CONFIDENTIAL

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

KCC WICHITA
ORIGINAL

Company MTM Petroleum, Inc. Lease & Well No. Boyle-Hill No. 2

Elevation 1662 KB Formation Mississippi Effective Pay 15 Ft. Ticket No. 1660

Date 9-18-02 Sec. 36 Twp. 30S Range 8W County Kingman State Kansas

Test Approved By Jerry A. Smith Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,392 ft. to 4,407 ft. Total Depth 4,407 ft.

Packer Depth 4,387 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,392 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,378 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,404 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drlg Co., Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.35 Water Loss 10.4 cc. Drill Pipe Length 4,365 ft. I.D. 3 1/2 in.

Chlorides 5,200 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 15 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket immediately. Gas to surface in 3 mins. Weak, surface blow back during shut-in. (SEE GAS VOLUME REPORT)
2nd Open: Strong blow. Off bottom of bucket immediately. Weak, surface blow back during shut-in.

Recovered 41 ft. of watery mud = .303400 bbls. (Grind out: 40%-water; 60%-mud)

Recovered 31 ft. of muddy water = .229400 bbls. (Grind out: 20%-mud; 80%-water)

Recovered 72 ft. of TOTAL FLUID = .532800 bbls.

Recovered ft. of

Recovered ft. of

DEC 0 2 2002
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Remarks Tool blew out. Some oil on recorders.

Time Set Packer(s) 6:42 A.M. P.M. Time Started Off Bottom 10:42 A.M. P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure ..... (A) 2121 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 120 P.S.I. to (C) 131 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1279 P.S.I.

Final Flow Period ..... Minutes 30 (E) 126 P.S.I. to (F) 122 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 1280 P.S.I.

Final Hydrostatic Pressure ..... (H) 2120 P.S.I.

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FLUID SAMPLE DATA

Company MTM Petroleum, Inc.

Lease & Well No. Boyle-Hill No. 2

Date 9-18-02 Sec. 36 Twp. 30 S Range 8 W

Formation Test No. 1 Interval Tested From 4,392 ft. to 4,407 ft. Total Depth 4,407 ft.

Formation Mississippi

	MUD PIT	RECOVERY	
Viscosity	46 CP	51 CP	
Weight	9.35	9.0	
Water Loss	10.4 CC	55.2 CC	
PH Factor	11.5	8.0	Water 7.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.18	@ 94	°F.	36,000 ppm
Recovery Mud	.32	@ 88	°F.	16,000 ppm
Recovery Mud Filtrate	.32	@ 93	°F.	14,500 ppm
Mud Pit Sample	.72	@ 76	°F.	8,500 ppm
Mud Pit Sample Filtrate	.70	@ 82	°F.	8,000 ppm

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Sample Taken By ROGER D. FRIEDLY

Witness By Jerry A. Smith

Remarks Pit filtrate triton dish chlorides were 5,200 Ppm.
Recovery filtrate triton dish chlorides were 13,000 Ppm.
Recovery water dish chlorides were 24,500 Ppm.

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GAS VOLUME REPORT

Company MTM Petroleum, Inc. Lease & Well No. Boyle-Hill No. 2

Date 9-18-02 Sec. 36 Twp. 30 S Rge. 8 W Location NW NW SW County Kingman State KS

Drilling Contractor Duke Drlg Co., Inc. - Rig 2 Formation Mississippi DST No. 1

Remarks: 1st Open: Gas to surface in 3 mins. Gas burned nicely.

INITIAL FLOW

Open Tool: 6:42 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
6:52 a.m.	1 in.	13 psi	552,000
6:57 a.m.	1 in.	14 psi	577,000
7:02 a.m.	1 in.	14½ psi	590,000
7:07 a.m.	1 in.	14½ psi	590,000
7:12 a.m.	1 in.	14½ psi	590,000

FINAL FLOW

Open Tool: 8:12 a.m.

	Time O'Clock	Orifice Size	Gauge	CF/D
	8:17 a.m.	1 in.	14½ psi	590,000
	8:22 a.m.	1 in.	17 psi	652,000
	8:27 a.m.	1 in.	17 psi	652,000
	8:32 a.m.	1 in.	16 psi	627,000
*	8:37 a.m.	1 in.	15 psi	603,000
	8:42 a.m.	1 in.	15 psi	603,000

* Sample taken.

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DIAMOND TESTING
HOISINGTON, KS 67544

MTM PETROLEUM INC
BOYLE/HILL #2
DST NO. 1

T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	4365 FT	PAY THICKNESS	15 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY OF GAS	.033
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.30
DRILLCOLLAR CAPACITY	0.0000 BBL/FT		
DRILLCOLLAR LENGTH	0 FT		
BOTTOM HOLE TEMP	112 DEF F	GAS COMPRESSIBILITY	1.22
RECORDER NUMBER	21073	1ST FLOW TIME	30 MIN
RECORDER DEPTH	4378	1ST SHUT-IN TIME	60 MIN
ELEVATION	1662 FT (KB)	2ND FLOW TIME	30 MIN
DATUM	-2716	2ND SHUT-IN TIME	120 MIN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)..... 1323.0

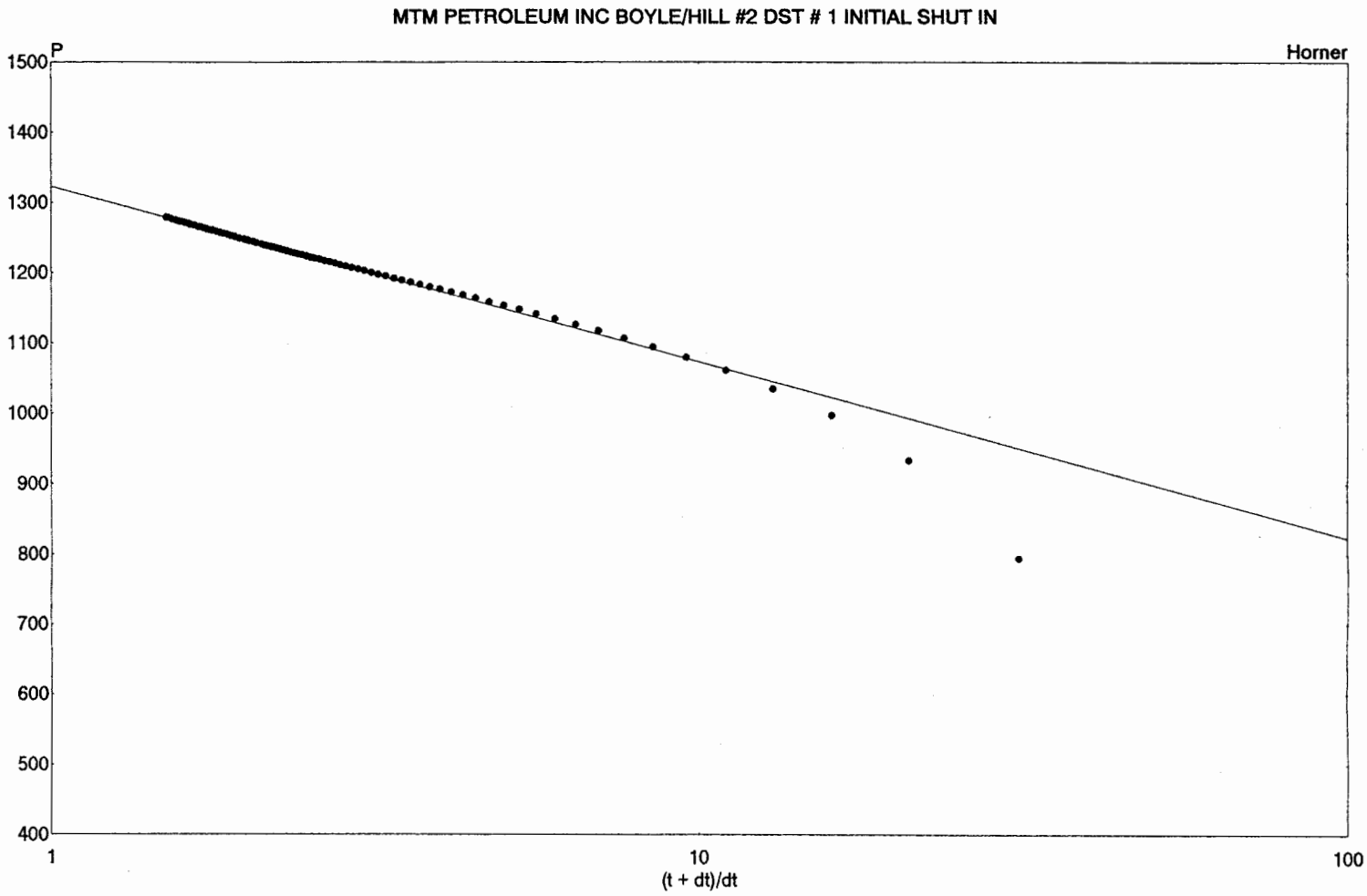
SLOPE (PSI^2-CYCLE)..... 1687829

EXTRAPOLATED FINAL SHUT-INPRESSURE (PSI) 1320.0

SLOPE (PSI^2-CYCLE) 1690416

STABILIZED PRODUCTION RATE (MCF)	603.0
TRANSMISSIBILITY (MD.-FT./CP.)	407.50
FLOW CAPACITY (MD.FT.)	13.45
PERMIBILITY (MD.)	0.897
DAMAGE RATIO	0.5
PRODUCTION RATE WITH DAMAGE REMOVED (BARRLES/DAY)	0.0
SKIN FACTOR (S)	-4.9
PRESSURE DROP DUE TO SKIN (PSI)	0.0
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	7.3
DRAWDOWN FACTOR (%)	0.227
POTENTIOMETRIC SURFACE (FT.)	345.1

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MTM PETROLEUM INC BOYLE/HILL #2 DST # 1 INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -250.1

m(1 hr) = 1279.13

Prd Time: = 0.5 hr

DEC 0 2 2032
KCC WICHITA

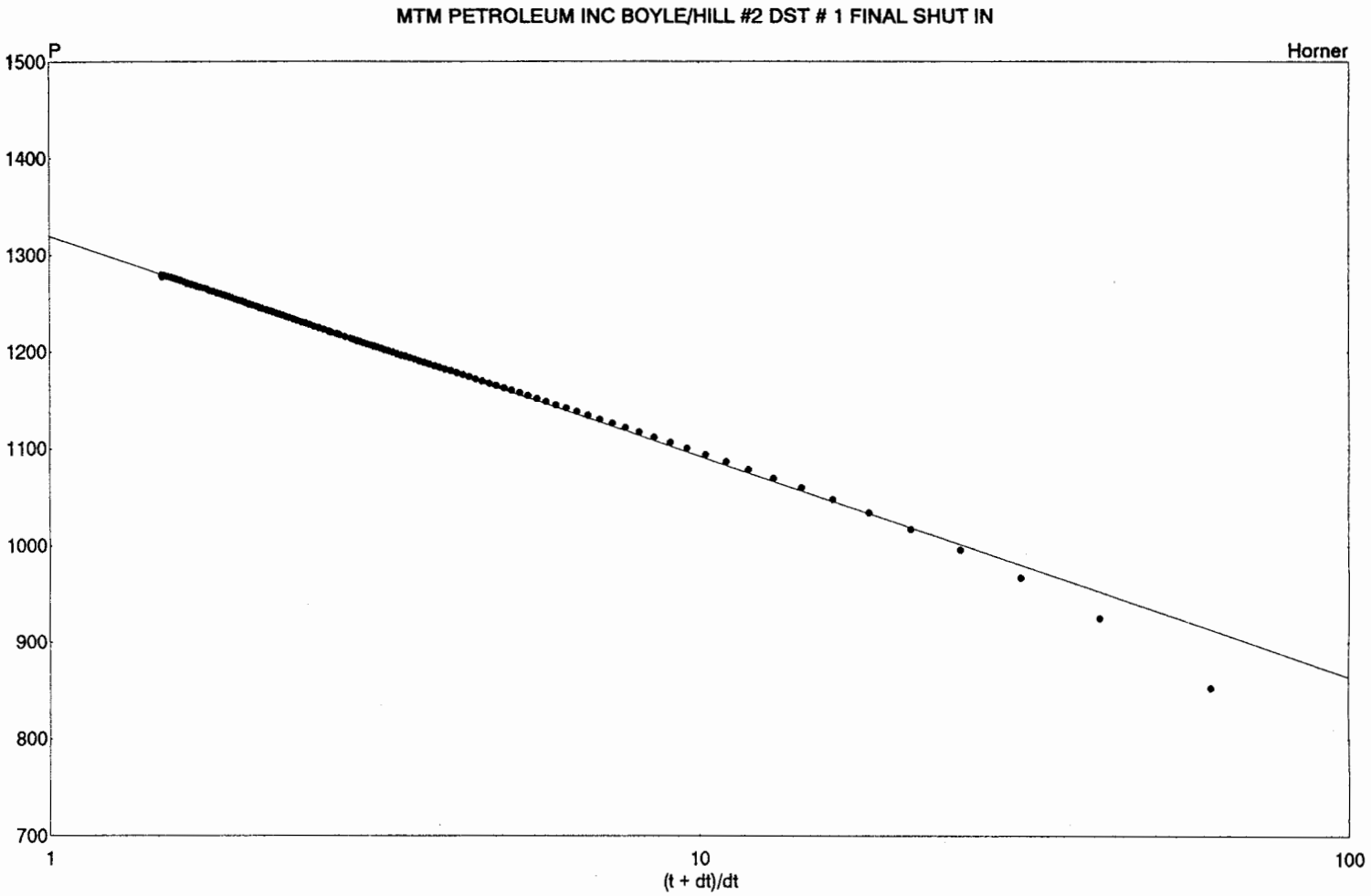
Calculated Values:

kh = 12.9345 md-ft

k = 0.8623 md

Skin = 6.20708

P* = 1323.2 psi



MTM PETROLEUM INC BOYLE/HILL #2 DST # 1 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -227.874

m(1 hr) = 1251.55

Prd Time: = 1 hr

DEC 0 2 2002
KCC WIC

Calculated Values:

kh = 14.1961 md-ft

k = 0.94641 md

Skin = 5.85195

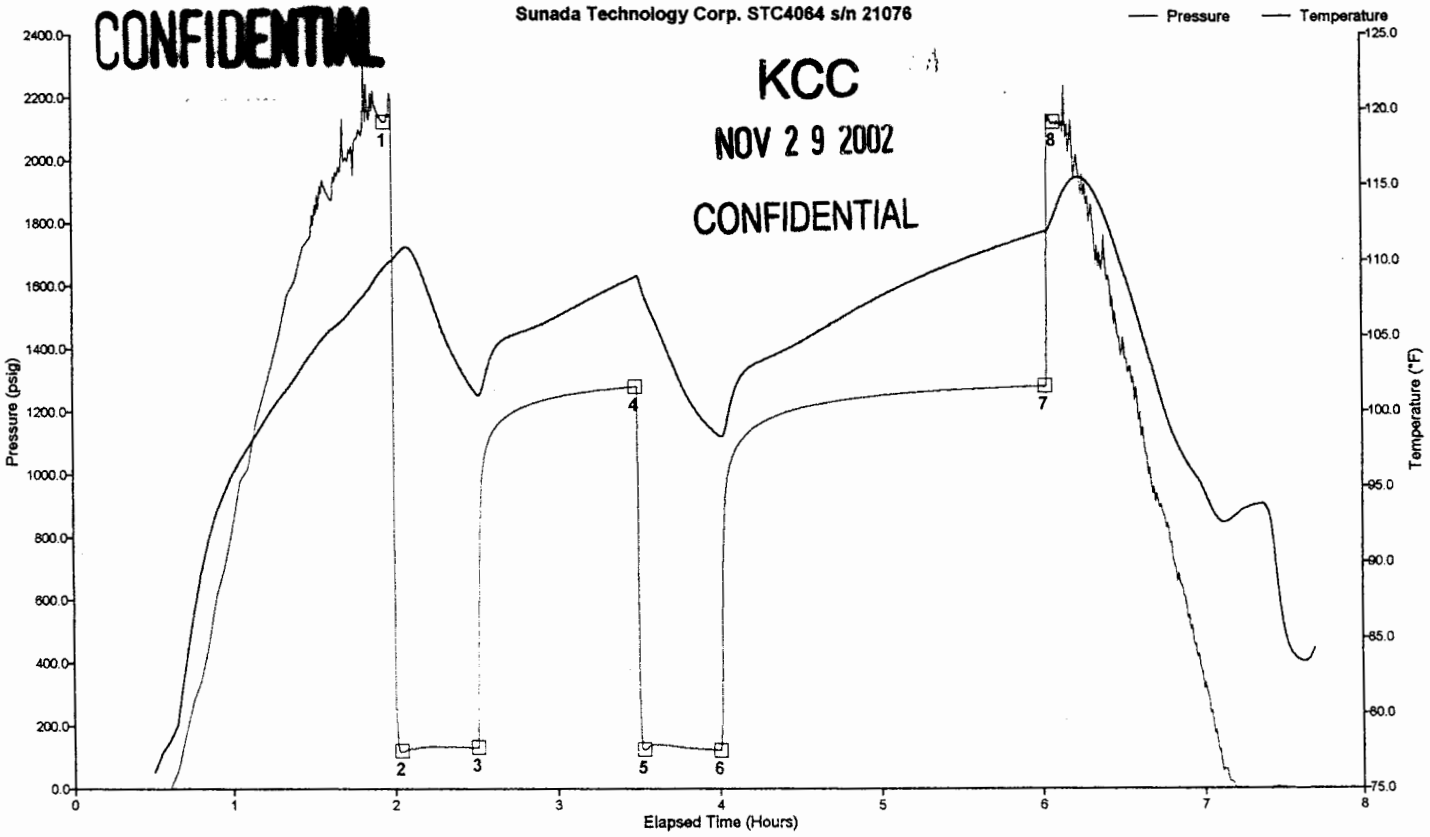
P* = 1320.1 psi

Well LSD: DST #1 MISS 4392'-4407
Well Name: BOYLE-HILL 2 DST 1
Company: MTM PETROLEUM INC
Battery on: Sep 18, 2002 at 04:41:00
Notes:RECOVERED 41' MW, 31' WM

ORIGINAL

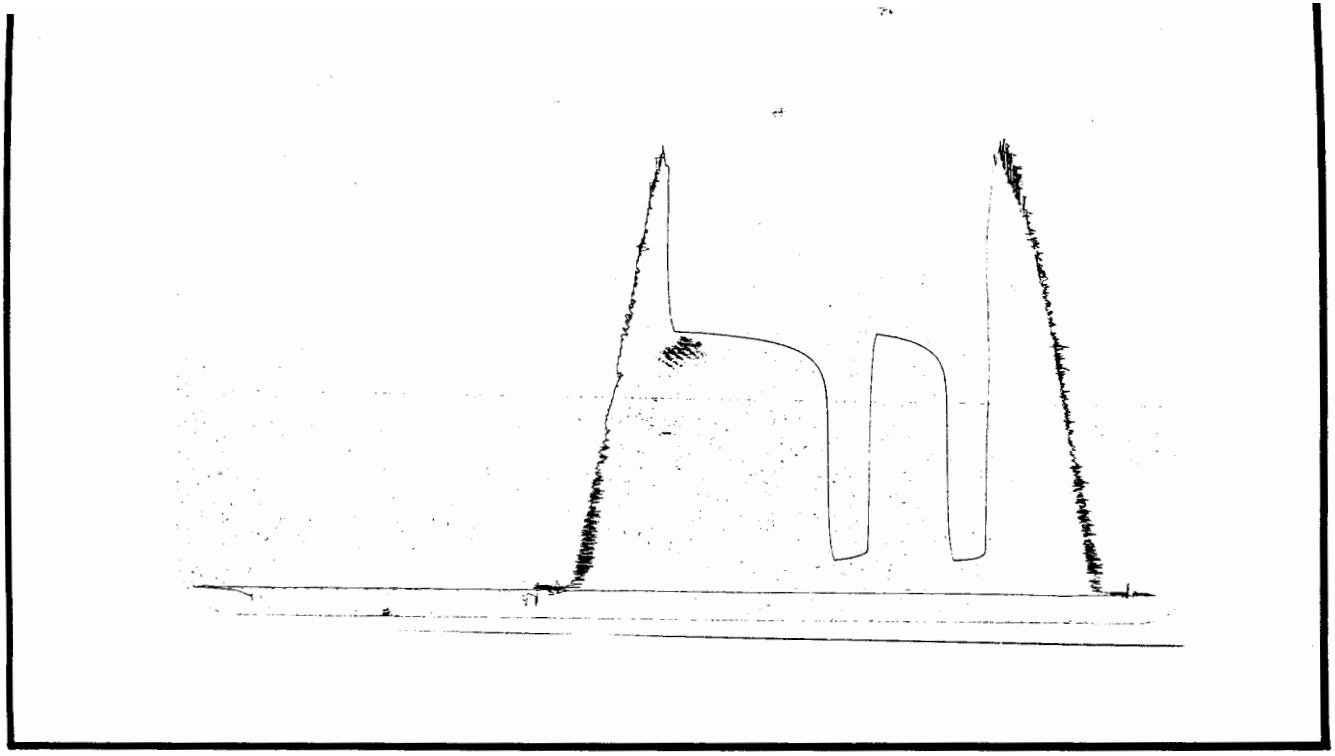
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Tag	Pressure	Temperature	Comment
1	2121.05 psig	109.67 °F	2002-09-18 06:38:30
2	119.96 psig	110.56 °F	2002-09-18 06:43:30
3	131.24 psig	101.23 °F	2002-09-18 07:11:30
4	1279.23 psig	108.93 °F	2002-09-18 08:10:30
5	125.50 psig	108.13 °F	2002-09-18 08:13:00
6	121.57 psig	98.40 °F	2002-09-18 08:41:30
7	1279.68 psig	111.91 °F	2002-09-18 10:42:30
8	2119.95 psig	113.02 °F	2002-09-18 10:46:00

COMPANY MTM Petroleum, Inc. LEASE AND WELL NO. Boyle-Hill No. 2 SEC. 36 TWP. 30S RGE. 8W TEST NO. 1 DATE 9-18-02



This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2121	2121	PSI
(B)	First Initial Flow Pressure	120	120	PSI
(C)	First Final Flow Pressure	131	131	PSI
(D)	Initial Closed-in Pressure	1279	1279	PSI
(E)	Second Initial Flow Pressure	126	126	PSI
(F)	Second Final Flow Pressure	122	122	PSI
(G)	Final Closed-in Pressure	1280	1280	PSI
(H)	Final Hydrostatic Mud	2120	2120	PSI

Petroleum, Inc. LEASE AND WELL NO. Boyle-Hill No. 2 SEC. 36 TWP. 30S RGE. 8W TEST NO. 1 DATE 9-18-02

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Company MTM Petroleum, Inc. Lease & Well No. Boyle-Hill No. 2

Elevation 1662 KB Formation Mississippi Effective Pay 15 Ft. Ticket No. 1661

Date 9-18-02 Sec. 36 Twp. 30S Range 8W County Kingman State Kansas

Test Approved By Jerry A. Smith Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,407 ft. to 4,422 ft. Total Depth 4,422 ft.

Packer Depth 4,402 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,407 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,395 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,419 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drlg Co., Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.35 Water Loss 10.4 cc. Drill Pipe Length 4,380 ft. I.D. 3 1/2 in.

Chlorides 5,200 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 15 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 30 secs. No blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket immediately. Gas to surface immediately. No blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 45 ft. of gas & water cut oily mud = .333000 bbls. (Grind out: 20%-gas; 20%-water; 25%-oil; 35%-mud)

Recovered 93 ft. of mud & gas cut watery oil = .688200 bbls. (Grind out: 8%-mud; 28%-gas; 30%-water; 34%-oil)

Recovered 31 ft. of gas & oil cut muddy water = .229400 bbls. (Grind out: 2%-gas; 2%-oil; 5%-mud; 91%-water)

Recovered 169 ft. of TOTAL FLUID = 1.250600 bbls.

Recovered ft. of

Remarks Tool Sample Grind Out: 18%-gas; 20%-mud; 28%-oil; 34%-water

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Time Set Packer(s) 8:52 ~~A~~P.M. Time Started Off Bottom 12:22 ~~P~~A.M. Maximum Temperature 119°

Initial Hydrostatic Pressure			(A)	2110	P.S.I.	
Initial Flow Period	Minutes 30		(B)	25	P.S.I. to (C)	48 P.S.I.
Initial Closed In Period	Minutes 60		(D)	1151	P.S.I.	
Final Flow Period	Minutes 30		(E)	48	P.S.I. to (F)	77 P.S.I.
Final Closed In Period	Minutes 90		(G)	1208	P.S.I.	
Final Hydrostatic Pressure			(H)	2117	P.S.I.	

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FLUID SAMPLE DATA

Company MTM Petroleum, Inc.

Lease & Well No. Boyle-Hill No. 2

Date 9-18-02 Sec. 36 Twp. 30 S Range 8 W

Formation Test No. 2 Interval Tested From 4,407 ft. to 4,422 ft. Total Depth 4,422 ft.

Formation Mississippi

	MUD PIT	RECOVERY	
Viscosity	46 CP	-- CP	
Weight	9.35	--	
Water Loss	10.4 CC	-- CC	
PH Factor	11.5	--	Water 7.0

DEC 0 2 2002

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.10	@ 64	°F.	83,000 ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	.72	@ 76	°F.	8,500 ppm
Mud Pit Sample Filtrate	.70	@ 82	°F.	8,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Jerry A. Smith

Remarks Pit filtrate triton dish chlorides were 5,200 Ppm.
Recovery water dish chlorides were 72,000 Ppm.

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GAS VOLUME REPORT

Company MTM Petroleum, Inc. Lease & Well No. Boyle-Hill No. 2

Date 9-18-02 Sec. 36 Twp. 30 S Rge. 8 W Location NW NW SW County Kingman State KS

Drilling Contractor Duke Drlg Co., Inc. - Rig 2 Formation Mississippi DST No. 2

Remarks: 2nd Open: Gas to surface immediately. Burned nicely.

INITIAL FLOW

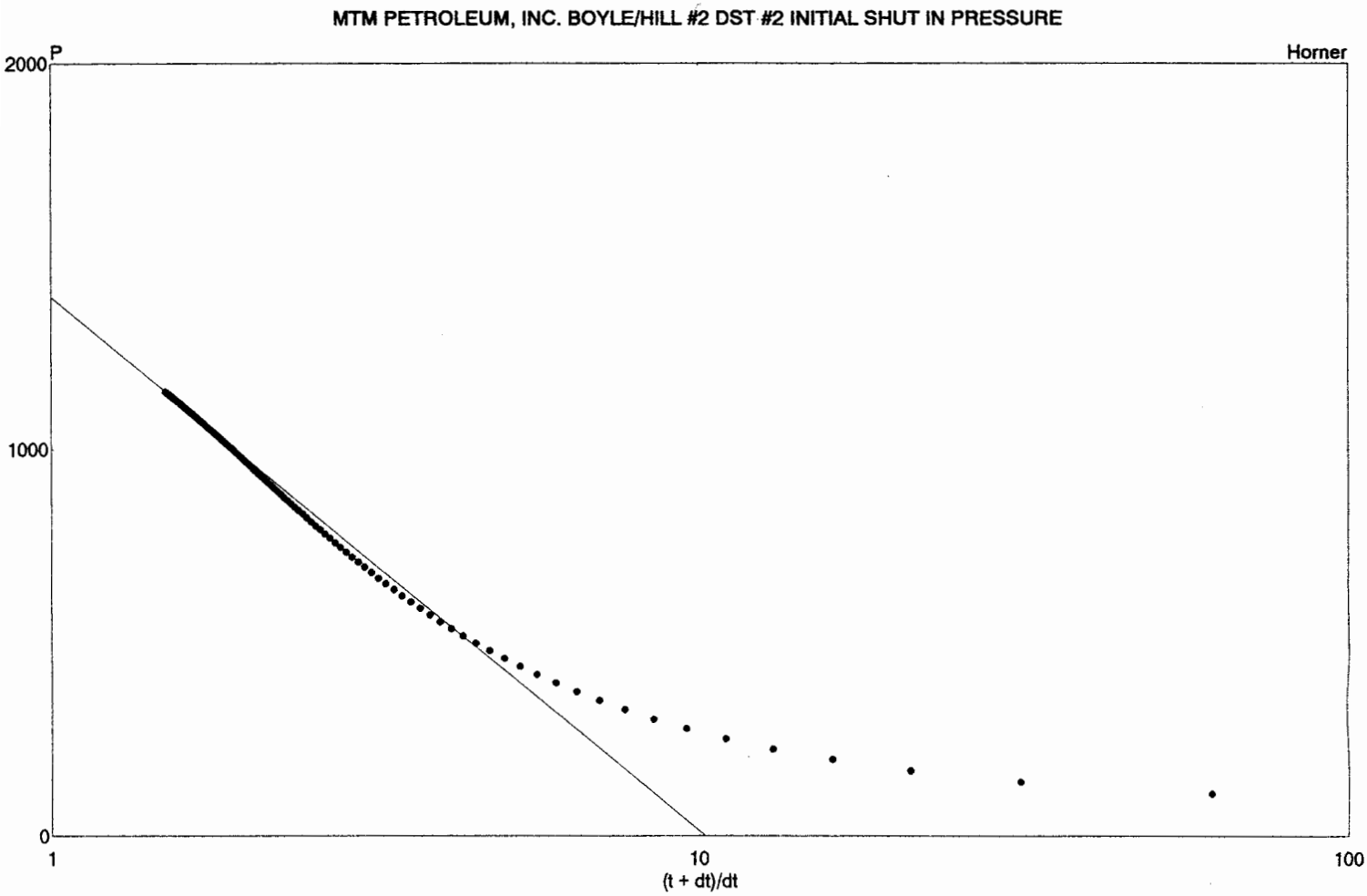
Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Open Tool: 10:22 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
10:27 a.m.	¼ in.	2½ psi	14,300
10:32 a.m.	¼ in.	3 psi	15,700
10:37 a.m.	¼ in.	3 psi	15,700
10:42 a.m.	¼ in.	3 psi	15,700
10:47 a.m.	¼ in.	3 psi	15,700
10:52 a.m.	¼ in.	3 psi	15,700

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MTM PETROLEUM, INC. BOYLE/HILL #2 DST #2 INITIAL SHUT IN PRESSURE

Analysis Results: Horner

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Parameters:

Slope = -1382.79

m(1 hr) = 1153.65

Prd Time: = 0.5 hr

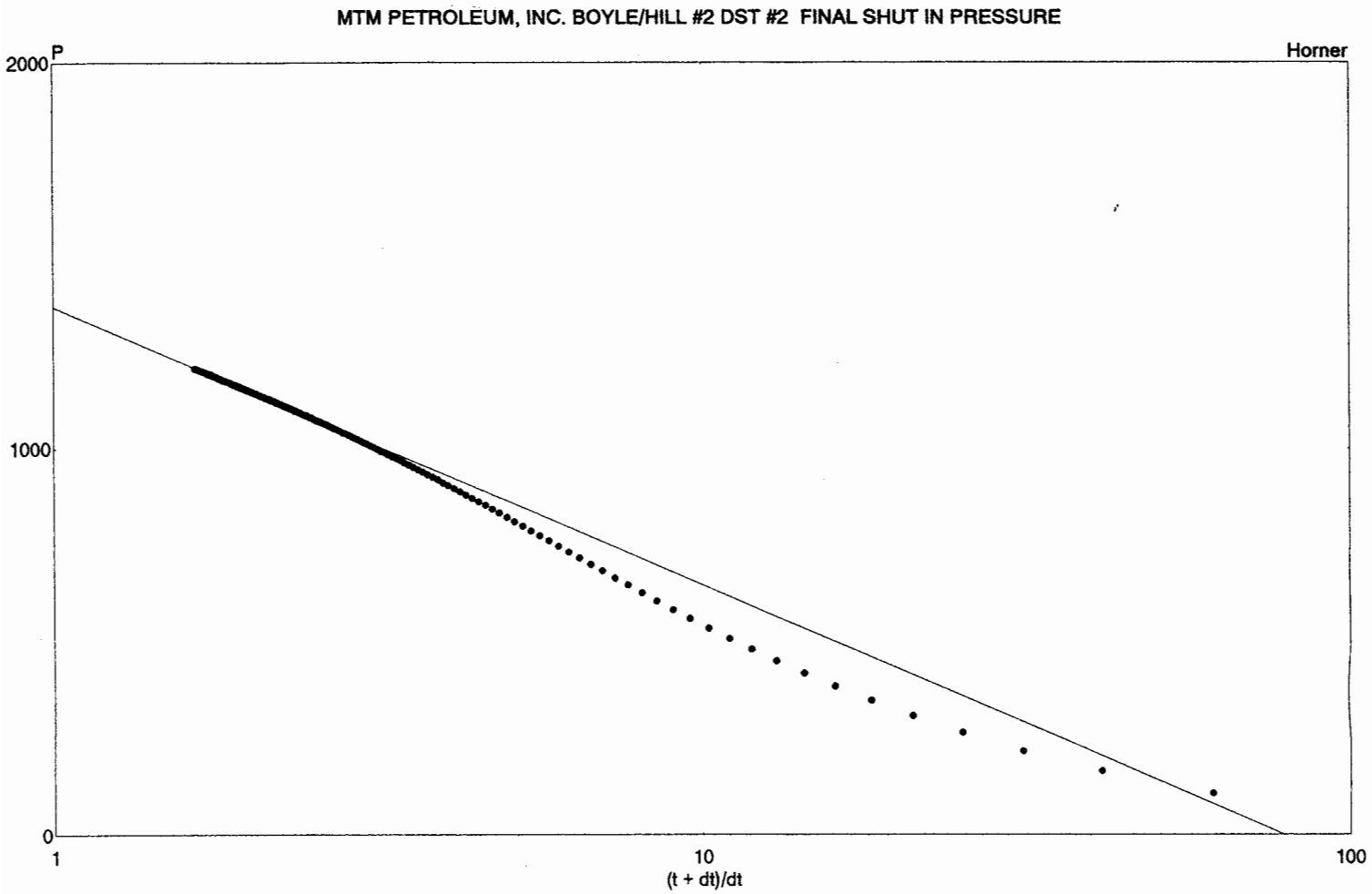
Calculated Values:

kh = 4.11476 md-ft

k = 0.27432 md

Skin = 4.00515

P* = 1397.1 psi



MTM PETROLEUM, INC. BOYLE/HILL #2 DST #2 FINAL SHUT IN PRESSURE

Analysis Results: Horner

DEC 0 2 2002
KCC WICHITA

Parameters:

Slope = -721.695

m(1 hr) = 1151.95

Prd Time: = 1 hr

Calculated Values:

kh = 7.88402 md-ft

k = 0.5256 md

Skin = 4.29709

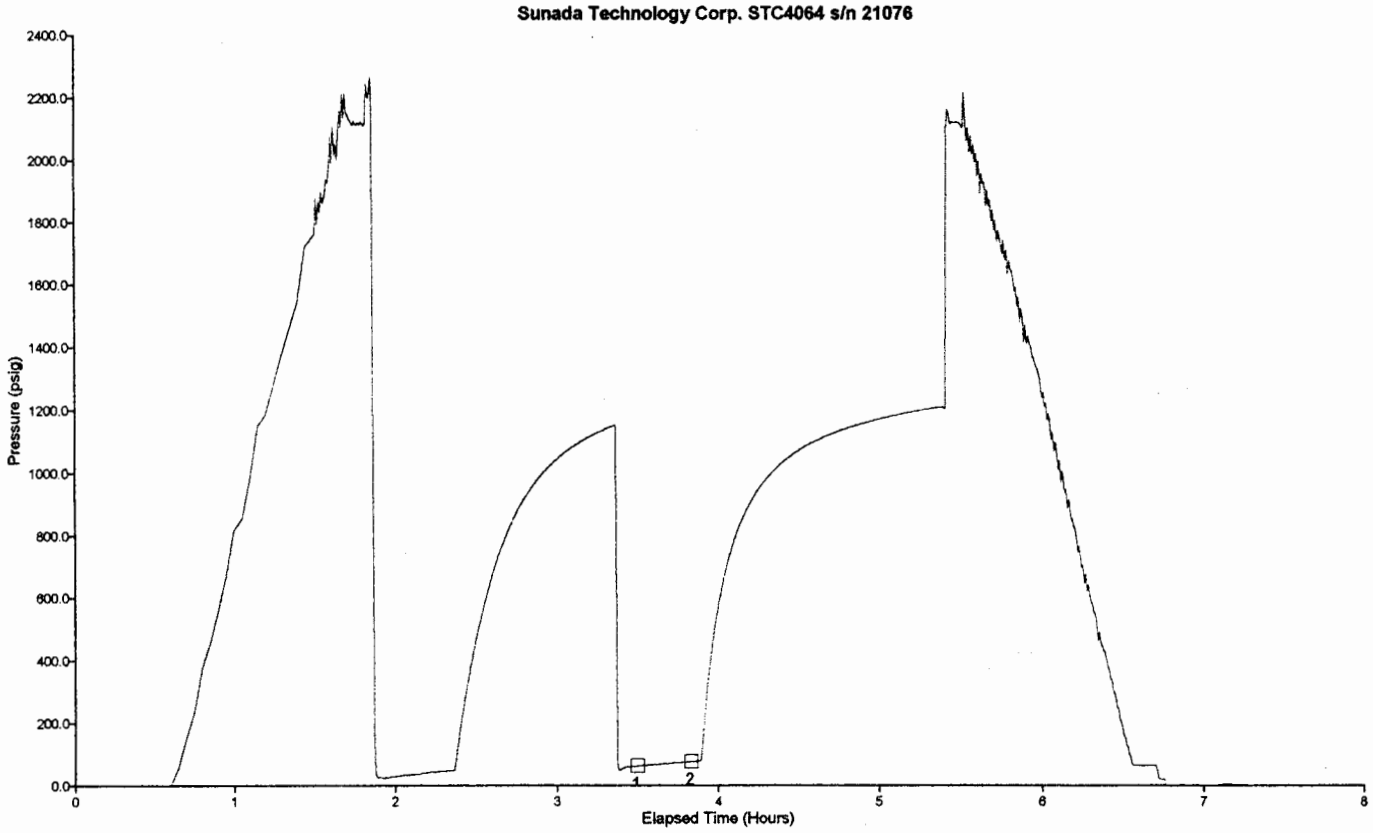
P* = 1369.2 psi

MTM PETROLEUM, INC. BOYLE/HILL #2

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	74	61	13	0.0142	0.3771	20	1440	35.24582339

DEC 0 2 2002
KCC WICHITA

Well LSD: DST #2 PRODUCTION RATE
Well Name: BOYLE-HILL 2 DST 2
Company: MTM PETROLEUM INC
Battery on: Sep 18, 2002 at 19:00:00
Notes:



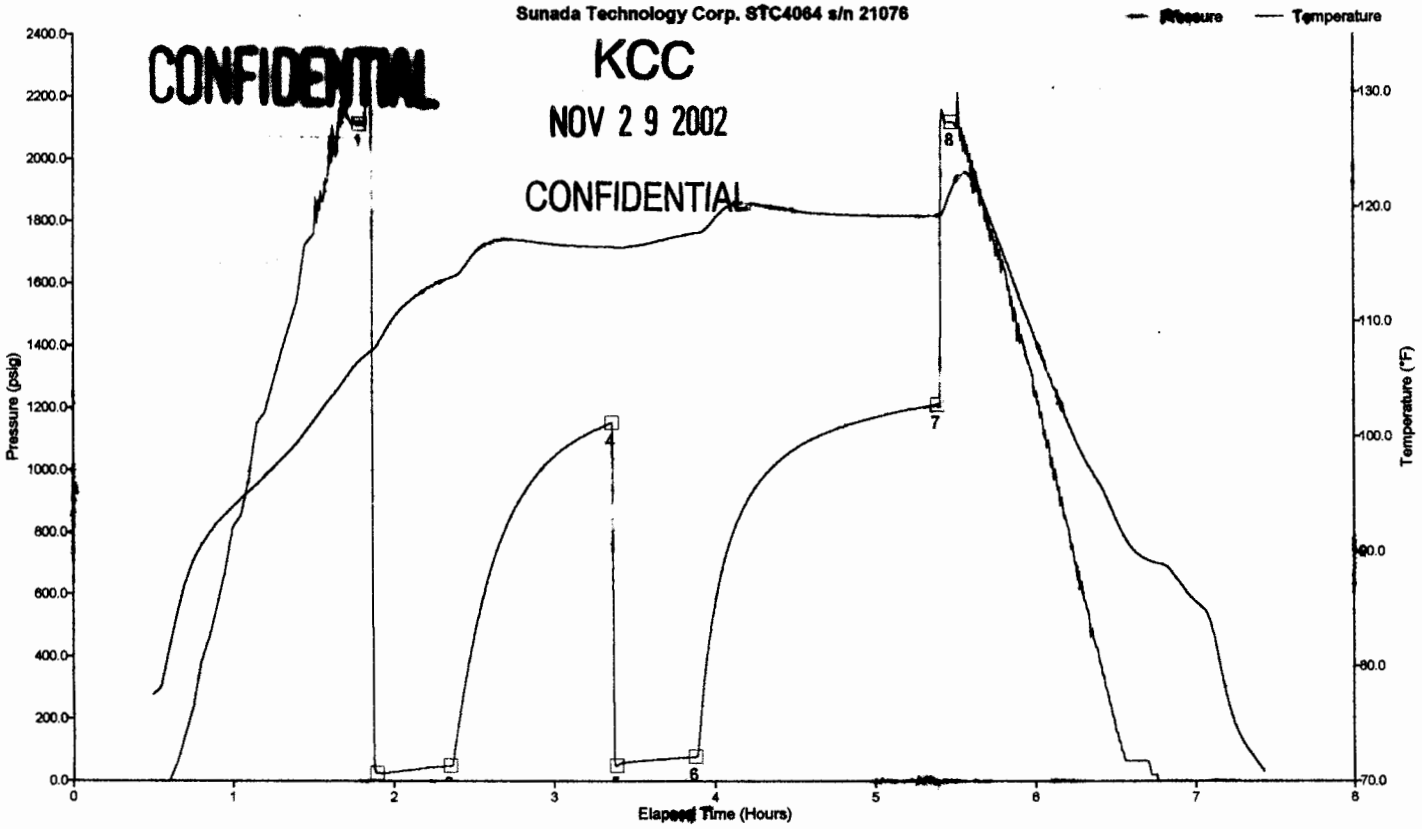
DEC 0 2 2002
KCC WICHITA

Tag	Pressure	Temperature	Comment
1	61.31 psig	116.55 °F	2002-09-18 22:30:00
2	74.97 psig	117.58 °F	2002-09-18 22:50:00

Well LSD: DST #2 MI33 4407'-4422'
Well Name: BOYLE-HILL 2 DST 2
Company: MTM PETROLEUM INC
Battery on: Sep 18, 2002 at 19:00:00
Notes:RECOVERED 45 G&WCOM, 93' M&GCWO, 31' G&OCMW. GTS STABLIZED @ 15,700 CFD.

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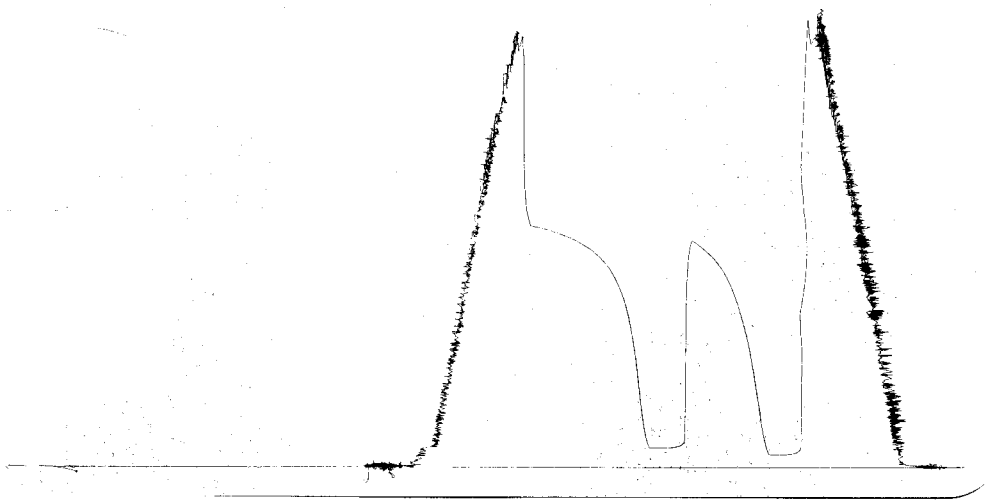


Tag	Pressure	Temperature	Comment
1	2110.12 psig	106.59 °F	2002-09-18 20:47:30
2	24.68 psig	107.93 °F	2002-09-18 20:54:00
3	48.05 psig	113.82 °F	2002-09-18 21:21:30
4	1150.52 psig	116.49 °F	2002-09-18 22:22:00
5	48.42 psig	116.41 °F	2002-09-18 22:23:30
6	76.99 psig	117.72 °F	2002-09-18 22:53:00
7	1207.89 psig	119.21 °F	2002-09-19 00:23:30
8	2117.20 psig	121.53 °F	2002-09-19 00:29:00

COMPANY MTM Petroleum, Inc. LEASE AND WELL NO. Boyle-Hill No. 2 SEC. 36 TWP. 30S RGE. 8W TEST NO. 2 DATE 9-18-

ORIGINAL

Clock 18392 MISS LOC 44[illegible]



This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2110	2110	PSI
(B)	First Initial Flow Pressure	25	25	PSI
(C)	First Final Flow Pressure	48	48	PSI
(D)	Initial Closed-in Pressure	1151	1151	PSI
(E)	Second Initial Flow Pressure	48	48	PSI
(F)	Second Final Flow Pressure	77	77	PSI
(G)	Final Closed-in Pressure	1208	1208	PSI
(H)	Final Hydrostatic Mud	2117	2117	PSI

COMPANY MTM Petroleum, Inc. LEASE AND WELL NO. Boyle-Hill No. 2 SEC. 36 TWP. 30S RGE. 8W TEST NO. 2 DATE 9-18-