

DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: BKR31CDUNT1DST1

TIME ON: 1855 (5/30)
 TIME OFF: 0230 (5/31)

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
 Contractor WW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
 Elevation 3051 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. M657
 Date 5/30/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
 Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3852 ft. to 3900 ft. Total Depth 3900 ft.
 Packer Depth 3847 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3852 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3834 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3854 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 55 Drill Collar Length 122 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,000 P.P.M. Drill Pipe Length 3698 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 48 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (32' D.P.) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, 3/4" RIGHT AWAY, BOB 18 MIN (1 1/4" BB)
 2nd Open: GSB, BOB 21 MIN (1 1/2" BB)

Recovered 318 ft. of GO 2% GAS, 98% OIL GRAVITY: 22.4 @ 60°
 Recovered 122 ft. of GWMO 4% GAS, 48% OIL, 4% WTR, 44% MUD
 Recovered 400 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: <u>10% GAS, 20% OIL, 70% MUD</u>	Total

Time Set Packer(s) 9:15 P.M. A.M. P.M. Time Started Off Bottom 12:15 P.M. A.M. P.M. Maximum Temperature 111°F

Initial Hydrostatic Pressure..... (A) 1817 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 103 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1080 P.S.I.
 Final Flow Period..... Minutes 45 (E) 109 P.S.I. to (F) 182 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1064 P.S.I.
 Final Hydrostatic Pressure..... (H) 1797 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

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M657
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3852-3900 TORONTO	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/05/30
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3852-3900 TORONTO		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/05/30	Start Test Time	18:55:00
Final Test Date	2014/05/30	Final Test Time	02:30:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

318' GO 2% GAS, 98% OIL
122' GWMO 4% GAS, 48% OIL, 4% WTR, 44% MUD
400' TOTAL FLUID

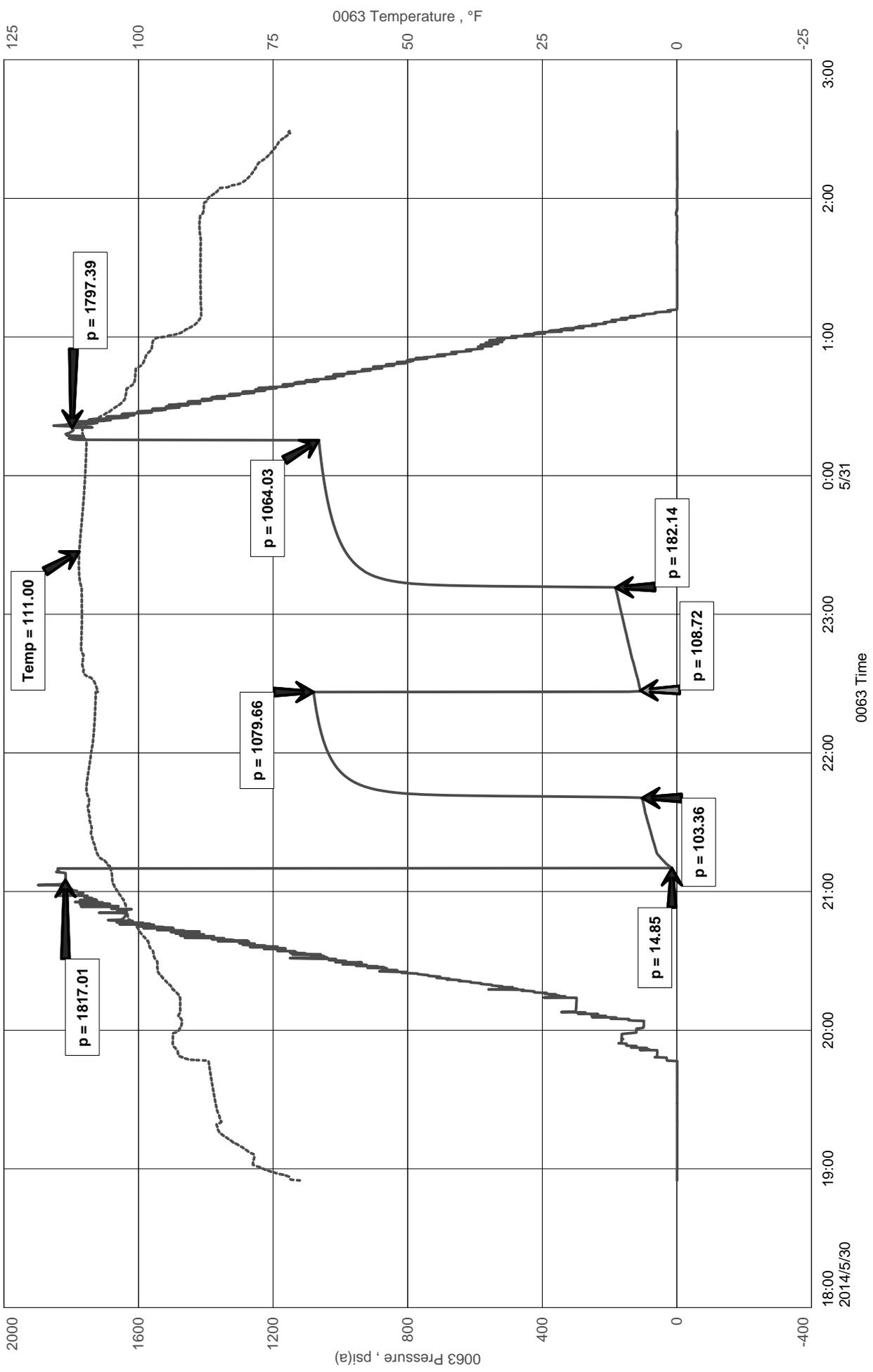
GRAVITY: 22.4 @ 60 DEG

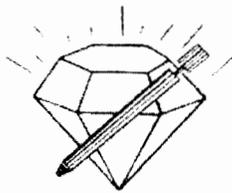
TOOL SAMPLE: 10% GAS, 20% OIL, 70% MUD

RITCHIE EXPLORATION, INC.
 DST#1 3852-3900 TORONTO
 Start Test Date: 2014/05/30
 Final Test Date: 2014/05/30

BAKER 31CD UNIT #1
 Formation: DST#1 3852-3900 TORONTO
 Pool: WILDCAT
 Job Number: M657

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST2

TIME ON: 0945
TIME OFF: 1650

Company Ritchie Exploration, Inc. Lease & Well No. Baker 31CD Unit #1
Contractor WW Drilling, LLC Rig 8 Charge to Ritchie Exploration, Inc.
Elevation 3054 KB Formation LANS. A Effective Pay _____ Ft. Ticket No. M658
Date 5/31/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County Logan State Kansas
Test Approved By Mac Armstrong Diamond Representative Mike Cochran

Formation Test No. 2 Interval Tested from 3898 ft. to 3930 ft. Total Depth 3930 ft.
Packer Depth 3893 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3898 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3880 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3900 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 63 Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 3744 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 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: WSB, INCREASE TO 7 1/2" (NO BB)
2nd Open: VWSB, INCREASE TO 8" (NO BB)

Recovered ~10 ft. of CO 100% OIL GRAVITY: 20.0 @ 60°
Recovered 160 ft. of OSMW 4% OIL, 86% WTR, 10% MUD (38'DP,122'DC)
Recovered 170 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u> CHLOR: 28,000 PPM </u>	Other Charges
Recovered _____ ft. of <u> RW: .32. @ 98 DEG </u>	Insurance
Remarks: <u> PH: 7.0 </u>	Total
TOOL SAMPLE: <u> 8% OIL, 69% WTR, 23% MUD </u>	

Time Set Packer(s) 11:45 A.M. A.M. P.M. Time Started Off Bottom 2:45 P.M. A.M. P.M. Maximum Temperature 110°F

Initial Hydrostatic Pressure..... (A) 1828 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 73 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1114 P.S.I.
Final Flow Period..... Minutes 45 (E) 76 P.S.I. to (F) 114 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1108 P.S.I.
Final Hydrostatic Pressure..... (H) 1811 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M658
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3898-3930 LANS. A	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/05/31
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 3898-3930 LANS. A		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/05/31	Start Test Time	09:45:00
Final Test Date	2014/05/31	Final Test Time	16:45:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

~10' CO 100% OIL
160' OSMW 4% OIL, 86% WTR, 10% MUD (38'DP,122'DC)
170' TOTAL FLUID

GRAVITY: 20.0 @ 60 DEG

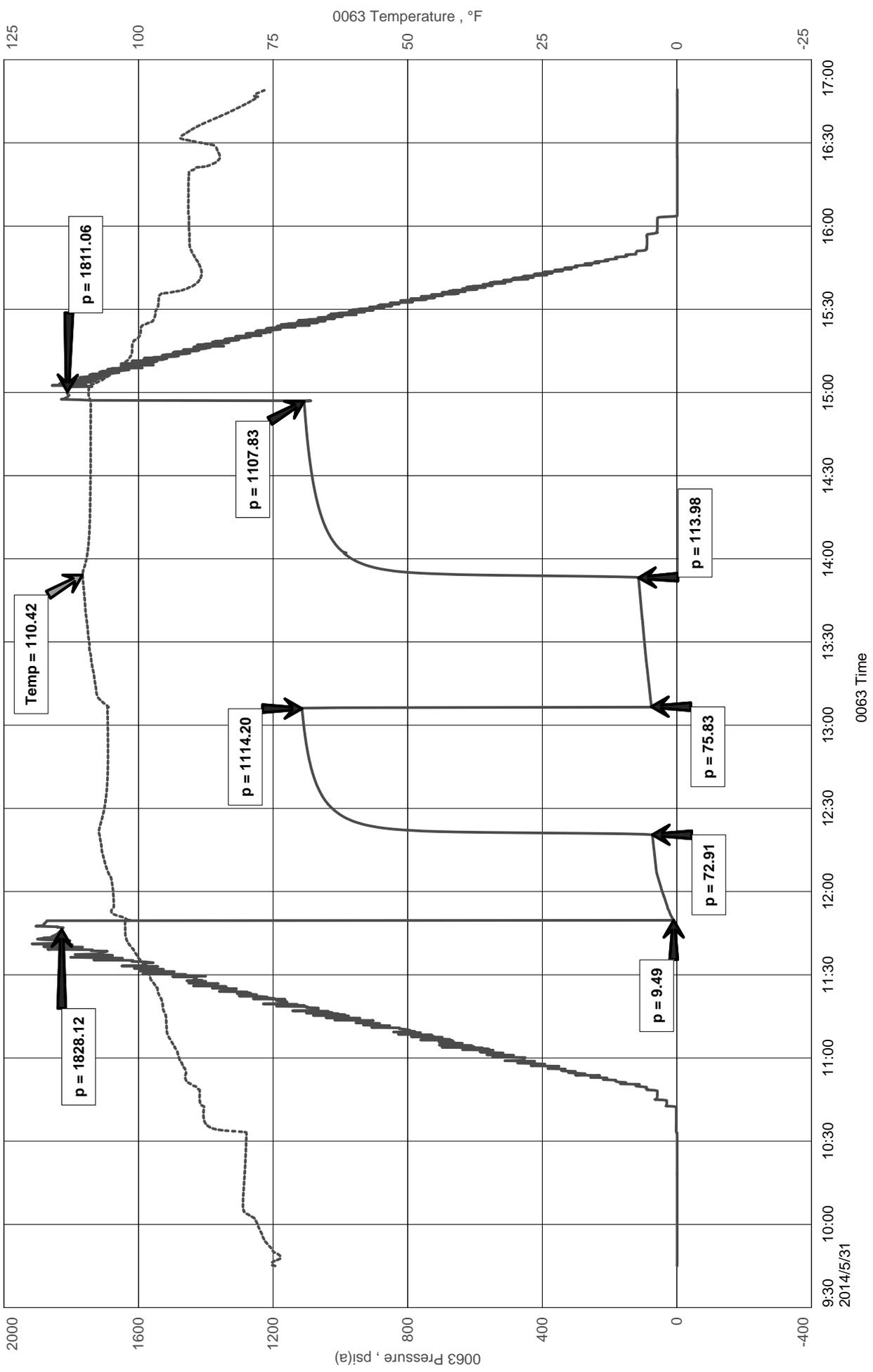
CHLOR: 28,000 PPM
PH:7.0
RW: .32 @ 98 DEG

TOOL SAMPLE: 8% OIL, 69% WTR, 23% MUD

RITCHIE EXPLORATION, INC.
 DST#2 3898-3930 LANS. A
 Start Test Date: 2014/05/31
 Final Test Date: 2014/05/31

BAKER 31CD UNIT #1
 Formation: DST#2 3898-3930 LANS. A
 Pool: WILDCAT
 Job Number: M658

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST3

TIME ON: 2040 (5/31)
TIME OFF: 0555 (6/1)

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
Contractor VW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
Elevation 3054 KB Formation LANSING C ZONE Effective Pay _____ Ft. Ticket No. M659
Date 5/31/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 3928 ft. to 3953 ft. Total Depth 3953 ft.
Packer Depth 3923 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3928 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3910 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3930 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 58 Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,400 P.P.M. Drill Pipe Length 3774 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 25 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: SSB, BOB 16 MIN (2"BB)
2nd Open: GSB, BOB 18 MIN (WEAK SURFACE BB)

Recovered 430 ft. of CO 100% OIL (368'DP,62'DC) GRAVITY: 25.8 @ 60°
Recovered 60 ft. of HOCM 30% OIL, 70% MUD (60' DC)
Recovered 490 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: 40% OIL, 60% MUD	Total

Time Set Packer(s) 12:15 A.M. A.M. P.M. Time Started Off Bottom 3:15 A.M. A.M. P.M. Maximum Temperature 114°F

Initial Hydrostatic Pressure..... (A) 1834 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 106 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1108 P.S.I.
Final Flow Period..... Minutes 45 (E) 112 P.S.I. to (F) 194 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1096 P.S.I.
Final Hydrostatic Pressure..... (H) 1798 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M659
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#3 3828-3953 LANSING C ZONE	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/06/01
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 3828-3953 LANSING C ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/05/31	Start Test Time	20:40:00
Final Test Date	2014/06/01	Final Test Time	05:55:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

430' CO 100% OIL (368'DP,62'DC)
60' HO CM 70% MUD 30% OIL (60' DC)
490' TOTAL FLUID

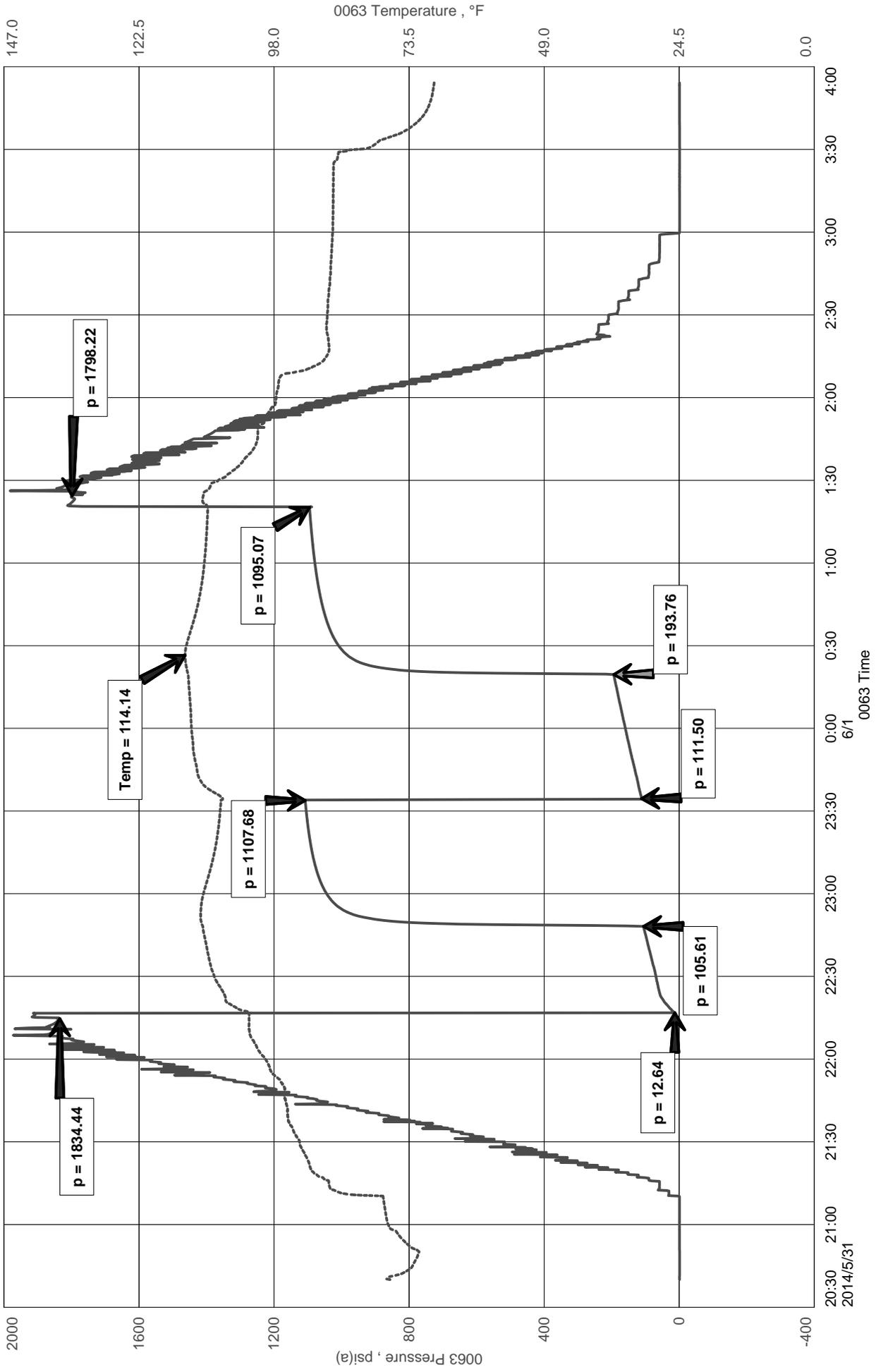
GRAVITY: 25.8 @ 60 DEG

TOOL SAMPLE: 60% MUD, 40% OIL

RITCHIE EXPLORATION, INC.
DST#3 3828-3953 LANSING C ZONE
Start Test Date: 2014/05/31
Final Test Date: 2014/06/01

BAKER 31CD UNIT #1
Formation: DST#3 3828-3953 LANSING C ZONE
Pool: WILDCAT
Job Number: M659

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST4

TIME ON: 1445
TIME OFF: 2125

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
Contractor VW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
Elevation 3054 KB Formation LANSING E&F Effective Pay _____ Ft. Ticket No. M660
Date 6/1/2014 Sec. 31 Twp. 15 S Range 34 W County LOGAN State KANSAS
Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 3983 ft. to 4019 ft. Total Depth 4019 ft.
Packer Depth 3978 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3983 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3965 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3985 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEM Viscosity 63 Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3829 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 36 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: WSB, INCREASING TO 7" (NO BB)
2nd Open: NO BLOW, THEN AFTER 3 MIN A VWSB INC. TO 8" (NO BB)

Recovered ~10 ft. of CO 100% OIL GRAVITY: 22.8 @ 60°
Recovered 251 ft. of VSOSMW 80% WTR, 20% MUD W/ A VERY THIN SCUM OF OIL (129°DP,122°DC)
Recovered 261 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLOR: 19,000 PPM</u>	Other Charges
Recovered _____ ft. of <u>RW: .46 @ 74 DEG</u>	Insurance
Remarks: <u>PH:7.0</u>	
<u>TOOL SAMPLE: 3% OIL, 74% WTR 23% MUD</u>	Total

Time Set Packer(s) 4:30 P.M. A.M. P.M. Time Started Off Bottom 7:30 P.M. A.M. P.M. Maximum Temperature 114°F
Initial Hydrostatic Pressure..... (A) 1875 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 78 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1140 P.S.I.
Final Flow Period..... Minutes 45 (E) 81 P.S.I. to (F) 126 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1142 P.S.I.
Final Hydrostatic Pressure..... (H) 1873 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M660
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#4 3983-4019 LANSING E&F	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/06/01
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 3983-4019 LANSING E&F		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/06/01	Start Test Time	14:45:00
Final Test Date	2014/06/01	Final Test Time	21:25:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

~10' CO 100% OIL
251' VSOSMW 80% WTR, 20% MUD W/ A VERY THIN SCUM OF OIL (129'DP,122'DC)
261' TOTAL FLUID

GRAVITY: 22.8 @ 60 DEG

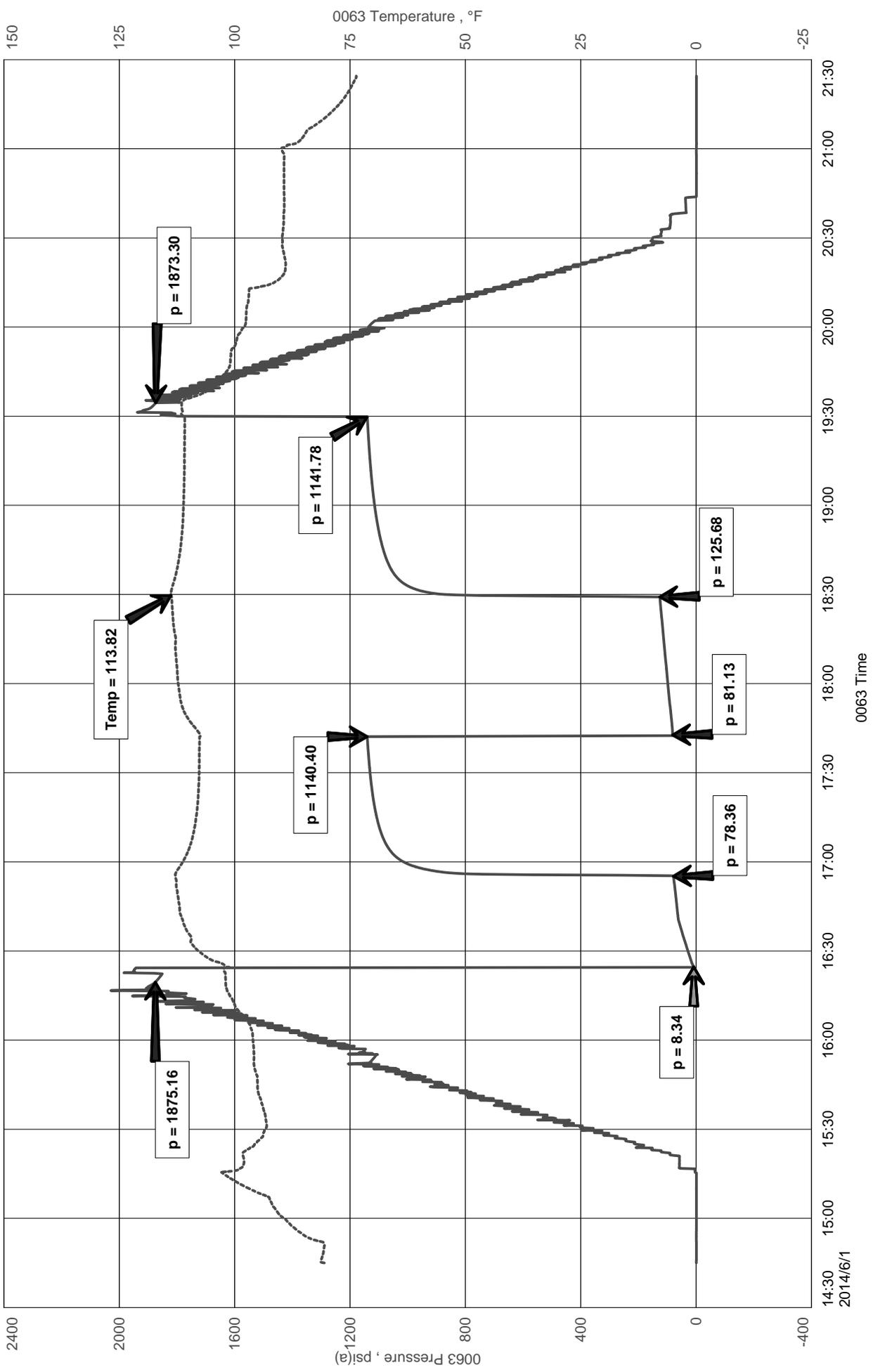
CHLOR: 19,000 PPM
PH:7.0
RW: .46 @ 74 deg

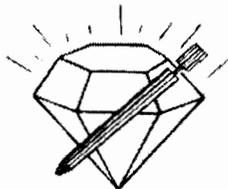
TOOL SAMPLE: 3% OIL, 74% WTR 23% MUD

RITCHIE EXPLORATION, INC.
DST#4 3983-4019 LANSING E&F
Start Test Date: 2014/06/01
Final Test Date: 2014/06/01

BAKER 31CD UNIT #1
Formation: DST#4 3983-4019 LANSING E&F
Pool: WILDCAT
Job Number: M660

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST5

TIME ON: 1255
TIME OFF: 1950

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
Contractor VW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
Elevation 3054 KB Formation LANSING I ZN Effective Pay _____ Ft. Ticket No. M661
Date 6/2/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 5 Interval Tested from 4108 ft. to 4146 ft. Total Depth 4146 ft.
Packer Depth 4103 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4108 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4090 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4110 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 59 Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 7,000 P.P.M. Drill Pipe Length 3954 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 3 Test Tool Length 32 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: WSB, INC. TO 1 3/4" (NO BB)
2nd Open: NO BLOW, THEN AFTER 10 MIN A WWSB, INC. TO 1 1/2" (NO BB)

Recovered ~80 ft. of CO 100% OIL (3' DP, 77'DC) GRAVITY: 23.6 @ 60°
Recovered ~45 ft. of GOCM 3% GAS, 13% OIL, 84% MUD (45'DC)
Recovered 125 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLOR: 9,000 PPM</u>	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	
TOOL SAMPLE: <u>2% GAS, 46% OIL, 6% WTR, 46% MUD</u>	Total

Time Set Packer(s) 2:45 P.M. A.M. P.M. Time Started Off Bottom 5:45 P.M. A.M. P.M. Maximum Temperature 111°F

Initial Hydrostatic Pressure..... (A) 1935 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1188 P.S.I.
Final Flow Period..... Minutes 45 (E) 36 P.S.I. to (F) 59 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1172 P.S.I.
Final Hydrostatic Pressure..... (H) 1928 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M661
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#5 3983-4019 LANSING I ZN.	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/06/02
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 3983-4019 LANSING I ZN.		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/06/02	Start Test Time	12:55:00
Final Test Date	2014/06/02	Final Test Time	19:50:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
~80' CO 100% OIL (3' DP,77'DC)
~45' GOCM 3% GAS, 13% OIL, 84% MUD ('45'DC)
125' TOTAL FLUID

GRAVITY: 23.6 @ 60 DEG

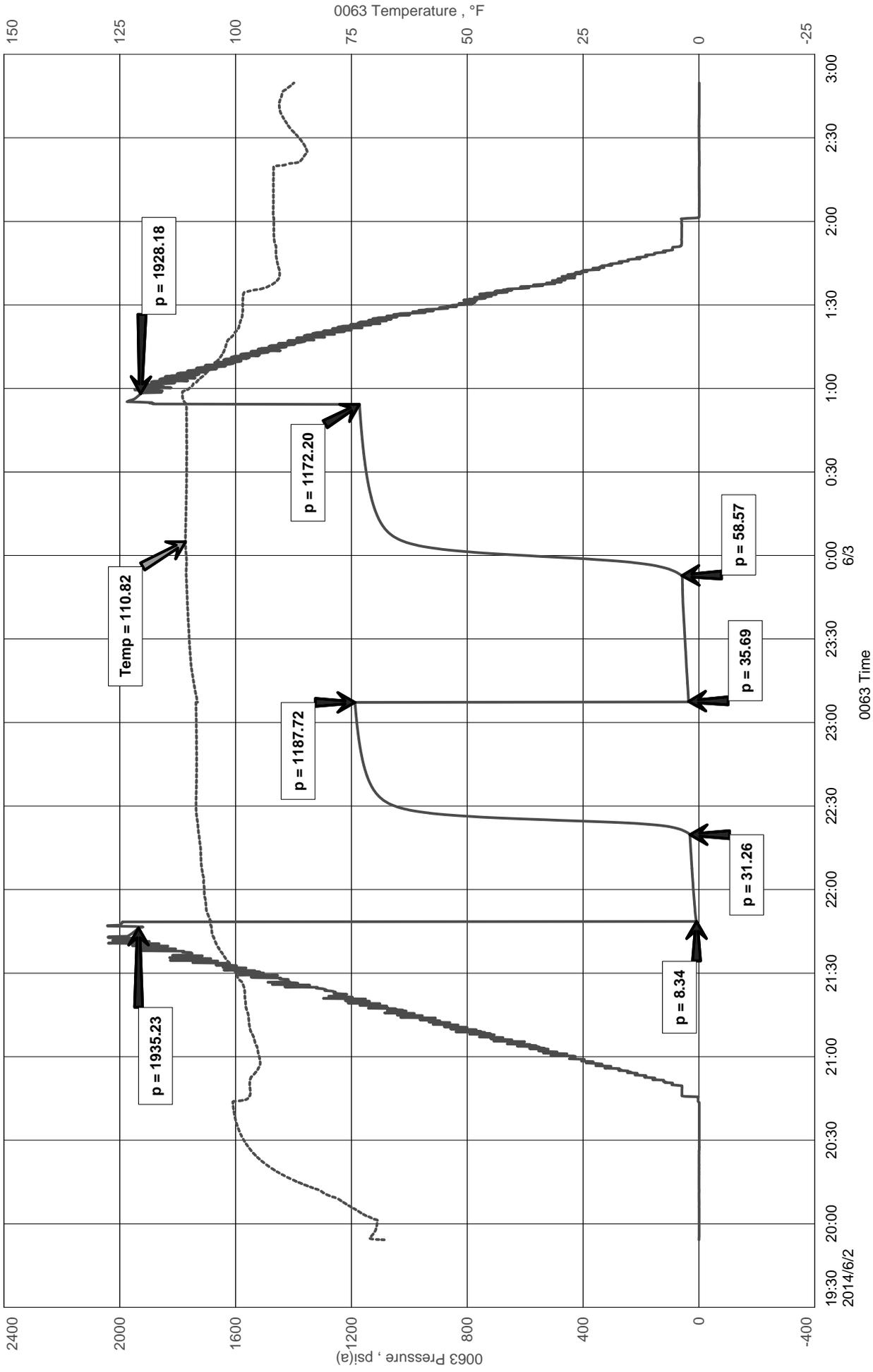
CHLOR: 9,000 PPM

TOOL SAMPLE: 2% GAS, 46% OIL, 6% WTR, 46% MUD

RITCHIE EXPLORATION, INC.
DST#5 3983-4019 LANSING I ZN.
Start Test Date: 2014/06/02
Final Test Date: 2014/06/02

BAKER 31CD UNIT #1
Formation: DST#5 3983-4019 LANSING I ZN.
Pool: WILDCAT
Job Number: M661

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST6

TIME ON: 2110 (6/3)
TIME OFF: 0300 (6/4)

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
Contractor WW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
Elevation 3054 KB Formation ALTAMONT Effective Pay _____ Ft. Ticket No. M662
Date 6/3/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 6 Interval Tested from 4352 ft. to 4384 ft. Total Depth 4384 ft.
Packer Depth 4347 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4352 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4334 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4354 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEM Viscosity 60 Drill Collar Length 122 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 4198 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 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: A SURGE OF BUBBLES ON TOOL OPEN THEN NO BLOW (NO BB)
2nd Open: NO BLOW, FLUSH TOOL, NO HELP (NO BB)

Recovered ~10 ft. of MUD 100% MUD
Recovered ~10 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____
TOOL SAMPLE: ~100% DRLG MUD W/ A VERY THIN SCUM OF OIL, SLIGHT ODOR

Time Set Packer(s) <u>11:00 P.M.</u> A.M. P.M.	Time Started Off Bottom <u>1:00 A.M.</u> A.M. P.M.	Maximum Temperature <u>112°F</u>
Initial Hydrostatic Pressure..... (A) <u>2083</u> P.S.I.		
Initial Flow Period..... Minutes <u>30</u> (B) <u>9</u> P.S.I. to (C) <u>14</u> P.S.I.		
Initial Closed In Period..... Minutes <u>30</u> (D) <u>18</u> P.S.I.		
Final Flow Period..... Minutes <u>30</u> (E) <u>14</u> P.S.I. to (F) <u>18</u> P.S.I.		
Final Closed In Period..... Minutes <u>30</u> (G) <u>21</u> P.S.I.		
Final Hydrostatic Pressure..... (H) <u>2074</u> 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

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M662
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#6 4352-4384 ALTAMONT	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/06/04
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#6 4352-4384 ALTAMONT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/06/03	Start Test Time	21:10:00
Final Test Date	2014/06/04	Final Test Time	03:00:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

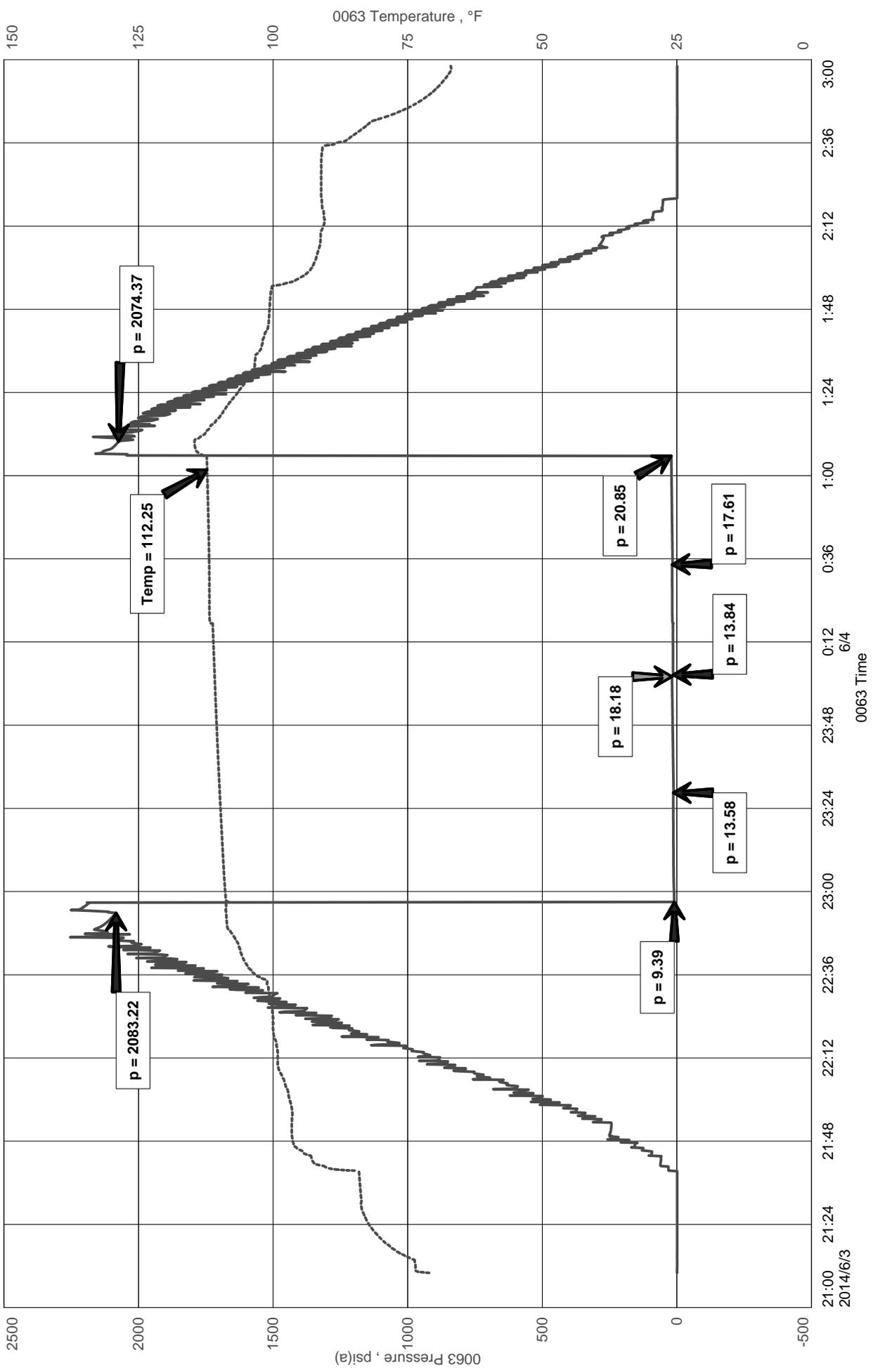
~10' MUD 100% MUD
~10' TOTAL FLUID

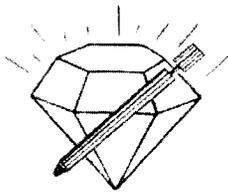
TOOL SAMPLE: ~100% DRLG MUD W/ A VERY THIN SCUM OF OIL, SLIGHT ODOR

RITCHIE EXPLORATION, INC.
 DST#6 4352-4384 ALTAMONT
 Start Test Date: 2014/06/03
 Final Test Date: 2014/06/04

BAKER 31CD UNIT #1
 Formation: DST#6 4352-4384 ALTAMONT
 Pool: WILDCAT
 Job Number: M662

BAKER 31CD UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BKR31CDUNT1DST7

TIME ON: 0140
TIME OFF: 0905

Company RITCHIE EXPLORATION, INC. Lease & Well No. BAKER 31CD UNIT #1
Contractor WW DRILLING, LLC RIG 8 Charge to RITCHIE EXPLORATION, INC.
Elevation 3054 KB Formation LOWER CHEROKEE LIME Effective Pay _____ Ft. Ticket No. M663
Date 6/5/2014 Sec. 31 Twp. _____ 15 S Range _____ 34 W County LOGAN State KANSAS
Test Approved By MAC ARMSTRONG Diamond Representative MIKE COCHRAN

Formation Test No. 7 Interval Tested from 4526 ft. to 4552 ft. Total Depth 4552 ft.
Packer Depth 4521 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4526 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4508 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4528 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 54 Drill Collar Length 122 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 5,000 P.P.M. Drill Pipe Length 4372 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 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.

Flow: 1st Open: A WEAK INTERMITTENT SB THAT INCREASED TO 1/8" (NO BB)
2nd Open: A VERY WEAK INTERMITTENT SB (NO BB)

Recovered ~2 ft. of VSOSDM ~100% MUD W/ A SCUM OF OIL
Recovered ~2 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Remarks: _____
TOOL SAMPLE: 2% OIL, 98% MUD W/ A TR OF WTR, SLIGHT ODOR

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 4:00 A.M. A.M. P.M. Time Started Off Bottom 7:00 A.M. A.M. P.M. Maximum Temperature 115°F
Initial Hydrostatic Pressure..... (A) 2204 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 9 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 117 P.S.I.
Final Flow Period..... Minutes 45 (E) 10 P.S.I. to (F) 11 P.S.I.
Final Closed In Period..... Minutes 60 (G) 80 P.S.I.
Final Hydrostatic Pressure..... (H) 2171 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

Pressure Survey Report

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	M663
Well Name	BAKER 31CD UNIT #1	Representative	MIKE COCHRAN
Unique Well ID	DST#7 4526-4552 LOWER CHEROKEE LIME	Well Operator	RITCHIE EXPLORATION, INC.
Surface Location	SEC.31-15S-34W LOGAN CO.KS.	Report Date	2014/06/05
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	MAC ARMSTRONG
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#7 4526-4552 LOWER CHEROKEE LIME		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/06/05	Start Test Time	01:40:00
Final Test Date	2014/06/05	Final Test Time	09:05:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

~2' VSOSDM ~100% MUD W/ A SCUM OF OIL
~2' TOTAL FLUID

TOOL SAMPLE: 2% OIL,98% MUD W/ A TR OF WTR, SLIGHT ODOR

RITCHIE EXPLORATION, INC.
DST#7 4526-4552 LOWER CHEROKEE LIME
Start Test Date: 2014/06/05
Final Test Date: 2014/06/05

BAKER 31CD UNIT #1
Formation: DST#7 4526-4552 LOWER CHEROKEE LIME
Pool: WILDCAT
Job Number: M663

BAKER 31CD UNIT #1

