

DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #1, TOR.-LKC "A", 3777-3836
Surface Location SEC 7-16S-29W
Field ROEMER NORTHEAST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, TOR.-LKC "A", 3777-3836
Well Fluid Type 01 Oil

Start Test Date 2013/07/14
Final Test Date 2013/07/14

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/14
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 15:28:00
Final Test Time 21:12:00

Test Recovery:

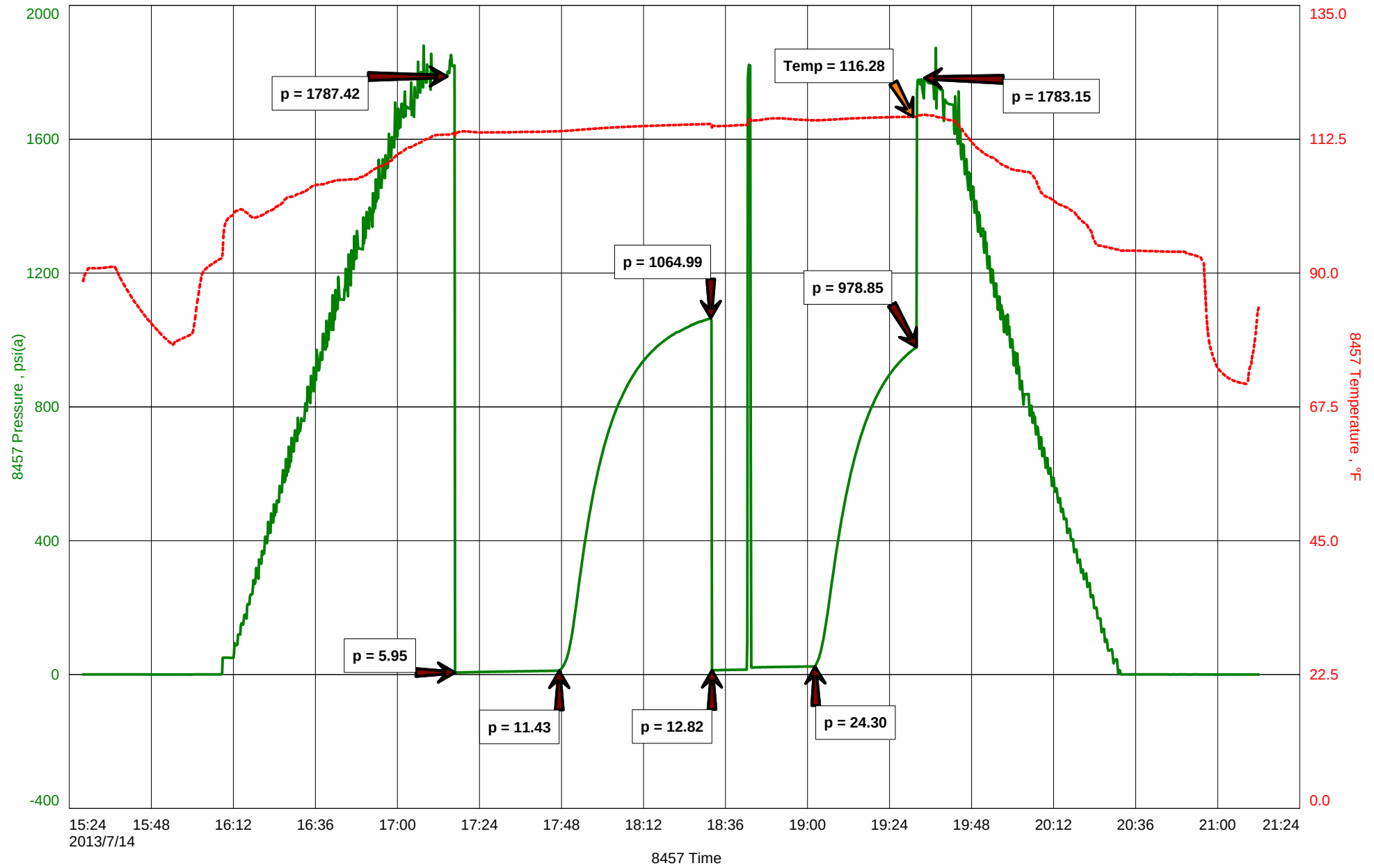
RECOVERED: 10' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #1, TOR.-LKC "A", 3777-3836
Start Test Date: 2013/07/14
Final Test Date: 2013/07/14

ROEMER UNIT #1
Formation: DST #1, TOR.-LKC "A", 3777-3836
Pool: ROEMER NORTHEAST
Job Number: T236

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST1

TIME ON: 15:28
TIME OFF: 21:12

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation TORONTO-LKC "A" Effective Pay _____ Ft. Ticket No. T236
Date 7-14-13 Sec. 7 Twp. _____ 16 S Range _____ 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3777 ft. to 3836 ft. Total Depth 3836 ft.

Packer Depth 3772 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3777 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3758 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 3833 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 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,200 P.P.M. Drill Pipe Length 3624 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 27 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)

2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 10 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 10 MIN. INTO PERIOD AND JUST GOT THE SURGE BLOW.

TOOL SAMPLE: 100% MUD

Time Set Packer(s) 5:16 PM A.M. P.M. Time Started Off Bottom 7:31 PM A.M. P.M. Maximum Temperature 116 deg.

Initial Hydrostatic Pressure..... (A) 1787 P.S.I.

Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1065 P.S.I.

Final Flow Period..... Minutes 30 (E) 13 P.S.I. to (F) 24 P.S.I.

Final Closed In Period..... Minutes 30 (G) 979 P.S.I.

Final Hydrostatic Pressure..... (H) 1783 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #2, LANSING "C-D", 3836-3880
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, LANSING "C-D", 3836-3880
Well Fluid Type 01 Oil

Start Test Date 2013/07/15
Final Test Date 2013/07/15

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/15
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 06:15:00
Final Test Time 12:55:00

Test Recovery:

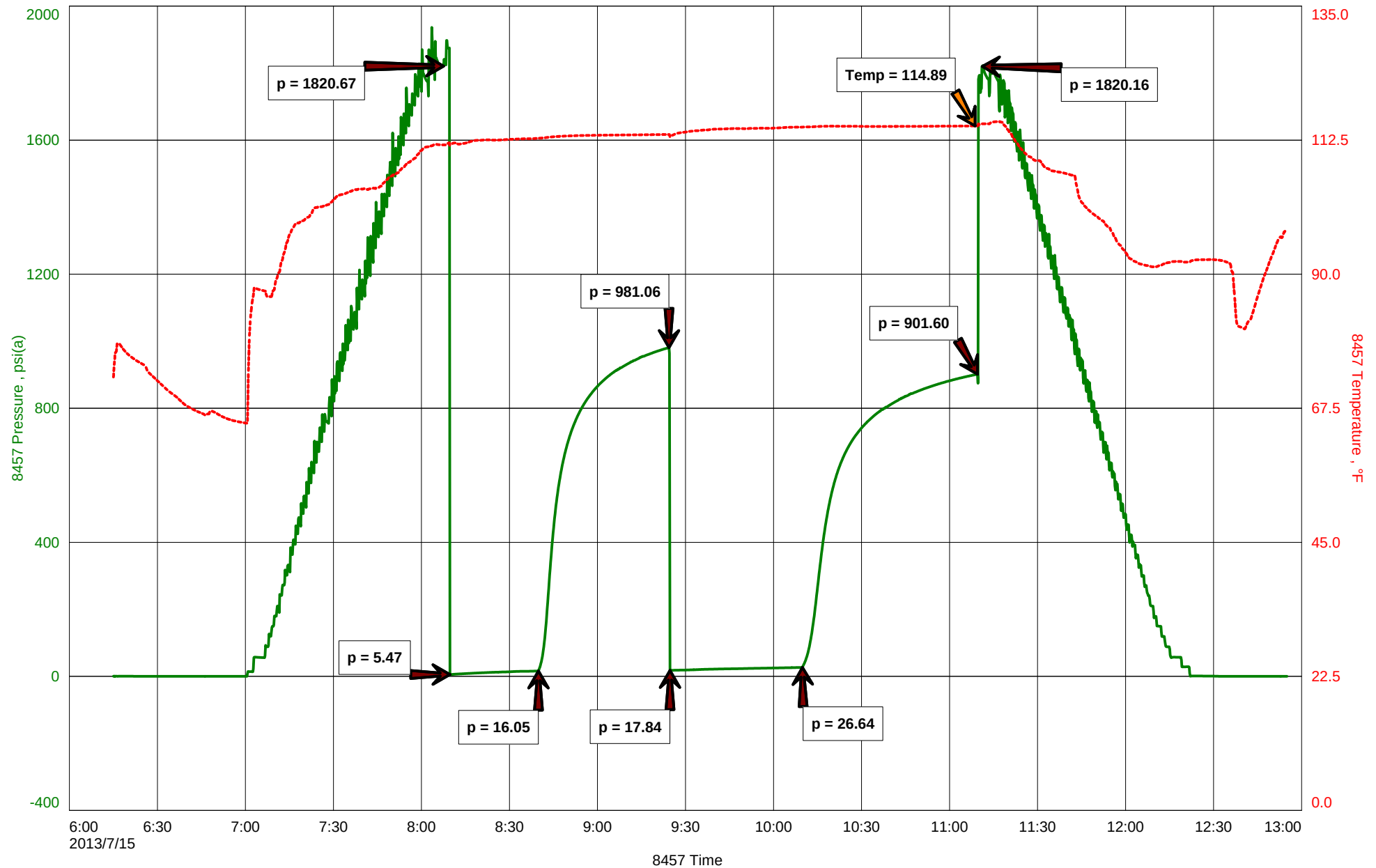
RECOVERED: 30' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #2, LANSING "C-D", 3836-3880
Start Test Date: 2013/07/15
Final Test Date: 2013/07/15

ROEMER UNIT #1
Formation: DST #2, LANSING "C-D", 3836-3880
Pool: ROEMER NORTHEAST
Job Number: T237

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST2

TIME ON: 06:15
TIME OFF: 12:55

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation LANSING "C-D" Effective Pay _____ Ft. Ticket No. T237
Date 7-15-13 Sec. 7 Twp. 16 S Range 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3836 ft. to 3880 ft. Total Depth 3880 ft.

Packer Depth 3831 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3836 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3817 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 3877 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 50 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,000 P.P.M. Drill Pipe Length 3683 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 44 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 BB)

2nd Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 30 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 100% MUD

Time Set Packer(s) 8:09 AM A.M. P.M. Time Started Off Bottom 11:09 AM A.M. P.M. Maximum Temperature 115 deg.

Initial Hydrostatic Pressure..... (A) 1821 P.S.I.

Initial Flow Period..... Minutes 30 (B) 5 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 981 P.S.I.

Final Flow Period..... Minutes 45 (E) 18 P.S.I. to (F) 27 P.S.I.

Final Closed In Period..... Minutes 60 (G) 902 P.S.I.

Final Hydrostatic Pressure..... (H) 1820 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #3, LANSING "E-F", 3880-3928
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "E-F", 3880-3928
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION
Report Date 2013/07/16
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2013/07/16
Final Test Date 2013/07/16

Start Test Time 02:00:00
Final Test Time 08:10:00

Test Recovery:

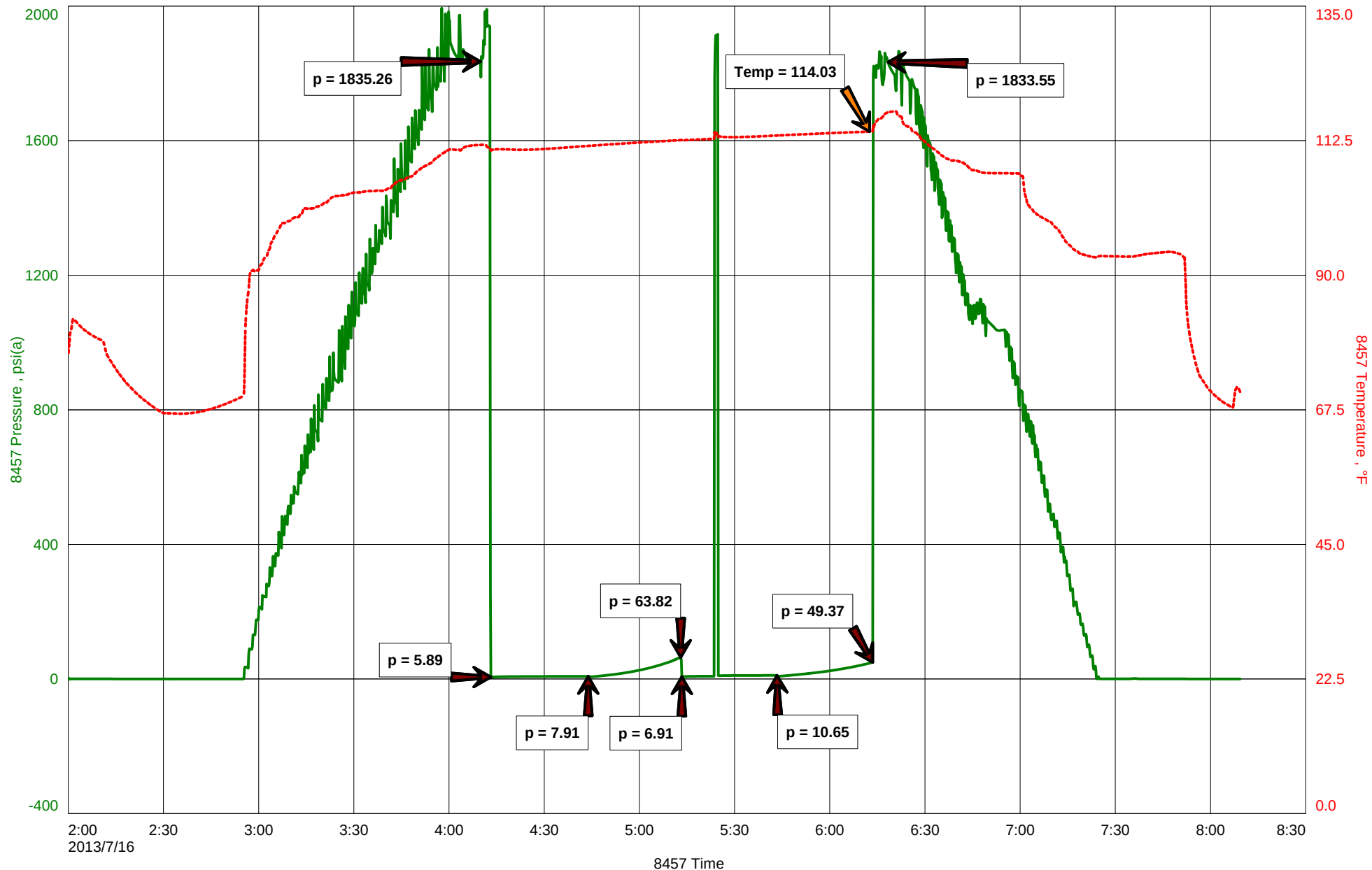
RECOVERED: 5' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #3, LANSING "E-F", 3880-3928
Start Test Date: 2013/07/16
Final Test Date: 2013/07/16

ROEMER UNIT #1
Formation: DST #3, LANSING "E-F", 3880-3928
Pool: ROEMER NORTHEAST
Job Number: T238

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST3

TIME ON: 02:00
TIME OFF: 08:10

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation LANSING "E-F" Effective Pay _____ Ft. Ticket No. T238
Date 7-16-13 Sec. 7 Twp. 16 S Range 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 3880 ft. to 3928 ft. Total Depth 3928 ft.

Packer Depth 3875 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3880 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3861 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 3925 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 50 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,000 P.P.M. Drill Pipe Length 3727 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 17 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)

2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 5 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD AND JUST GOT SURGE BLOW.

TOOL SAMPLE: 100% MUD

Time Set Packer(s) 4:12 AM A.M. P.M. Time Started Off Bottom 6:12 AM A.M. P.M. Maximum Temperature 114 deg.

Initial Hydrostatic Pressure..... (A) 1835 P.S.I.

Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 8 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 64 P.S.I.

Final Flow Period..... Minutes 30 (E) 7 P.S.I. to (F) 11 P.S.I.

Final Closed In Period..... Minutes 30 (G) 49 P.S.I.

Final Hydrostatic Pressure..... (H) 1834 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #4, SWOPE, 4049-4100
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, SWOPE, 4049-4100
Well Fluid Type 01 Oil

Start Test Date 2013/07/17
Final Test Date 2013/07/18

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/18
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 19:49:00
Final Test Time 02:52:00

Test Recovery:

RECOVERED: 1' CLEAN OIL
115' SOHWCM, 6% OIL, 35% WATER, 59% MUD
120' SO,MCW, 4% OIL, 72% WATER, 24% MUD
236' TOTAL FLUID

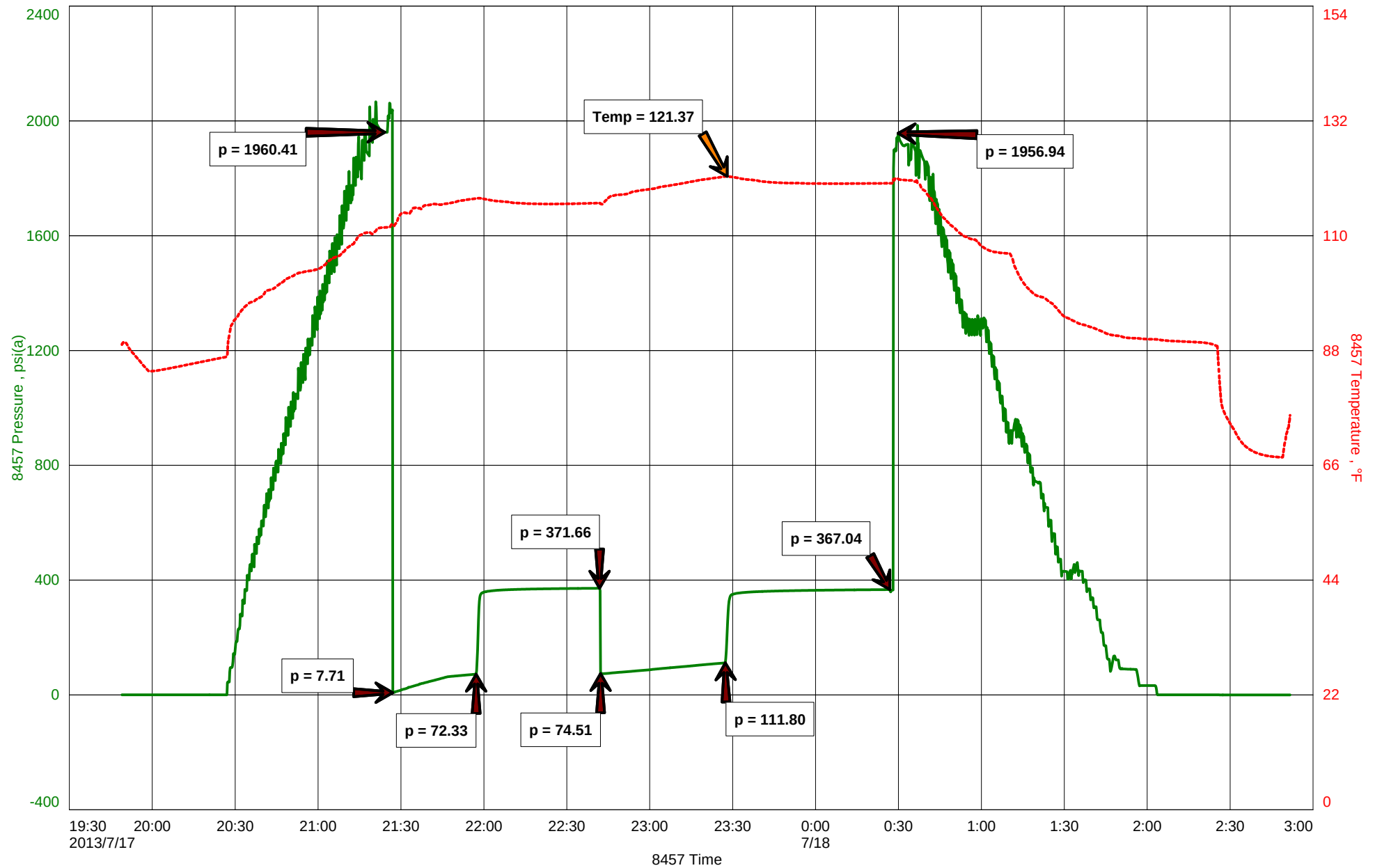
TOOL SAMPLE: 8% OIL, 29% WATER, 63% MUD

CHLORIDES: 53,000 ppm
PH: 8.0
RW: .22 @ 75 deg.

RITCHIE EXPLORATION, INC.
DST #4, SWOPE, 4049-4100
Start Test Date: 2013/07/17
Final Test Date: 2013/07/18

ROEMER UNIT #1
Formation: DST #4, SWOPE, 4049-4100
Pool: ROMER NORTHEAST
Job Number: T239

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST4

TIME ON: 19:49 7-17-13
TIME OFF: 02:52 7-18-13

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation SWOPE Effective Pay Ft. Ticket No. T239
Date 7-17-13 Sec. 7 Twp. 16 S Range 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4049 ft. to 4100 ft. Total Depth 4100 ft.

Packer Depth 4044 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 4049 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4030 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4097 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 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3,200 P.P.M. Drill Pipe Length 3896 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. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 6 1/2 INCHES. (NO BB)

2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 7 1/2 INCHES. (NO BB)

Recovered 1 ft. of CLEAN OIL

Recovered 115 ft. of SOHWCM, 6% OIL, 35% WATER, 59% MUD

Recovered 120 ft. of SO,MCW, 4% OIL, 72% WATER, 24% MUD

Recovered 236 ft. of TOTAL FLUID

Recovered ft. of CHLORIDES: 53,000 ppm Price Job

Recovered ft. of PH: 8.0 Other Charges

Remarks: RW: .22 @ 75 deg. Insurance

TOOL SAMPLE: 8% OIL, 29% WATER, 63% MUD Total

Time Set Packer(s) 9:26 PM ^{A.M.}_{P.M.} Time Started Off Bottom 12:26 AM ^{A.M.}_{P.M.} Maximum Temperature 121 deg.

Initial Hydrostatic Pressure..... (A) 1960 P.S.I.

Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 72 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 372 P.S.I.

Final Flow Period..... Minutes 45 (E) 75 P.S.I. to (F) 112 P.S.I.

Final Closed In Period..... Minutes 60 (G) 367 P.S.I.

Final Hydrostatic Pressure..... (H) 1957 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #5, ALTAMONT, 4219-4250
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #5, ALTAMONT, 4219-4250
Well Fluid Type 01 Oil

Start Test Date 2013/07/19
Final Test Date 2013/07/19

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/19
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 01:11:00
Final Test Time 07:32:00

Test Recovery:

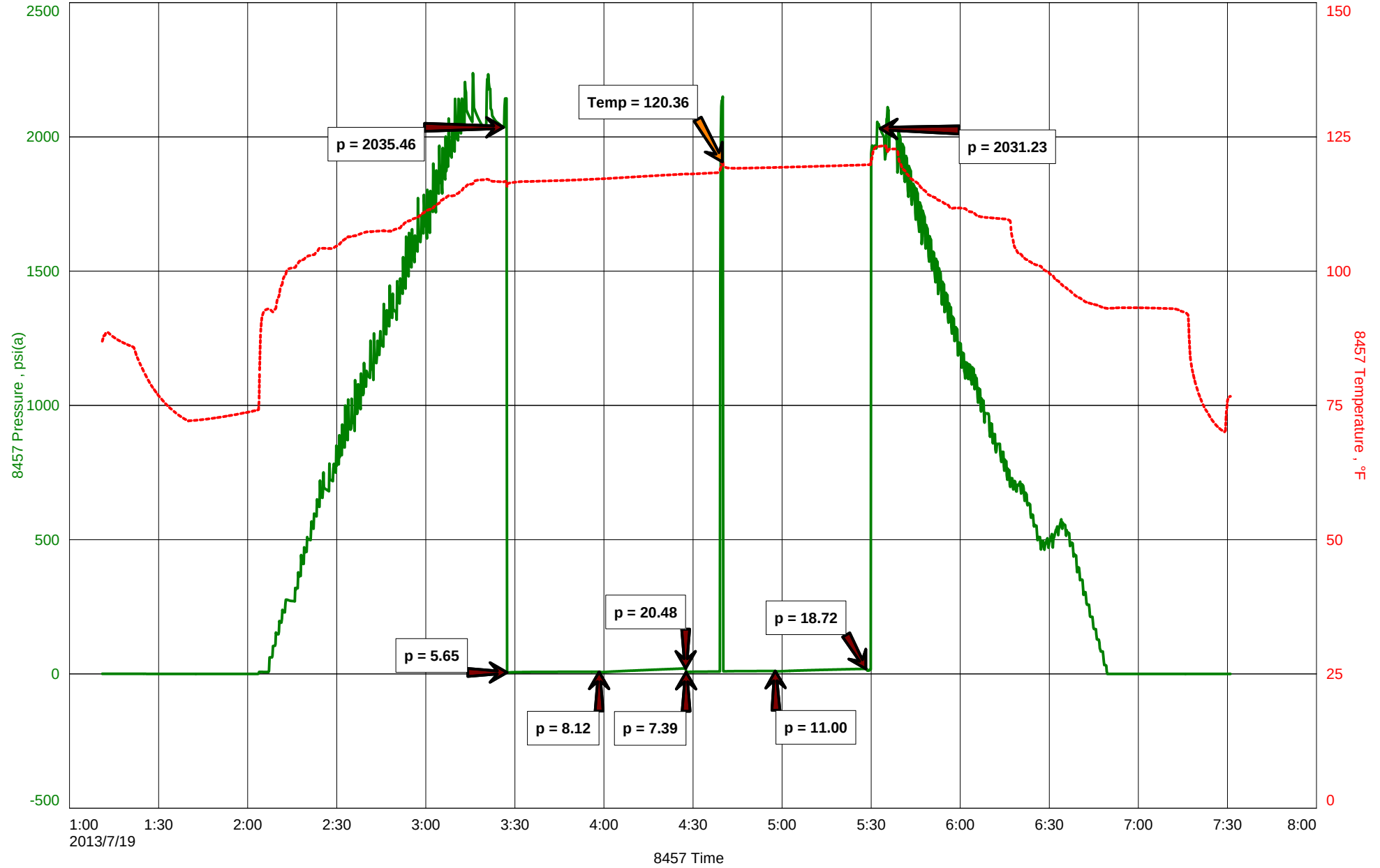
RECOVERED: 5' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #5, ALTAMONT, 4219-4250
Start Test Date: 2013/07/19
Final Test Date: 2013/07/19

ROEMER UNIT #1
Formation: DST #5, ALTAMONT, 4219-4250
Pool: ROEMER NORTHEAST
Job Number: T240

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST5

TIME ON: 01:11
TIME OFF: 07:32

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation ALTAMONT Effective Pay _____ Ft. Ticket No. T240
Date 7-19-13 Sec. 7 Twp. 16 S Range 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 4219 ft. to 4250 ft. Total Depth 4250 ft.

Packer Depth 4214 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4219 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4200 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4247 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 54 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3,300 P.P.M. Drill Pipe Length 4066 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 31 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 THROUGHOUT PERIOD. (NO BB)

2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 5 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD & JUST GOT SURGE BLOW.

TOOL SAMPLE: 100% MUD

Time Set Packer(s) 3:27 AM A.M. P.M. Time Started Off Bottom 5:27 AM A.M. P.M. Maximum Temperature 120 deg.

Initial Hydrostatic Pressure..... (A) 2035 P.S.I.

Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 8 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 20 P.S.I.

Final Flow Period..... Minutes 30 (E) 7 P.S.I. to (F) 11 P.S.I.

Final Closed In Period..... Minutes 30 (G) 19 P.S.I.

Final Hydrostatic Pressure..... (H) 2031 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name ROEMER UNIT #1
Unique Well ID DST #6, ALT. "A-B", 4207-4242
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type STRADDLE
Formation DST #6, ALT. "A-B", 4207-4242
Well Fluid Type 01 Oil

Start Test Date 2013/07/20
Final Test Date 2013/07/21

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/21
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Time 23:22:00
Final Test Time 05:26:00

Test Recovery:

PACKER FAILURE

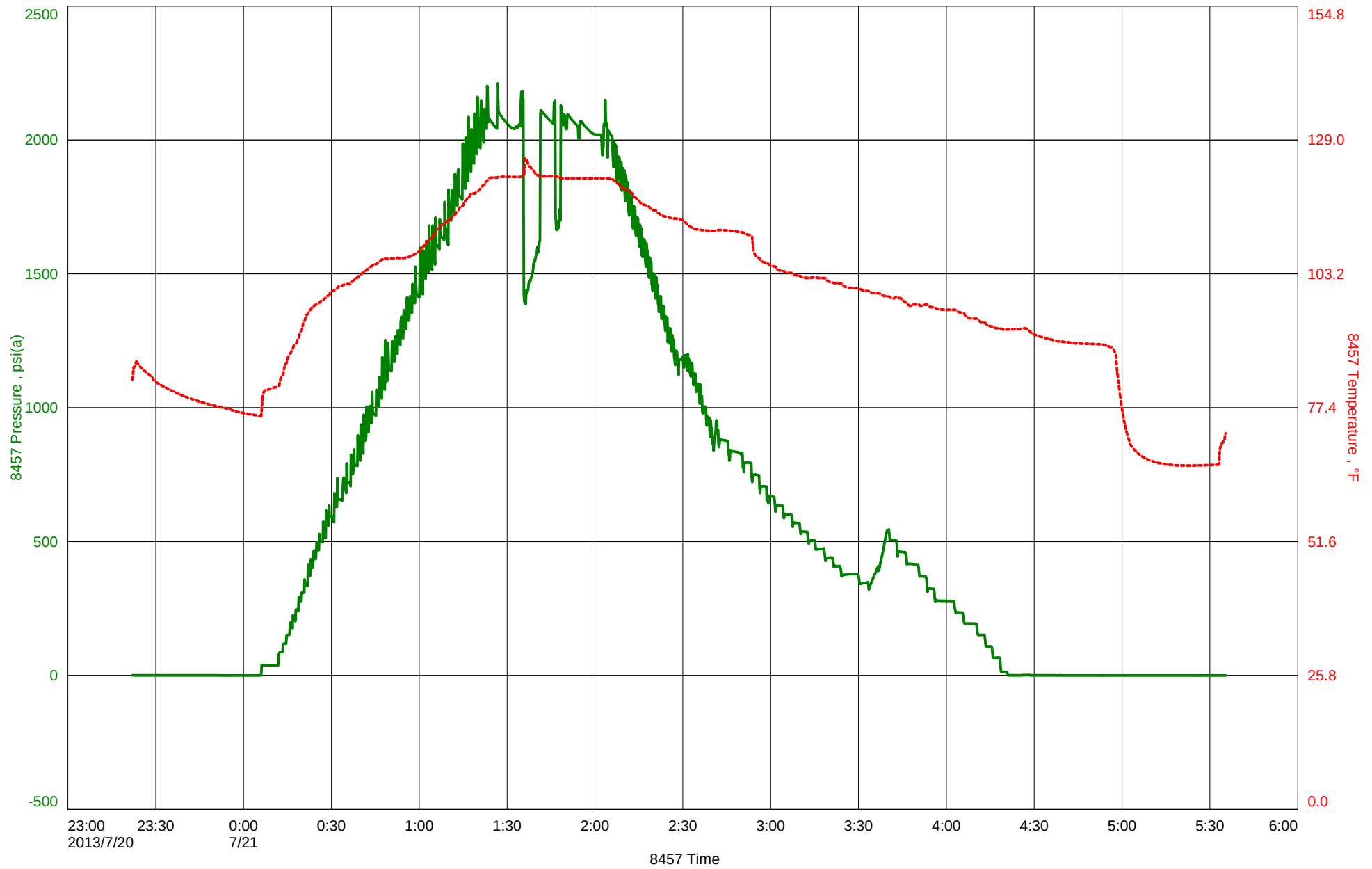
RECOVERED: 2080' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #6, ALT. "A-B", 4207-4242
Start Test Date: 2013/07/20
Final Test Date: 2013/07/21

ROEMER UNIT #1
Formation: DST #6, ALT. "A-B", 4207-4242
Pool: ROEMER NORTHEAST
Job Number: T241

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST6

TIME ON: 23:22 7-20-13
TIME OFF: 05:36 7-21-13

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation ALTAMONT "A-B" Effective Pay _____ Ft. Ticket No. T241
Date 7-21-13 Sec. 7 Twp. 16 S Range 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 4207 ft. to 4242 ft. Total Depth 4532 ft.

Packer Depth 4202 ft. Size 6 3/4 in. Packer depth 4242 ft. Size 6 3/4 in.

Packer Depth 4207 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4188 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4239 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth 4529 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3,500 P.P.M. Drill Pipe Length 4054 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 YES Anchor Length 35 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: PACKER FAILURE

2nd Open: _____

Recovered 2080 ft. of MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 100% MUD

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____

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

Initial Flow Period..... Minutes (B) _____ P.S.I. to (C) _____ P.S.I.

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

Final Flow Period..... Minutes (E) _____ P.S.I. to (F) _____ P.S.I.

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

Final Hydrostatic Pressure..... (H) _____ 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 ROEMER UNIT #1
Unique Well ID DST #7, LKC"L"-ALT."C", 4100-4240
Surface Location SEC 7-16S-29W, LANE CO. KS.
Field ROEMER NORTHEAST
Well Type Vertical
Test Type STRADDLE
Formation DST #7, LKC"L"-ALT."C", 4100-4240
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2013/07/21
Prepared By TIM VENTERS
Qualified By DAVE WILLIAMS

Start Test Date 2013/07/21
Final Test Date 2013/07/21

Start Test Time 07:04:00
Final Test Time 15:06:00

Test Recovery:

RECOVERED: 285' GAS IN PIPE
140' CO, 100% OIL, GRAVITY: 23
20' G,SW&MCO, 10% GAS, 70% OIL, 5% WATER, 15% MUD
125' G,SW,OCM, 12% GAS, 32% OIL, 4% WATER, 52% MUD
180' G,SO&MCW, 1% GAS, 5% OIL, 80% WATER, 14% MUD
465' TOTAL FLUID

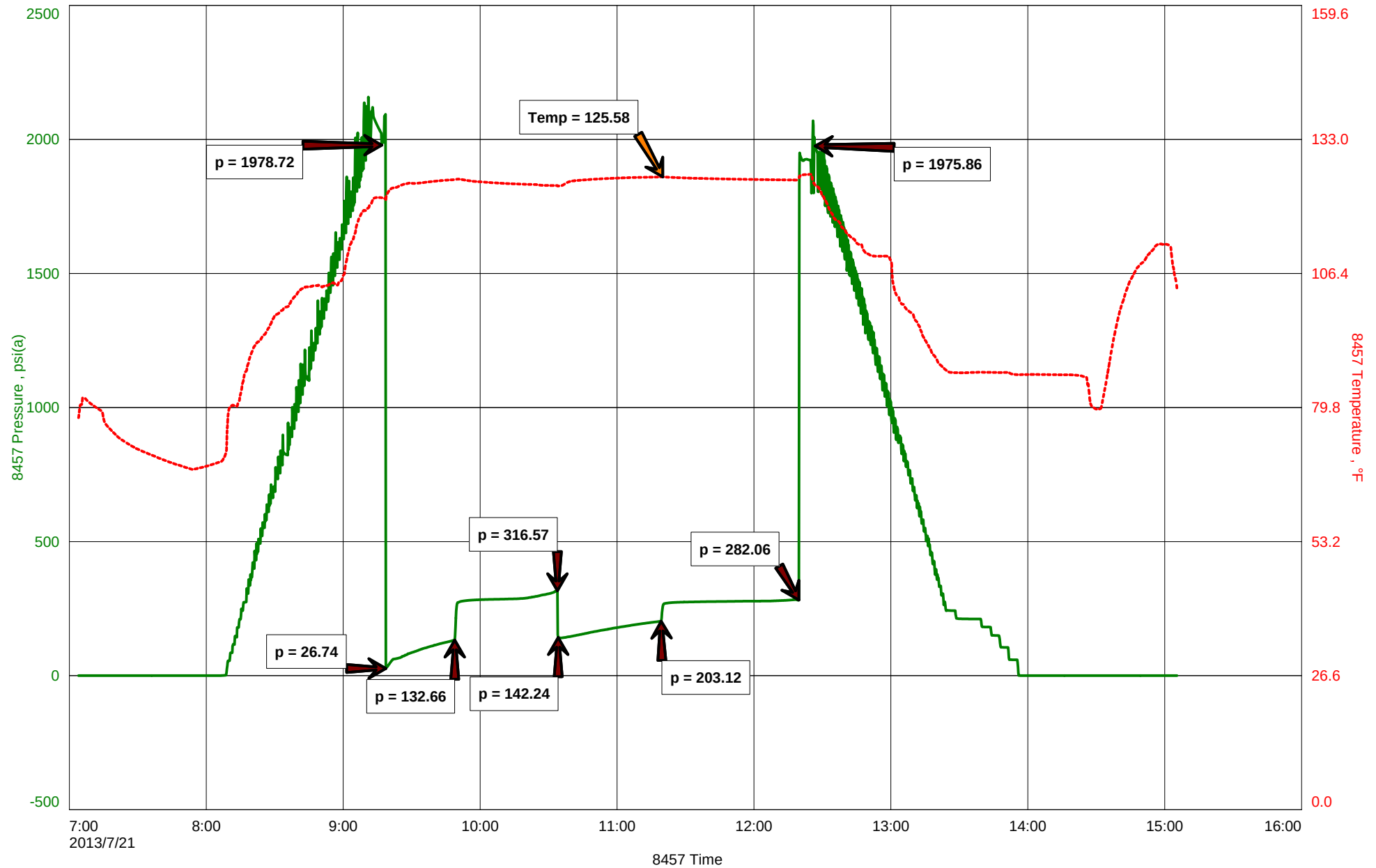
TOOL SAMPLE: 5% GAS, 20% OIL, 35% WATER, 40% MUD

CHLORIDES: 55,000 ppm
PH: 7.5
RW: .17 @ 86 deg.

RITCHIE EXPLORATION, INC.
DST #7, LKC"L"-ALT."C", 4100-4240
Start Test Date: 2013/07/21
Final Test Date: 2013/07/21

ROEMER UNIT #1
Formation: DST #7, LKC"L"-ALT."C", 4100-4240
Pool: ROEMER NORTHEAST
Job Number: T242

ROEMER UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ROEMERUNIT1DST7

TIME ON: 07:04
TIME OFF: 15:06

Company RITCHIE EXPLORATION, INC. Lease & Well No. ROEMER UNIT #1
Contractor WW DRILLING LLC RIG #12 Charge to RITCHIE EXPLORATION, INC.
Elevation 2719 KB Formation LKC "L"-ALTAMONT "C" Effective Pay _____ Ft. Ticket No. T242
Date 7-21-13 Sec. 7 Twp. _____ 16 S Range _____ 29 W County LANE State KANSAS
Test Approved By DAVE WILLIAMS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 7 Interval Tested from 4100 ft. to 4240 ft. Total Depth 4532 ft.

Packer Depth 4095 ft. Size 6 3/4 in. Packer depth 4240 ft. Size 6 3/4 in.

Packer Depth 4100 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4081 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4237 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth 4529 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3,500 P.P.M. Drill Pipe Length 3947 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 46 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{94' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1 INCH BLOW, BUILDING, REACHING BOB 12 1/2 MIN. (2"BB)

2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 26 MIN. (NO BB)

Recovered 285 ft. of GAS IN PIPE

Recovered 140 ft. of CO, 100% OIL, GRAVITY: 23

Recovered 20 ft. of G,SW&MCO, 10% GAS, 70% OIL, 5% WATER, 15% MUD

Recovered 125 ft. of G,SW,OCM, 12% GAS, 32% OIL, 4% WATER, 52% MUD

Recovered 180 ft. of G,SO&MCW, 1% GAS, 5% OIL, 80% WATER, 14% MUD

Recovered 465 ft. of TOTAL FLUID CHLORIDES: 55,000 ppm

Remarks: PH: 7.5

RW: .17 @ 86 deg.

TOOL SAMPLE: 5% GAS, 20% OIL, 35% WATER, 40% MUD

Time Set Packer(s) 9:18 AM A.M. P.M. Time Started Off Bottom 12:18 PM A.M. P.M. Maximum Temperature 126 deg.

Initial Hydrostatic Pressure..... (A) 1979 P.S.I.

Initial Flow Period..... Minutes 30 (B) 27 P.S.I. to (C) 133 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 317 P.S.I.

Final Flow Period..... Minutes 45 (E) 142 P.S.I. to (F) 203 P.S.I.

Final Closed In Period..... Minutes 60 (G) 282 P.S.I.

Final Hydrostatic Pressure..... (H) 1976 P.S.I.

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