

DIAMOND TESTING

General Information Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Representative	TIM VENTERS
Contact	JUSTIN CLEGG	Well Operator	RITCHIE EXPLORATION, INC.
Well Name	BAKER 31D #1	Report Date	2014/08/17
Unique Well ID	DST #1, TORONTO, 3877-3922	Prepared By	TIM VENTERS
Surface Location	SEC 31-15S-34W, LOGAN CO. KS.	Qualified By	JOHN GOLDSMITH
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #1, TORONTO, 3877-3922		
Well Fluid Type	01 Oil		
Start Test Date	2014/08/17	Start Test Time	01:19:00
Final Test Date	2014/08/17	Final Test Time	10:01:00

Test Recovery:

RECOVERED: 1' CLEAN OIL

29' W&MCO, 49% OIL, 26% WATER, 25% MUD
125' HMCW W/TR. O, TRACE OIL, 45% WATER, 55% MUD
125' SMCW W/TR. O, TRACE OIL, 88% WATER, 12% MUD
280' TOTAL FLUID

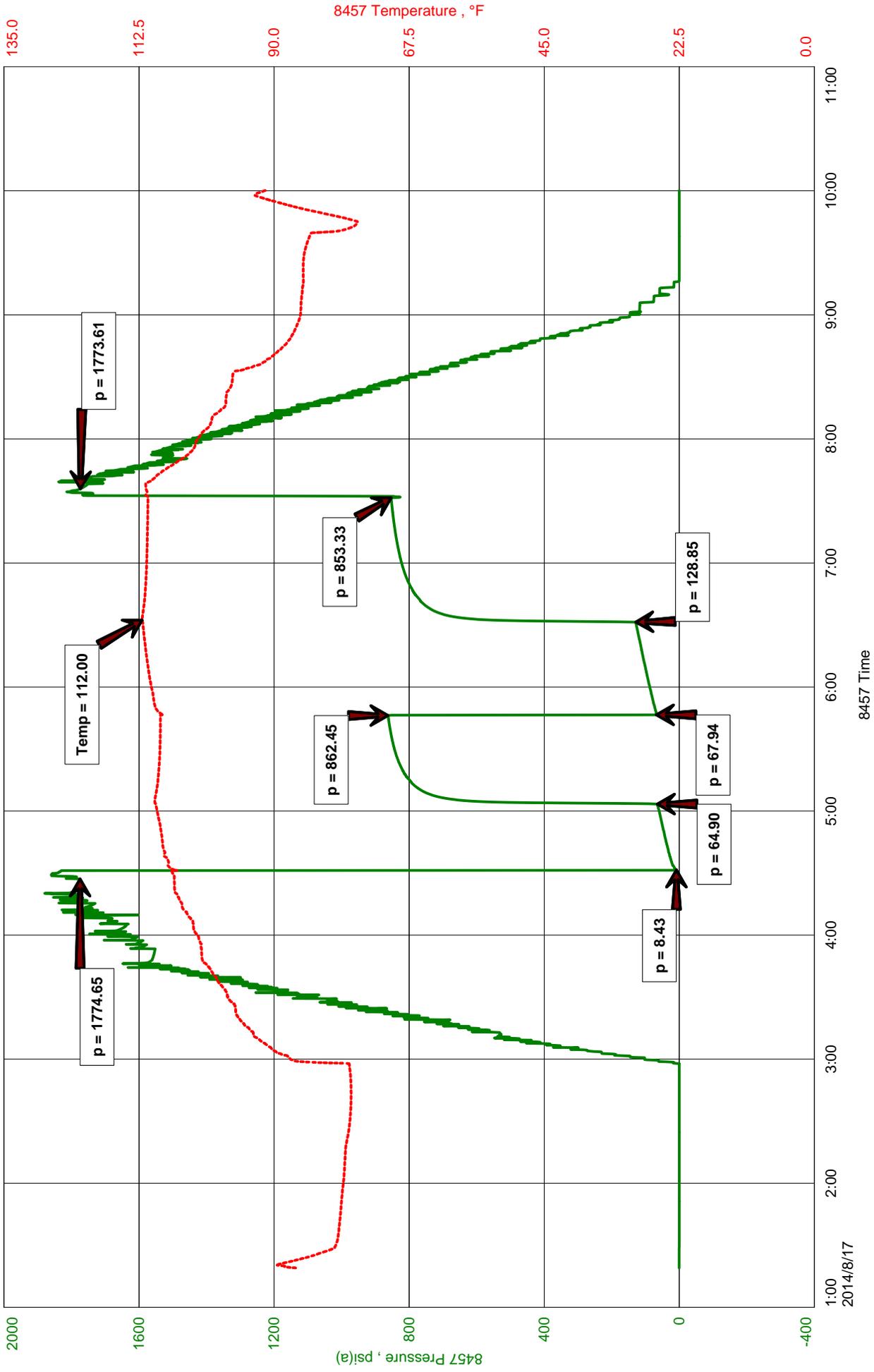
TOOL SAMPLE: 2% OIL, 78% WATER, 20% MUD

CHLORIDES: 40,000 ppm
PH: 7.0
RW: .21 @ 78 deg.

RITCHIE EXPLORATION, INC.
DST #1, TORONTO, 3877-3922
Start Test Date: 2014/08/17
Final Test Date: 2014/08/17

BAKER 31D #1
Formation: DST #1, TORONTO, 3877-3922
Pool: WILDCAT
Job Number: T377

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST1

TIME ON: 01:19
TIME OFF: 10:01

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. T377
Date 8-17-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3877 ft. to 3922 ft. Total Depth 3922 ft.
Packer Depth 3872 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3877 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3858 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3919 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 31 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 3813 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 45 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 9 1/2 INCHES. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 42 1/2 MIN. (NO BB)

Recovered 1 ft. of CLEAN OIL
Recovered 29 ft. of W&MCO, 49% OIL, 26% WATER, 25% MUD
Recovered 125 ft. of HWCM W/TR. O, TRACE OIL, 45% WATER, 55% MUD
Recovered 125 ft. of SMCW W/TR. O, TRACE OIL, 88% WATER, 12% MUD
Recovered 280 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 40,000 ppm	Price Job
Remarks: _____	PH: 7.0	Other Charges
_____	RW: .21 @ 78 deg.	Insurance
TOOL SAMPLE: 2% OIL, 78% WATER, 20% MUD		Total

Time Set Packer(s) 4:31 AM A.M. P.M. Time Started Off Bottom 7:31 AM A.M. P.M. Maximum Temperature 112 deg.

Initial Hydrostatic Pressure..... (A) 1775 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 65 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 862 P.S.I.
Final Flow Period..... Minutes 45 (E) 68 P.S.I. to (F) 129 P.S.I.
Final Closed In Period..... Minutes 60 (G) 853 P.S.I.
Final Hydrostatic Pressure..... (H) 1774 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.	Representative	TIM VENTERS
Contact	JUSTIN CLEGG	Well Operator	RITCHIE EXPLORATION, INC.
Well Name	BAKER 31D #1	Report Date	2014/08/18
Unique Well ID	DST #2, LANSING "A", 3922-3950	Prepared By	TIM VENTERS
Surface Location	SEC 31-15S-34W, LOGAN CO. KS.	Qualified By	JOHN GOLDSMITH
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #2, LANSING "A", 3922-3950		
Well Fluid Type	01 Oil		
Start Test Date	2014/08/17	Start Test Time	18:32:00
Final Test Date	2014/08/18	Final Test Time	02:44:00

Test Recovery:

RECOVERED: 55' SM&WCO, 76% OIL, 19% WATER, 5% MUD, GRAVITY: 16
835' SO&MCW, 11% OIL, 79% WATER, 10% MUD
940' TOTAL FLUID

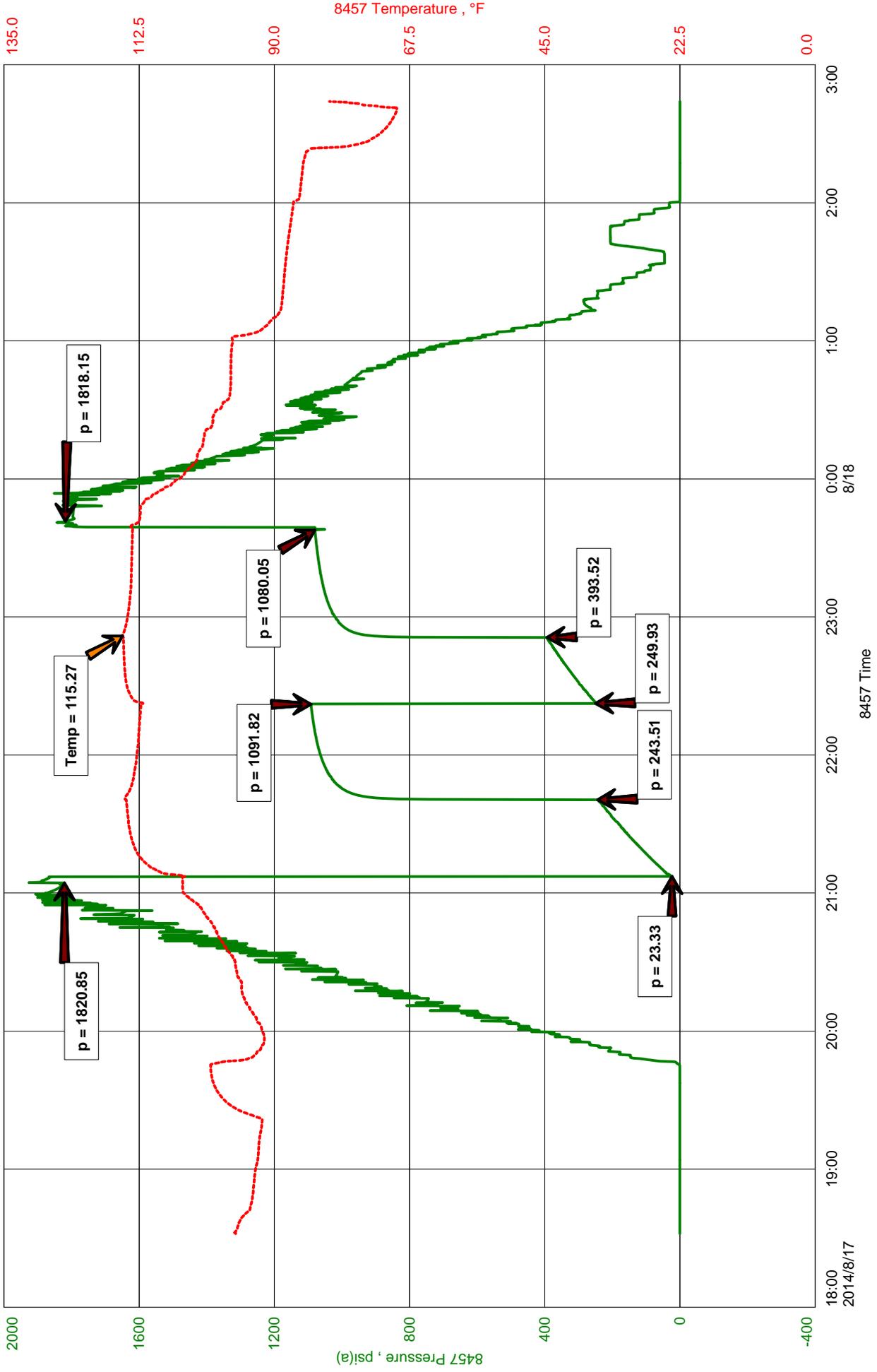
TOOL SAMPLE: 12% OIL, 74% WATER, 14% MUD

CHLORIDES: 40,000 ppm
PH: 7.5
RW: .20 @ 76 deg.

RITCHIE EXPLORATION, INC.
DST #2, LANSING "A", 3922-3950
Start Test Date: 2014/08/17
Final Test Date: 2014/08/18

BAKER 31D #1
Formation: DST #2, LANSING "A", 3922-3950
Pool: WILDCAT
Job Number: T378

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST2

TIME ON: 18:32 8-17-14
TIME OFF: 02:44 8-18-14

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation LANSING "A" Effective Pay _____ Ft. Ticket No. T378
Date 8-17-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3922 ft. to 3950 ft. Total Depth 3950 ft.
Packer Depth 3917 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3922 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3903 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3947 ft. Recorder Number 11029 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 31 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,500 P.P.M. Drill Pipe Length 3858 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 28 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: GOOD 1 INCH BLOW, BUILDING, REACHING BOB 6 MIN. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 8 MIN. (NO BB)

Recovered 55 ft. of SM&WCO, 76% OIL, 19% WATER, 5% MUD, GRAVITY: 16
Recovered 885 ft. of SO&MCW, 11* OIL, 79% WATER, 10% MUD
Recovered 940 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: 12% OIL, 74% WATER, 14% MUD	Total

Time Set Packer(s) 9:06 PM A.M. P.M. Time Started Off Bottom 11:36 PM A.M. P.M. Maximum Temperature 115 deg.

Initial Hydrostatic Pressure..... (A) 1821 P.S.I.
Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 244 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1092 P.S.I.
Final Flow Period..... Minutes 30 (E) 250 P.S.I. to (F) 394 P.S.I.
Final Closed In Period..... Minutes 45 (G) 1080 P.S.I.
Final Hydrostatic Pressure..... (H) 1818 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name BAKER 31D #1
Unique Well ID DST #3, LANSING "C", 3952-3976
Surface Location SEC 31-15S-34W, LOGAN CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, LANSING "C", 3952-3976
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2014/08/18
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2014/08/18
Final Test Date 2014/08/18

Start Test Time 11:07:00
Final Test Time 18:17:00

Test Recovery:

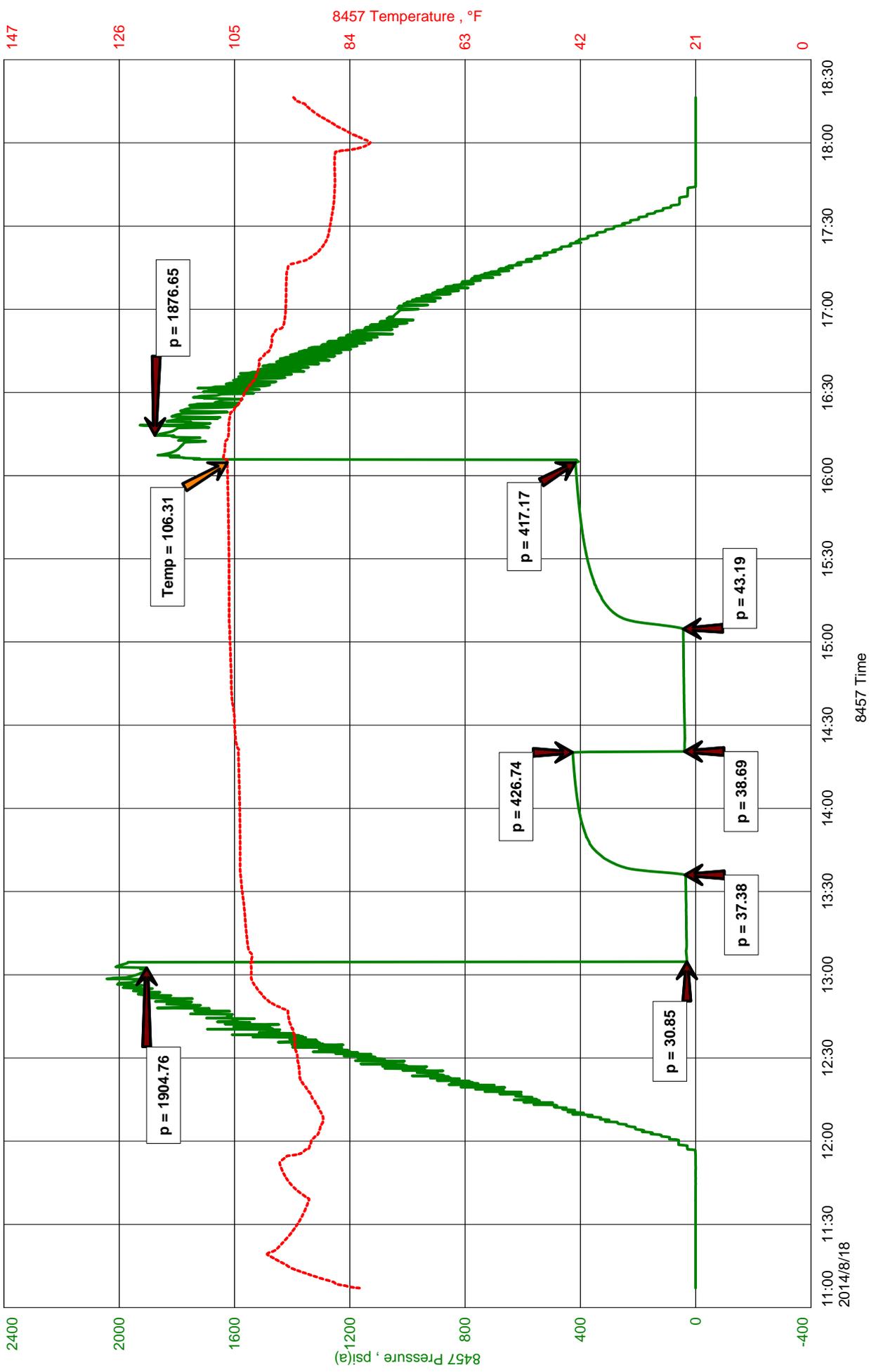
RECOVERED: 5' CLEAN OIL, GRAVITY: 24
20' OCM, 25% OIL, 75% MUD
65' SOCM, 5% OIL, 95% MUD
90' TOTAL FLUID

TOOL SAMPLE: 15% OIL, 85% MUD

RITCHIE EXPLORATION, INC.
DST #3, LANSING "C", 3952-3976
Start Test Date: 2014/08/18
Final Test Date: 2014/08/18

BAKER 31D #1
Formation: DST #3, LANSING "C", 3952-3976
Pool: WILDCAT
Job Number: T379

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST3

TIME ON: 11:07
TIME OFF: 18:17

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation LANSING "C" Effective Pay _____ Ft. Ticket No. T379
Date 8-18-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 3952 ft. to 3976 ft. Total Depth 3976 ft.
Packer Depth 3947 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3952 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3933 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 3973 ft. Recorder Number 11029 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 31 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 7,000 P.P.M. Drill Pipe Length 3888 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 24 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: VERY WEAK SURFACE BLOW, BUILDING TO 3/4 INCH. (NO BB)

Recovered 5 ft. of CLEAN OIL, GRAVITY: 24
Recovered 20 ft. of OCM, 255 OIL, 75% MUD
Recovered 65 ft. of SOCM, 5% OIL, 95% MUD
Recovered 90 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 15% OIL, 85% MUD	Total

Time Set Packer(s) 1:04 PM A.M. P.M. Time Started Off Bottom 4:04 PM A.M. P.M. Maximum Temperature 106 deg.

Initial Hydrostatic Pressure..... (A) 1905 P.S.I.
Initial Flow Period..... Minutes 30 (B) 31 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 427 P.S.I.
Final Flow Period..... Minutes 45 (E) 39 P.S.I. to (F) 43 P.S.I.
Final Closed In Period..... Minutes 60 (G) 417 P.S.I.
Final Hydrostatic Pressure..... (H) 1877 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTN CLEGG
Well Name BAKER 31D #1
Unique Well ID DST #4, LANSING "E/F", 4011-4051
Surface Location SEC 31-15S-34W, LOGAN CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, LANSING "E/F", 4011-4051
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2014/08/19
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2014/08/19
Final Test Date 2014/08/19

Start Test Time 07:28:00
Final Test Time 15:02:00

Test Recovery:

RECOVERED: 200' SWCM W/TR. O, TRACE OIL, 5% WATER, 95% MUD
315' HMCW W/TR. O, TRACE OIL, 56% WATER, 44% MUD
1450' SMCW W/TR. O, TRACE OIL, 95% WATER, 5% MUD
630' WATER
2595' TOTAL FLUID

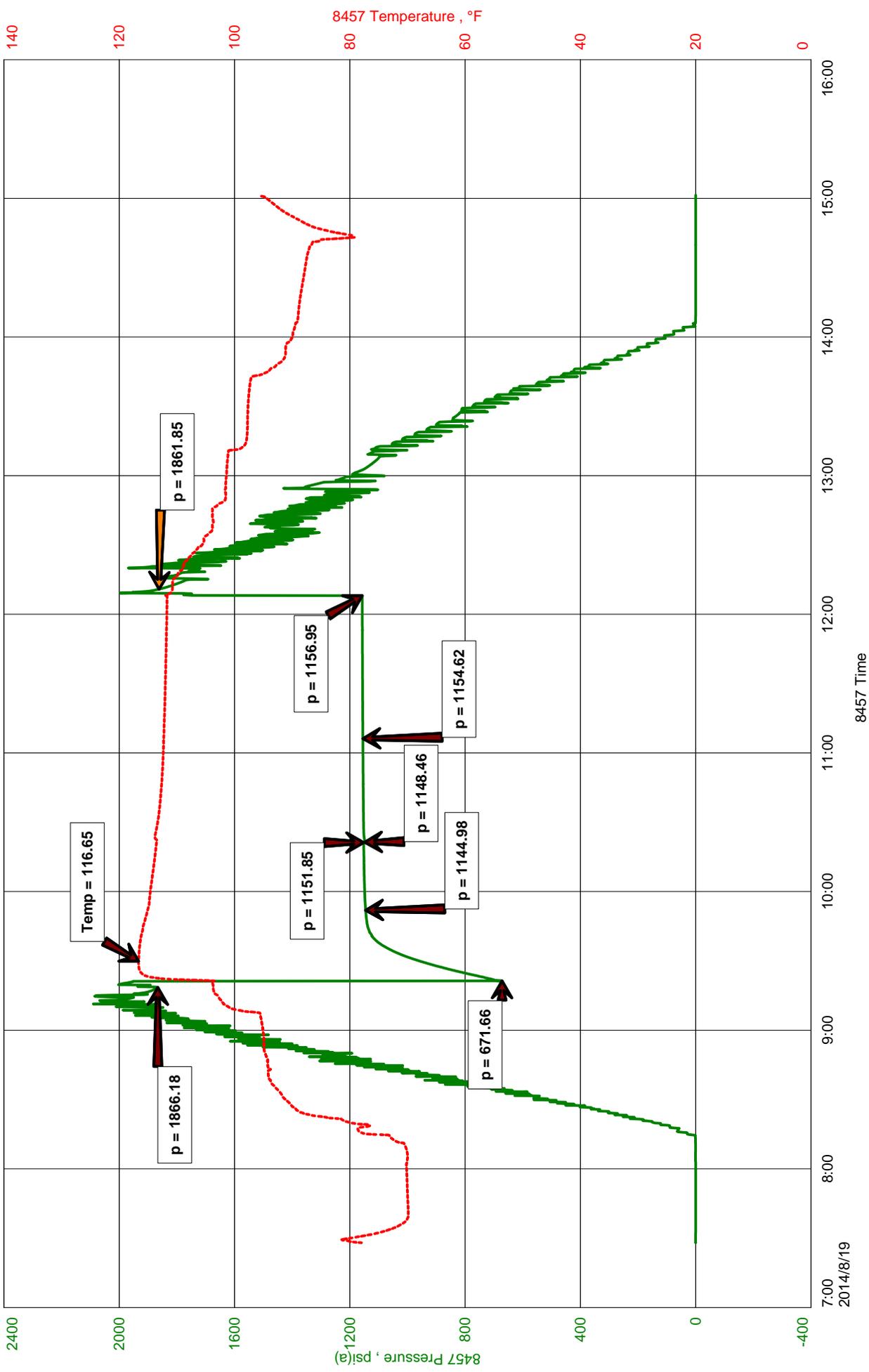
TOOL SAMPLE: TRACE OIL, 93% WATER, 7% MUD

CHLORIDES: 27,000 ppm
PH: 7.5
RW: .22 @ 87 deg.

RITCHIE EXPLORATION, INC.
DST #4, LANSING "E/F", 4011-4051
Start Test Date: 2014/08/19
Final Test Date: 2014/08/19

BAKER 31D #1
Formation: DST #4, LANSING "E/F", 4011-4051
Pool: WILDCAT
Job Number: T380

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST4

TIME ON: 07:28
TIME OFF: 15:02

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation LANSING "E/F" Effective Pay _____ Ft. Ticket No. T380
Date 8-19-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4011 ft. to 4051 ft. Total Depth 4051 ft.
Packer Depth 4006 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4011 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3992 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4048 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 68 Drill Collar Length 31 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 12,000 P.P.M. Drill Pipe Length 3947 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 40 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: **STRONG 7 INCH BLOW, BUILDING, REACHING BOB 30 SEC. (NO BB)**
2nd Open: **VERY WEAK SURFACE BLOW, BUILDING TO 2 INCHES. (NO BB)**

Recovered 200 ft. of SWCM W/TR. O, TRACE OIL, 5% WATER, 95% MUD
Recovered 315 ft. of HMCW W/TR. O, TRACE OIL, 56% WATER, 44% MUD
Recovered 1450 ft. of SMCW W/TR. O, TRACE OIL, 95% WATER, 5% MUD
Recovered 630 ft. of WATER

Recovered <u>2595</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of <u>CHLORIDES: 27,000 ppm</u>	Other Charges
Remarks: <u>PH. 7.5</u>	Insurance
<u>RW: .22 @ 87 deg.</u>	
<u>TOOL SAMPLE: TRACE OIL, 93% WATER, 7% MUD</u>	Total

Time Set Packer(s) 9:21 AM A.M. P.M. Time Started Off Bottom 12:06 PM A.M. P.M. Maximum Temperature 117 deg.

Initial Hydrostatic Pressure..... (A) 1866 P.S.I.
Initial Flow Period..... Minutes 30 (B) 672 P.S.I. to (C) 1145 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1152 P.S.I.
Final Flow Period..... Minutes 45 (E) 1148 P.S.I. to (F) 1155 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1157 P.S.I.
Final Hydrostatic Pressure..... (H) 1862 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name BAKER 31D #1
Unique Well ID DST #5, LANSING "I", 4138-4170
Surface Location SEC 31-15S-34W, LOGAN CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #5, LANSING "I", 4138-4170
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2014/08/20
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2014/08/20
Final Test Date 2014/08/20

Start Test Time 08:41:00
Final Test Time 16:01:00

Test Recovery:

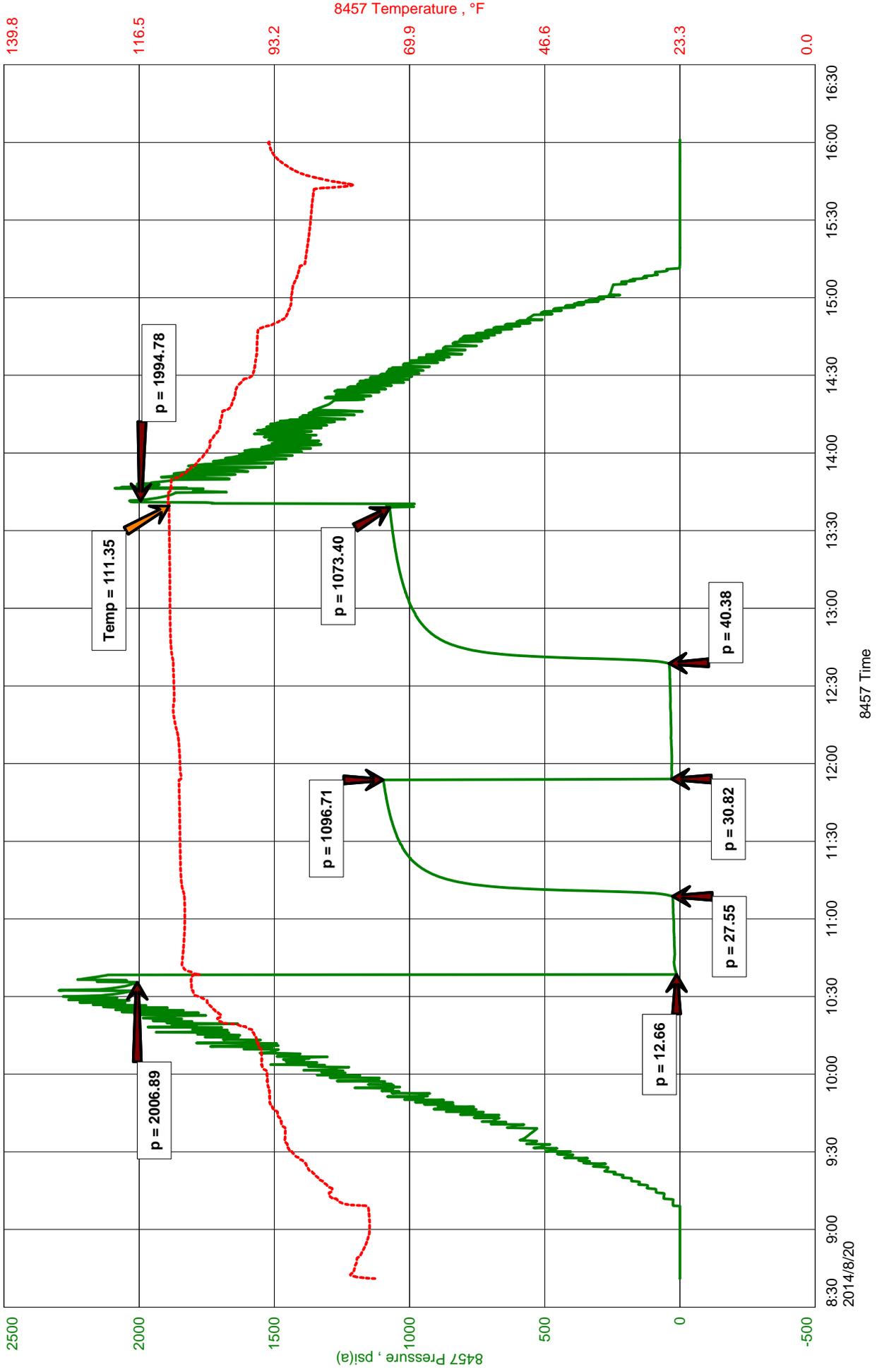
RECOVERED: 65' SMCO, 98% OIL, 2% MUD, GRAVITY: 22
35' HOCM, 42% OIL, 58% MUD
100' TOTAL FLUID

TOOL SAMPLE: 50% OIL, 50% MUD

RITCHIE EXPLORATION, INC.
DST #5, LANSING "1", 4138-4170
Start Test Date: 2014/08/20
Final Test Date: 2014/08/20

BAKER 31D #1
Formation: DST #5, LANSING "1", 4138-4170
Job Number: T381

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST5

TIME ON: 08:41
TIME OFF: 16:01

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation LANSING "I" Effective Pay _____ Ft. Ticket No. T381
Date 8-20-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 4138 ft. to 4170 ft. Total Depth 4170 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) 4119 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4167 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 31 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 9,000 P.P.M. Drill Pipe Length 4074 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 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 3 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 3 INCHES. (NO BB)

Recovered 65 ft. of SMCO, 98% OIL, 2% MUD, GRAVITY: 22
Recovered 35 ft. of HOCM, 42% OIL, 58% MUD
Recovered 100 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: 50% OIL, 50% MUD	Total

Time Set Packer(s) 10:38 AM A.M. P.M. Time Started Off Bottom 1:38 PM A.M. P.M. Maximum Temperature 111 deg.

Initial Hydrostatic Pressure..... (A) 2007 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 28 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1097 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) 1073 P.S.I.
Final Hydrostatic Pressure..... (H) 1095 P.S.I.

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DIAMOND TESTING

General Information Report

General Information

Company Name RITCHIE EXPLORATION, INC.
Contact JUSTIN CLEGG
Well Name BAKER 31D #1
Unique Well ID DST #6, LANSING "J-K,L", 4168-4280
Surface Location SEC 31-15S-34W, LOGAN CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #6, LANSING "J-K-L", 4168-4280
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RITCHIE EXPLORATION, INC.
Report Date 2014/08/21
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2014/08/21
Final Test Date 2014/08/21

Start Test Time 09:41:00
Final Test Time 17:15:00

Test Recovery:

RECOVERED: 195' M W/TR. O, TRACE OIL, 100% MUD
190' WCM W/TR. O, TRACE OIL, 20% WATER, 80% MUD
630' MCW W/TR. O, TRACE OIL, 61% WATER, 39% MUD
1015' TOTAL FLUID

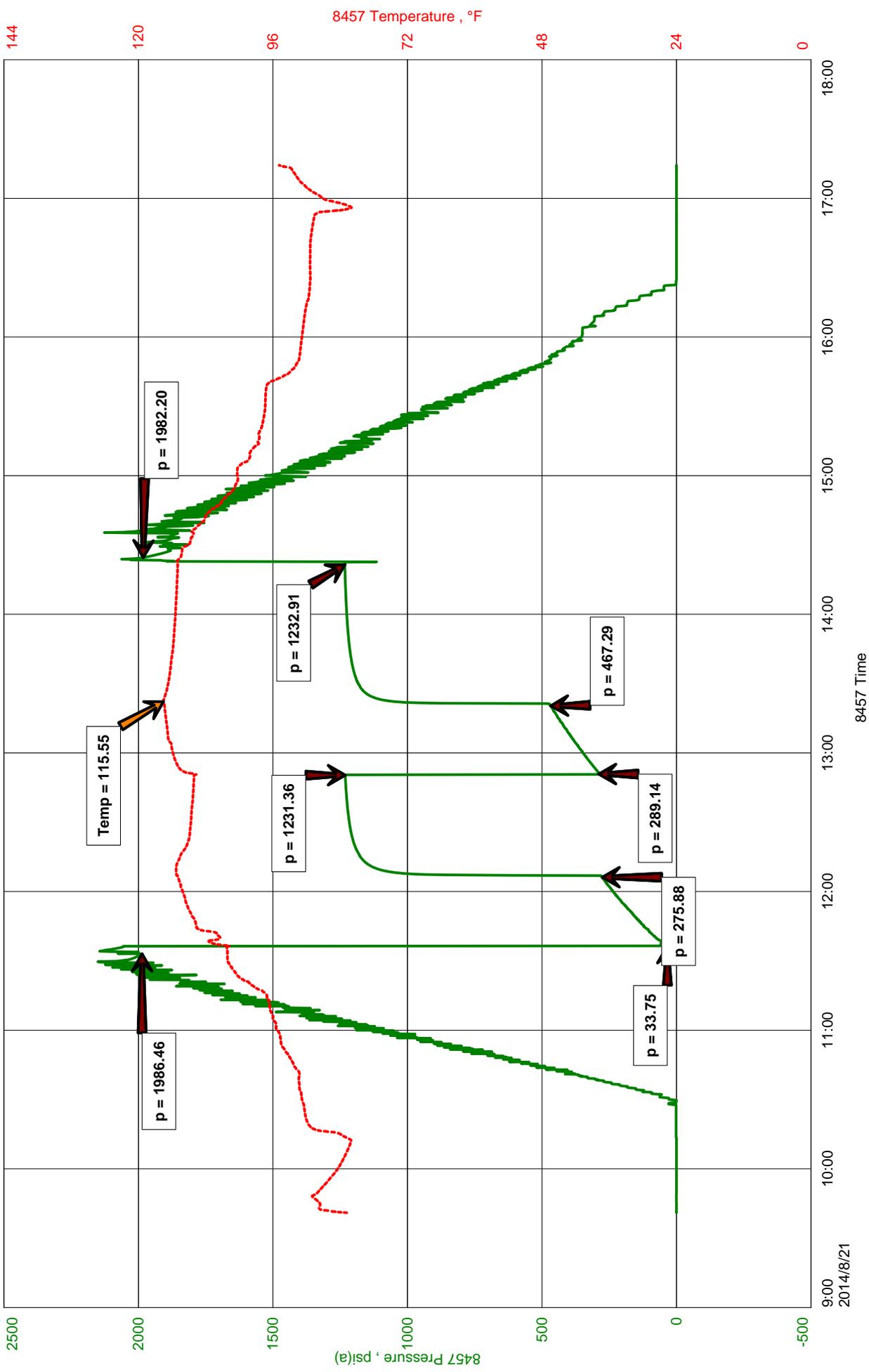
TOOL SAMPLE: SPECKS OIL, 100% WATER

CHLORIDES: 32,000 ppm
PH: 8.0
RW: .19 @ 91 deg.

RITCHIE EXPLORATION, INC.
DST #6, LANSING "J-K,L", 4168-4280
Start Test Date: 2014/08/21
Final Test Date: 2014/08/21

BAKER 31D #1
Formation: DST #6, LANSING "J-K-L", 4168-4280
Pool: WILDCAT
Job Number: T382

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST6

TIME ON: 09:41
TIME OFF: 17:15

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation LANSING "J-K-L" Effective Pay _____ Ft. Ticket No. T382
Date 8-21-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 4168 ft. to 4280 ft. Total Depth 4280 ft.
Packer Depth 4163 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4168 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4149 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4277 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 31 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 13,000 P.P.M. Drill Pipe Length 4074 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 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 1/2 INCH BLOW, BUILDING, REACHING BOB 6 MIN. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 7 1/2 MIN. (NO BB)

Recovered 195 ft. of M W/TR. O, TRACE OIL, 100% MUD
Recovered 190 ft. of WCM W/TR. O, TRACE OIL, 20% WATER, 80% MUD
Recovered 630 ft. of MCW W/TR. O, TRACE OIL, 61% WATER, 39% MUD
Recovered 1015 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 32,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 8.0	Other Charges
Remarks: _____	RW: .19 @ 91 deg.	Insurance
TOOL SAMPLE: SPECKS OIL, 100% WATER		Total

Time Set Packer(s) 11:36 AM A.M. P.M. Time Started Off Bottom 2:21 PM A.M. P.M. Maximum Temperature 116 deg.

Initial Hydrostatic Pressure..... (A) 1986 P.S.I.
Initial Flow Period..... Minutes 30 (B) 34 P.S.I. to (C) 276 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1231 P.S.I.
Final Flow Period..... Minutes 30 (E) 289 P.S.I. to (F) 467 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1233 P.S.I.
Final Hydrostatic Pressure..... (H) 1982 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.	Representative	TIM VENTERS
Contact	JUSTIN CLEGG	Well Operator	RITCHIE EXPLORATION, INC.
Well Name	BAKER 31D #1	Report Date	2014/08/22
Unique Well ID	DST #7, ALTAMONT, 4350-4405	Prepared By	TIM VENTERS
Surface Location	SEC 31-15S-34W, LOGAN CO. KS.	Qualified By	JOHN GOLDSMITH
Field	WILDCAT		
Well Type	Vertical		
Test Type	CONVENTIONAL		
Formation	DST #7, ALTAMONT, 4350-4405		
Well Fluid Type	01 Oil		
Start Test Date	2014/08/22	Start Test Time	13:08:00
Final Test Date	2014/08/22	Final Test Time	21:39:00

Test Recovery:

RECOVERED: 10' HMCW W/TR. O, TRACE OIL, 53% WATER, 47% MUD
125' HMCW, 60% WATER, 40% MUD
135' TOTAL FLUID

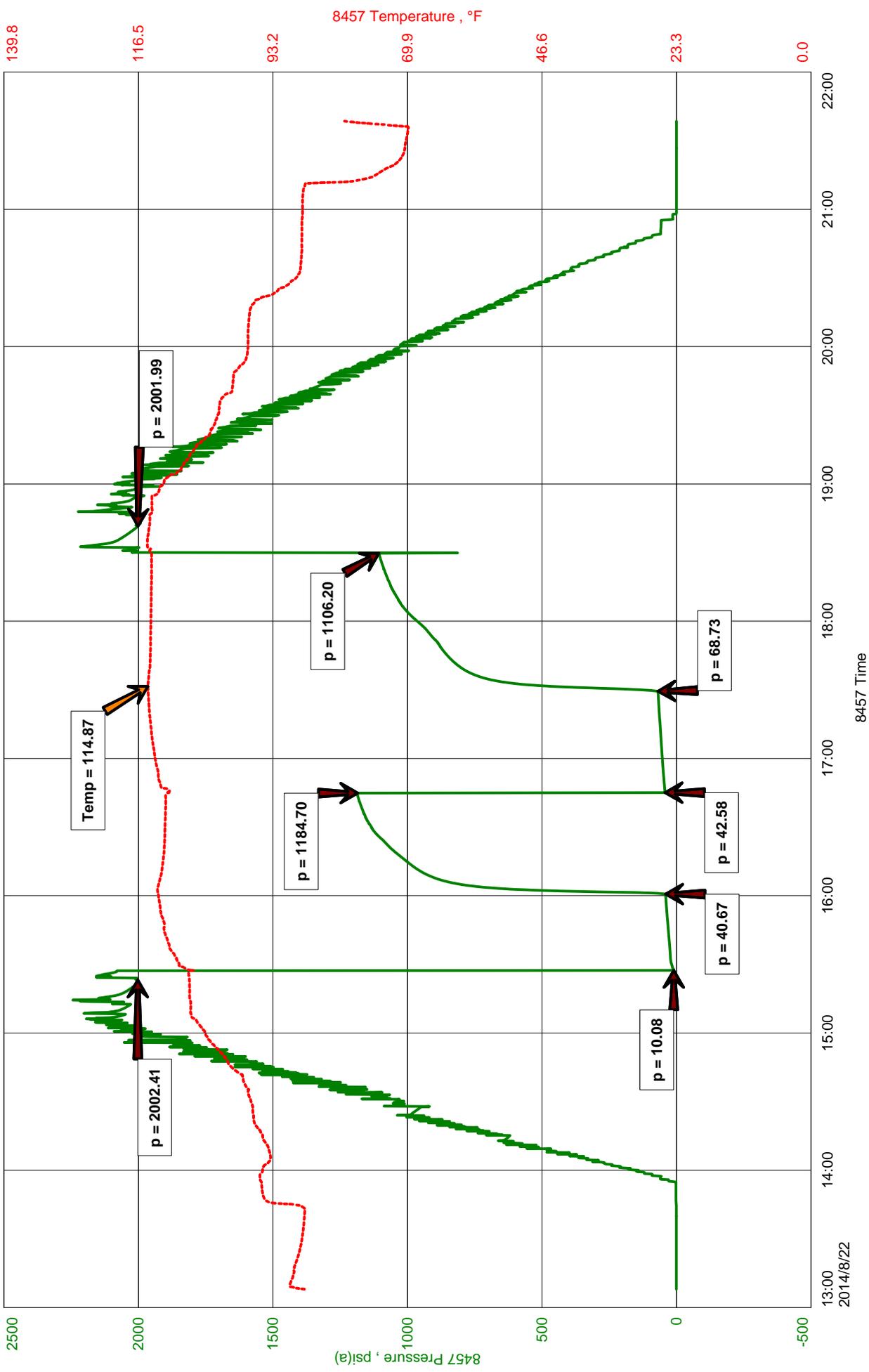
TOOL SAMPLE: 2% OIL, 66% WATER, 32% MUD

CHLORIDES: 27,000 ppm
PH: 9.0
RW: .28 @ 75 deg.

RITCHIE EXPLORATION, INC.
DST #7, ALTAMONT, 4350-4405
Start Test Date: 2014/08/22
Final Test Date: 2014/08/22

BAKER 31D #1
Formation: DST #7, ALTAMONT, 4350-4405
Pool: WILDCAT
Job Number: T383

BAKER 31D #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BAKER31D1DST7

TIME ON: 13:08
TIME OFF: 21:39

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31D #1
Contractor VAL ENERGY, INC. RIG #4 Charge to RITCHIE EXPLORATION, INC.
Elevation 3070 KB Formation ALTAMONT Effective Pay _____ Ft. Ticket No. T383
Date 8-22-14 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 7 Interval Tested from 4350 ft. to 4405 ft. Total Depth 4405 ft.
Packer Depth 4345 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4350 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4331 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4402 ft. Recorder Number 11029 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 31 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 11,000 P.P.M. Drill Pipe Length 4286 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 24 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, BUILDING TO 4 3/4 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 3 1/2 INCHES. (NO BB)

Recovered 10 ft. of HMCW W/TR. O, TRACE OIL, 53% WATER, 47% MUD
Recovered 125 ft. of HMCW, 60% WATER, 40% MUD
Recovered 135 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 27,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 9.0	Other Charges
Remarks: _____	RW: .28 @ 75 deg.	Insurance
TOOL SAMPLE: 2% OIL, 66% WATER, 32% MUD		Total

Time Set Packer(s) 3:27 PM A.M. P.M. Time Started Off Bottom 6:29 PM A.M. P.M. Maximum Temperature 115 deg.

Initial Hydrostatic Pressure..... (A) 2002 P.S.I.
Initial Flow Period..... Minutes 32 (B) 10 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1185 P.S.I.
Final Flow Period..... Minutes 45 (E) 43 P.S.I. to (F) 69 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1106 P.S.I.
Final Hydrostatic Pressure..... (H) 2002 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.