



15-077-21461

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KCC WICHITA

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

CONFIDENTIAL

Page 1 of 5 Pages

ORIGINAL

Company MTM Petroleum, Inc. Lease & Well No. Fryar No. 2Elevation 1654 KB Formation Mississippi Effective Pay -- Ft. Ticket No. J1385Date 7-31-03 Sec. 2 Twp. 31S Range 8W County Harper State KansasTest Approved By Marvin A. Miller Diamond Representative John C. RiedlFormation Test No. 1 Interval Tested from 4,400 ft. to 4,418 ft. Total Depth 4,418 ft.Packer Depth 4,395 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Packer Depth 4,400 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Depth of Selective Zone Set -- ft.Top Recorder Depth (Inside) 4,403 ft. Recorder Number Elec. Cap. 5,000 psiBottom Recorder Depth (Outside) 4,415 ft. Recorder Number 13556 Cap. 5,475 psiBelow Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psiDrilling Contractor Duke Drilling Co., Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.Weight 9.2 Water Loss 13.2 cc. Drill Pipe Length 4,374 ft. I.D. 3 1/2 in.Chlorides 5,500 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.Jars: Make Bowen Serial Number 2 Anchor Length 18 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.

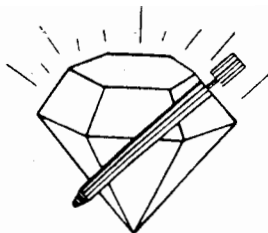
Blow: 1st Open: Strong blow. Off bottom of bucket in 30 secs. Gas to surface in 7 mins. (SEE GAS VOLUME REPORT)

2nd Open: Gas to surface throughout.

Recovered 62 ft. of gas & oil cut mud = .458800 bbls. (Grind out: 20%-gas; 4%-oil; 76%-mud)Recovered 62 ft. of gas & oil cut watery mud = .458800 bbls. (Grind out: 25%-gas; 12%-oil; 8%-water; 55%-mud)Recovered 62 ft. of gassy water = .458800 bbls. (Grind out: 5%-gas; 95%-water) Chlorides: 68,000 PpmRecovered 186 ft. of TOTAL FLUID = 1.376400 bbls.Recovered -- ft. of KCCRemarks SEP 04 2003

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Time Set Packer(s) 5:25 XX P.M. Time Started Off Bottom 7:40 XX P.M. Maximum Temperature 122°Initial Hydrostatic Pressure (A) 2098 P.S.I.Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 63 P.S.I.Initial Closed In Period Minutes 30 (D) 1077 P.S.I.Final Flow Period Minutes 30 (E) 67 P.S.I. to (F) 85 P.S.I.Final Closed In Period Minutes 45 (G) 1035 P.S.I.Final Hydrostatic Pressure (H) 2073 P.S.I.



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FLUID SAMPLE DATA

Company MTM Petroleum, Inc.
Lease & Well No. Fryar No. 2
Date 7-31-03 Sec. 2 Twp. 31 S Range 8 W
Formation Test No. 1 Interval Tested From 4,400 ft. to 4,418 ft. Total Depth 4,418 ft.
Formation Mississippi

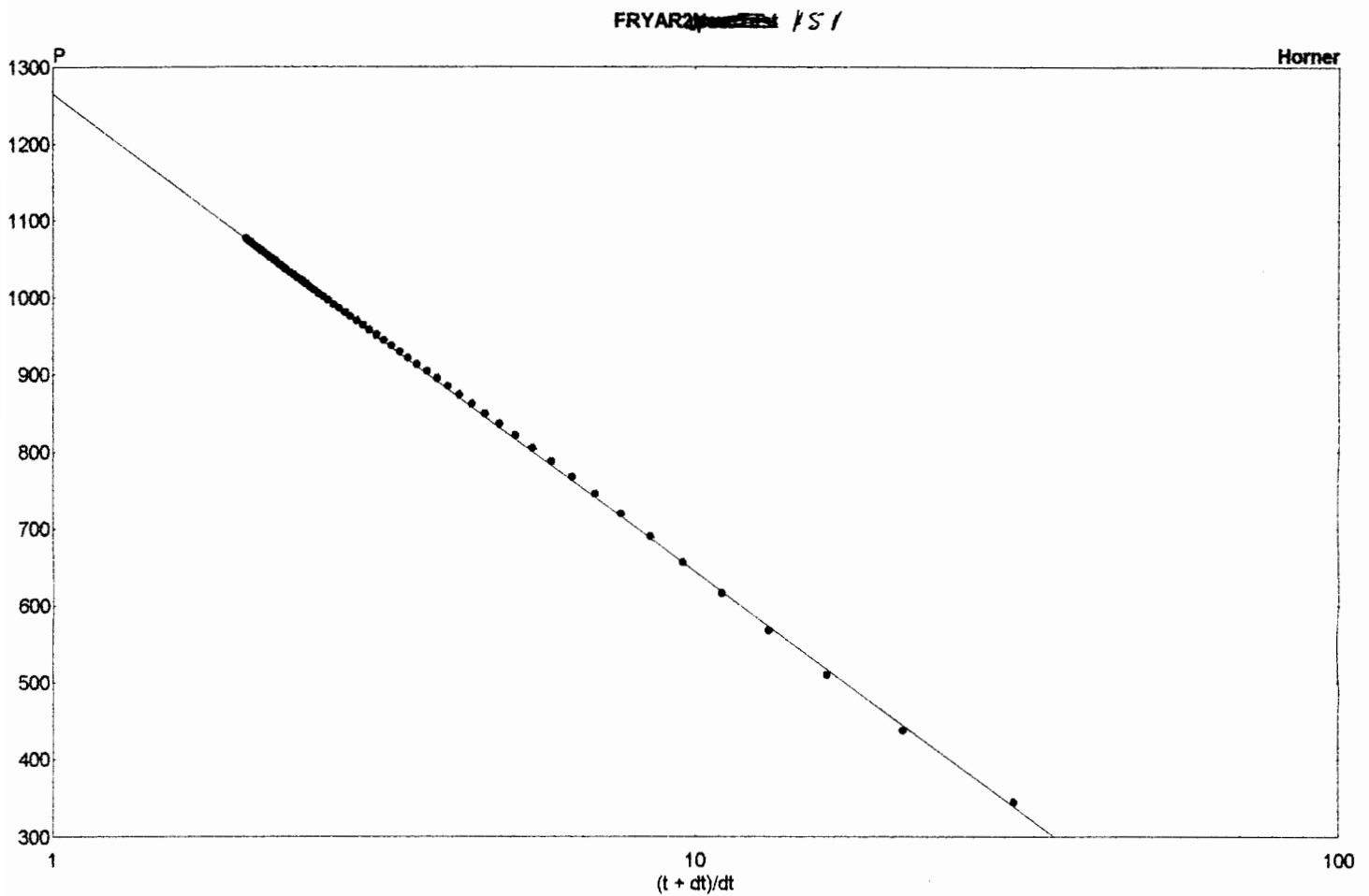
	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>50</u> CP	<u>--</u> CP	
Weight	<u>9.2</u>	<u>--</u>	
Water Loss	<u>13.2</u> CC	<u>--</u> CC	
PH Factor	<u>10.0</u>	<u>--</u>	Water <u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.11</u> @ <u>75</u> °F.	<u>64,000</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>.11</u> @ <u>70</u> °F.	<u>72,000</u> ppm
Mud Pit Sample	<u>1.30</u> @ <u>65</u> °F.	<u>5,500</u> ppm
Mud Pit Sample Filtrate	<u>1.00</u> @ <u>70</u> °F.	<u>6,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Marvin A. Miller

Remarks Pit filtrate triton dish chlorides were 5,500 Ppm
Recovery filtrate triton dish chlorides were 62,000 Ppm
Recovery water dish chlorides were 68,000 Ppm



FRYAR2New Test

Analysis Results: Horner

Parameters:

Slope = -621.763

$m(1 \text{ hr}) = 1156.56$

Prd Time: = 0.5 hr

Calculated Values:

$kh = 2.61462 \text{ md-ft}$

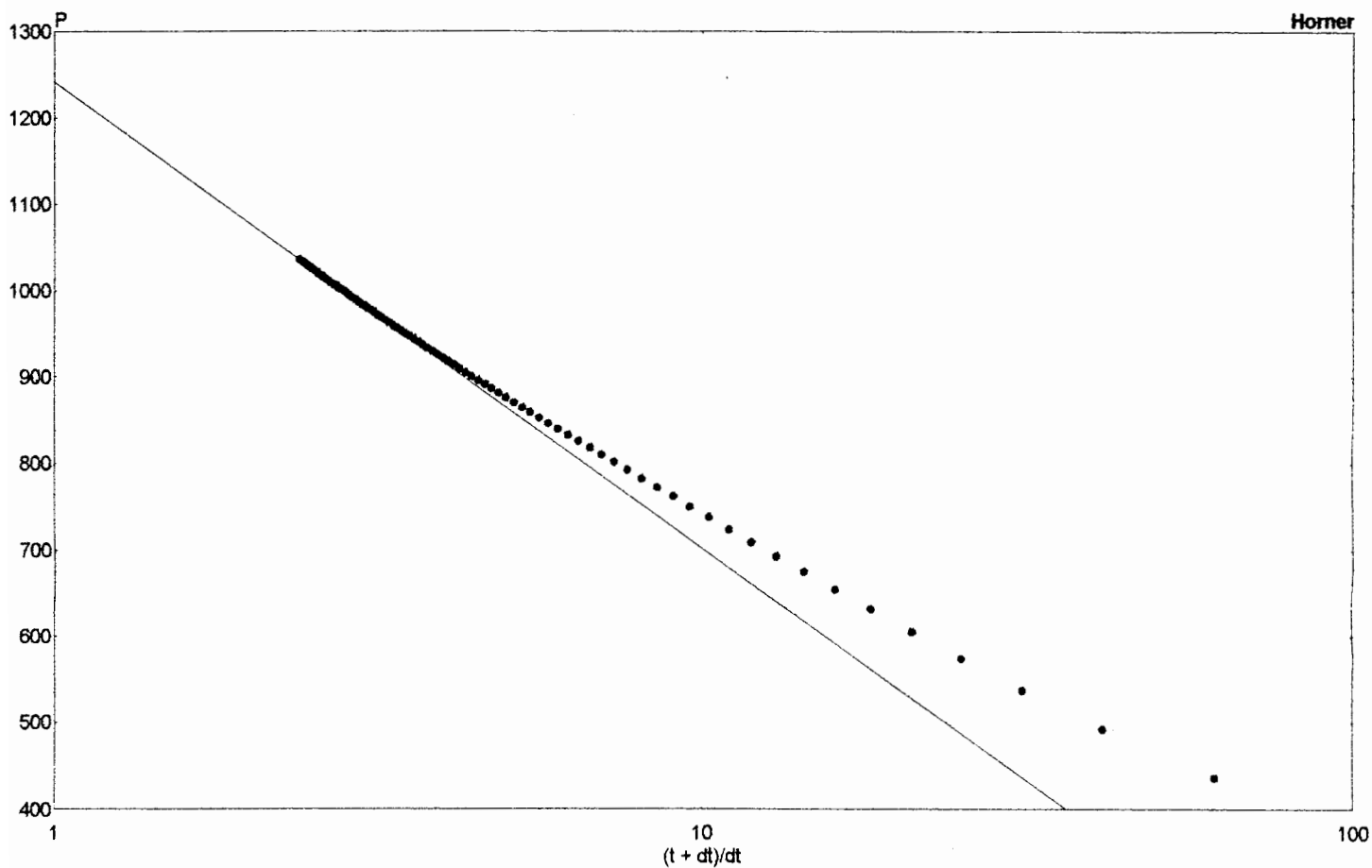
$k = 0.12451 \text{ md}$

Skin = 4.75771

$P^* = 1266 \text{ psi}$ *EXTRAPOLATED PRESSURE INITIALS NOT IN*

*Fryar #2
2-3/5-8w*

FRYAR2DST1 FSI



FRYAR2DST1

Analysis Results: Horner

Parameters:

Slope = -540.25

$m(1 \text{ hr}) = 1079.38$

Prd Time: = 1 hr

Calculated Values:

$kh = 3.00912 \text{ md-ft}$

$k = 0.14329 \text{ md}$

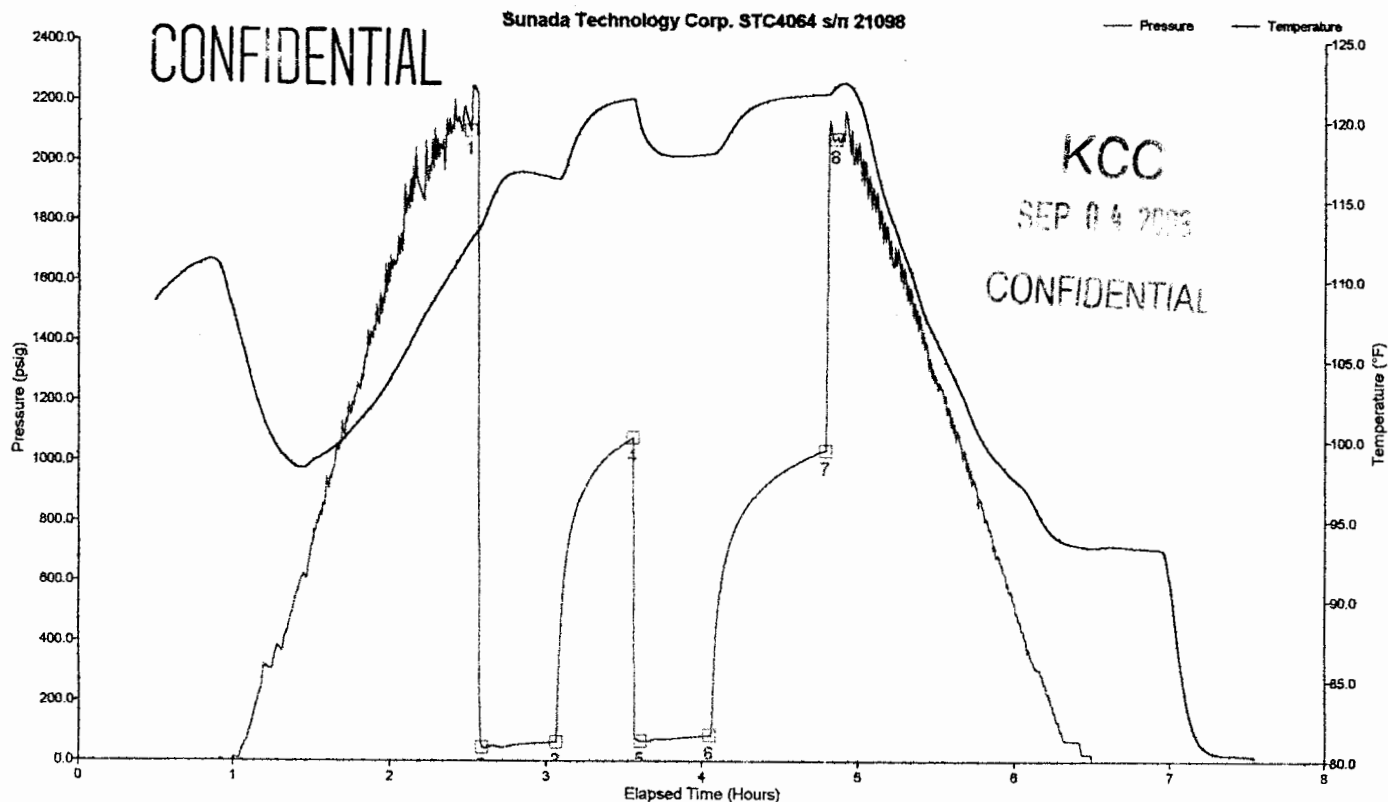
Skin = 4.18711

$P^* = 1242 \text{ psi}$ *EXTRAPOLATED PRESSURE FINAL SHUT-IN*

*Fryar #2
2-315-8w*

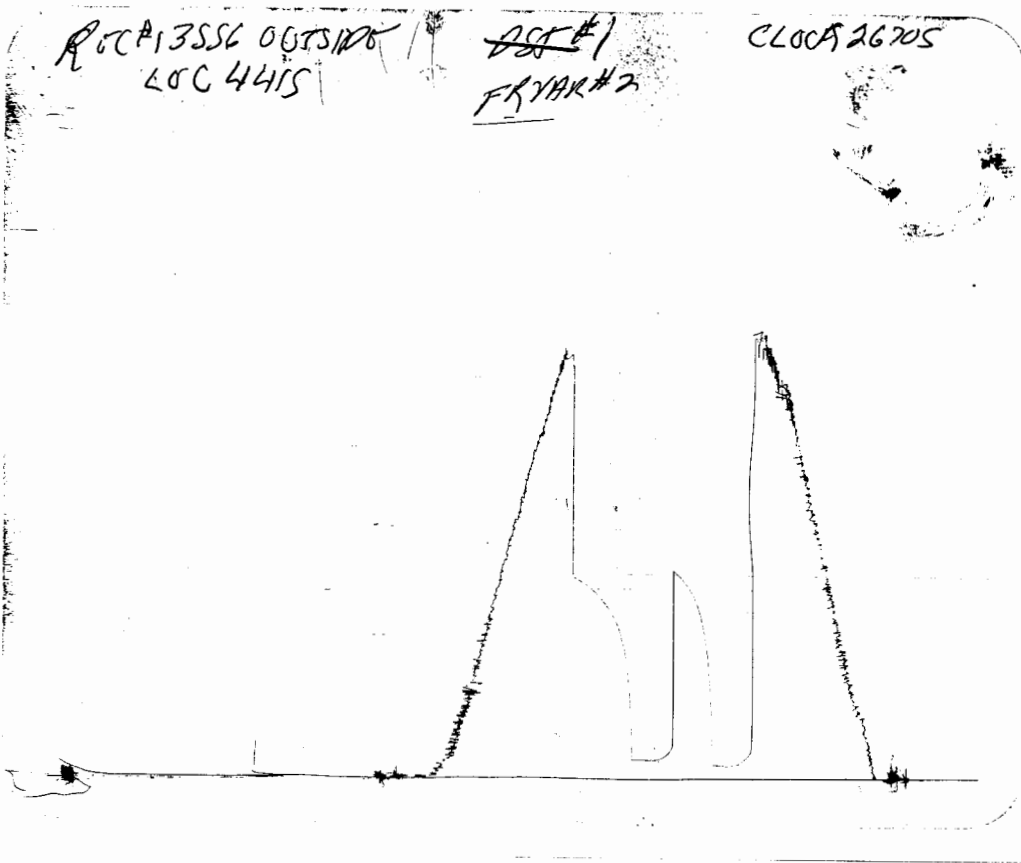
Well LSD: DST 1 MISS 4400-4418
Well Name: FRYAR 2
Company: MTM PETROLEUM INC
Battery on: Jul 31, 2003 at 14:52:00
Notes: REC. 124' O+GCM 62' GW

ORIGINAL



Tag	Pressure	Temperature	Comment
1	2098.56 psig	112.56 °F	2003-07-31 17:23:30
2	46.10 psig	113.54 °F	2003-07-31 17:27:30
3	63.41 psig	116.37 °F	2003-07-31 17:56:00
4	1076.90 psig	121.37 °F	2003-07-31 18:25:30
5	67.22 psig	119.54 °F	2003-07-31 18:28:30
6	85.25 psig	117.90 °F	2003-07-31 18:55:00
7	1034.80 psig	121.67 °F	2003-07-31 19:39:30
8	2073.13 psig	122.17 °F	2003-07-31 19:43:30

2-3/s-8w



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2098	2099
(B) First Initial Flow Pressure.....	46	46
(C) First Final Flow Pressure	63	63
(D) Initial Closed-in Pressure	1077	1077
(E) Second Initial Flow Pressure	67	67
(F) Second Final Flow Pressure.....	85	85
(G) Final Closed-in Pressure.....	1035	1035
(H) Final Hydrostatic Mud	2073	2073

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Page 1 of 2 Pages

Company MTM Petroleum, Inc. Lease & Well No. Fryar No. 2

Elevation 1654 KB Formation Simpson Effective Pay -- Ft. Ticket No. J1386

Date 8-2-03 Sec. 2 Twp. 31S Range 8W County Harper State Kansas

Test Approved By Marvin A. Miller Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 4,776 ft. to 4,796 ft. Total Depth 4,796 ft.

Packer Depth 4,771 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,776 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,779 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,793 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

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

Mud Type Chemical Viscosity 54 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 14.0 cc. Drill Pipe Length 4,750 ft. I.D. 3 1/2 in.

Chlorides 6,500 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 2 Anchor Length 20 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 1 min. Fair blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 7 mins. Fair blow back during shut-in.

Recovered 3,700 ft. of gas in pipe

Recovered 150 ft. of heavy gas & water cut muddy oil = 1.110000 bbls. (Grind out: 55%-gas; 15%-water; 10%-mud; 20%-oil)

Recovered 220 ft. of gassy water = 1.628000 bbls. (Grind out: 15%-gas; 85%-water) Chlorides: 60,000 Ppm

Recovered 370 ft. of TOTAL FLUID = 2.738000 bbls.

Recovered -- ft. of --

Remarks --

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SEP 04 2003

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Time Set Packer(s) 8:30 A.M. ~~P.M.~~ Time Started Off Bottom 11:30 A.M. ~~P.M.~~ Maximum Temperature 133°

Initial Hydrostatic Pressure (A) 2275 P.S.I.

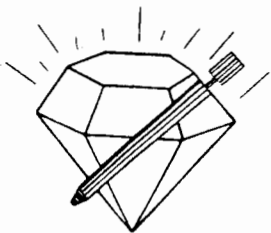
Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 108 P.S.I.

Initial Closed In Period Minutes 60 (D) 1755 P.S.I.

Final Flow Period Minutes 30 (E) 116 P.S.I. to (F) 181 P.S.I.

Final Closed In Period Minutes 60 (G) 1755 P.S.I.

Final Hydrostatic Pressure (H) 2268 P.S.I.



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Page 2 of 2 Pages

FLUID SAMPLE DATA

Company MTM Petroleum, Inc.

Lease & Well No. Fryar No. 2

Date 8-2-03 Sec. 2 Twp. 31 S Range 8 W

Formation Test No. 2 Interval Tested From 4,776 ft. to 4,796 ft. Total Depth 4,796 ft.

Formation Simpson

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>54</u> CP	<u>--</u> CP	
Weight	<u>9.4</u>	<u>--</u>	
Water Loss	<u>14.0</u> CC	<u>--</u> CC	Water
PH Factor	<u>10.0</u>	<u>--</u>	<u>9.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.14</u> @ <u>75</u> °F.	<u>58,000</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>.14</u> @ <u>70</u> °F.	<u>56,000</u> ppm
Mud Pit Sample	<u>1.00</u> @ <u>70</u> °F.	<u>6,200</u> ppm
Mud Pit Sample Filtrate	<u>.90</u> @ <u>65</u> °F.	<u>7,000</u> ppm

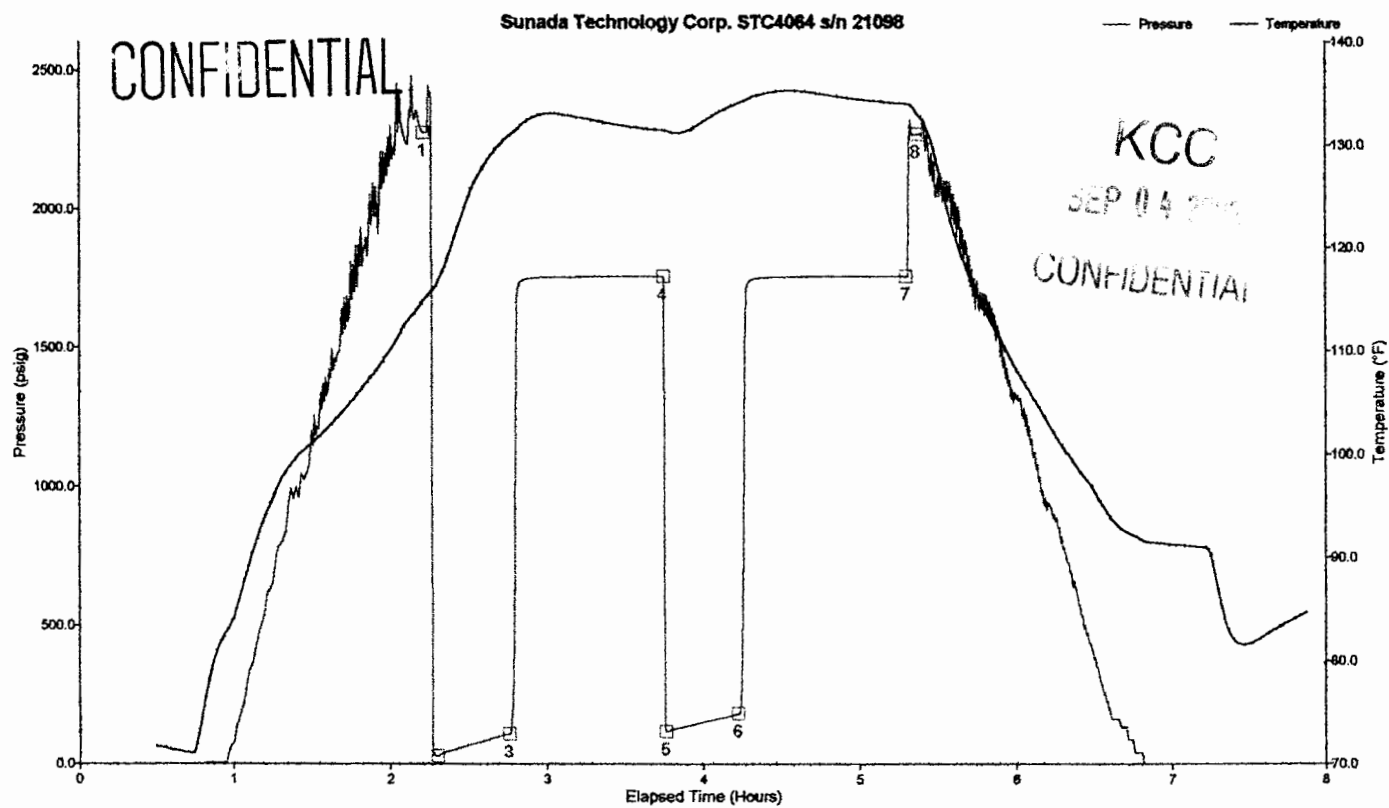
Sample Taken By JOHN C. RIEDL

Witness By Marvin A. Miller

Remarks Pit filtrate triton dish chlorides were 6,500 Ppm
Recovery water dish chlorides were 60,000 Ppm

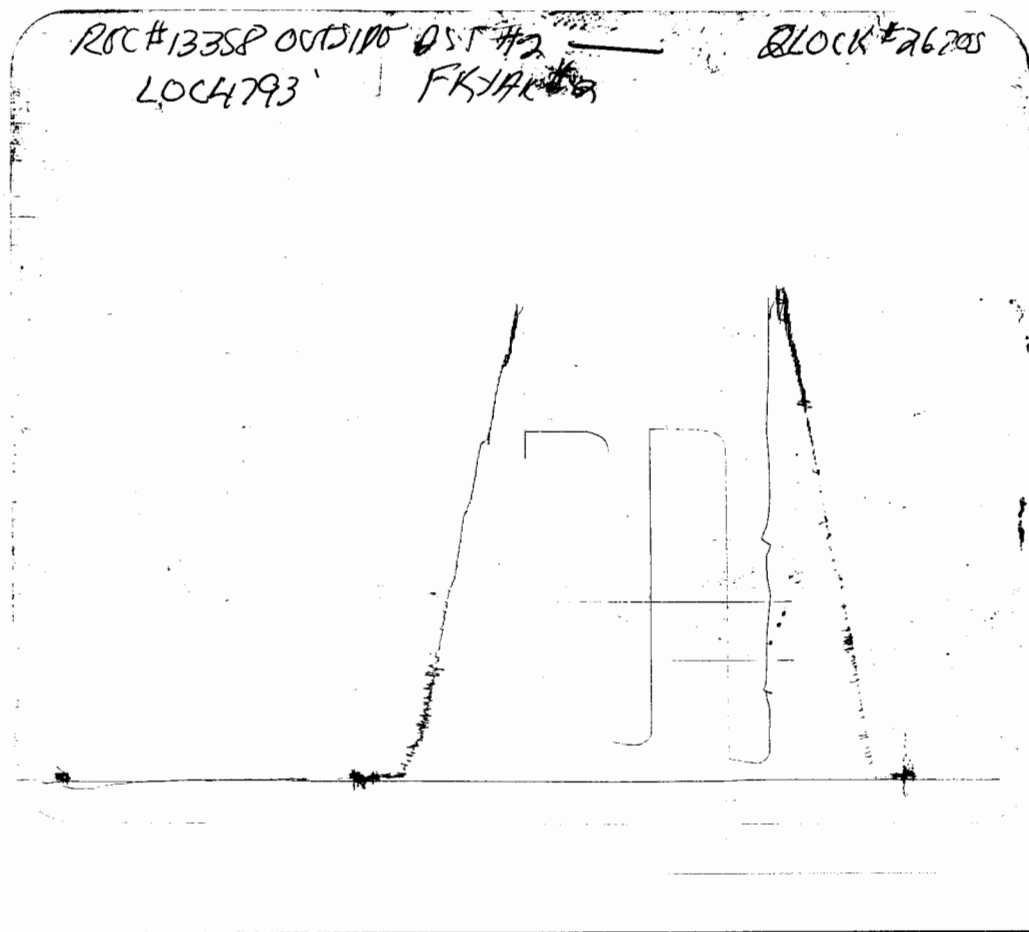
Well LSD: DST 2 SIMPSON 4776-4796
 Well Name: FRYAR 2
 Company: MTM PETROLEUM INC
 Battery on: Aug 2, 2003 at 06:15:00
 Notes: REC. 3700' GIP 150'HVYG+WCMO 220'GW CHLORIDES 60,000

ORIGINAL



Tag	Pressure	Temperature	Comment
1	2275.58 psig	115.03 °F	2003-08-02 08:28:00
2	28.25 psig	116.78 °F	2003-08-02 08:33:30
3	108.23 psig	131.04 °F	2003-08-02 09:01:00
4	1754.96 psig	131.48 °F	2003-08-02 10:00:00
5	116.12 psig	131.45 °F	2003-08-02 10:01:00
6	181.00 psig	134.16 °F	2003-08-02 10:28:30
7	1754.64 psig	134.05 °F	2003-08-02 11:33:00
8	2268.22 psig	133.16 °F	2003-08-02 11:37:00

2-315-8W



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2275	2276
(B) First Initial Flow Pressure.....	28	28
(C) First Final Flow Pressure	108	108
(D) Initial Closed-in Pressure	1755	1755
(E) Second Initial Flow Pressure	116	116
(F) Second Final Flow Pressure.....	181	181
(G) Final Closed-in Pressure	1755	1755
(H) Final Hydrostatic Mud	2268	2268

PSI
PSI
PSI
PSI
PSI
PSI
PSI
PSI