



15-171-20587

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

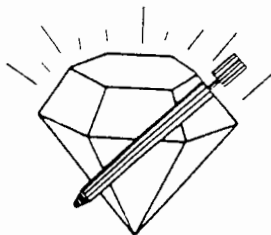
(620) 653-7550 • (800) 542-7313

STC 21099.D40

Page 1 of 3 Pages

Company Ritchie Exploration, Inc. Lease & Well No. Sharp-Gruver No. 1
Elevation 2918 KB Formation Lansing/Kansas City ("E"- "F") Effective Pay -- Ft. Ticket No. 1884
Date 6-21-04 Sec. 23 Twp. 17S Range 31W County Scott State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly
Formation Test No. 1 Interval Tested from 4,030 ft. to 4,055 ft. Total Depth 4,055 ft.
Packer Depth 4,025 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,030 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,018 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,052 ft. Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number psi
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.45 Water Loss 11.2 cc. Drill Pipe Length 4,005 ft. I.D. 3 1/2 in.
Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 25 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: Weak, 1/8 in., blow increasing to 2 ins. No blow back during shut-in.
2nd Open: No blow for 10 mins. Increased to 1/2 in. No blow back during shut-in.
Recovered 10 ft. of muddy water = .102600 bbls. (Grind out: 46%-mud; 54%-water)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 1%-oil; 39%-water; 60%-mud

Time Set Packer(s) 2:05 A.M. Time Started Off Bottom 4:05 P.M. Maximum Temperature 119°
Initial Hydrostatic Pressure (A) 1906 P.S.I.
Initial Flow Period Minutes 30 (B) 5 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period Minutes 30 (D) 852 P.S.I.
Final Flow Period Minutes 30 (E) 20 P.S.I. to (F) 27 P.S.I.
Final Closed In Period Minutes 30 (G) 755 P.S.I.
Final Hydrostatic Pressure (H) 1922 P.S.I.



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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.
Lease & Well No. Sharp-Gruver No. 1
Date 6-21-04 Sec. 23 Twp. 17 S Range 31 W
Formation Test No. 1 Interval Tested From 4,030 ft. to 4,055 ft. Total Depth 4,055 ft.
Formation Lansing/Kansas City ("E"- "F")

	MUD PIT	RECOVERY	
Viscosity	<u>45</u> CP	<u>31</u> CP	
Weight	<u>9.45</u>	<u>8.6</u>	
Water Loss	<u>11.2</u> CC	<u>40.8</u> CC	
PH Factor	<u>10.0</u>	<u>8.5</u>	Tool <u>7.0</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water (Tool)	<u>.58</u> @ <u>69</u> °F.	<u>11,000</u> ppm
Recovery Mud	<u>.44</u> @ <u>67</u> °F.	<u>18,000</u> ppm
Recovery Mud Filtrate	<u>.56</u> @ <u>68</u> °F.	<u>12,000</u> ppm
Mud Pit Sample	<u>1.90</u> @ <u>69</u> °F.	<u>3,400</u> ppm
Mud Pit Sample Filtrate	<u>2.05</u> @ <u>71</u> °F.	<u>3,000</u> ppm

Sample Taken By ROGER D. FRIEDLY
Witness By Kim B. Shoemaker
Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery filtrate triton dish chlorides were 10,500 Ppm.
Recovery water dish chlorides were 8,500 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: ROCKY MILFORD

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: SHARP / GRUVER #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #1 LKC "E-F" 4,030'-4,055'

Location-Surface: SEC 23-17S-31W SCOTT COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2004/06/21 Start Time: 00:04:00

End Date: 2004/06/21 End Time: 05:35:40

Report Date: Prepared By:

Qualified By:

Remarks:

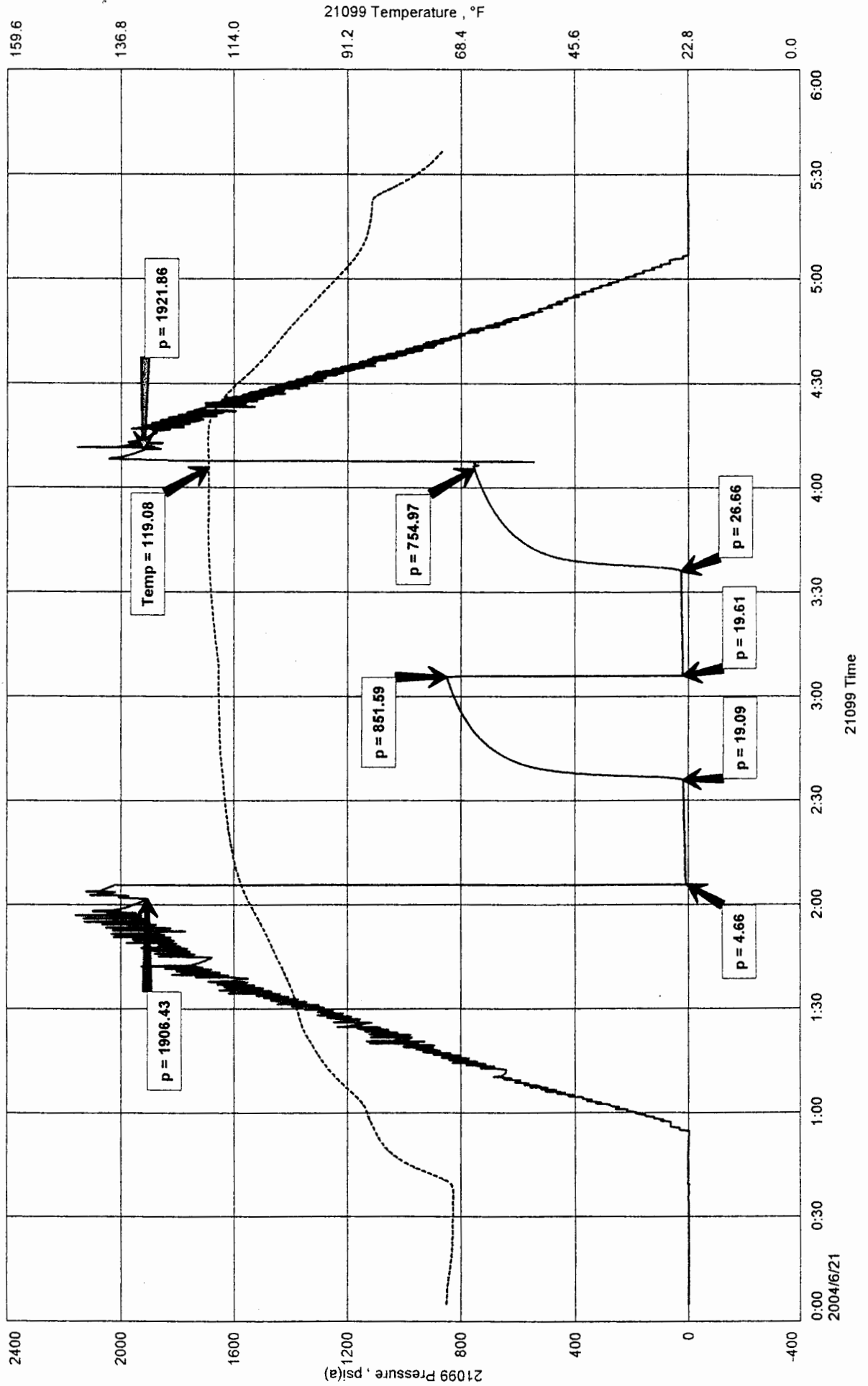
RECOVERED: 10' MW 46% MUD, 54% WTR.

TOOL SAMPLE: 1% OIL, 39% WTR, 60% MUD.

RITCHIE EXPLORATION, INC.
 DST #1 LKC "E-F" 4,030'-4,055'
 Start Test Date: 2004/06/21
 Final Test Date: 2004/06/21

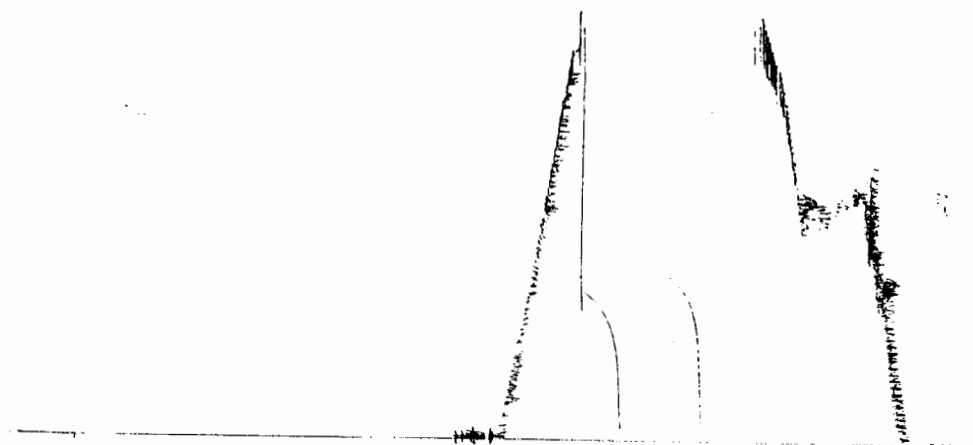
SHARP / GRUVER #1
 Formation: DST #1 LKC "E-F" 4,030'-4,055'
 Pool: WILDCAT

SHARP / GRUVER #1



DST # 1 outside 13387
LKC "E-F"

4030 - 4055
LOL 4052



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1906	1906
(B) First Initial Flow Pressure	5	5
(C) First Final Flow Pressure	19	19
(D) Initial Closed-in Pressure	852	852
(E) Second Initial Flow Pressure	20	20
(F) Second Final Flow Pressure	27	27
(G) Final Closed-in Pressure	755	755
(H) Final Hydrostatic Mud	1922	1922

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DIAMOND TESTING

P.O. Box 157

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STC 21099.D41

Page 1 of 3 Pages

Company Ritchie Exploration, Inc. Lease & Well No. Sharp-Gruver No. 1

Elevation 2918 KB Formation Pleasanton Effective Pay -- Ft. Ticket No. 1885

Date 6-22-04 Sec. 23 Twp. 17S Range 31W County Scott State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,300 ft. to 4,316 ft. Total Depth 4,316 ft.

Packer Depth 4,295 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,300 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,288 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,313 ft. Recorder Number 13387 Cap. 4,000 psi

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

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 49 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.45 Water Loss 8.0 cc. Drill Pipe Length 4,275 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 16 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: Weak, 1/2 in., blow increasing. Off bottom of bucket in 11 mins. No blow back during shut-in.

2nd Open: Weak, 1/2 in., blow increasing. Off bottom of bucket in 14 mins. No blow back during shut-in.

Recovered 122 ft. of muddy water = 1.251720 bbls. (Grind out: 42%-mud; 58%-water)

Recovered 558 ft. of salt water = 5.725080 bbls.

Recovered 680 ft. of TOTAL FLUID = 6.976800 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: 100%-salt water with a few oil specks

Time Set Packer(s) 4:26 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:26 ~~P.M.~~ ^{A.M.} Maximum Temperature 133°

Initial Hydrostatic Pressure (A) 2109 P.S.I.

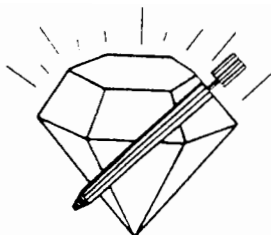
Initial Flow Period Minutes 30 (B) 14 P.S.I. to (C) 154 P.S.I.

Initial Closed In Period Minutes 45 (D) 908 P.S.I.

Final Flow Period Minutes 45 (E) 155 P.S.I. to (F) 319 P.S.I.

Final Closed In Period Minutes 60 (G) 882 P.S.I.

Final Hydrostatic Pressure (H) 2088 P.S.I.



DIAMOND TESTING
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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Sharp-Gruver No. 1

Date 6-22-04 Sec. 23 Twp. 17 S Range 31 W

Formation Test No. 2 Interval Tested From 4,300 ft. to 4,316 ft. Total Depth 4,316 ft.

Formation Pleasanton

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>49</u> CP	<u>--</u> CP	
Weight	<u>9.45</u>	<u>--</u>	
Water Loss	<u>8.0</u> CC	<u>--</u> CC	
PH Factor	<u>10.5</u>	<u>--</u>	Water <u>7.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.26</u> @ <u>62</u> °F.	<u>27,500</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample	<u>1.90</u> @ <u>62</u> °F.	<u>3,600</u> ppm
Mud Pit Sample Filtrate	<u>2.05</u> @ <u>61</u> °F.	<u>33,000</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery water dish chlorides were 25,500 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: ROCKY MILFORD

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: SHARP / GRUVER #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #2 PLEASANTON 4,300'-4,316'

Location-Surface: SEC 23-17S-31W SCOTT, COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2004/06/22 Start Time: 02:43:00

End Date: 2004/06/22 End Time: 09:12:30

Report Date: Prepared By:

Remarks: Qualified By:

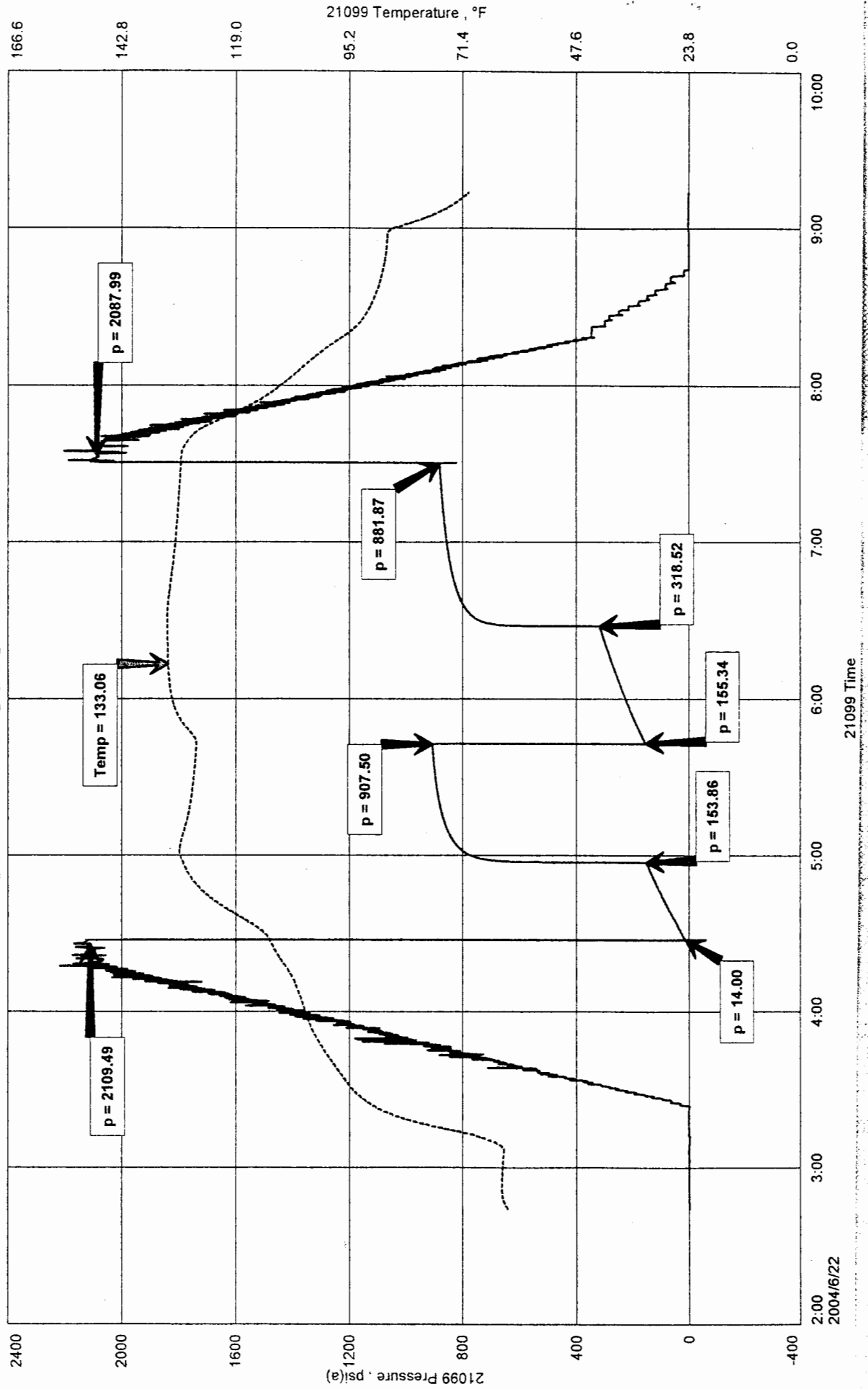
RECOVERED: 122' MW (42% MUD, 58% WTR)
558' SW (100% WTR)
680' TOTAL FLUID

TOOL SAMPLE 100% SW WITH A FWS OIL SPECKS.

RITCHIE EXPLORATION, INC.
 DST #2 PLEASANTON 4,300'-4,316'
 Start Test Date: 2004/06/22
 Final Test Date: 2004/06/22

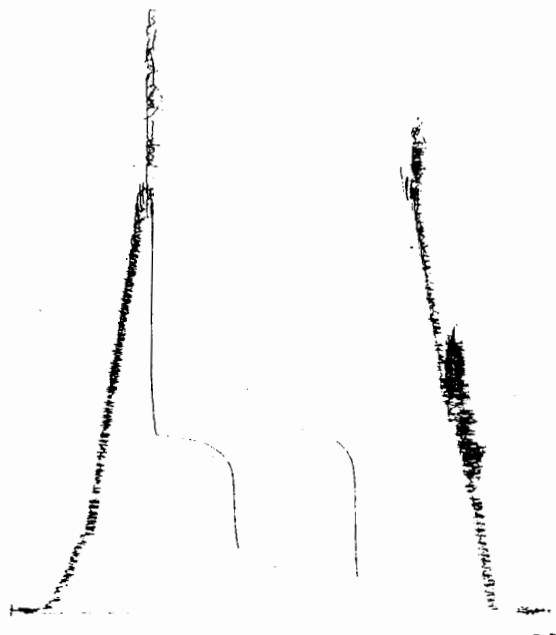
SHARP / GRUVER #1
 Formation: DST #2 PLEASANTON 4,300'-4,316'
 Pool: WILDCAT

SHARP / GRUVER #1



DST #2 outside 13387
ALEXANDON

4300-4316
LOC 4313



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2109	2109
(B) First Initial Flow Pressure.....	14	14
(C) First Final Flow Pressure	154	154
(D) Initial Closed-in Pressure	908	908
(E) Second Initial Flow Pressure	155	155
(F) Second Final Flow Pressure.....	319	319
(G) Final Closed-in Pressure.....	882	882
(H) Final Hydrostatic Mud	2088	2088



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STC 21099.D42

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Company Ritchie Exploration, Inc. Lease & Well No. Sharp-Gruver No. 1

Elevation 2918 KB Formation Altamont "B" Effective Pay -- Ft. Ticket No. 1886

Date 6-22-04 Sec. 23 Twp. 17S Range 31W County Scott State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 4,320 ft. to 4,378 ft. Total Depth 4,378 ft.

Packer Depth 4,315 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,320 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,308 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,375 ft. Recorder Number 13387 Cap. 4,000 psi

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

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

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

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 4,295 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 27' perf. w/31' drill pipe 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: Weak, 1/8 in., blow increasing to 3 ins. No blow back during shut-in.

2nd Open: Weak, surface blow. After 8 mins. increased to 2 ins. No blow back during shut-in.

Recovered 35 ft. of drilling mud with a trace of oil = .359100 bbls.

Recovered 62 ft. of muddy water with a trace of oil = .636120 bbls. (Grind out: 47%-mud; 53%-water)

Recovered 97 ft. of TOTAL FLUID = .995220 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: 1%-oil; 45%-water; 54%-mud

Time Set Packer(s) 8:08 ~~AM~~ P.M. Time Started Off Bottom 11:08 ~~AM~~ P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure (A) 2133 P.S.I.

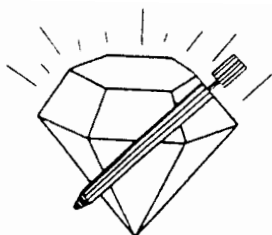
Initial Flow Period Minutes 30 (B) 9 P.S.I. to (C) 32 P.S.I.

Initial Closed In Period Minutes 45 (D) 881 P.S.I.

Final Flow Period Minutes 45 (E) 32 P.S.I. to (F) 56 P.S.I.

Final Closed In Period Minutes 60 (G) 844 P.S.I.

Final Hydrostatic Pressure (H) 2118 P.S.I.



DIAMOND TESTING
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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Sharp-Gruver No. 1

Date 6-22-04 Sec. 23 Twp. 17 S Range 31 W

Formation Test No. 3 Interval Tested From 4,320 ft. to 4,378 ft. Total Depth 4,378 ft.

Formation Altamont "B"

	MUD PIT	RECOVERY	
Viscosity	<u>46</u> CP	<u>51</u> CP	
Weight	<u>9.4</u>	<u>9.35</u>	
Water Loss	<u>8.8</u> CC	<u>10.0</u> CC	
PH Factor	<u>10.0</u>	<u>9.0</u>	Tool <u>7.5</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>.48</u> @ <u>70</u> °F.	<u>14,000</u> ppm
Recovery Mud	<u>1.00</u> @ <u>69</u> °F.	<u>6,200</u> ppm
Recovery Mud Filtrate	<u>1.05</u> @ <u>69</u> °F.	<u>6,000</u> ppm
Mud Pit Sample	<u>1.45</u> @ <u>78</u> °F.	<u>3,800</u> ppm
Mud Pit Sample Filtrate	<u>1.65</u> @ <u>78</u> °F.	<u>3,400</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery filtrate triton dish chlorides were 4,000 Ppm.
Recovery water dish chlorides were 11,000 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: ROCKY MILFORD

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: SHARP / GRUVER #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #3 ALTAMONT B 4,320'-4,378'

Location-Surface: SEC 23-17S-31W SCOTT, COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2004/06/22 Start Time: 18:15:00

End Date: 2004/06/23 End Time: 01:03:39

Report Date: Prepared By:

Remarks: Qualified By:

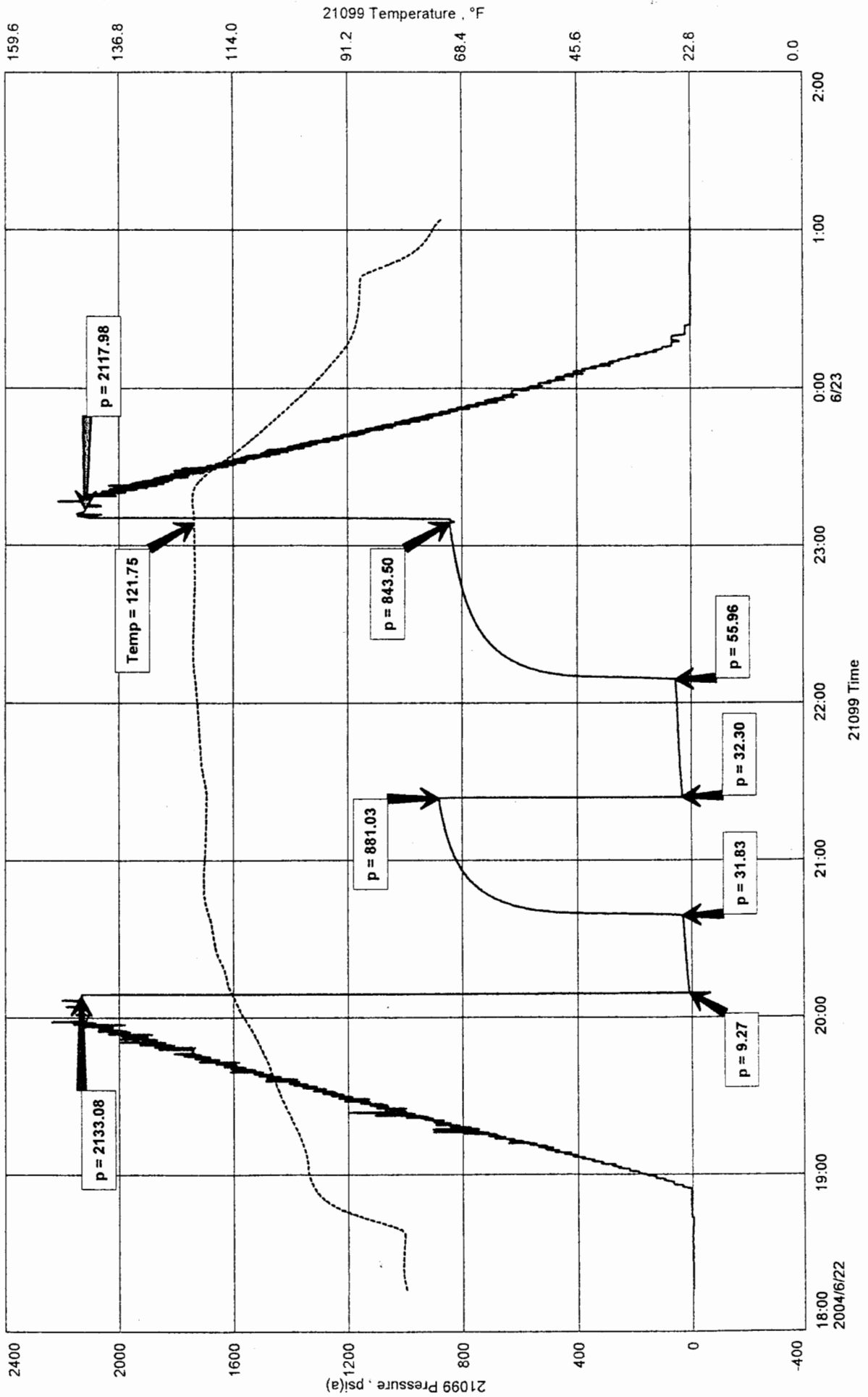
RECOVERED: 35' DM 100% MUD WITH A TRACE OF OIL.
62' MW (47% MUD, 53% WTR) WITH A TRACE OF OIL.
97' TOTAL FLUID

TOOL SAMPLE: 1% OIL, 45% WTR, 54% MUD.

SHARP / GRUVER #1
 Formation: DST #3 ALTAMONT B 4,320'-4,378'
 Pool: WILDCAT

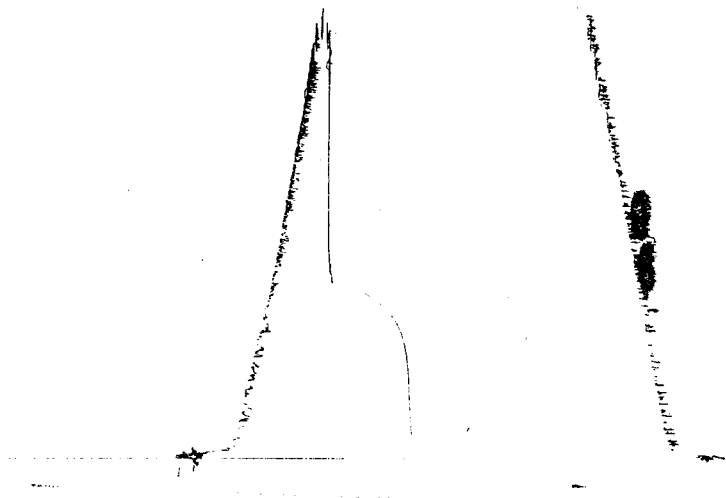
RITCHIE EXPLORATION, INC.
 DST #3 ALTAMONT B 4,320'-4,378'
 Start Test Date: 2004/06/22
 Final Test Date: 2004/06/23

SHARP / GRUVER #1



DST #3 Outside 13387
 Affament B

4320-4378
 201 4375



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2133	2133
(B) First Initial Flow Pressure.....	9	9
(C) First Final Flow Pressure	32	32
(D) Initial Closed-in Pressure	881	881
(E) Second Initial Flow Pressure	32	32
(F) Second Final Flow Pressure.....	56	56
(G) Final Closed-in Pressure.....	844	844
(H) Final Hydrostatic Mud	2118	2118



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Company Ritchie Exploration, Inc. Lease & Well No. Sharp-Gruver No. 1

Elevation 2918 KB Formation Pawnee/Cherokee Effective Pay -- Ft. Ticket No. 1887

Date 6-23-04 Sec. 23 Twp. 17S Range 31W County Scott State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 4,416 ft. to 4,504 ft. Total Depth 4,504 ft.

Packer Depth 4,411 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,416 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,404 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,501 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.35 Water Loss 9.6 cc. Drill Pipe Length 4,391 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 88 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: Weak, 1/2 in., blow increasing to 2 ins. No blow back during shut-in.

2nd Open: Weak, 1/2 in., blow increasing to 3 ins. No blow back during shut-in.

Recovered 35 ft. of gas in pipe

Recovered 25 ft. of slightly gassy & oil cut mud = .256500 bbls. (Grind out: 2%-gas; 3%-oil; 95%-mud)

Recovered 25 ft. of TOTAL FLUID = .256500 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 3%-gas; 6%-oil; 91%-mud

Time Set Packer(s) 6:18 ~~XXX~~ P.M. Time Started Off Bottom 8:18 ~~XXX~~ P.M. Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2140 P.S.I.

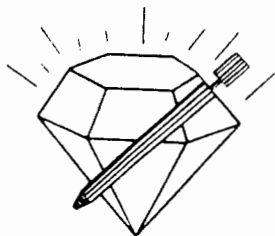
Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period Minutes 30 (D) 87 P.S.I.

Final Flow Period Minutes 30 (E) 16 P.S.I. to (F) 20 P.S.I.

Final Closed In Period Minutes 30 (G) 77 P.S.I.

Final Hydrostatic Pressure (H) 2134 P.S.I.



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FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.

Lease & Well No. Sharp-Gruver No. 1

Date 6-23-04 Sec. 23 Twp. 17 S Range 31 W

Formation Test No. 4 Interval Tested From 4,416 ft. to 4,504 ft. Total Depth 4,504 ft.

Formation Pawnee/Cherokee

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>45</u> CP	<u>49</u> CP
Weight	<u>9.35</u>	<u>9.3</u>
Water Loss	<u>9.6</u> CC	<u>10.0</u> CC
PH Factor	<u>10.5</u>	<u>10.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>1.25</u> @ <u>76</u> °F. <u>4,500</u> ppm	
Recovery Mud Filtrate	<u>1.35</u> @ <u>79</u> °F. <u>4,000</u> ppm	
Mud Pit Sample	<u>1.20</u> @ <u>87</u> °F. <u>4,000</u> ppm	
Mud Pit Sample Filtrate	<u>1.40</u> @ <u>88</u> °F. <u>3,500</u> ppm	

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery filtrate triton dish chlorides were 2,200 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.

Contact: ROCKY MILFORD

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: SHARP / GRUVER #1

Operator: RITCHIE EXPLORATION, INC.

Location-Downhole: DST #4 PAWNEE/CHEROKEE 4,416'-4,504'

Location-Surface: SEC 23-17S-31W SCOTT, COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number:

Test Unit: NO. 1

Start Date: 2004/06/23 Start Time: 16:11:00

End Date: 2004/06/23 End Time: 22:13:40

Report Date: Prepared By:

Remarks: Qualified By:

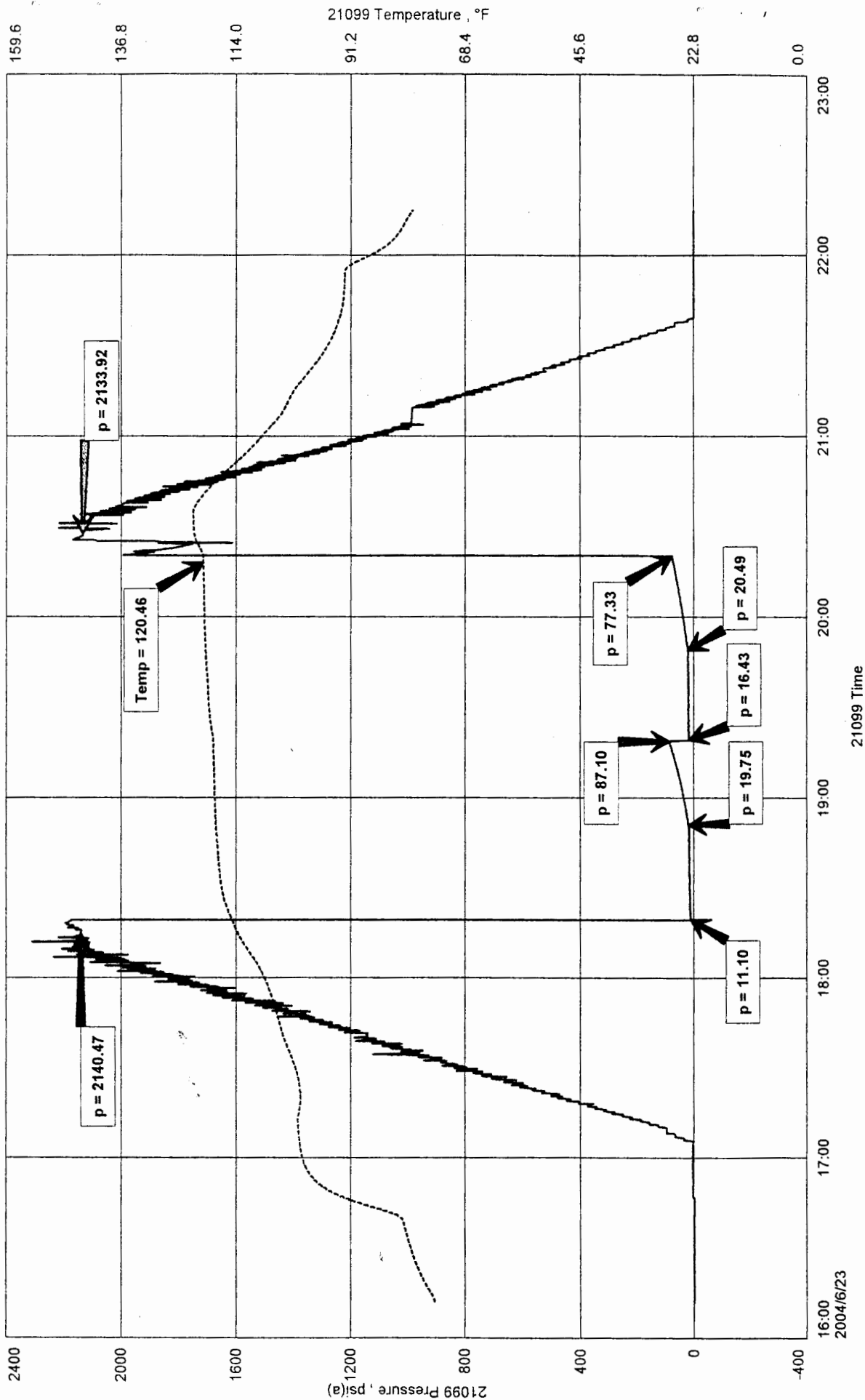
RECOVERED: 25' SLTG&OCM (2% GAS, 3% OIL, 95% MUD.
35' GAS IN PIPE.

TOOLSAMPLE: 3% GAS, 6% OIL, 91% MUD.

RITCHIE EXPLORATION, INC.
DST #4 PAWNEE/CHEROKEE 4,416'-4,504'
Start Test Date: 2004/06/23
Final Test Date: 2004/06/23

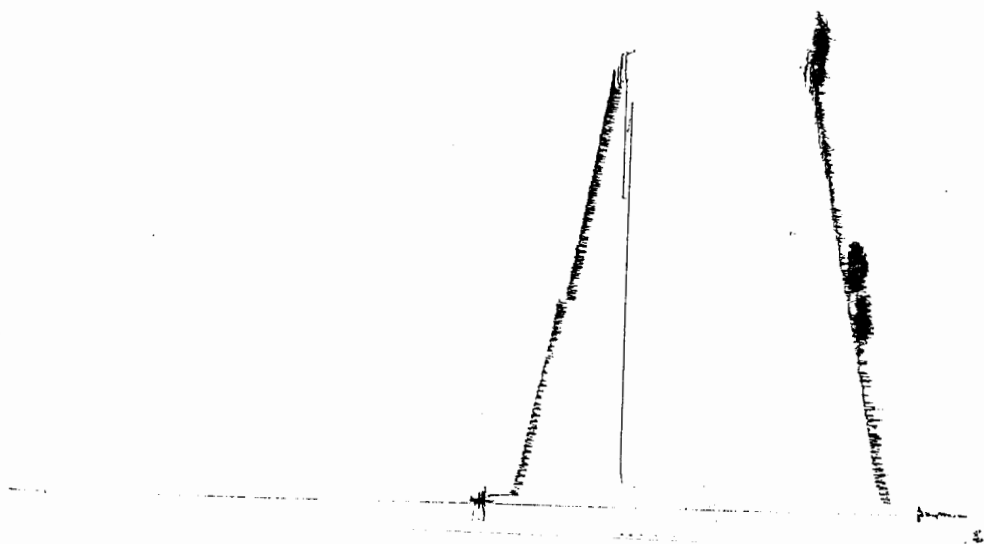
SHARP / GRUVER #1
Formation: DST #4 PAWNEE/CHEROKEE 4,416'-4,504'
Pool: WILDCAT

SHARP / GRUVER #1



DST # 4 outside 13387
 Paw/Chero

4416-4SD4
 LOL 4SD1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2140	2140
(B) First Initial Flow Pressure.....	11	11
(C) First Final Flow Pressure	20	20
(D) Initial Closed-in Pressure	87	87
(E) Second Initial Flow Pressure	16	16
(F) Second Final Flow Pressure.....	20	20
(G) Final Closed-in Pressure.....	77	77
(H) Final Hydrostatic Mud	2134	2134



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21099.D44

Page 1 of 3 Pages

Company Ritchie Exploration, Inc. Lease & Well No. Sharp-Gruver No. 1

Elevation 2918 KB Formation Cherokee/Johnson Effective Pay -- Ft. Ticket No. 1888

Date 6-24-04 Sec. 23 Twp. 17S Range 31W County Scott State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 5 Interval Tested from 4,506 ft. to 4,555 ft. Total Depth 4,555 ft.

Packer Depth 4,501 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,506 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,494 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,552 ft. Recorder Number 13387 Cap. 4,000 psi

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

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.45 Water Loss 8.0 cc. Drill Pipe Length 4,481 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 49 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: Weak, 1/8 in., blow increasing to an intermittent, 1/2 in., blow. No blow back during shut-in.

2nd Open: Weak, surface blow increasing to 1/2 in. No blow back during shut-in.

Recovered 15 ft. of slightly oil cut mud = .153900 bbls. (Grind out: 5%-oil; 95%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: 2%-gas; 10%-oil; 88%-mud

Time Set Packer(s) 9:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 121°

Initial Hydrostatic Pressure (A) 2213 P.S.I.

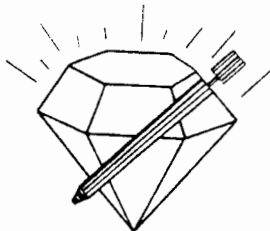
Initial Flow Period Minutes 30 (B) 6 P.S.I. to (C) 14 P.S.I.

Initial Closed In Period Minutes 30 (D) 85 P.S.I.

Final Flow Period Minutes 30 (E) 15 P.S.I. to (F) 17 P.S.I.

Final Closed In Period Minutes 30 (G) 50 P.S.I.

Final Hydrostatic Pressure (H) 2205 P.S.I.



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

Page 2 of 3 Pages

FLUID SAMPLE DATA

Company Ritchie Exploration, Inc.
Lease & Well No. Sharp-Gruver No. 1
Date 6-24-04 Sec. 23 Twp. 17 S Range 31 W
Formation Test No. 5 Interval Tested From 4,506 ft. to 4,555 ft. Total Depth 4,555 ft.
Formation Cherokee/Johnson

	MUD PIT	RECOVERY
Viscosity	<u>47</u> CP	<u>52</u> CP
Weight	<u>9.45</u>	<u>9.4</u>
Water Loss	<u>8.0</u> CC	<u>8.8</u> CC
PH Factor	<u>10.0</u>	<u>10.5</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>1.35</u> @ <u>82</u> °F. <u>3,800</u> ppm	
Recovery Mud Filtrate	<u>1.50</u> @ <u>83</u> °F. <u>3,400</u> ppm	
Mud Pit Sample	<u>1.60</u> @ <u>67</u> °F. <u>4,000</u> ppm	
Mud Pit Sample Filtrate	<u>1.85</u> @ <u>68</u> °F. <u>3,300</u> ppm	

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery filtrate triton dish chlorides were 2,200 Ppm.

GENERAL INFORMATION

Client Information:

Company: RITCHIE EXPLORATION, INC.
Contact: ROCKY MILFORD
Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER
Phone: Fax: e-mail:

Well Information:

Name: SHARP / GRUVER #1
Operator: RITCHIE EXPLORATION, INC.
Location-Downhole: DST #5 CHERO. / JOHNSON 4,506'-4,555
Location-Surface: SEC 23-17S-31W SCOTT, COUNTY

Test Information:

Company:	DIAMOND TESTING	
Representative:	ROGER D. FRIEDLY	
Supervisor:	KIM SHOEMAKER	
Test Type:	CONVENTIONAL	Job Number:
Test Unit:	NO 1	
Start Date:	2004/06/24	Start Time: 07:20:00
End Date:	2004/06/24	End Time: 13:05:10
Report Date:		Prepared By:
<u>Remarks:</u>		Qualified By:

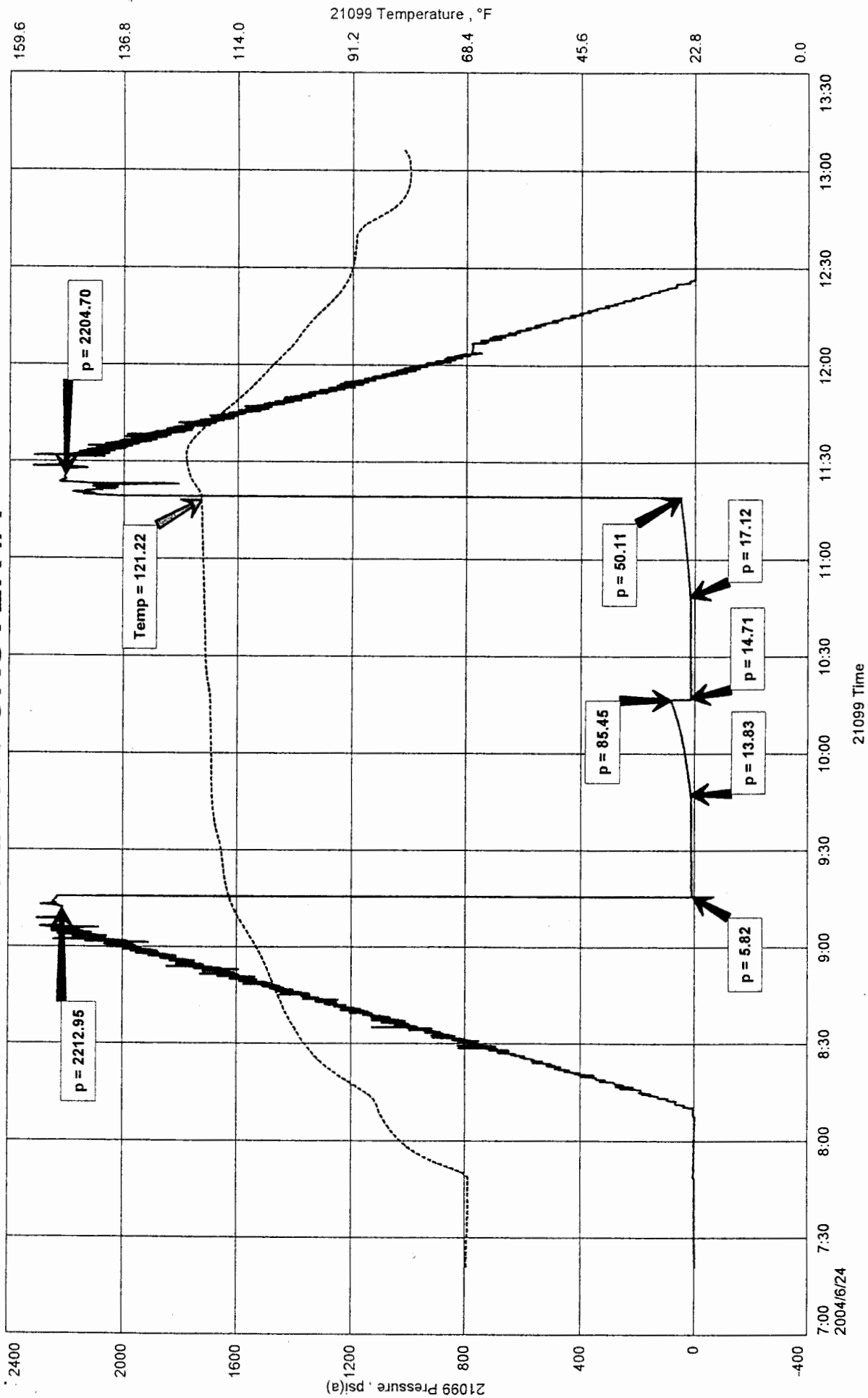
RECOVERED 15' SLTOCM 5% OIL, 95% MUD.

TOOL SAMPLE 2% GAS, 10% OIL, 88% MUD.

SHARP / GRUVER #1
Formation: DST #5 CHERO. / JOHNSON 4,506' - 4,555'
Pool: WILDCAT

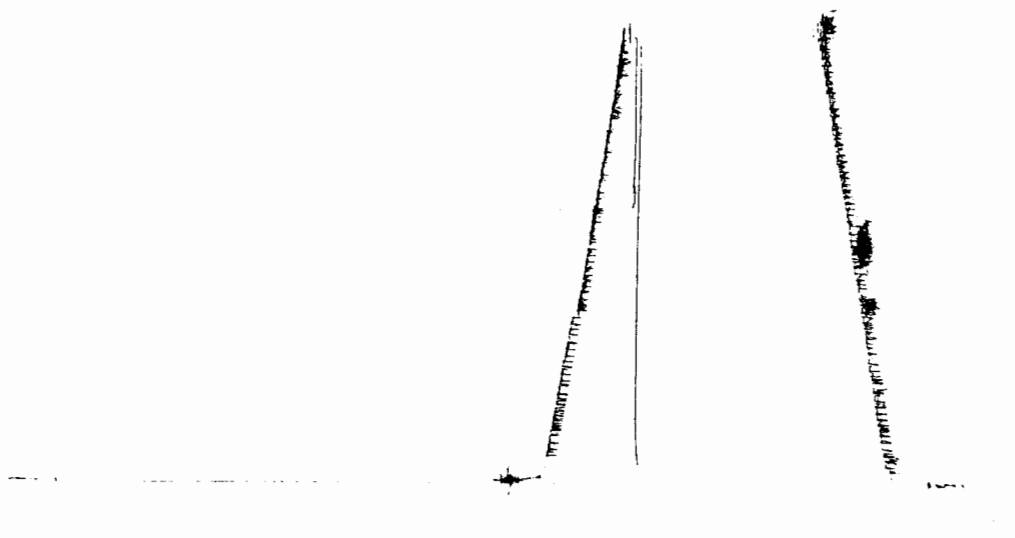
RTCHIE EXPLORATION, INC.
DST #5 CHERO. / JOHNSON 4,506'-4,555
Start Test Date: 2004/06/24
Final Test Date: 2004/06/24

SHARP / GRUVER #1



DST # 5 OUTSIDE 1008 /
Cher / Johnson

4500 - 7333
402 4552



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2213	2213
(B) First Initial Flow Pressure	6	6
(C) First Final Flow Pressure	14	14
(D) Initial Closed-in Pressure	85	85
(E) Second Initial Flow Pressure	15	15
(F) Second Final Flow Pressure	17	17
(G) Final Closed-in Pressure	50	50
(H) Final Hydrostatic Mud	2205	2205