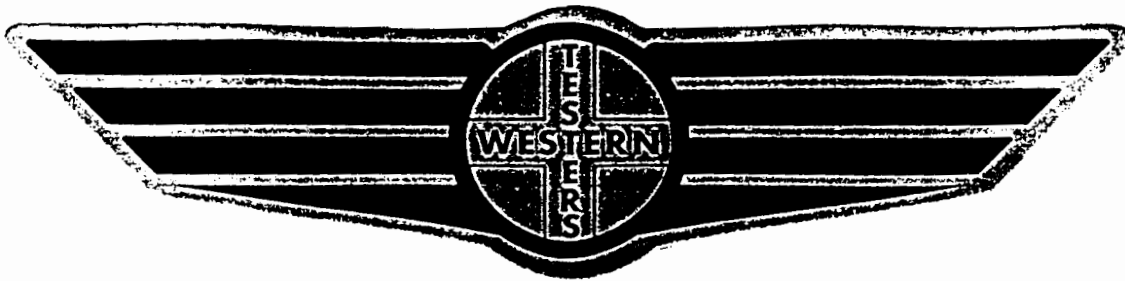


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY PINTAIL PETROLEUM LTD.

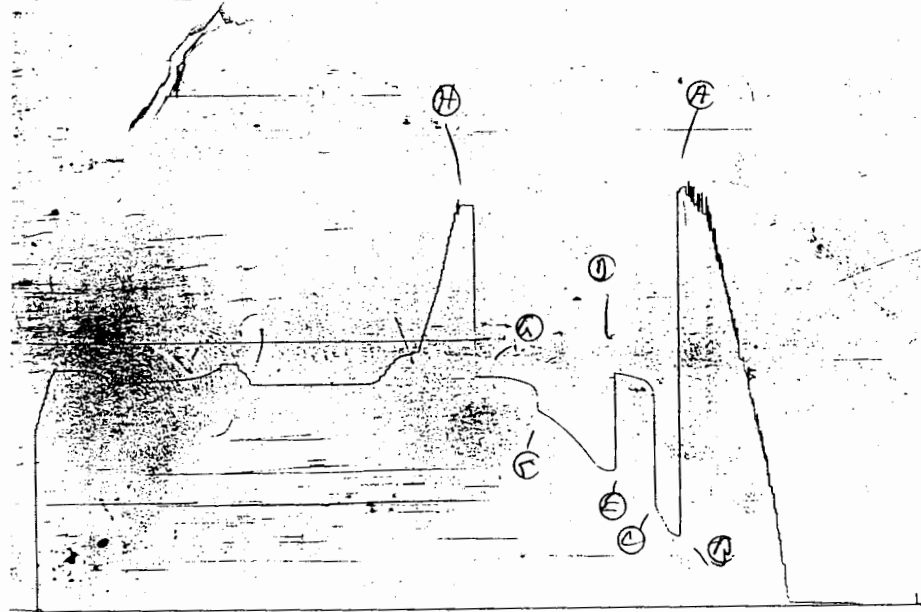
LEASE & WELL NO. # A-1 DICKMAN

SEC. 17 TWP. 17S RGE. 24W TEST NO. 1 DATE

12/14/92

3679

KA 18570

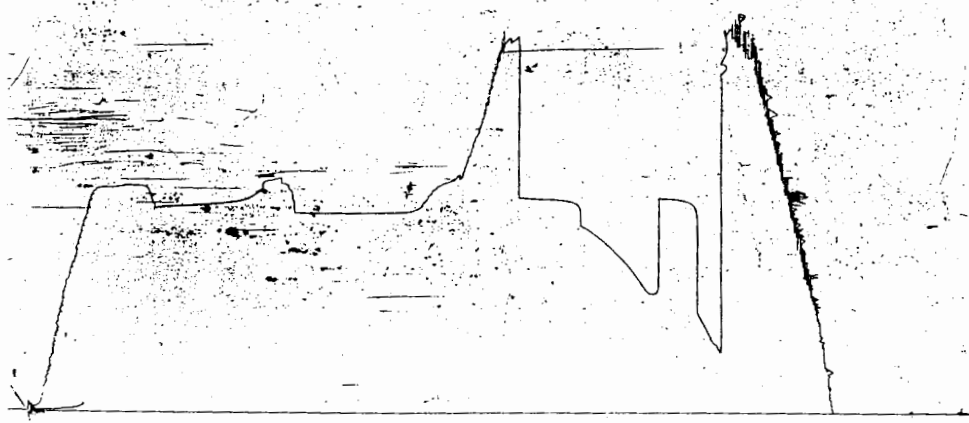


Inside Recorder

1108

KA 18570

0



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 12/14/92
 CUSTOMER : PINTAIL PETROLEUM LTD.
 WELL : A-1 TEST: 1
 ELEVATION: 2480 GL
 SECTION : 17
 RANGE : 24W COUNTY: NESS
 GAUGE SN#: 3659 RANGE : 4000

TICKET : 18570
 LEASE : DICKMAN
 GEOLOGIST: INNES PHILLIPS
 FORMATION: CHEROKEE
 TOWNSHIP: 17S
 STATE : KS
 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4335.00 ft TO: 4425.00 ft TVD: 4425.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4350.0 ft 4353.0 ft
 TEMPERATURE: 124.0

DRILL COLLAR LENGTH: 300.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH: 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH: 4015.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH: 20.0 ft	TOOL SIZE:	5.500 in
ANCHOR LENGTH: 90.0 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:	4.5FH
PACKER DEPTH: 4335.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4330.0 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. : MALLARD RIG 1
 MUD TYPE : CHEMICAL
 WEIGHT : 9.000 ppg
 CHLORIDES : 5000 ppm
 JARS-MAKE :
 DID WELL FLOW?: NO

VISCOSITY : 47.00 cp
 WATER LOSS: 8.000 cc
 SERIAL NUMBER:
 REVERSED OUT?: YES

COMMENTS

Comment

STRONG BLOW, BOTTOM OF BUCKET IN 1 1/2 MINUTES ON BOTH FLOW PERIODS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
3040.0	100.0	0.0	0.0	0.0	GASSY CLEAN OIL
0.0	0.0	0.0	0.0	0.0	38 GRAVITY

RATE INFORMATION

OIL VOLUME: 39.8426 STB	TOTAL FLOW TIME: 80.0000 min.
GAS VOLUME: 0.0000 SCF	AVERAGE OIL RATE: 717.1671 STB/D
MUD VOLUME: 0.0000 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 39.8426 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2184.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	377.00	530.00
INITIAL SHUT-IN	30.00		1235.00
FINAL FLOW	60.00	729.00	1047.00
FINAL SHUT-IN	45.00		1226.00

FINAL HYDROSTATIC PRESSURE: 2143.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2208.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	381.00	537.00
INITIAL SHUT-IN	30.00		1236.00
FINAL FLOW	60.00	729.00	1048.00
FINAL SHUT-IN	45.00		1230.00

FINAL HYDROSTATIC PRESSURE: 2127.00

PRESSURE TRANSIENT REPORT

PRESSURE TRANSIENT REPORT (CONTINUED)

GENERAL INFORMATION

DATE : 12/14/92
 CUSTOMER : PINTAIL PETROLEUM LTD.
 WELL : A-1 TEST: 1
 ELEVATION: 2480 GL
 SECTION : 17
 RANGE : 24W COUNTY: NESS
 GAUGE SN#: 3659 RANGE : 4000

TICKET : 18570
 LEASE : DICKMAN
 GEOLOGIST: INNES PHILLIPS
 FORMATION: CHEROKEE
 TOWNSHIP : 17S
 STATE : KS
 CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	381.00	381.00
5.00	391.00	10.00
10.00	429.00	38.00
15.00	487.00	58.00
20.00	537.00	50.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1043.00	1043.00	0.00
6.00	1167.00	124.00	0.00
9.00	1188.00	21.00	0.00
12.00	1200.00	12.00	0.00
15.00	1208.00	8.00	0.00
18.00	1214.00	6.00	0.00
21.00	1220.00	6.00	0.00
24.00	1227.00	7.00	0.00
27.00	1231.00	4.00	0.00
30.00	1236.00	5.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	729.00	729.00
5.00	729.00	0.00
10.00	739.00	10.00

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
15.00	763.00	24.00
20.00	809.00	46.00
25.00	850.00	41.00
30.00	889.00	39.00
35.00	922.00	33.00
40.00	957.00	35.00
45.00	988.00	31.00
50.00	1011.00	23.00
55.00	1035.00	24.00
60.00	1048.00	13.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1164.00	1164.00	0.00
6.00	1184.00	20.00	0.00
9.00	1192.00	8.00	0.00
12.00	1200.00	8.00	0.00
15.00	1206.00	6.00	0.00
18.00	1211.00	5.00	0.00
21.00	1217.00	6.00	0.00
24.00	1221.00	4.00	0.00
27.00	1224.00	3.00	0.00
30.00	1227.00	3.00	0.00
33.00	1229.00	2.00	0.00
36.00	1230.00	1.00	0.00
39.00	1230.00	0.00	0.00
42.00	1230.00	0.00	0.00
45.00	1230.00	0.00	0.00