

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

<b>Contact</b>	JUSTIN CLEGG	<b>Job Number</b>	T198
<b>Well Name</b>	SELENKE-HOCKERSMITH #1	<b>Representative</b>	TIM VENTERS
<b>Unique Well ID</b>	DST #1, LANSING "C", 3972-3995	<b>Well Operator</b>	RITCHIE EXPLORATION, INC.
<b>Surface Location</b>	SEC 22-13S-31W, GOVE CO. KS.	<b>Report Date</b>	2013/04/30
<b>Well License Number</b>		<b>Prepared By</b>	TIM VENTERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #1, LANSING "C", 3972-3995		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	02:46:00
		<b>Final Test Time</b>	10:06:00
<b>Start Test Date</b>	2013/04/30		
<b>Final Test Date</b>	2013/04/30		
<b>Gauge Name</b>	8457		
<b>Gauge Serial Number</b>			

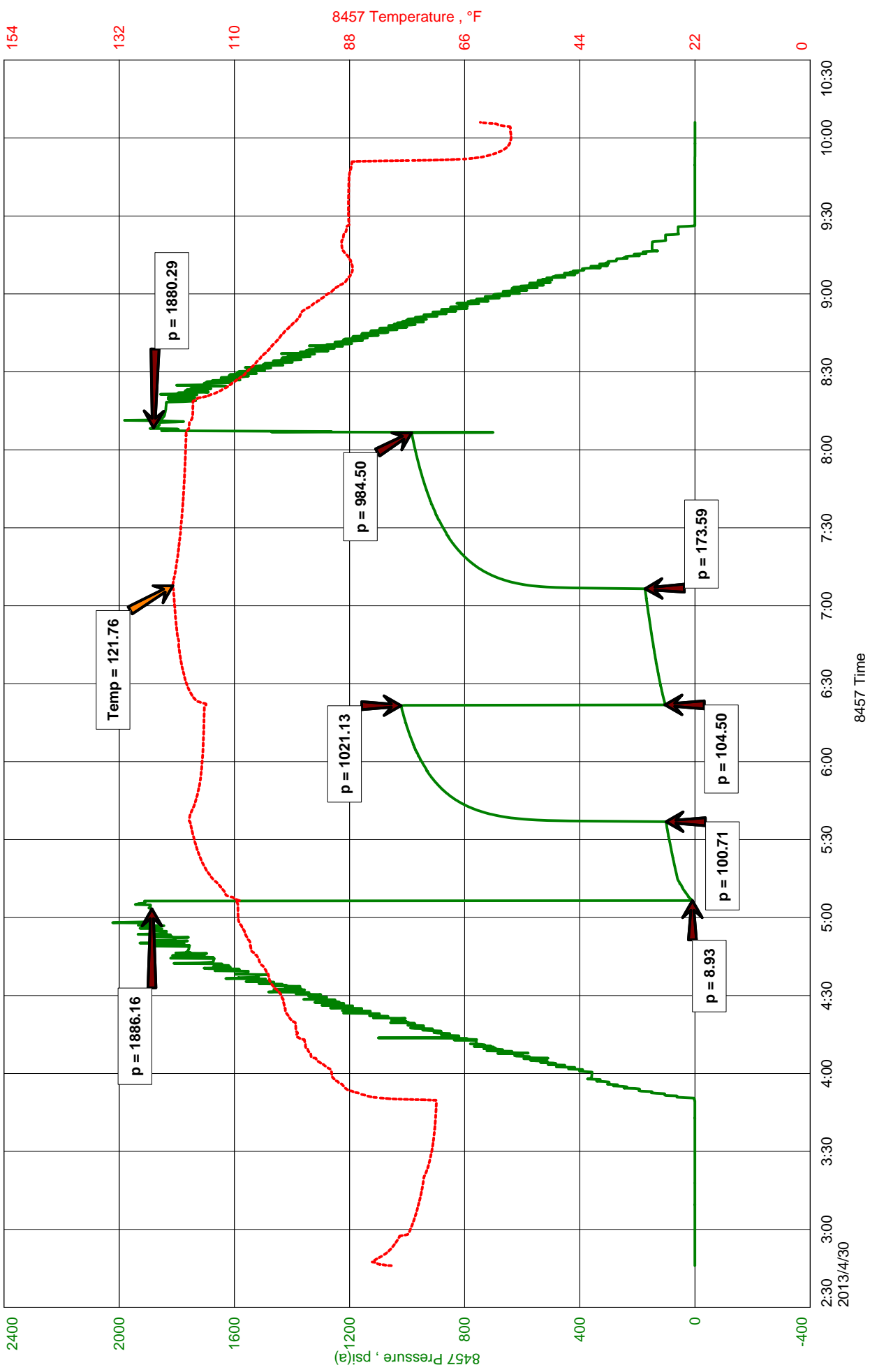
### Test Results

RECOVERED: 1' CLEAN OIL, 100% OIL  
300' SMCWW/TR.O, TRACE OIL, 94% WATER, 6% MUD  
60' MCWW/TR.O, TRACE OIL, 71% WATER, 29% MUD  
361' TOTAL FLUID

TOOL SAMPLE: TRACE OIL, 100% WATER

CHLORIDES: 71,000 ppm  
PH: 8.5  
RW: .14 @ 82 deg.

# SELENKE-HOCKERSMITH #1





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

TIME ON: 02:46  
TIME OFF: 10:06

**DRILL-STEM TEST TICKET**  
FILE: SELENKE-HOCKERSMITH1DST1

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
Elevation 2895 KB Formation LANSING "C" Effective Pay -- Ft. Ticket No. T198  
Date 4-30-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 3972 ft. to 3995 ft. Total Depth 3995 ft.  
Packer Depth 3967 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
Packer Depth 3972 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3953 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 3992 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEMICAL Viscosity 48 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 8.6 Water Loss 6.4 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
Chlorides 1,200 P.P.M. Drill Pipe Length 3818 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 23 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 25 MIN. (NO B.B.)  
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 39 MIN. (NO B.B.)

Recovered 1 ft. of CLEAN OIL 100% OIL  
Recovered 300 ft. of SMCWW/TR. O, TRACE OIL, 94% WATER, 6% MUD  
Recovered 60 ft. of MCWW/TR.O, TRACE OIL, 71% WATER, 29% MUD  
Recovered 361 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 71,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 8.5	Other Charges
Remarks: _____	RW: .14 @ 82 deg.	Insurance
Tool Sample: <u>TRACE OIL, 100% WATER</u>		Total

Time Set Packer(s) 5:06 AM A.M. P.M. Time Started Off Bottom 8:06 AM A.M. P.M. Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 1886 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 101 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1021 P.S.I.  
Final Flow Period..... Minutes 45 (E) 105 P.S.I. to (F) 174 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 985 P.S.I.  
Final Hydrostatic Pressure..... (H) 1880 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

**Contact** JUSTIN CLEGG  
**Well Name** SELENKE-HOCKERSMITH #1  
**Unique Well ID** DST #2, LKC "D", 4005-4023  
**Surface Location** SEC 22-13S-31W, GOVE CO. KS.  
**Well License Number**  
**Field** WILDCAT  
**Well Type** Vertical

**Job Number** T199  
**Representative** TIM VENTERS  
**Well Operator** RITCHIE EXPLORATION, INC.  
**Report Date** 2013/05/01  
**Prepared By** TIM VENTERS

**Test Type** CONVENTIONAL  
**Formation** DST #2, LKC "D", 4005-4023  
**Well Fluid Type** 01 Oil  
**Start Test Date** 2013/04/30  
**Final Test Date** 2013/04/30

**Start Test Time** 16:54:00  
**Final Test Time** 23:50:00

**Gauge Name** 8457  
**Gauge Serial Number**

### Test Results

RECOVERED: 210' SMCW 93% WATER, 7% MUD  
60' WCM, 33% WATER, 87% MUD  
270' TOTAL FLUID

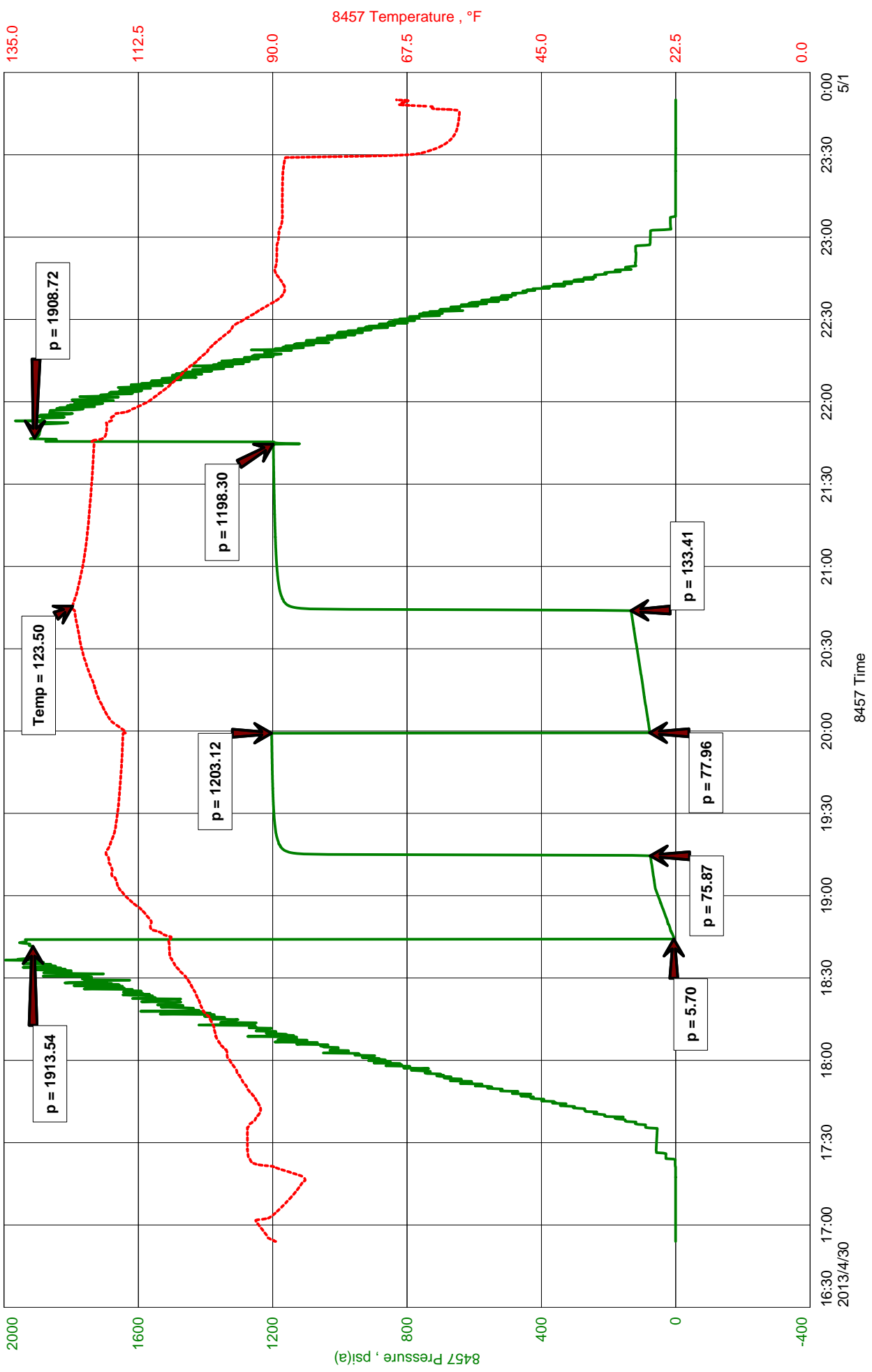
TOOL SAMPLE: 5% OIL, 56% WATER, 39% MUD

CHLORIDES: 73,000 ppm  
PH: 8.0  
RW: .17 @ 66 deg.

RITCHIE EXPLORATION, INC.  
 DST #2, LKC "D", 4005-4023  
 Start Test Date: 2013/04/30  
 Final Test Date: 2013/04/30

SELENKE-HOCKERSMITH #1  
 Formation: DST #2, LKC "D", 4005-4023  
 Pool: WILDCAT  
 Job Number: T199

# SELENKE-HABERSMITH #1





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

TIME ON: 16:54  
 TIME OFF: 23:50

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST2

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation LANSING "D" Effective Pay -- Ft. Ticket No. T199  
 Date 4-30-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 2 Interval Tested from 4005 ft. to 4023 ft. Total Depth 4023 ft.  
 Packer Depth 4000 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4005 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 3993 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4020 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 49 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.25 Water Loss 7.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 1,300 P.P.M. Drill Pipe Length 3858 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 4 Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 18 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 8 INCHES. (NO B.B.)  
 2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 9 1/2 INCHES. (NO B.B.)

Recovered 210 ft. of SMCW, 93% WATER, 7% MUD  
 Recovered 60 ft. of WCM 33% WATER, 67% MUD  
 Recovered 270 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 73,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 8.0	Other Charges
Remarks: _____	RW: .17 @ 66 deg.	Insurance
Tool Sample: 5% OIL, 56% WATER, 39% MUD		Total

Time Set Packer(s) 6:43 PM A.M. P.M. Time Started Off Bottom 9:43 A.M. P.M. Maximum Temperature 124 deg.  
 Initial Hydrostatic Pressure..... (A) 1914 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 76 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 1203 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 78 P.S.I. to (F) 133 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1198 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1909 P.S.I.

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# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

<b>Contact</b>	JUSTIN CLEGG	<b>Job Number</b>	T200
<b>Well Name</b>	SELENKE-HOCKERSMITH #1	<b>Representative</b>	TIM VENTERS
<b>Unique Well ID</b>	DST #3, LKC "E&F", 4022-4055	<b>Well Operator</b>	RITCHIE EXPLORATION, INC.
<b>Surface Location</b>	SEC 22-13S-31W, GOVE CO. KS.	<b>Report Date</b>	2013/05/01
<b>Well License Number</b>		<b>Prepared By</b>	TIM VENTERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	CONVENTIONAL	<b>Start Test Time</b>	09:10:00
<b>Formation</b>	DST #3, LKC "E&F", 4022-4055	<b>Final Test Time</b>	16:44:00
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2013/05/01		
<b>Final Test Date</b>	2013/05/01		
<b>Gauge Name</b>	8457		
<b>Gauge Serial Number</b>			

### Test Results

RECOVERED: 235' VSMCW, 97% WATER, 3% MUD  
60' MCW, 72% WATER, 28% MUD  
295' TOTAL FLUID

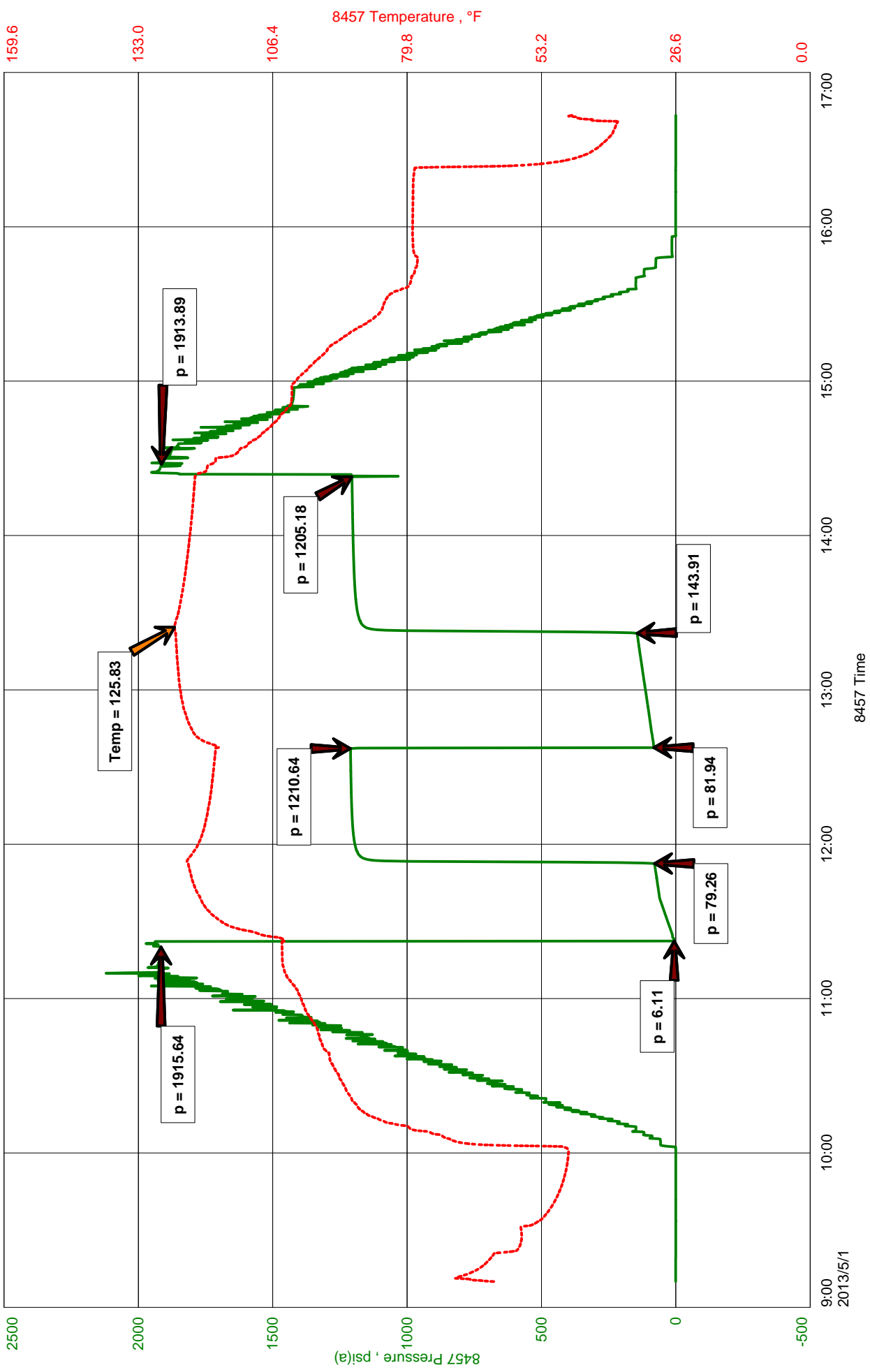
TOOL SAMPLE: 2% OIL, 78% WATER, 20% MUD

CHLORIDES: 81,000 ppm  
PH: 7.5  
RW: .22 @ 65 deg.

RITCHIE EXPLORATION, INC.  
DST #3, LKC "E&F", 4022-4055  
Start Test Date: 2013/05/01  
Final Test Date: 2013/05/01

SELENKE-HOCKERSMITH #1  
Formation: DST #3, LKC "E&F", 4022-4055  
Pool: WILDCAT  
Job Number: T200

# SELENKE-HOCKERSMITH #1





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

TIME ON: 09:10  
 TIME OFF: 16:44

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST3

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation LKC "E&F" Effective Pay -- Ft. Ticket No. T200  
 Date 5-1-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 3 Interval Tested from 4022 ft. to 4055 ft. Total Depth 4055 ft.  
 Packer Depth 4017 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4022 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4010 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4052 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          P.S.I.

Mud Type CHEMICAL Viscosity 53 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 6.4 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 1,500 P.P.M. Drill Pipe Length 3875 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number          Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 8 1/2 INCHES. (NO B.B.)  
 2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 42 1/2 MIN (NO B.B.)

Recovered 235 ft. of VSMCW, 97% WATER, 3% MUD  
 Recovered 60 ft. of MCW, 72% WATER, 28% MUD  
 Recovered 295 ft. of TOTAL FLUID

Recovered <u>        </u> ft. of <u>        </u>	<u>CHLORIDES: 81,000 ppm</u>	Price Job
Recovered <u>        </u> ft. of <u>        </u>	<u>PH: 7.5</u>	Other Charges
Remarks: <u>        </u>	<u>RW: .22 @ 65 deg.</u>	Insurance
<u>Tool Sample: 2% OIL, 78% WATER, 20% MUD</u>	<u>        </u>	Total

Time Set Packer(s) 11:22 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 2:22 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 126 deg.

Initial Hydrostatic Pressure..... (A) 1916 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 79 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 1211 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 82 P.S.I. to (F) 144 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1205 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1914 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

**Contact** JUSTIN CLEGG  
**Well Name** SELENKE-HOCKERSMITH #1  
**Unique Well ID** DST #4, LKC "H", 4101-4139  
**Surface Location** SEC 22-13S-31W, GOVE CO. KS.  
**Well License Number**  
**Field** WILDCAT  
**Well Type** Vertical

**Job Number** T201  
**Representative** TIM VENTERS  
**Well Operator** RITCHIE EXPLORATION, INC.  
**Report Date** 2013/05/02  
**Prepared By** TIM VENTERS

**Test Type** CONVENTIONAL  
**Formation** DST #4, LKC "H", 4101-4139  
**Well Fluid Type** 01 Oil  
**Start Test Date** 2013/05/02  
**Final Test Date** 2013/05/02

**Start Test Time** 03:21:00  
**Final Test Time** 10:51:00

**Gauge Name** 8457  
**Gauge Serial Number**

### Test Results

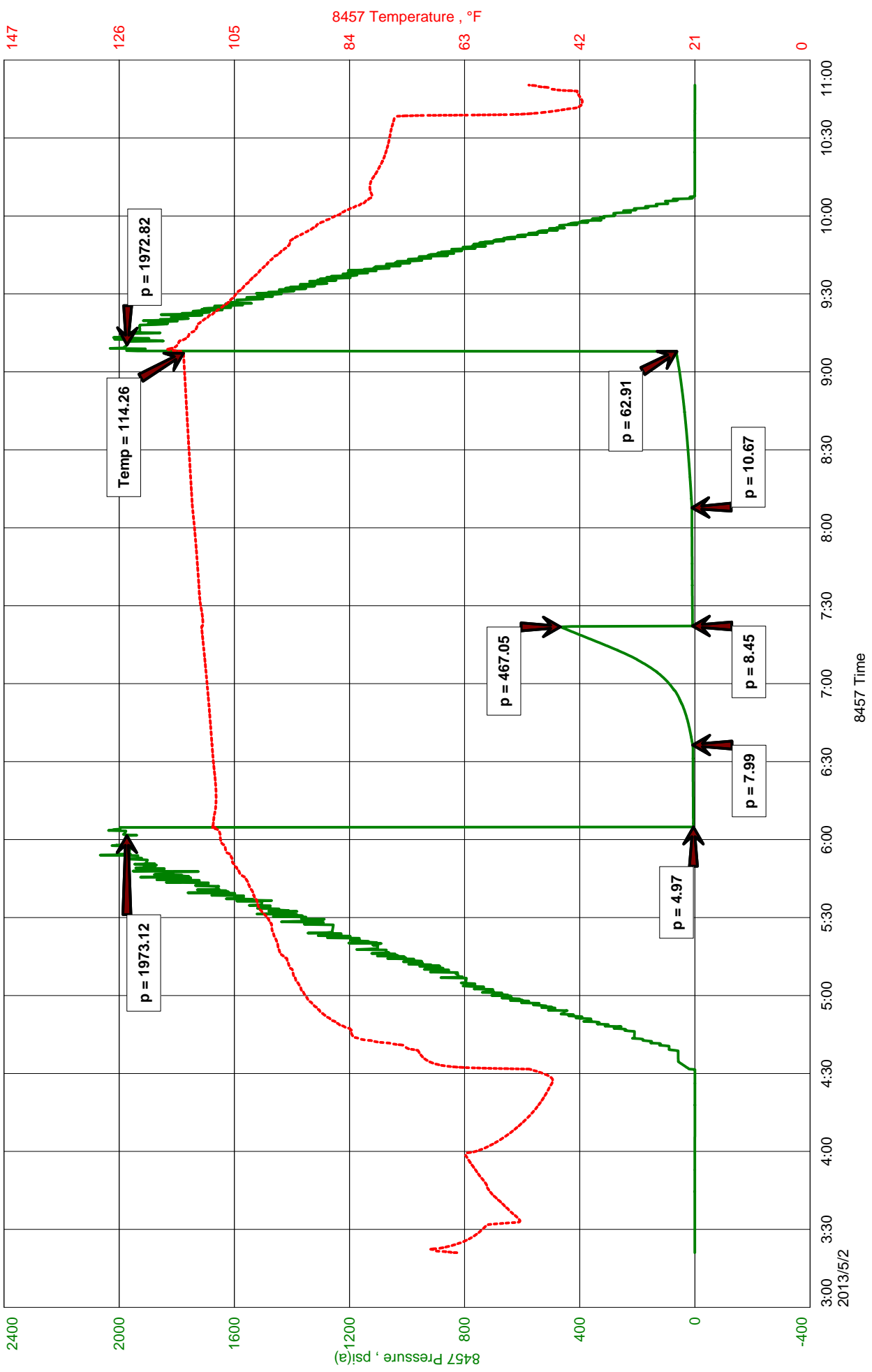
RECOVERED: 10' VSOCM, 1% OIL, 99% MUD

TOOL SAMPLE: 1% OIL, 99% MUD

RITCHIE EXPLORATION, INC.  
 DST #4, LKC "H", 4101-4139  
 Start Test Date: 2013/05/02  
 Final Test Date: 2013/05/02

SELENKE-HOCKERSMITH #1  
 Formation: DST #4, LKC "H", 4101-4139  
 Pool: WILDCAT  
 Job Number: T201

# SELENKE-HOCKERSMITH #1





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

TIME ON: 03:21  
 TIME OFF: 10:51

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST4

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation LKC "H" Effective Pay -- Ft. Ticket No. T201  
 Date 5-2-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 4 Interval Tested from 4101 ft. to 4139 ft. Total Depth 4139 ft.  
 Packer Depth 4096 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4101 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4089 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4136 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 47 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 6.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 2,200 P.P.M. Drill Pipe Length 3954 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 38 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/2 INCH. (NO B.B.)  
 2nd Open: VERY WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO B.B.)

Recovered 10 ft. of VSOCM, 1% OIL, 99% MUD  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: <u>1% OIL, 99% MUD</u>	Total

Time Set Packer(s) 6:04 AM A.M. P.M. Time Started Off Bottom 9:06 AM A.M. P.M. Maximum Temperature 114 deg.

Initial Hydrostatic Pressure..... (A) 1973 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 5 P.S.I. to (C) 8 P.S.I.  
 Initial Closed In Period..... Minutes 47 (D) 467 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 8 P.S.I. to (F) 11 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 63 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1973 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

**Contact** JUSTIN CLEGG  
**Well Name** SELENKE-HOCKERSMITH #1  
**Unique Well ID** DST #5, LKC "I", 4138-4168  
**Surface Location** SEC 22-13S-31W, GOVE CO. KS.  
**Well License Number**  
**Field** WILDCAT  
**Well Type** Vertical

**Job Number** T202  
**Representative** TIM VENTERS  
**Well Operator** RITCHIE EXPLORATION, INC.  
**Report Date** 2013/05/03  
**Prepared By** TIM VENTERS

**Test Type** CONVENTIONAL  
**Formation** DST #5, LKC "I", 4138-4168  
**Well Fluid Type** 01 Oil  
**Start Test Date** 2013/05/02  
**Final Test Date** 2013/05/02

**Start Test Time** 16:58:00  
**Final Test Time** 23:39:00

**Gauge Name**  
**Gauge Serial Number** 8457

### Test Results

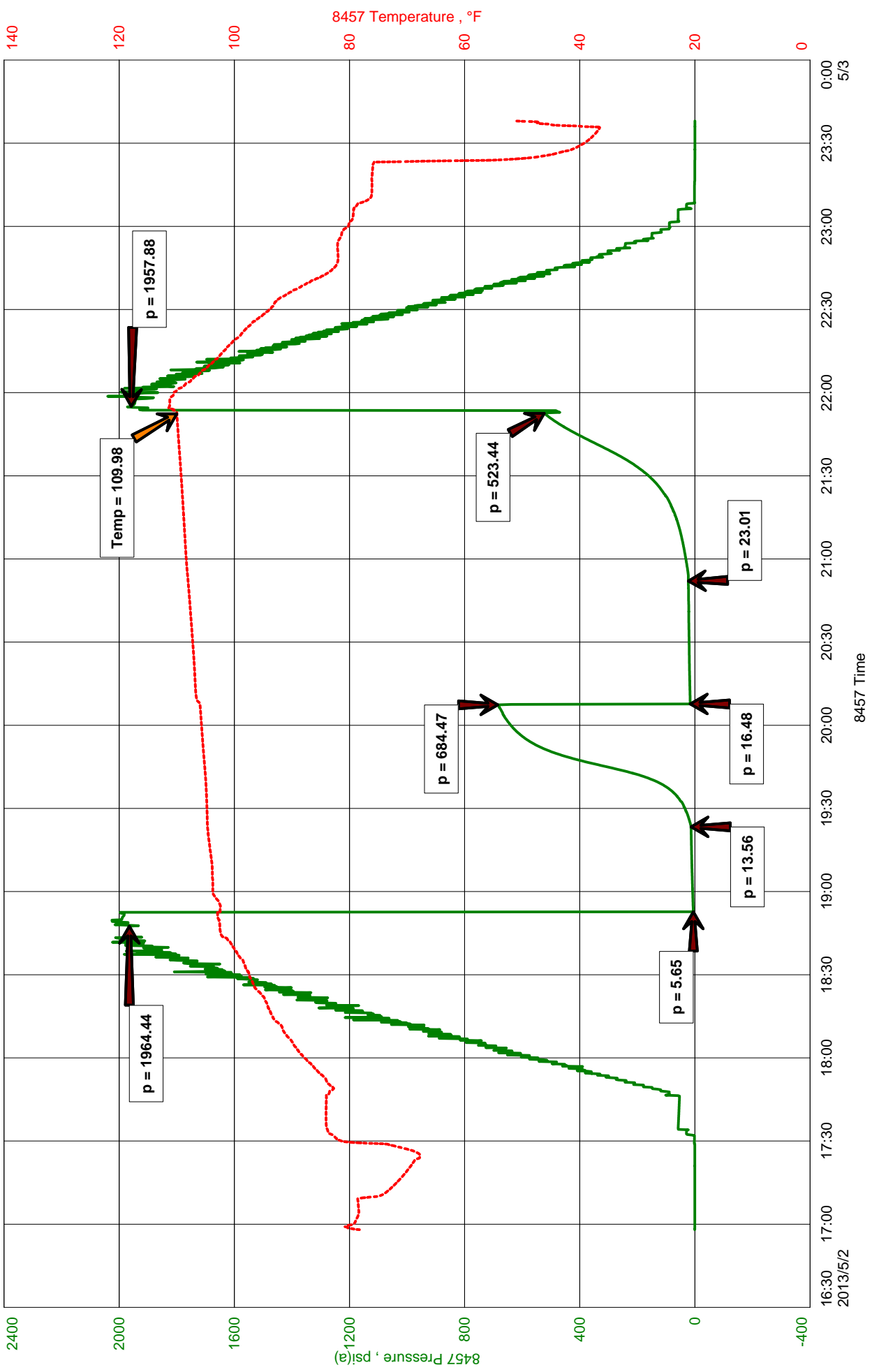
RECOVERED: OCM. 24% OIL, 76% MUD

TOOL SAMPLE: 11% OIL, 89% MUD

RITCHIE EXPLORATION, INC.  
 DST #5, LKC "I", 4138-4168  
 Start Test Date: 2013/05/02  
 Final Test Date: 2013/05/02

SELENKE-HOCKERSMITH #1  
 Formation: DST #5, LKC "I", 4138-4168  
 Pool: WILDCAT  
 Job Number: T202

# SELENKE-HOCKERSMITH #1





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

TIME ON: 16:58  
 TIME OFF: 23:39

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST5

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation LKC "I" Effective Pay -- Ft. Ticket No. T202  
 Date 5-2-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 5 Interval Tested from 4138 ft. to 4168 ft. Total Depth 4168 ft.  
 Packer Depth 4133 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4138 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4126 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4165 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          P.S.I.  
 Mud Type CHEMICAL Viscosity 47 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 6.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 2,200 P.P.M. Drill Pipe Length 3991 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number          Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 30 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO B.B.)  
 2nd Open: WEAK SURFACE BLOW, BUILDING TO 1/2 INCH. (NO B.B.)

Recovered 40 ft. of OCM, 24% OIL, 76% MUD  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks:          Price Job           
         Other Charges           
         Insurance           
         Total         

Tool Sample: 11% OIL, 89% MUD

Time Set Packer(s) 6:52 PM A.M. P.M. Time Started Off Bottom 9:52 PM A.M. P.M. Maximum Temperature 110 deg.  
 Initial Hydrostatic Pressure..... (A) 1964 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 14 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 684 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 16 P.S.I. to (F) 23 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 523 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1958 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

<b>Contact</b>	JUSTIN CLEGG	<b>Job Number</b>	T203
<b>Well Name</b>	SELENKE-HOCKERAMITH #1	<b>Representative</b>	TIM VENTERS
<b>Unique Well ID</b>	DST #6, LKC "J", 4158-4181	<b>Well Operator</b>	RITCHIE EXPLORATION, INC.
<b>Surface Location</b>	SEC 22-13S-31W, GOVE CO. KS.	<b>Report Date</b>	2013/05/03
<b>Well License Number</b>		<b>Prepared By</b>	TIM VENTERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #6, LKC "J", 4158-4181		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	07:04:00
		<b>Final Test Time</b>	13:32:00
<b>Start Test Date</b>	2013/05/03		
<b>Final Test Date</b>	2013/05/03		
<b>Gauge Name</b>	8457		
<b>Gauge Serial Number</b>			

### Test Results

RECOVERED: 220' MCW, 83% WATER, 17% MUD  
60' WCM, 31% WATER, 47% MUD  
280' TOTAL FLUID

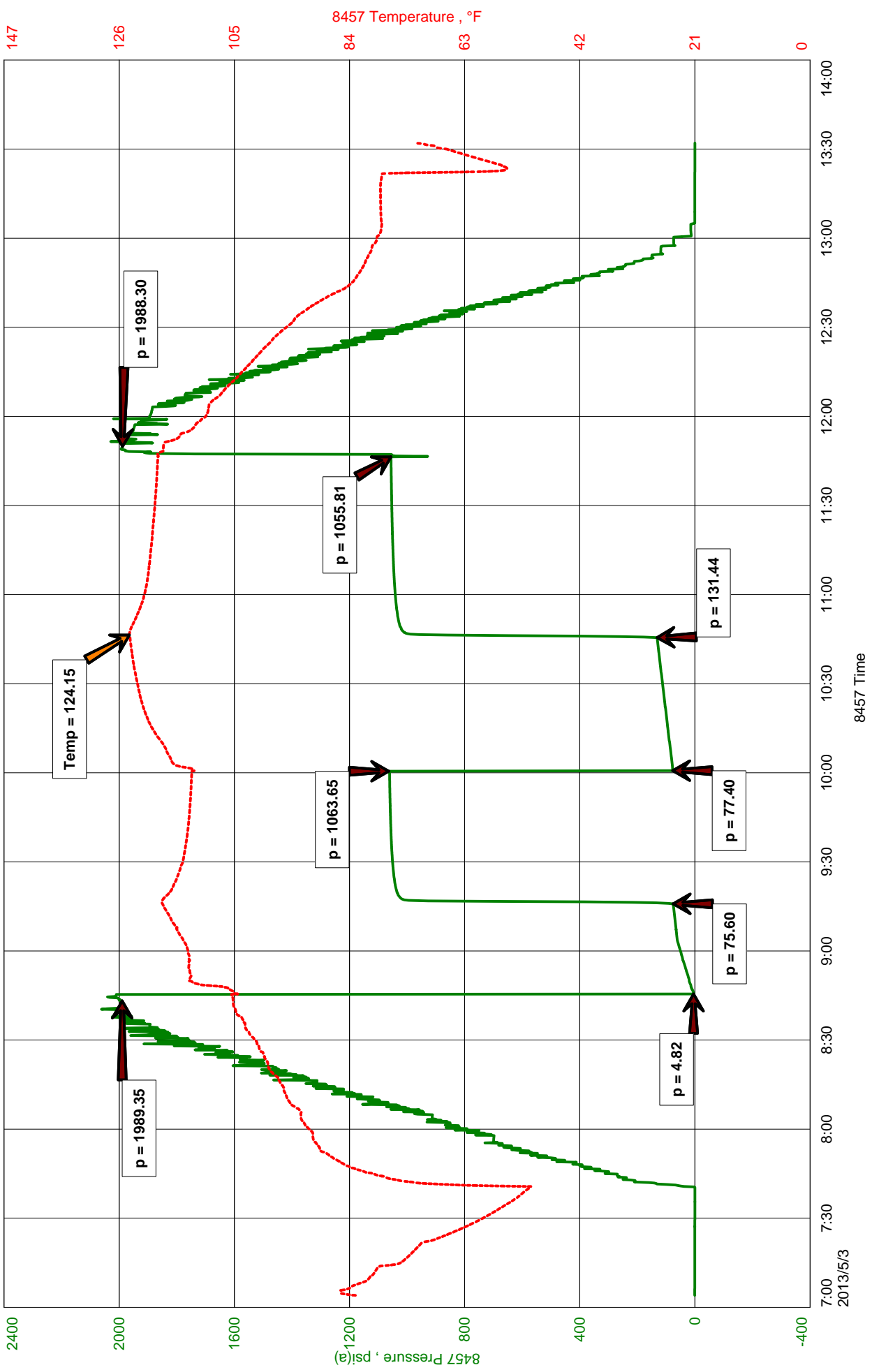
TOOL SAMPLE: TRACE OIL, 53% WATER, 47% MUD

CHLORIDES: 57,000 ppm  
PH: 8.5  
RW: .20 @ 66 deg.

RITCHIE EXPLORATION, INC.  
 DST #6, LKC "J", 4158-4181  
 Start Test Date: 2013/05/03  
 Final Test Date: 2013/05/03

SELENKE-HOCKERAMITH #1  
 Formation: DST #6, LKC "J", 4158-4181  
 Pool: WILDCAT  
 Job Number: T203

# SELENKE-HOCKERAMITH #1





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

TIME ON: 07:04

TIME OFF: 13:32

**DRILL-STEM TEST TICKET**

FILE: SELENKE-HOCKERSMITH1DST6

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation LKC "J" Effective Pay -- Ft. Ticket No. T203  
 Date 5-3-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 6 Interval Tested from 4158 ft. to 4181 ft. Total Depth 4181 ft.  
 Packer Depth 4153 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4158 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4151 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4178 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 121 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 6.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.

Chlorides 2,400 P.P.M. Drill Pipe Length 4011 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 23 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 8 INCHES. (NO B.B.)

2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 10 1/2 INCHES. (NO B.B.)

Recovered 220 ft. of MCW, 83% WATER, 17% MUD

Recovered 60 ft. of WCM, 31% WATER, 69% MUD

Recovered 280 ft. of TOTAL FLUID

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Price Job

Other Charges

Insurance

Tool Sample: TRACE OIL, 53% WATER, 47% MUD

Total

Time Set Packer(s) 8:45 AM A.M. P.M. Time Started Off Bottom 11:45 AM A.M. P.M. Maximum Temperature 124 deg.

Initial Hydrostatic Pressure..... (A) 1989 P.S.I.

Initial Flow Period..... Minutes 30 (B) 5 P.S.I. to (C) 76 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1064 P.S.I.

Final Flow Period..... Minutes 45 (E) 77 P.S.I. to (F) 131 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1056 P.S.I.

Final Hydrostatic Pressure..... (H) 1988 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

<b>Contact</b>	JUSTIN CLEGG	<b>Job Number</b>	T204
<b>Well Name</b>	SELENKE-HOCKERSMITH #1	<b>Representative</b>	TIM VENTERS
<b>Unique Well ID</b>	DST #7. LKC "K", 4190-4216	<b>Well Operator</b>	RITCHIE EXPLORATION, INC.
<b>Surface Location</b>	SEC 22-13S-31W, GOVE CO. KS.	<b>Report Date</b>	2013/05/04
<b>Well License Number</b>		<b>Prepared By</b>	TIM VENTERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #7, LKC "K", 4190-4216		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	20:19:00
		<b>Final Test Time</b>	03:33:00
<b>Start Test Date</b>	2013/05/03		
<b>Final Test Date</b>	2013/05/04		
<b>Gauge Name</b>	8457		
<b>Gauge Serial Number</b>			

### Test Results

RECOVERED: 1' CLEAN OIL, 100% OIL  
45' SO,WCM, 10% OIL, 60% WATER, 80% MUD  
125' MCWW/TR. O, TRACE OIL, 78% WATER, 22% MUD  
500' SMCW, 94% WATER, 6% MUD  
671' TOTAL FLUID

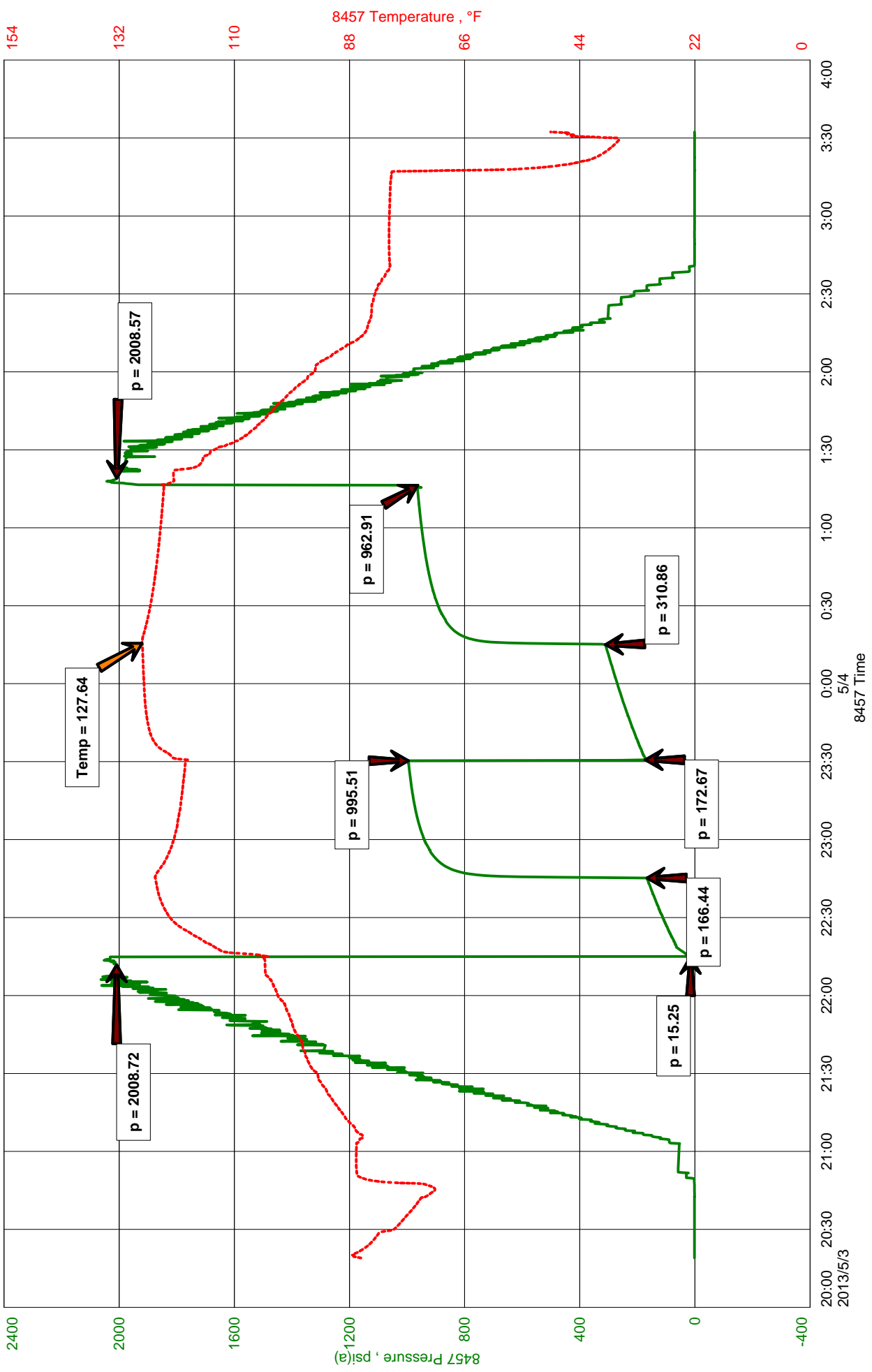
TOOL SAMPLE: 3% OIL, 81% WATER, 16% MUD

CHLORIDES: 75,000 ppm  
PH: 7.0  
RW: .17 @ 71 deg.

RITCHIE EXPLORATION, INC.  
 DST #7, LKC "K", 4190-4216  
 Start Test Date: 2013/05/03  
 Final Test Date: 2013/05/04

SELENKE-HOCKERSMITH #1  
 Formation: DST #7, LKC "K", 4190-4216  
 Pool: WILDCAT  
 Job Number: T204

# SELENKE-HOCKERSMITH #1





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

TIME ON: 2019 5-3-13

TIME OFF: 03:33 5-4-13

**DRILL-STEM TEST TICKET**

FILE: SELENKE-HOCKERSMITH1DST7

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
Elevation 2895 KB Formation LKC "K" Effective Pay -- Ft. Ticket No. T204  
Date 5-3-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 7 Interval Tested from 4190 ft. to 4216 ft. Total Depth 4216 ft.  
Packer Depth 4185 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
Packer Depth 4190 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4178 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4213 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      P.S.I.  
Mud Type CHEMICAL Viscosity 51 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 6.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
Chlorides 2,400 P.P.M. Drill Pipe Length 4043 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number      Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 26 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 10 MIN. (WS B.B.)  
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 14 1/2 MIN. (NO B.B.)

Recovered 1 ft. of CO, 100% OIL  
Recovered 45 ft. of SO,WCM, 10% OIL, 60% WATER, 80% MUD  
Recovered 125 ft. of MCWW/TR. O, TRACE OIL, 78% WATER, 22% MUD  
Recovered 500 ft. of SNCW, 94% WATER, 6% MUD

Recovered <u>671</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered <u>    </u> ft. of <u>CHLORIDES: 75,000 ppm</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
<u>RW: .17 @ 71 deg.</u>	

Tool Sample: 3% OIL, 81% WATER, 16% MUD Total

Time Set Packer(s) 10:14 PM A.M. P.M. Time Started Off Bottom 1:14 AM A.M. P.M. Maximum Temperature 128 deg.

Initial Hydrostatic Pressure..... (A) 2009 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 166 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 996 P.S.I.  
Final Flow Period..... Minutes 45 (E) 173 P.S.I. to (F) 311 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 963 P.S.I.  
Final Hydrostatic Pressure..... (H) 2009 P.S.I.

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# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

<b>Contact</b>	JUSTIN CLEGG	<b>Job Number</b>	T205
<b>Well Name</b>	SELENKE-HOCKERSMITH #1	<b>Representative</b>	TIM VENTERS
<b>Unique Well ID</b>	DST #8, MYRIC/FT. SCOTT, 4415-4457	<b>Well Operator</b>	RITCHIE EXPLORATION, INC.
<b>Surface Location</b>	SEC 22-13S-31W, GOVE CO. KS.	<b>Report Date</b>	2013/05/05
<b>Well License Number</b>		<b>Prepared By</b>	TIM VENTERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #8, MYRIC/FT. SCOTT, 4415-4457		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	01:04:00
		<b>Final Test Time</b>	08:27:00
<b>Start Test Date</b>	2013/05/05		
<b>Final Test Date</b>	2013/05/05		
<b>Gauge Name</b>	8457		
<b>Gauge Serial Number</b>			

### Test Results

RECOVERED; 5' CO, 100% OIL, GRAVITY; 31  
25' SOHMCW, 2% OIL, 54% WATER, 39% MUD  
185' MCW, 76% WATER, 24% MUD  
215' TOTAL FLUID

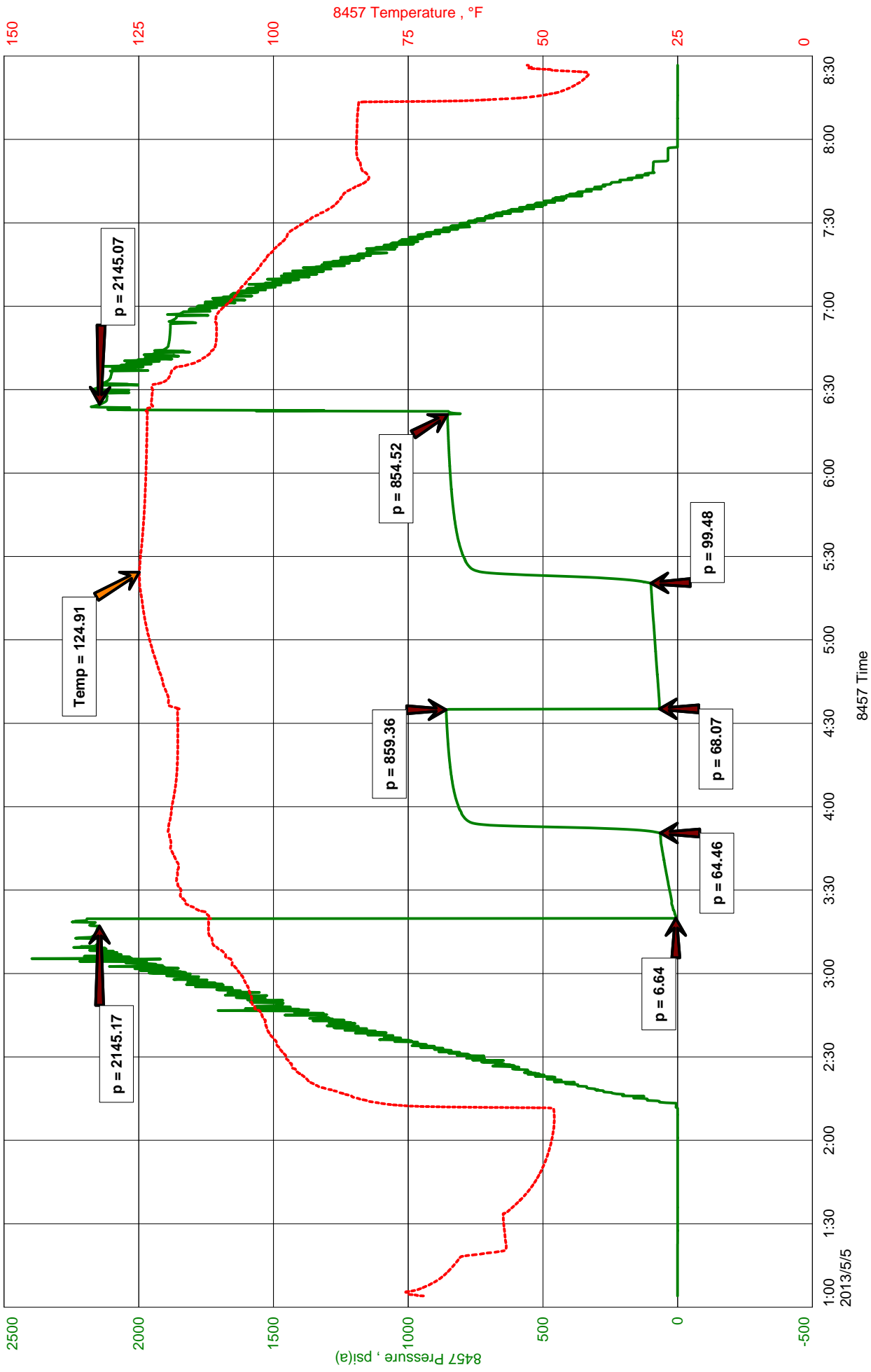
TOOL SAMPLE: 8% OIL, 59% WATER, 33% MUD

CHLORIDES: 70,000 ppm  
PH: 7.0  
RW: .14 @ 88 deg.

RITCHIE EXPLORATION, INC.  
DST #8, MYRIC/FT. SCOTT, 4415-4457  
Start Test Date: 2013/05/05  
Final Test Date: 2013/05/05

SELENKE-HOCKERSMITH #1  
Formation: DST #8, MYRIC/FT. SCOTT, 4415-4457  
Pool: WILDCAT  
Job Number: T205

# SELENKE-HOCKERSMITH #1





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

TIME ON: 01:04  
 TIME OFF: 08:27

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST8

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation MYRIC/FT. SCOTT Effective Pay -- Ft. Ticket No. T205  
 Date 5-5-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 8 Interval Tested from 4415 ft. to 4457 ft. Total Depth 4457 ft.  
 Packer Depth 4410 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4415 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4403 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4454 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 3,000 P.P.M. Drill Pipe Length 4268 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number          Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING, TO 5 1/4 INCHES. (NO B.B.)  
 2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 7 1/2 INCHES. (NO B.B.)

Recovered 5 ft. of CO, 100% OIL, GRAVITY: 31  
 Recovered 25 ft. of SOHMCW, 2% OIL, 54% WATER, 39% MUD  
 Recovered 185 ft. of MCW, 76% WATER, 24% MUD  
 Recovered 215 ft. of TOTAL FLUID

Recovered <u>        </u> ft. of <u>        </u>	Price Job
Recovered <u>        </u> ft. of <u>        </u>	Other Charges
Remarks: <u>        </u>	Insurance
<u>        </u>	
<u>        </u>	
Tool Sample: <u>8% OIL, 59% WATER, 33% MUD</u>	Total

Time Set Packer(s) 3:19 AM A.M. P.M. Time Started Off Bottom 6:19 AM A.M. P.M. Maximum Temperature 125 deg.

Initial Hydrostatic Pressure..... (A) 2145 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 64 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 859 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 68 P.S.I. to (F) 99 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 855 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2145 P.S.I.

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# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLORATION, INC.

**Contact** JUSTIN CLEGG  
**Well Name** SELENKE-HOCKERSMITH #1  
**Unique Well ID** DST #9, JOHNSON, 4476-4539  
**Surface Location** SEC 22-13S-31W, GOVE CO. KS.  
**Well License Number**  
**Field** WILDCAT  
**Well Type** Vertical

**Job Number** T206  
**Representative** TIM VENTERS  
**Well Operator** RITCHIE EXPLORATION, INC.  
**Report Date** 2013/05/06  
**Prepared By** TIM VENTERS

**Test Type** CONVENTIONAL  
**Formation** DST #9, JOHNSON, 4476-4539  
**Well Fluid Type** 01 Oil  
**Start Test Date** 2013/05/05  
**Final Test Date** 2013/05/06

**Start Test Time** 16:56:00  
**Final Test Time** 00:14:00

**Gauge Name** 8457  
**Gauge Serial Number**

### Test Results

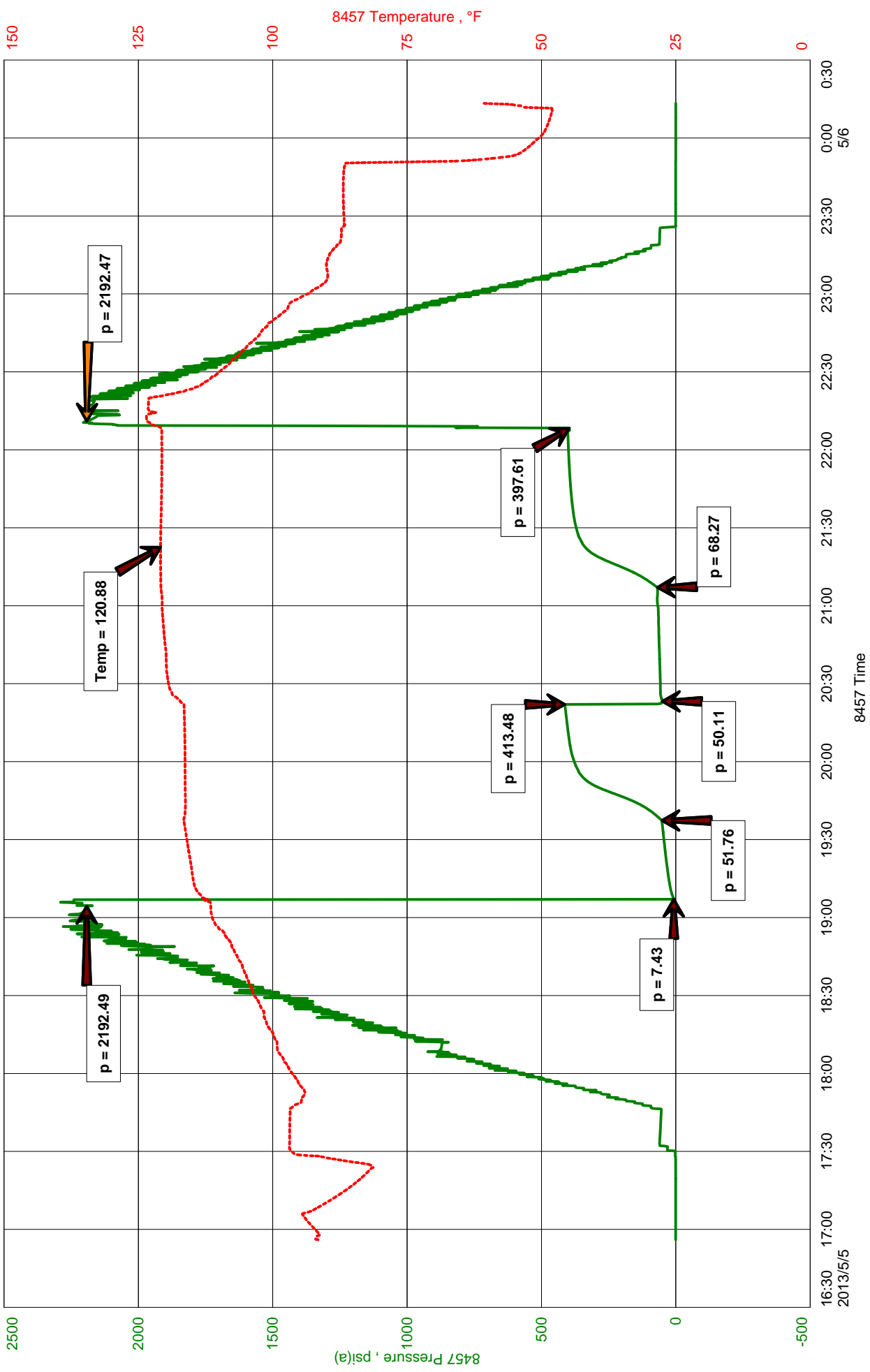
**RECOVERED: 275' GAS IN PIPE**  
**160' G,VHMCO, 7% GAS, 47% OIL, 46% MUD**

**TOOL SAMPLE: 8% GAS, 52% OIL, 40% MUD**

RITCHIE EXPLORATION, INC.  
DST #9, JOHNSON, 4476-4539  
Start Test Date: 2013/05/05  
Final Test Date: 2013/05/06

SELENKE-HOCKERSMITH #1  
Formation: DST #9, JOHNSON, 4476-4539  
Pool: WILDCAT  
Job Number: T206

# SELENKE-HOCKERSMITH #1





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

TIME ON: 16:56 5-5 13  
 TIME OFF: 00:14 5-6-13

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST9

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation JOHNSON Effective Pay -- Ft. Ticket No. T206  
 Date 5-5-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 9 Interval Tested from 4476 ft. to 4539 ft. Total Depth 4539 ft.  
 Packer Depth 4471 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4476 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4464 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4536 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Mud Type CHEMICAL Viscosity 52 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 8.0 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 2,800 P.P.M. Drill Pipe Length 4329 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 10 1/2 INCHES. (NO B.B.)  
 2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 30 1/2 MIN.(NO B.B.)

Recovered 275 ft. of GAS IN PIPE  
 Recovered 160 ft. of G,VHMCO, 7% GAS, 47% OIL, 46% MUD  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: <u>8% GAS, 52% OIL, 40% MUD</u>	Total

Time Set Packer(s) 7:06 PM A.M. P.M. Time Started Off Bottom 10:06 PM A.M. P.M. Maximum Temperature 121 deg.  
 Initial Hydrostatic Pressure..... (A) 2192 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 52 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 413 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 50 P.S.I. to (F) 68 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 398 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2192 P.S.I.

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# Diamond Testing

## General information Report

### General Information

**Company Name** RITCHIE EXPLOATION, INC.

**Contact** JUSTIN CLEGG  
**Well Name** SELENKE-HOCKERSMITH #1  
**Unique Well ID** DST#10, MORROW, 4576-4628  
**Surface Location** SEC. 22-13S-31W, GOVE CO. KS.  
**Well License Number**  
**Field** WILDCAT  
**Well Type** Vertical

**Job Number** T207  
**Representative** TIM VENTERS  
**Well Operator** RITCHIE EXPLORATION, INC.  
**Report Date** 2013/05/06  
**Prepared By** TIM VENTERS

**Test Type** CONVENTIONAL  
**Formation** DST #10, MORROW, 4576-4628  
**Well Fluid Type** 01 Oil  
**Start Test Date** 2013/05/06  
**Final Test Date** 2013/05/06

**Start Test Time** 13:39:00  
**Final Test Time** 21:04:00

**Gauge Name** 8457  
**Gauge Serial Number**

### Test Results

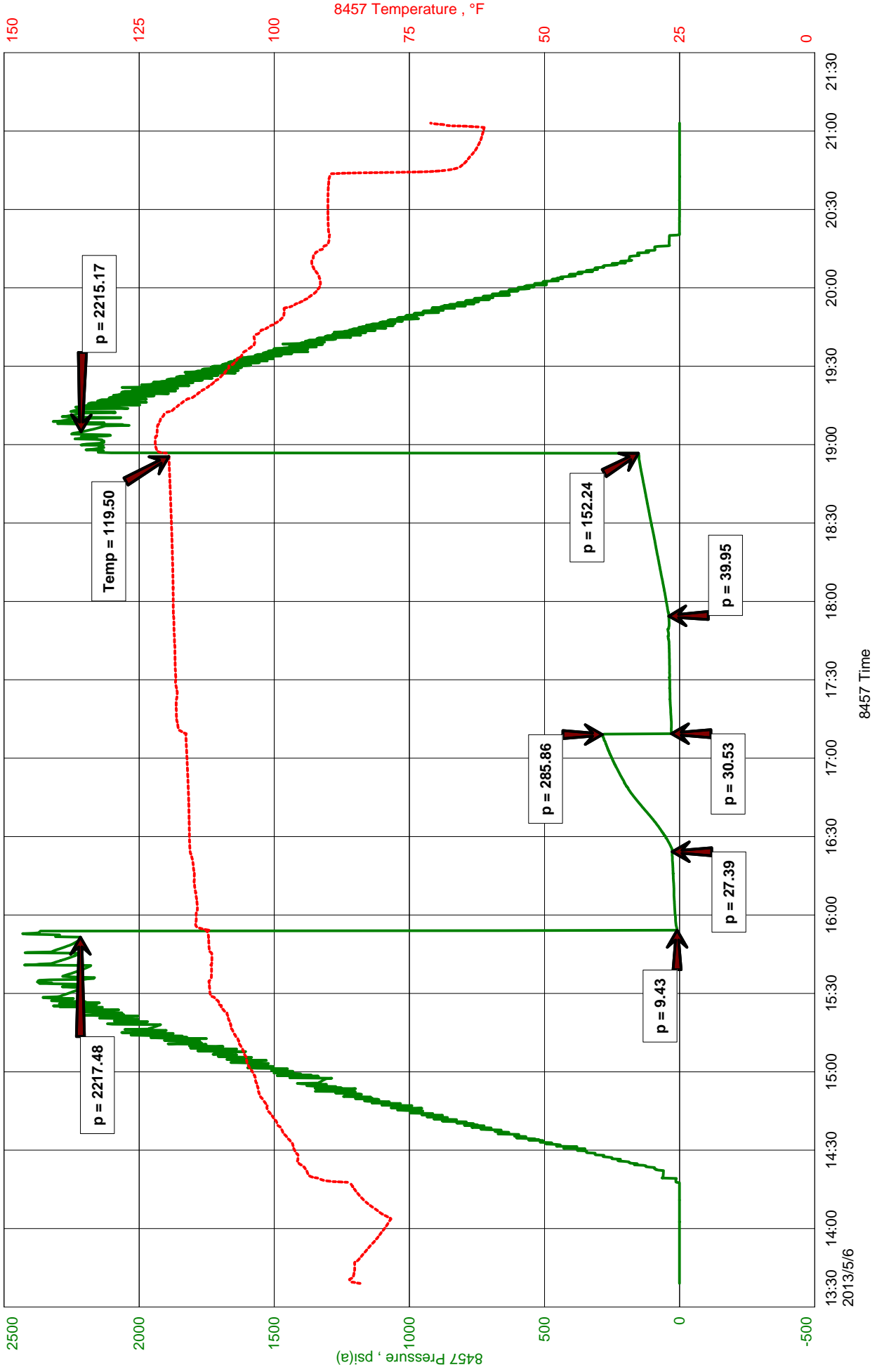
RECOVERED: 65' SOCM, 5% OIL, 95% MUD

TOOL SAMPLE: 25% OIL, 75% MUD

RITCHIE EXPLOATION, INC.  
DST#10, MORROW, 4576-4628  
Start Test Date: 2013/05/06  
Final Test Date: 2013/05/06

SELENKE-HOCKERSMITH #1  
Formation: DST #10, MORROW, 4576-4628  
Pool: WILDCAT  
Job Number: T207

# SELENKE-HOCKERSMITH #1





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

TIME ON: 13:39  
 TIME OFF: 21:04

**DRILL-STEM TEST TICKET**  
 FILE: SELENKE-HOCKERSMITH1DST10

Company RITCHIE EXPLORATION, INC. Lease & Well No. SELENKE-HOCKERSMITH #1  
 Contractor WW DRILLING, LLC RIG #6 Charge to RITCHIE EXPLORATION, INC.  
 Elevation 2895 KB Formation MORROW Effective Pay - Ft. Ticket No. T207  
 Date 5-6-13 Sec. 22 Twp. 13 S Range 31 W County GOVE State KANSAS  
 Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 10 Interval Tested from 4576 ft. to 4628 ft. Total Depth 4628 ft.  
 Packer Depth 4571 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.  
 Packer Depth 4576 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

**Depth of Selective Zone Set**

Top Recorder Depth (Inside) 4564 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) 4625 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.4 Water Loss 10.4 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in.  
 Chlorides 3,400 P.P.M. Drill Pipe Length 4422 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 1/2 INCHES. (NO B.B.)  
 2nd Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO B.B.)

Recovered 65 ft. of SOCM, 5% OIL, 95% MUD  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Recovered <u>        </u> ft. of <u>        </u>	Price Job
Recovered <u>        </u> ft. of <u>        </u>	Other Charges
Remarks: <u>        </u>	Insurance
Tool Sample: <u>25% OIL, 75% MUD</u>	Total

Time Set Packer(s) 3:53 PM A.M. P.M. Time Started Off Bottom 6:53 PM A.M. P.M. Maximum Temperature 120 deg.

Initial Hydrostatic Pressure..... (A) 2217 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 27 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 286 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 31 P.S.I. to (F) 40 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 152 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2215 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.