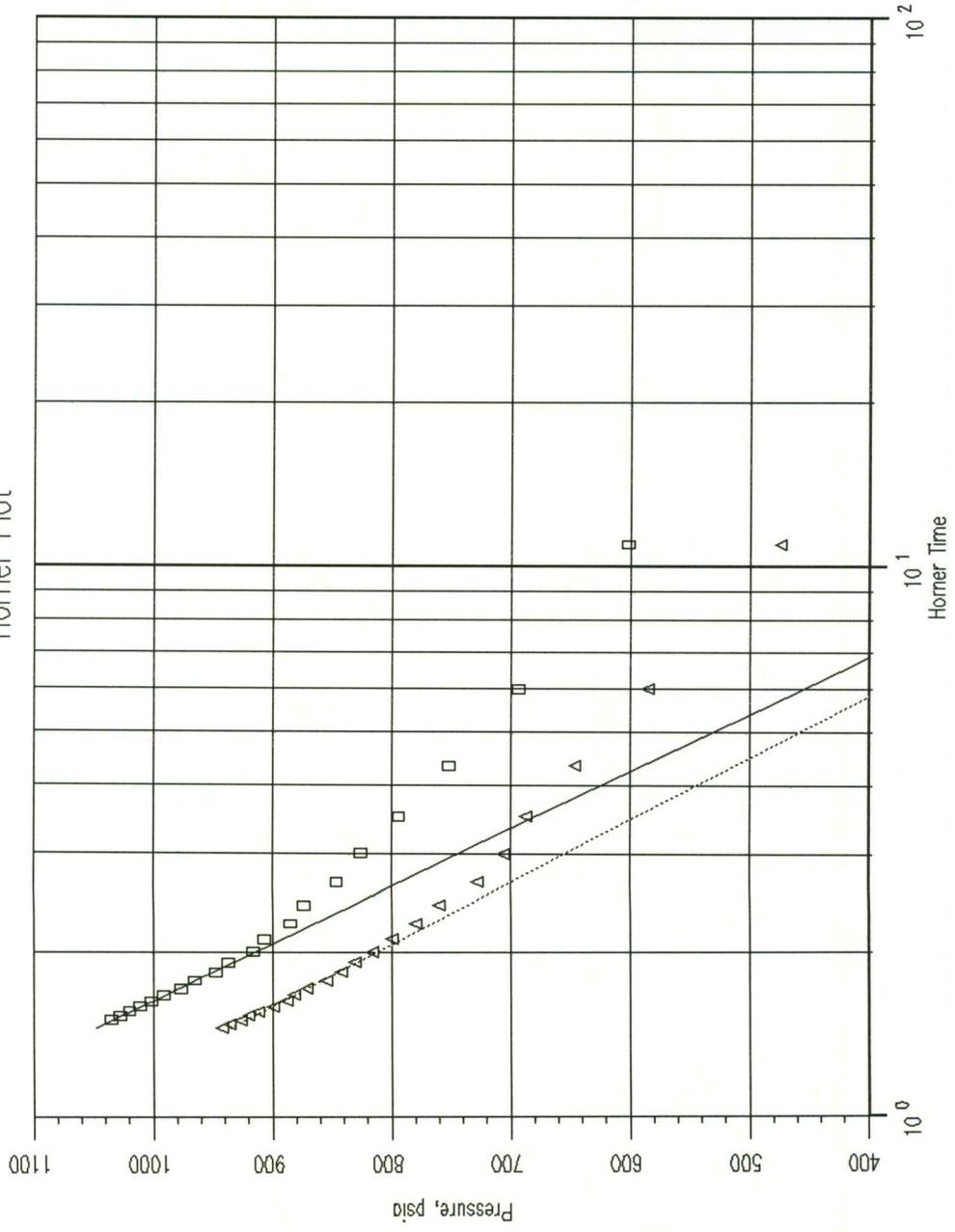
TEST 1

COUNTY RANGE
RUSH
4425

TICKET
LEASE
GEOLOGIST
FORMATION
TOWNSHIP
STATE
CLOCK

20890
YOUNG A
J. HASTING
MISSISSIPPI
19S
KS
12 H.R.

Horner Plot



Result

	#1	#2
tp, hrs	0.50	0.50
Slope	-965.86	-890.68
Pstar, psig	1204.97	1079.77
P1hr, psig	1034.89	922.93
Skin	-1.11	-1.28
k, md	6.07	6.58
kh/u, md-ft/cp	22.30	24.18
ri, ft	4.94	5.15
DR, %	0.40	0.35
Drawdown Factor, %		8.986
Drawdown P*, %		10.390

— BUILD 1
..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 8-31-94	TICKET : 20890
CUSTOMER : MCCOY PETROLEUM CORP	LEASE : YOUNG A
WELL : #1-31 TEST: 1	GEOLOGIST: J. HASTING
ELEVATION: 2293 EST. G.R.	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12 H.R.

Input Data

Porosity	0.300	Rw:	0.328 ft	h:	5.000 ft
qo	119.7 STB	GOR	209.1 SCF/STB		

Pvt Data
 Evaluation Pressure : 1035.0
 Evaluation Temperature: 126.0

Oil Grav	35.00 API	Gas Grav	0.65 API	Pb	1035.00 PSIA
Bo	1.107 RBL/STB	Vis	1.000 cp	Ct	3.2093E-004 1/PSI

Horner Results

	Initial Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.50 hrs
slope	-965.86	-890.68
pstar	1204.97 psig	1079.77 psig
plhr	1034.89 psig	922.93 psig
skin	-1.11	-1.28
permeability	6.07 md	6.58 md
transmissability	22.30 md-ft/cp	24.18 md-ft/cp
radius of investigation	4.94 ft	5.15 ft
Damage-Ratio	0.4 percent	0.35 percent
Drawdown Factor		8.986 percent
Drawdown P*		10.390 percent

DST REPORT

Sent to Henry by [unclear] made other DST manual

GENERAL INFORMATION

DATE : 8-31-94	TICKET :
CUSTOMER : MCCOY PETRULUM	LEASE : YOUNG
WELL : A-31 TEST: 1	GEOLOGIST: J. HASTING
ELEVATION: 2270 EST. G.L.	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12 H.R.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4421.00 ft	TO: 4426.00 ft	TVD: 4426.0 ft
DEPTH OF SELECTIVE ZONE: NONE	TEST TYPE: OIL	
DEPTH OF RECORDERS: 4404.0 ft	4423.0 ft	
TEMPERATURE: 126.0		

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 : 4391.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 30.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 5.0 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: 4416.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4421.0 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. : VAL ENERGY RIG 1	VISCOSITY : 42.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 11.200 cc
WEIGHT : 9.500 ppg	
CHLORIDES : 4200 ppm	
JARS-MAKE : WTC	SERIAL NUMBER: 12369
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW STRONG BLOW OFF BUTTOM OF BUCKET IN
7 MINUTES
FINAL FLOW STRONG BLOW BUILT TO 10 INCHES

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
210.0	90.0	10.0	0.0	0.0	CLEAN GASSY OIL
60.0	50.0	10.0	0.0	40.0	HEAVY MUD CUT GASSY OIL
125.0	60.0	10.0	0.0	20.0	MUD CUT GASSY OIL
0.0	0.0	0.0	0.0	0.0	210 FT OF GAS ABOVE FLUID
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	4.1237 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	3.1109 SCF	AVERAGE OIL RATE:	115.4650 STB/D
MUD VOLUME:	0.6873 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	4.8110 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2176.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	100.00
INITIAL SHUT-IN	60.00		1052.00
FINAL FLOW	30.00	133.00	151.00
FINAL SHUT-IN	60.00		958.00

FINAL HYDROSTATIC PRESSURE: 2150.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2175.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	103.00
INITIAL SHUT-IN	60.00		1035.00
FINAL FLOW	30.00	196.00	163.00
FINAL SHUT-IN	66.00		942.00

FINAL HYDROSTATIC PRESSURE: 2150.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET :
CUSTOMER : MCCOY PETRULUM	LEASE : YOUNG
WELL : A-31 TEST: 1	GEOLOGIST: J. HASTING
ELEVATION: 2270 EST. G.L.	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12 H.R.

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	107.00	107.00
5.00	102.00	-5.00
10.00	97.00	-5.00
15.00	98.00	1.00
20.00	100.00	2.00
25.00	101.00	1.00
30.00	103.00	2.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	602.00	602.00	11.00
6.00	693.00	91.00	6.00
9.00	752.00	59.00	4.33
12.00	794.00	42.00	3.50
15.00	826.00	32.00	3.00
18.00	846.00	20.00	2.67
21.00	874.00	28.00	2.43
24.00	885.00	11.00	2.25
27.00	907.00	22.00	2.11
30.00	916.00	9.00	2.00
33.00	937.00	21.00	1.91
36.00	948.00	11.00	1.83
39.00	965.00	17.00	1.77
42.00	977.00	12.00	1.71
45.00	991.00	14.00	1.67
48.00	1002.00	11.00	1.63
51.00	1011.00	9.00	1.59
54.00	1020.00	9.00	1.56
57.00	1028.00	8.00	1.53

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	1035.00	7.00	1.50

FINAL FLOW

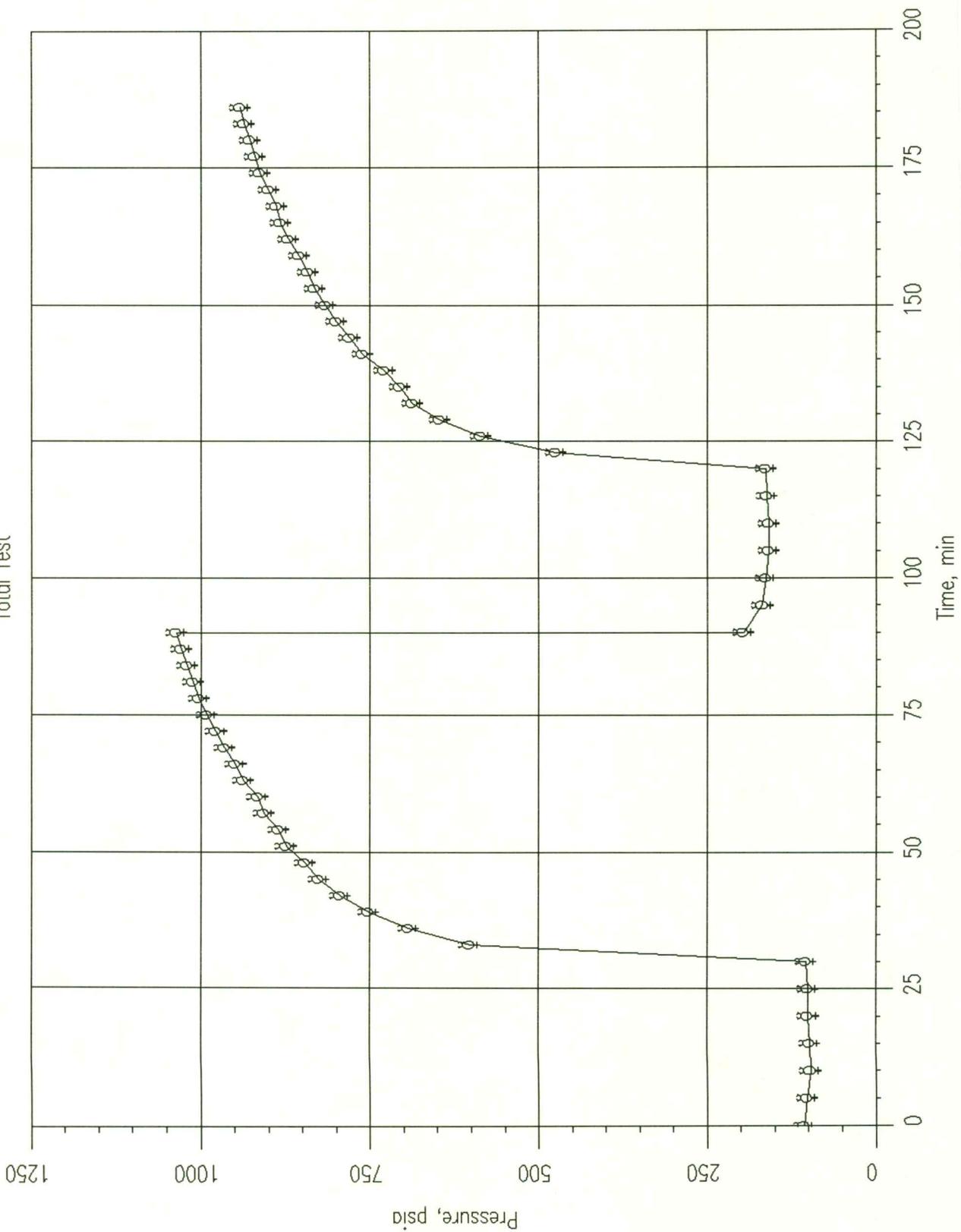
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	196.00	196.00
5.00	168.00	-28.00
10.00	163.00	-5.00
15.00	159.00	-4.00
20.00	159.00	0.00
25.00	161.00	2.00
30.00	163.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	474.00	474.00	11.00
6.00	585.00	111.00	6.00
9.00	646.00	61.00	4.33
12.00	687.00	41.00	3.50
15.00	706.00	19.00	3.00
18.00	728.00	22.00	2.67
21.00	760.00	32.00	2.43
24.00	780.00	20.00	2.25
27.00	800.00	20.00	2.11
30.00	816.00	16.00	2.00
33.00	831.00	15.00	1.91
36.00	842.00	11.00	1.83
39.00	855.00	13.00	1.77
42.00	871.00	16.00	1.71
45.00	882.00	11.00	1.67
48.00	888.00	6.00	1.63
51.00	900.00	12.00	1.59
54.00	912.00	12.00	1.56
57.00	920.00	8.00	1.53
60.00	927.00	7.00	1.50
63.00	936.00	9.00	1.48
66.00	942.00	6.00	1.45

Profile Plot

Total Test

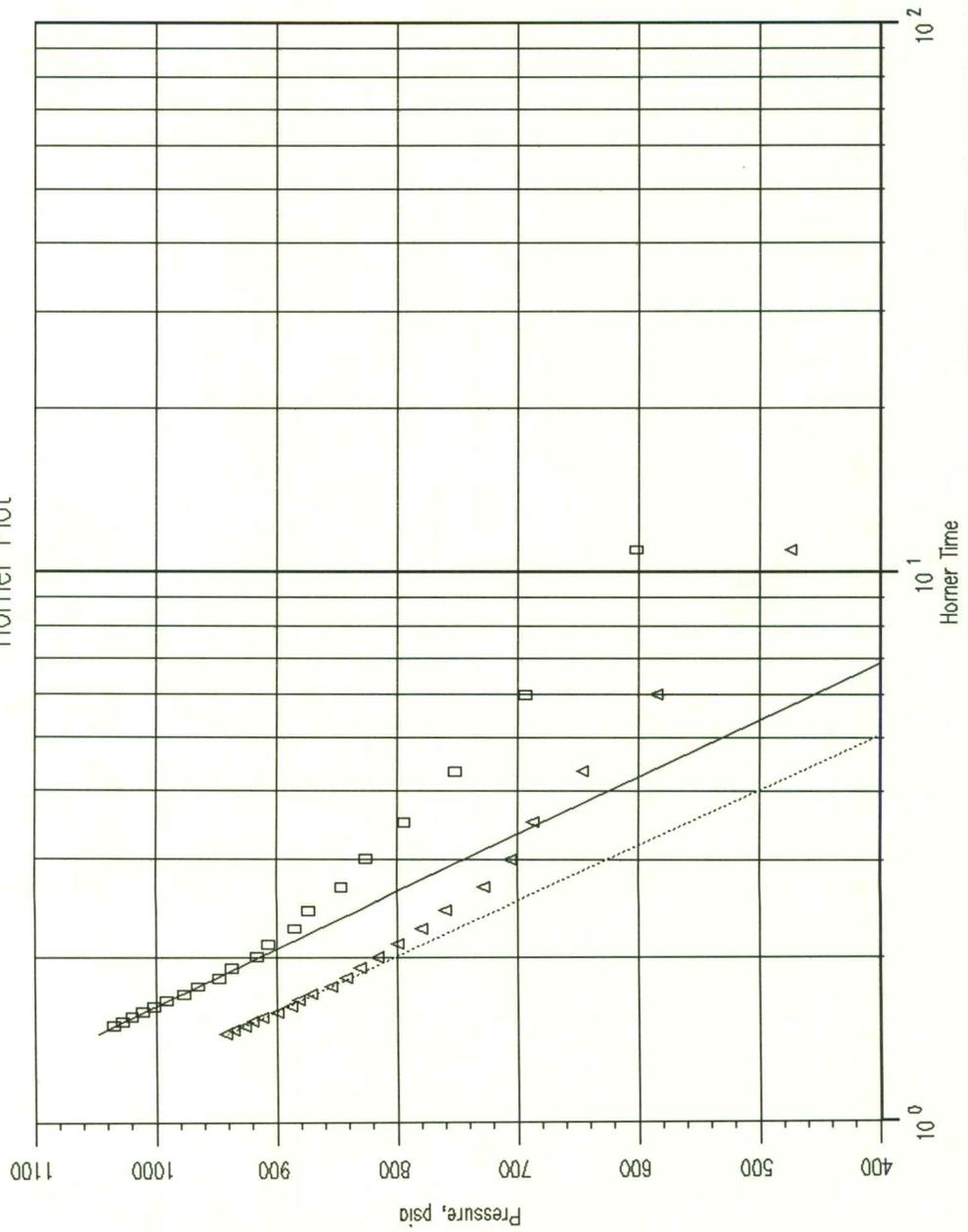


DATE 8-31-93
 CUSTOMER MCCOY PETROLEUM
 WELL A-31
 ELEVATION 2270 EST. G.L.
 SECTION 31
 RANGE 20W
 GAUGE SN# 11018

TEST 1
 COUNTY RUSH
 RANGE 4425

TICKET YOUNG
 LEASE J. HASTING
 GEOLOGIST MISSISSIPPI
 FORMATION 19S
 TOWNSHIP KS
 STATE 12 H.R.
 CLOCK

Horner Plot



Result

	#1	#2
tp, hrs	0.50	0.50
Slope	-965.86	-1000.01
Pstar, psig	1204.97	1103.39
P1hr, psig	1034.89	927.29
Skin	-1.09	-1.30
k, md	5.86	5.66
kh/u, md-ft/cp	21.52	20.78
ri, ft	4.86	4.77
DR, %	0.40	0.32
Drawdown Factor, %		8.986
Drawdown P*, %		8.430

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 8-31-93	TICKET : YOUNG
CUSTOMER : MCCOY PETRULUM	LEASE : YOUNG
WELL : A-31 TEST: 1	GEOLOGIST: J. HASTING
ELEVATION: 2270 EST. G.L.	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12 H.R.

Input Data

Porosity 0.300 Rw: 0.328 ft h: 5.000 ft

qo 115.5 STB GOR 209.1 SCF/STB

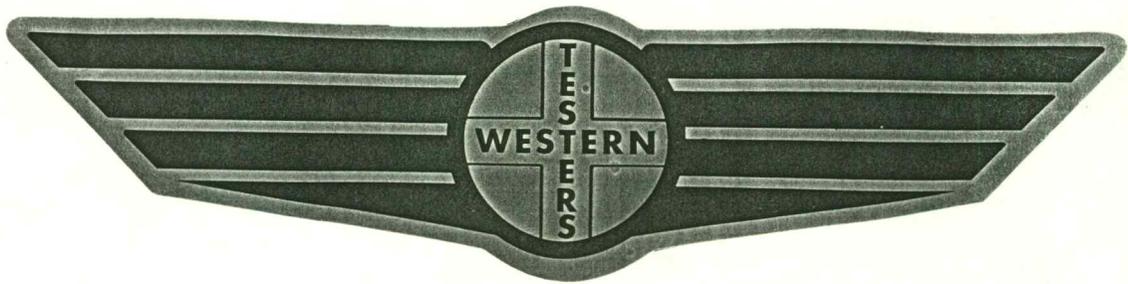
Pvt Data
 Evaluation Pressure : 1035.0
 Evaluation Temperature: 126.0

Oil Grav 35.00 API	Gas Grav 0.65 API	Pb 1035.00 PSIA	
Bo 1.107 RBL/STB	Vis 1.000 cp	Ct 3.2093E-004	1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.50 hrs
slope	-965.86	-1000.01
pstar	1204.97 psig	1103.39 psig
plhr	1034.89 psig	927.29 psig
skin	-1.09	-1.30
permeability	5.86 md	5.66 md
transmisability	21.52 md-ft/cp	20.78 md-ft/cp
radius of investigation	4.86 ft	4.77 ft
Damage-Ratio	0.4 percent	0.32 percent
Drawdown Factor		8.986 percent
Drawdown P*		8.430 percent

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 8/31/94 TICKET : 20891
CUSTOMER : MCCOY PETROLEUM CORP LEASE : YOUNG
WELL : 1-31 TEST: 2 GEOLOGIST: J. HASTING
ELEVATION: 2298 KB FORMATION: MISSISSIPPI
SECTION : 31 TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH STATE : KS
GAUGE SN#: 11018 RANGE : 4425 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4422.00 ft TO: 4432.00 ft TVD: 4432.0 ft
DEPTH OF SELECTIVE ZONE: NONE TEST TYPE: OIL
DEPTH OF RECORDERS: 4425.0 ft 4429.0 ft
TEMPERATURE: 126.0

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 : 4392.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 10.0 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: 4417.0 ft SIZE: 6.630 in
PACKER DEPTH: 4422.0 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. : VAL ENERGY RIG 1
MUD TYPE : CHEMICAL VISCOSITY : 42.00 cp
WEIGHT : 9.500 ppg WATER LOSS: 11.200 cc
CHLORIDES : 4200 ppm
JARS-MAKE : WTC SERIAL NUMBER: 12369
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 10 MINUTES. FINAL FLOW PERIOD STRONG BLOW
BOTTOM OF BUCKET IN 18 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
0.0	0.0	0.0	0.0	0.0	180 FT GAS ABOVE FLUID
400.0	90.0	10.0	0.0	0.0	CLEAN GASSY OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 37 @ 60 DEGREES
30.0	30.0	10.0	0.0	60.0	HEAVY OIL & GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	5.1757 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	3.3866 SCF	AVERAGE OIL RATE:	86.8512 STB/D
MUD VOLUME:	0.2525 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	5.4282 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2175.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	71.00	75.00
INITIAL SHUT-IN	90.00		1075.00
FINAL FLOW	60.00	122.00	167.00
FINAL SHUT-IN	120.00		997.00

FINAL HYDROSTATIC PRESSURE: 2170.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2175.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	67.00	78.00
INITIAL SHUT-IN	90.00		1055.00
FINAL FLOW	60.00	123.00	152.00
FINAL SHUT-IN	123.00		976.00

FINAL HYDROSTATIC PRESSURE: 2144.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/31/94	TICKET : 20891
CUSTOMER : MCCOY PETROLEUM CORP	LEASE : YOUNG
WELL : 1-31 TEST: 2	GEOLOGIST: J. HASTING
ELEVATION: 2298 KB	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	67.00	67.00
5.00	69.00	2.00
10.00	70.00	1.00
15.00	72.00	2.00
20.00	73.00	1.00
25.00	75.00	2.00
30.00	78.00	3.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	270.00	270.00	11.00
6.00	567.00	297.00	6.00
9.00	660.00	93.00	4.33
12.00	713.00	53.00	3.50
15.00	746.00	33.00	3.00
18.00	774.00	28.00	2.67
21.00	806.00	32.00	2.43
24.00	824.00	18.00	2.25
27.00	852.00	28.00	2.11
30.00	870.00	18.00	2.00
33.00	882.00	12.00	1.91
36.00	904.00	22.00	1.83
39.00	918.00	14.00	1.77
42.00	926.00	8.00	1.71
45.00	936.00	10.00	1.67
48.00	953.00	17.00	1.63
51.00	963.00	10.00	1.59
54.00	972.00	9.00	1.56
57.00	982.00	10.00	1.53

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	991.00	9.00	1.50
63.00	996.00	5.00	1.48
66.00	1006.00	10.00	1.45
69.00	1010.00	4.00	1.43
72.00	1023.00	13.00	1.42
75.00	1027.00	4.00	1.40
78.00	1033.00	6.00	1.38
81.00	1036.00	3.00	1.37
84.00	1042.00	6.00	1.36
87.00	1049.00	7.00	1.34
90.00	1055.00	6.00	1.33

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	123.00	123.00
5.00	123.00	0.00
10.00	125.00	2.00
15.00	126.00	1.00
20.00	127.00	1.00
25.00	128.00	1.00
30.00	129.00	1.00
35.00	130.00	1.00
40.00	132.00	2.00
45.00	136.00	4.00
50.00	142.00	6.00
55.00	149.00	7.00
60.00	152.00	3.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	395.00	395.00	21.00
6.00	498.00	103.00	11.00
9.00	560.00	62.00	7.67
12.00	598.00	38.00	6.00
15.00	629.00	31.00	5.00
18.00	653.00	24.00	4.33

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

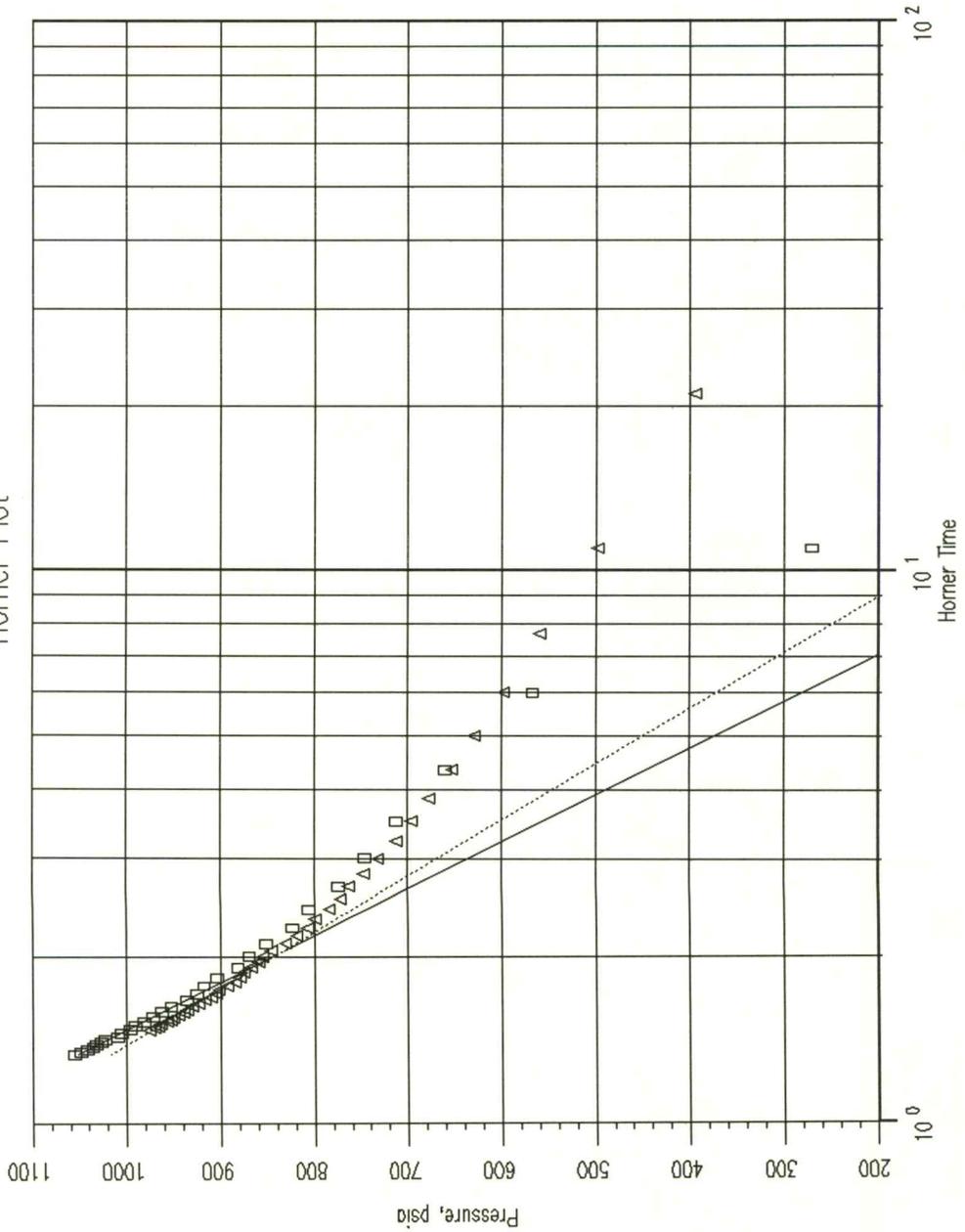
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
21.00	678.00	25.00	3.86
24.00	696.00	18.00	3.50
27.00	713.00	17.00	3.22
30.00	732.00	19.00	3.00
33.00	747.00	15.00	2.82
36.00	763.00	16.00	2.67
39.00	772.00	9.00	2.54
42.00	784.00	12.00	2.43
45.00	800.00	16.00	2.33
48.00	808.00	8.00	2.25
51.00	819.00	11.00	2.18
54.00	831.00	12.00	2.11
57.00	846.00	15.00	2.05
60.00	856.00	10.00	2.00
63.00	860.00	4.00	1.95
66.00	868.00	8.00	1.91
69.00	876.00	8.00	1.87
72.00	880.00	4.00	1.83
75.00	885.00	5.00	1.80
78.00	893.00	8.00	1.77
81.00	902.00	9.00	1.74
84.00	905.00	3.00	1.71
87.00	911.00	6.00	1.69
90.00	917.00	6.00	1.67
93.00	924.00	7.00	1.65
96.00	931.00	7.00	1.63
99.00	936.00	5.00	1.61
102.00	940.00	4.00	1.59
105.00	945.00	5.00	1.57
108.00	951.00	6.00	1.56
111.00	954.00	3.00	1.54
114.00	958.00	4.00	1.53
117.00	964.00	6.00	1.51
120.00	967.00	3.00	1.50
123.00	971.00	4.00	1.49
126.00	976.00	5.00	1.48

DATE 8/31/94
 CUSTOMER MCCOY PETROLEUM CORP
 WELL 1-31
 ELEVATION 2298 KB
 SECTION 31
 RANGE 20W
 GAUGE SN# 11018

TEST 2
 COUNTY RUSH
 RANGE 4425

TICKET 20891
 LEASE YOUNG
 GEOLOGIST J. HASTING
 FORMATION MISSISSIPPI
 TOWNSHIP 19S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-1183.35	-985.70
Pstar, psig	1199.63	1139.20
P1hr, psig	991.25	842.48
Skin	-1.03	-1.41
k, md	2.25	2.70
kh/u, md-ft/cp	13.21	15.86
ri, ft	3.68	5.71
DR, %	0.36	0.31
Drawdown Factor, %		7.488
Drawdown P*, %		5.037

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 8/31/94	TICKET : 20891
CUSTOMER : MCCOY PETROLEUM CORP	LEASE : YOUNG
WELL : 1-31 TEST: 2	GEOLOGIST: J. HASTING
ELEVATION: 2298 KB	FORMATION: MISSISSIPPI
SECTION : 31	TOWNSHIP : 19S
RANGE : 20W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12

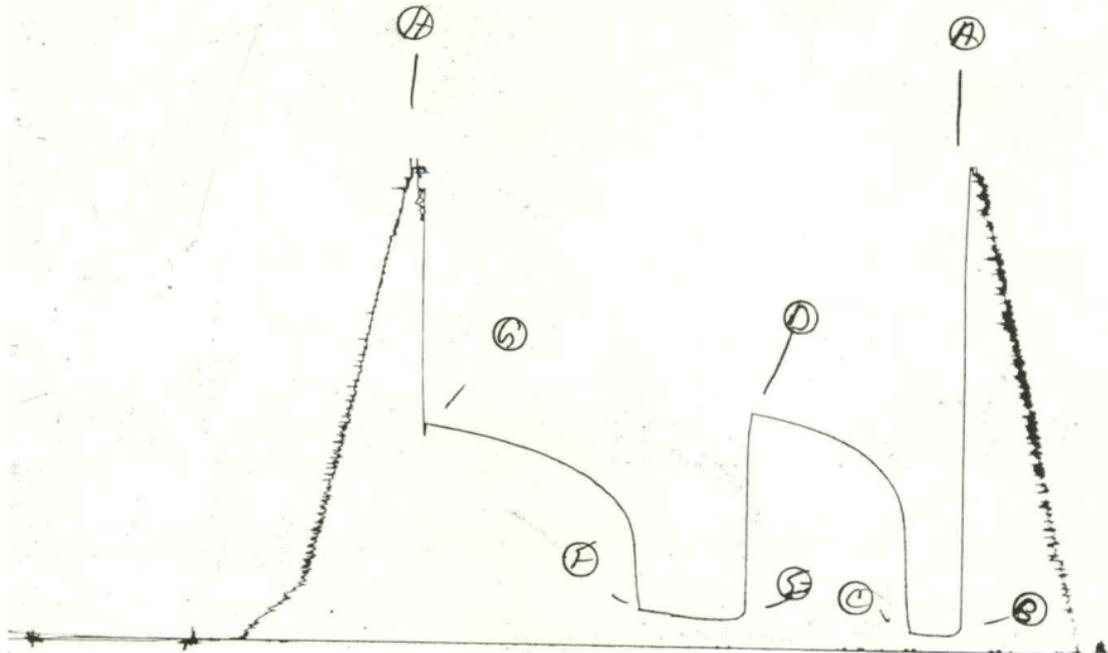
Input Data

Porosity	0.200	Rw:	0.328 ft	h:	8.000 ft
qo	86.9 STB	GOR	209.1 SCF/STB		
Pvt Data					
Evaluation Pressure	:	1035.0			
Evaluation Temperature	:	126.0			
Oil Grav	35.00 API	Gas Grav	0.65 API	Pb	1035.00 PSIA
Bo	1.107 RBL/STB	Vis	1.000 cp	Ct	3.2122E-004 1/PSI

Horner Results

	Initial Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.00 hrs
slope	-1183.35	-985.70
pstar	1199.63 psig	1139.20 psig
plhr	991.25 psig	842.48 psig
skin	-1.03	-1.41
permeability	2.25 md	2.70 md
transmissability	13.21 md-ft/cp	15.86 md-ft/cp
radius of investigation	3.68 ft	5.71 ft
Damage-Ratio	0.36 percent	0.31 percent
Drawdown Factor		7.488 percent
Drawdown P*		5.037 percent

KT 2089.1



DKT 20891

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