

15-167-23662

7-14s-11w

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30037.D029

Page 1 of 2 Pages

Company Buffalo Resources, LLC Lease & Well No. Buffalo No. 1-7

Elevation 1753 KB Formation Topeka Effective Pay -- Ft. Ticket No. M029

Date 9-13-10 Sec. 17 Twp. 14S Range 11W County Russell State Kansas

Test Approved By David Barker Diamond Representative Michael Cochran

Formation Test No. 1 Interval Tested from 2,729 ft. to 2,766 ft. Total Depth 2,766 ft.

Packer Depth 2,724 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,729 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 2,711 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 2,763 ft. Recorder Number 13386 Cap. 3,875 psi

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

Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 2,697 ft. I.D. 3 1/2 in.

Chlorides 4,700 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 1 Anchor Length 37 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Good, 3 in., blow for 5 1/2 mins., then died after 17 mins. No blow back during shut-in.

2nd Open: No blow. Flushed tool, but no help. No blow back during shut-in.

Recovered 45 ft. of slightly oil specked mud = .640350 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: mud with some oil spots

Time Set Packer(s) 4:30 ~~AM~~ P.M. Time Started Off Bottom 6:15 ~~AM~~ P.M. Maximum Temperature 96°

Initial Hydrostatic Pressure (A) 1294 P.S.I.

Initial Flow Period Minutes 30 (B) 21 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period Minutes 60 (D) 999 P.S.I.

Final Flow Period Minutes 15 (E) 25 P.S.I. to (F) 29 P.S.I.

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

Final Hydrostatic Pressure (H) 1290 P.S.I.

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Drill Test Report

Company Name BUFFALO RESOURCES

Test Information

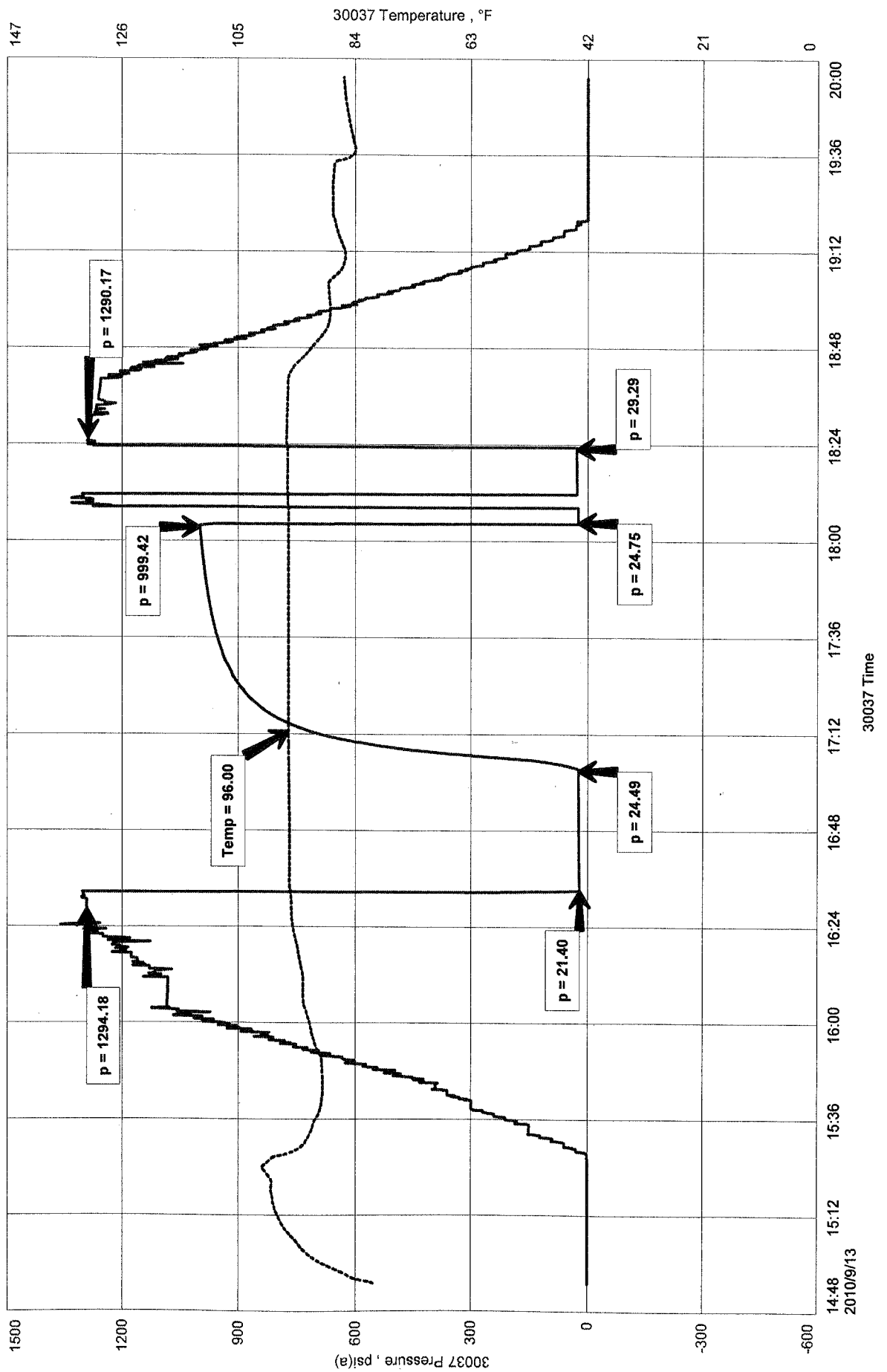
Gauge Name	30037
Test Type Name	

TOOL SAMPLE: MUD, OIL SPOTS

BUFFALO #1-7
Formation: DST#1 TOPEKA 2729-2766
Pool: WILDCAT
Job Number: M029

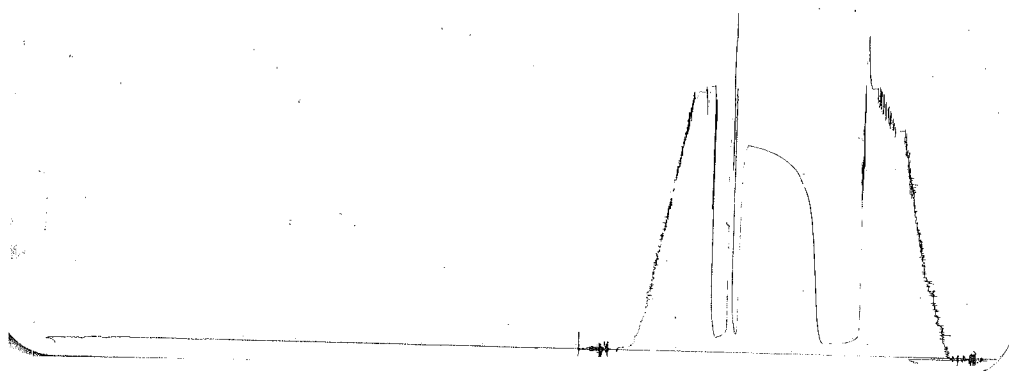
BUFFALO RESOURCES
DST#1 TOPEKA 2729-2766
Start Test Date: 2010/09/13
Final Test Date: 2010/09/13

BUFFALO #1-7



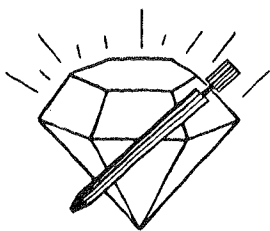
DST #1 outside 13386
Tepora

2729-2766
LOC 2763



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1294	1294
(B) First Initial Flow Pressure.....	21	21
(C) First Final Flow Pressure	24	24
(D) Initial Closed-in Pressure	999	999
(E) Second Initial Flow Pressure.....	25	25
(F) Second Final Flow Pressure.....	29	29
(G) Final Closed-in Pressure.....	--	--
(H) Final Hydrostatic Mud	1290	1290



DIAMOND TESTING
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STC 30037.D030

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Company Buffalo Resources, LLC Lease & Well No. Buffalo No. 1-7
Elevation 1753 KB Formation _____ Effective Pay _____ -- Ft. Ticket No. M030
Date 9-14-10 Sec. 17 Twp. 14S Range 11W County Russell State Kansas
Test Approved By David Barker Diamond Representative Michael Cochran
Formation Test No. 2 Interval Tested from 2,879 ft. to 2,896 ft. Total Depth 2,896 ft.
Packer Depth 2,874 ft. Size 6 3/4 in. Packer Depth _____ -- ft. Size _____ -- in.
Packer Depth 2,879 ft. Size 6 3/4 in. Packer Depth _____ -- ft. Size _____ -- in.
Depth of Selective Zone Set _____ ft.
Top Recorder Depth (Inside) 2,861 ft. Recorder Number 30037 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 2,893 ft. Recorder Number 13386 Cap. 3,875 psi
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi
Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Drill Collar Length _____ -- ft. I.D. _____ -- in.
Mud Type Chemical Viscosity 49 Weight Pipe Length _____ -- ft. I.D. _____ -- in.
Weight 9.2 Water Loss 8.0 cc. Drill Pipe Length 2,847 ft. I.D. 3 1/2 in.
Chlorides 4,700 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 17 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.
Blow: 1st Open: Weak, surface blow. Off bottom of bucket in 2 mins. No blow back during shut-in.
2nd Open: Good, surface blow. Off bottom of bucket in 35 secs. Gas to surface in 20 mins. Gas burned nicely; orange, (SEE GAS VOLUME REPORT.) No blow back during shut-in.
Recovered 218 ft. of gassy oil = 3.102140 bbls. (Grind out: 5%-gas; 95%-oil) Gravity: 42 @ 60°
Recovered 45 ft. of slightly muddy water with a scum of oil = .640350 bbls. (Grind out: 2%-mud; 98%-water)
Recovered 263 ft. of TOTAL FLUID = 3.742490 bbls. Chlorides: 75,000 Ppm PH: 7.5 RW: .026 @ 104°
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 100%-gas

Time Set Packer(s) 7:35 ~~PM~~ ^{A.M.} Time Started Off Bottom 11:50 ~~PM~~ ^{A.M.} Maximum Temperature 98°
Initial Hydrostatic Pressure (A) 1383 P.S.I.
Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 46 P.S.I.
Initial Closed In Period Minutes 60 (D) 970 P.S.I.
Final Flow Period Minutes 75 (E) 49 P.S.I. to (F) 134 P.S.I.
Final Closed In Period Minutes 90 (G) 961 P.S.I.
Final Hydrostatic Pressure (H) 1378 P.S.I.

DIAMOND TESTING

Page 2 of 3 Pages
Drill Test Report

General Information

Company Name BUFFALO RESOURCES

Contact	DAVID BARKER
Well Name	BUFFALO #1-7
Unique Well ID	DST#2 2879-2896
Surface Location	SEC 17-14S-11W RUSSELL Co. Ks.
Field	WILDCAT
Well Type	Vertical
Job Number	M030
Representative	MIKE COCHRAN
Well Operator	BUFFALO RESOURCES
Report Date	2010/09/14
Prepared By	MIKE COCHRAN

Test Information

Test Type	CONVENTIONAL
Formation	DST#2 2879-2896
Well Fluid Type	01 Oil
Test Purpose (AEUB)	

Start Test Time	05:45:00
Final Test Time	13:45:00

Start Test Date	2010/09/14
Final Test Date	2010/09/14

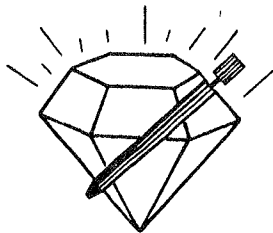
Gauge Name	30037
Test Type Name	

Test Results

RECOVERED: 218'GO 5% GAS, 95% OIL
45' WTR, 98% WTR, 2 % MUD

TOOL SAMPLE: 100% GAS

CHLORIDES 75,000 PPM
PH 7.5
RW .026@ 104 DEG.



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GAS VOLUME REPORT

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Company Buffalo Resources, LLC Lease & Well No. Buffalo No. 1-7
Date 9-14-10 Sec. 17 Twp. 14 S Rge. 11 W Location 500' FEL, SEC County Russell State KS
Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Formation _____ DST No. 2
Remarks: 2nd Open: Gas to surface in 20 mins. Gauged at 1,950 CF/D. Gas burned nicely.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Open Tool: 9:05 a.m.

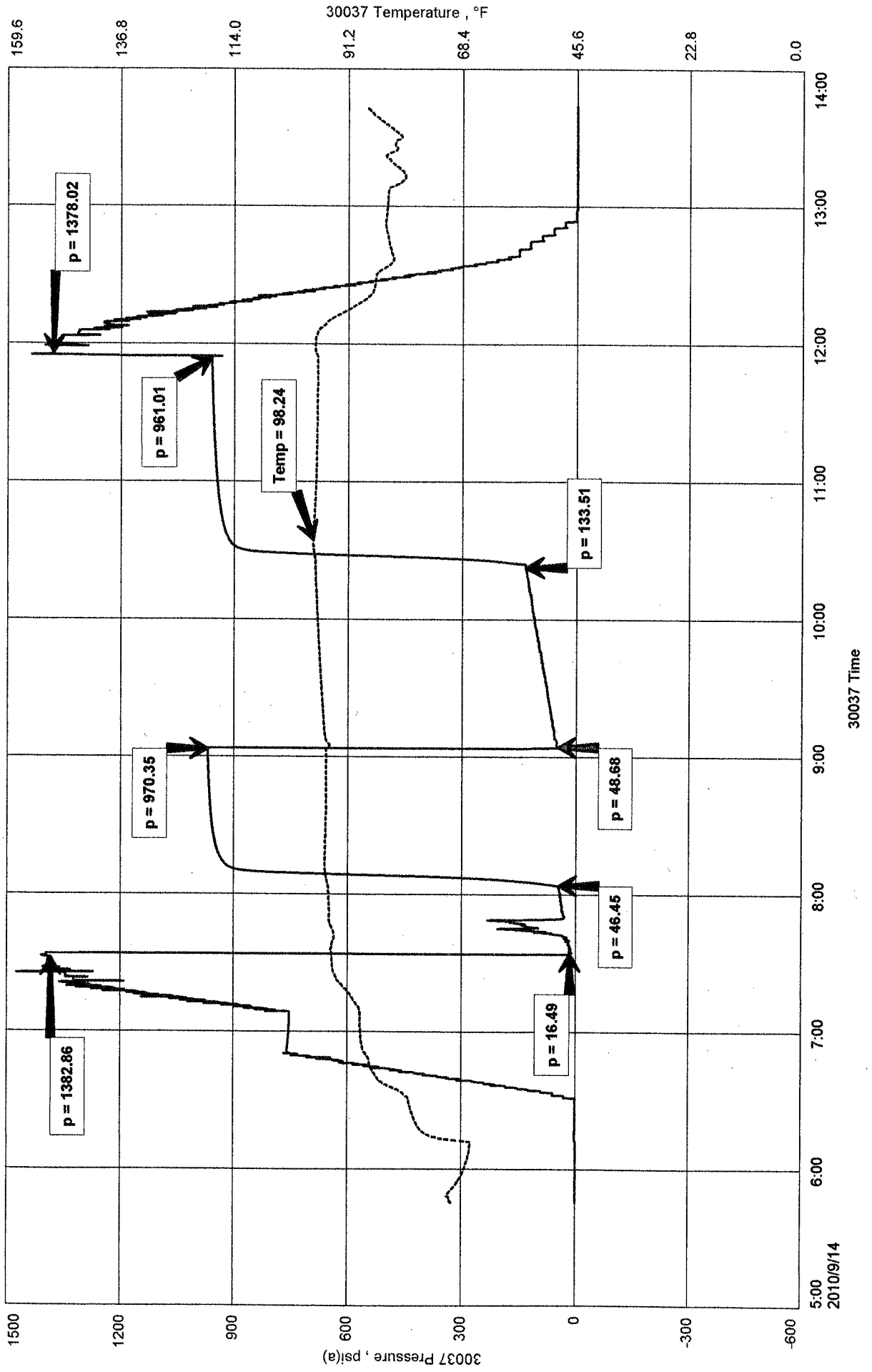
Time O'Clock	Orifice Size	Gauge	CF/D
9:30 a.m.	1 in.	Too Small To Measure	Too Small To Measure
9:50 a.m.	.125 in.	4 in.	1,060
9:55 a.m.	.125 in.	8 in.	1,500
10:00 a.m.	.125 in.	9 in.	1,590
10:05 a.m.	.125 in.	10.5 in.	1,700
10:10 a.m.	.125 in.	11 in.	1,750
10:15 a.m.	.125 in.	12.5 in.	1,870
10:20 a.m.	.125 in.	13.5 in.	1,950

Sample Taken - Yes
Final Flow: 13.5 oz./Sq. In.

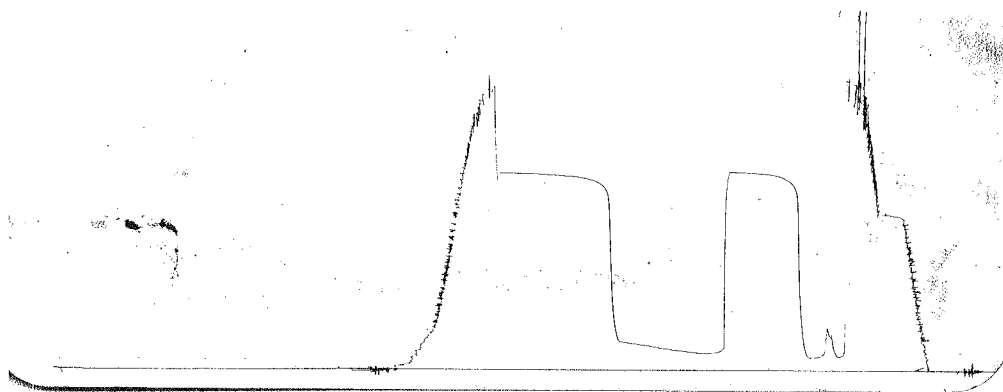
BUFFALO RESOURCES
DST#2 2879-2896
Start Test Date: 2010/09/14
Final Test Date: 2010/09/14

BUFFALO #1-7
Formation: DST#2 2879-2896
Pool: WILDCAT
Job Number: M030

BUFFALO #1-7

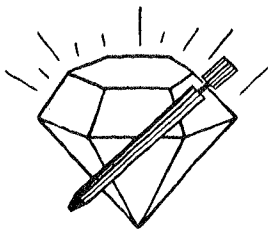


DST #2 Outside 13386 2879-2896
LOC 2893



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1383	1383
(B) First Initial Flow Pressure	16	16
(C) First Final Flow Pressure	46	46
(D) Initial Closed-in Pressure	970	970
(E) Second Initial Flow Pressure	49	49
(F) Second Final Flow Pressure	134	134
(G) Final Closed-in Pressure	961	961
(H) Final Hydrostatic Mud	1378	1378



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Company Buffalo Resources, LLC Lease & Well No. Buffalo No. 1-7

Elevation 1753 KB Formation _____ Effective Pay _____ -- Ft. Ticket No. M031

Date 9-15-10 Sec. 17 Twp. 14S Range 11W County Russell State Kansas

Test Approved By David Barker Diamond Representative Michael Cochran

Formation Test No. 3 Interval Tested from 2,957 ft. to 2,966 ft. Total Depth 2,966 ft.

Packer Depth 2,952 ft. Size 6 3/4 in. Packer Depth _____ -- ft. Size _____ -- in.

Packer Depth 2,957 ft. Size 6 3/4 in. Packer Depth _____ -- ft. Size _____ -- in.

Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) _____ 2,939 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) _____ 2,963 ft. Recorder Number 13386 Cap. 3,875 psi

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

Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Drill Collar Length _____ -- ft. I.D. _____ -- in.

Mud Type Chemical Viscosity 48 Weight Pipe Length _____ -- ft. I.D. _____ -- in.

Weight 9.0 Water Loss 7.8 cc. Drill Pipe Length 2,925 ft. I.D. 3 1/2 in.

Chlorides 5,800 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number _____ Anchor Length 9 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Fair, 1 in., surface blow immediately, building to 1 1/2 ins. after 10 mins. then decreasing to a very weak surface blow. No blow back during shut-in.

2nd Open: No blow. Flushed tool, but no help. Tool plugged.

Recovered 15 ft. of mud = .213450 bbls.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: mud with some oil spots

Time Set Packer(s) 11:10 ~~P.M.~~ A.M. Time Started Off Bottom 12:55 ~~P.M.~~ A.M. Maximum Temperature 98°

Initial Hydrostatic Pressure (A) 1438 P.S.I.

Initial Flow Period Minutes 30 (B) 17 P.S.I. to (C) 816 P.S.I.

Initial Closed In Period Minutes 60 (D) 812 P.S.I.

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

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

Final Hydrostatic Pressure (H) 1427 P.S.I.

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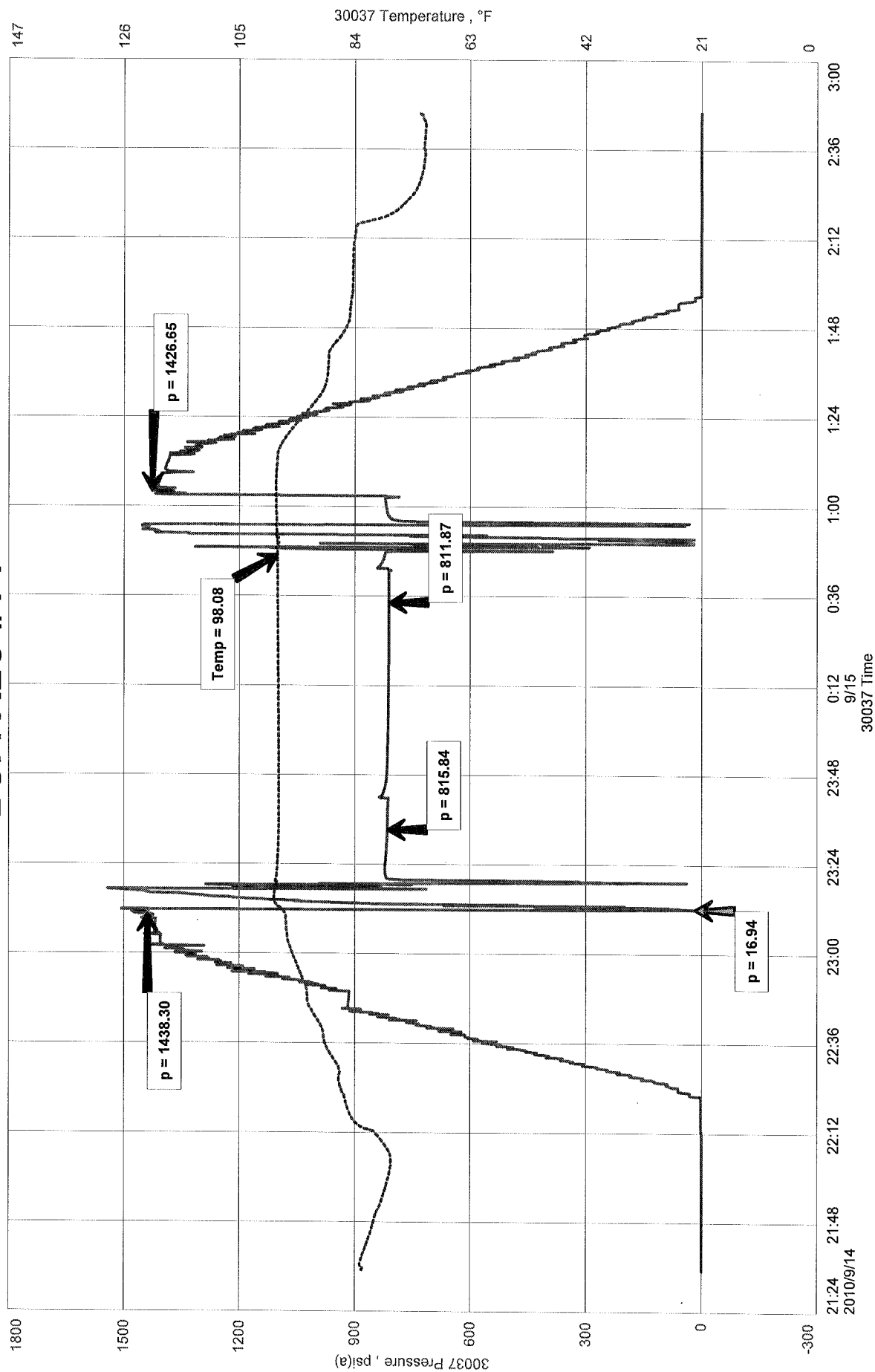
Drill Test Report

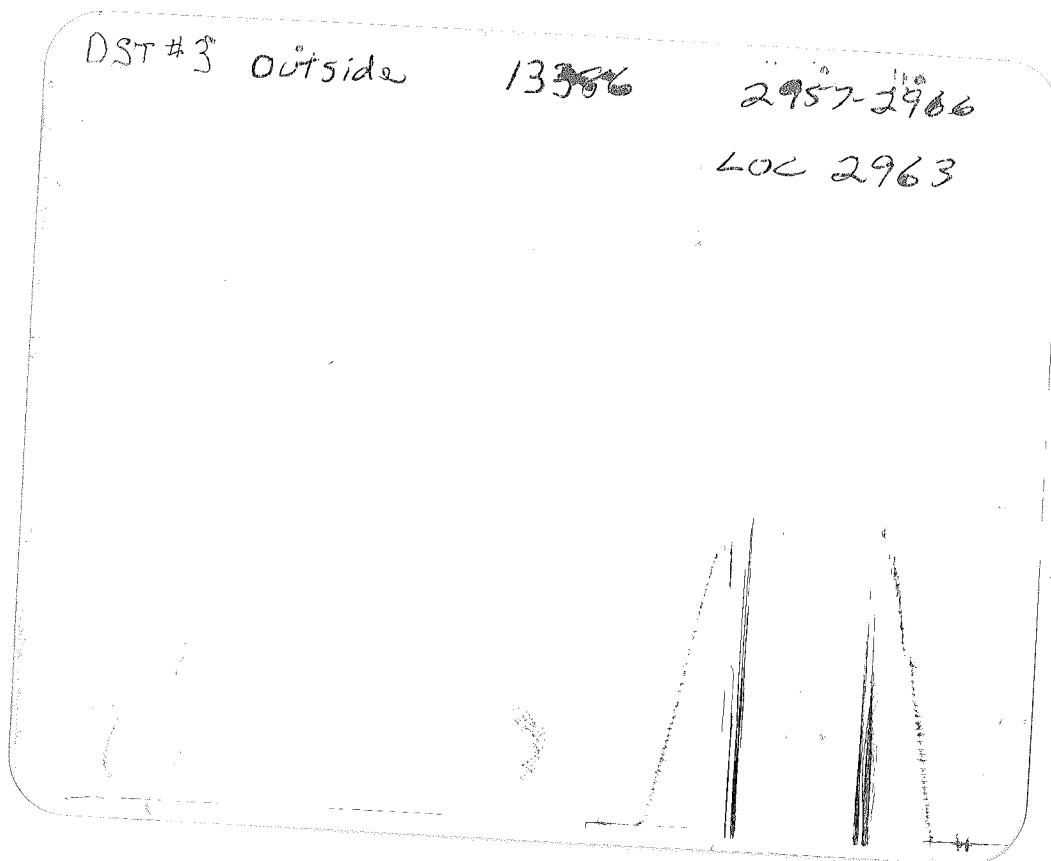
Company Name BUFFALO RESOURCES

BUFFALO RESOURCES
DST#3 2957-2966
Start Test Date: 2010/09/14
Final Test Date: 2010/09/15

BUFFALO #1-7
Formation: DST#3 2957-2966
Pool: WILDCAT
Job Number: M031

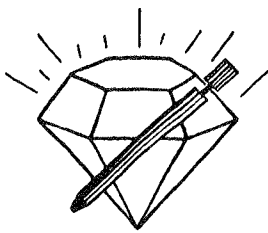
BUFFALO #1-7





This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1438	1438
(B) First Initial Flow Pressure.....	17	17
(C) First Final Flow Pressure	816	816
(D) Initial Closed-in Pressure	812	812
(E) Second Initial Flow Pressure.....	--	--
(F) Second Final Flow Pressure.....	--	--
(G) Final Closed-in Pressure.....	--	--
(H) Final Hydrostatic Mud	1427	1427



DIAMOND TESTING

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STC 30037.M032

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Company Buffalo Resources, LLC Lease & Well No. Buffalo No. 1-7
Elevation 1753 KB Formation _____ Effective Pay _____ -- Ft. Ticket No. M032
Date 9-15-10 Sec. 17 Twp. 14S Range 11W County Russell State Kansas
Test Approved By David Barker Diamond Representative Michael Cochran
Formation Test No. 4 Interval Tested from 2,955 ft. to 2,966 ft. Total Depth 2,966 ft.
Packer Depth 2,950 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,955 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.
Top Recorder Depth (Inside) 2,937 ft. Recorder Number 30037 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 2,963 ft. Recorder Number 13386 Cap. 3,875 psi
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi
Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Drill Collar Length _____ ft. I.D. _____ in.
Mud Type Chemical Viscosity 49 Weight Pipe Length _____ ft. I.D. _____ in.
Weight 9.0 Water Loss 7.6 cc. Drill Pipe Length 2,923 ft. I.D. 3 1/2 in.
Chlorides 5,600 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 11 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.
Blow: 1st Open: Weak, surface blow. Off bottom of bucket in 24 mins. No blow back during shut-in.
2nd Open: Weak, surface blow after 1 min. Off bottom of bucket in 30 mins. No blow back during shut-in.
Recovered 250 ft. of water = 3.557500 bbls. (Chlorides: 85,000 Ppm PH: 7.0 RW: .06 @ 91°)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: Water with oil spots

Time Set Packer(s) 11:00 A.M. ~~P.M.~~ Time Started Off Bottom 2:45 A.M. ~~P.M.~~ Maximum Temperature 99°
Initial Hydrostatic Pressure (A) 1393 P.S.I.
Initial Flow Period Minutes 30 (B) 7 P.S.I. to (C) 57 P.S.I.
Initial Closed In Period Minutes 60 (D) 822 P.S.I.
Final Flow Period Minutes 45 (E) 60 P.S.I. to (F) 127 P.S.I.
Final Closed In Period Minutes 90 (G) 821 P.S.I.
Final Hydrostatic Pressure (H) 1380 P.S.I.

DIAMOND TESTING

Page 2 of 2 Pages
Drill Test Report

General Information

Company Name BUFFALO RESOURCES

Contact	DAVID BARKER
Well Name	BUFFALO #1-7
Unique Well ID	DST#4 2955-2966
Surface Location	SEC 17-14S-11W RUSSELL Co. Ks.
Field	WILDCAT
Well Type	Vertical
Job Number	M032

Test Information

Test Type	CONVENTIONAL
Formation	DST#4 2955-2966
Well Fluid Type	01 Oil
Test Purpose (AEUB)	

Representative	MIKE COCHRAN
Well Operator	BUFFALO RESOURCES
Report Date	2010/09/15
Prepared By	MIKE COCHRAN

Start Test Date	2010/09/15	Start Test Time	09:39:00
Final Test Date	2010/09/15	Final Test Time	16:44:00

Gauge Name	30037
Test Type Name	

Test Results

RECOVERED: 250' WTR
250' TOTAL FLUID

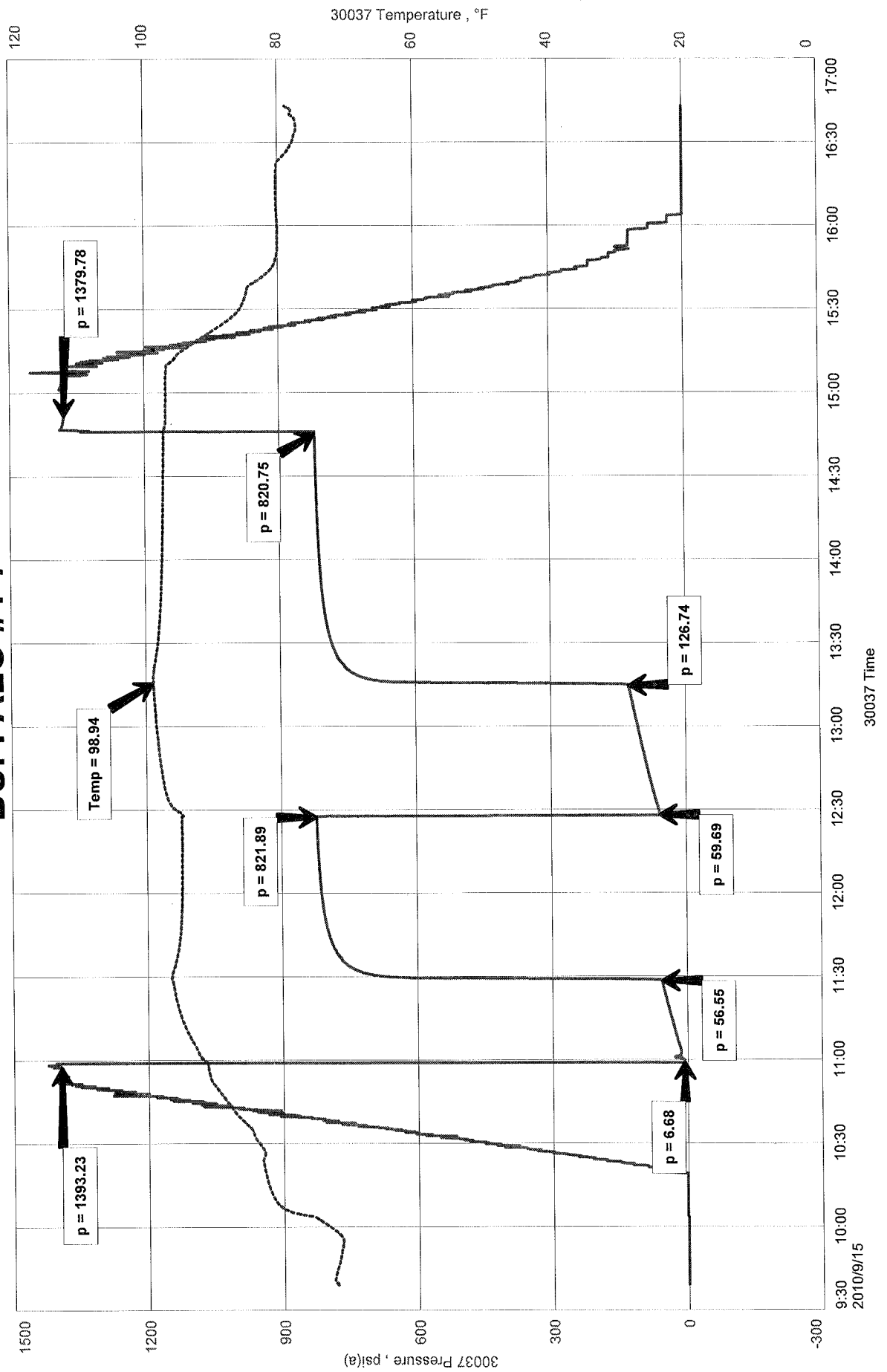
TOOLSAMPLE: WATER, OIL SPOTTED

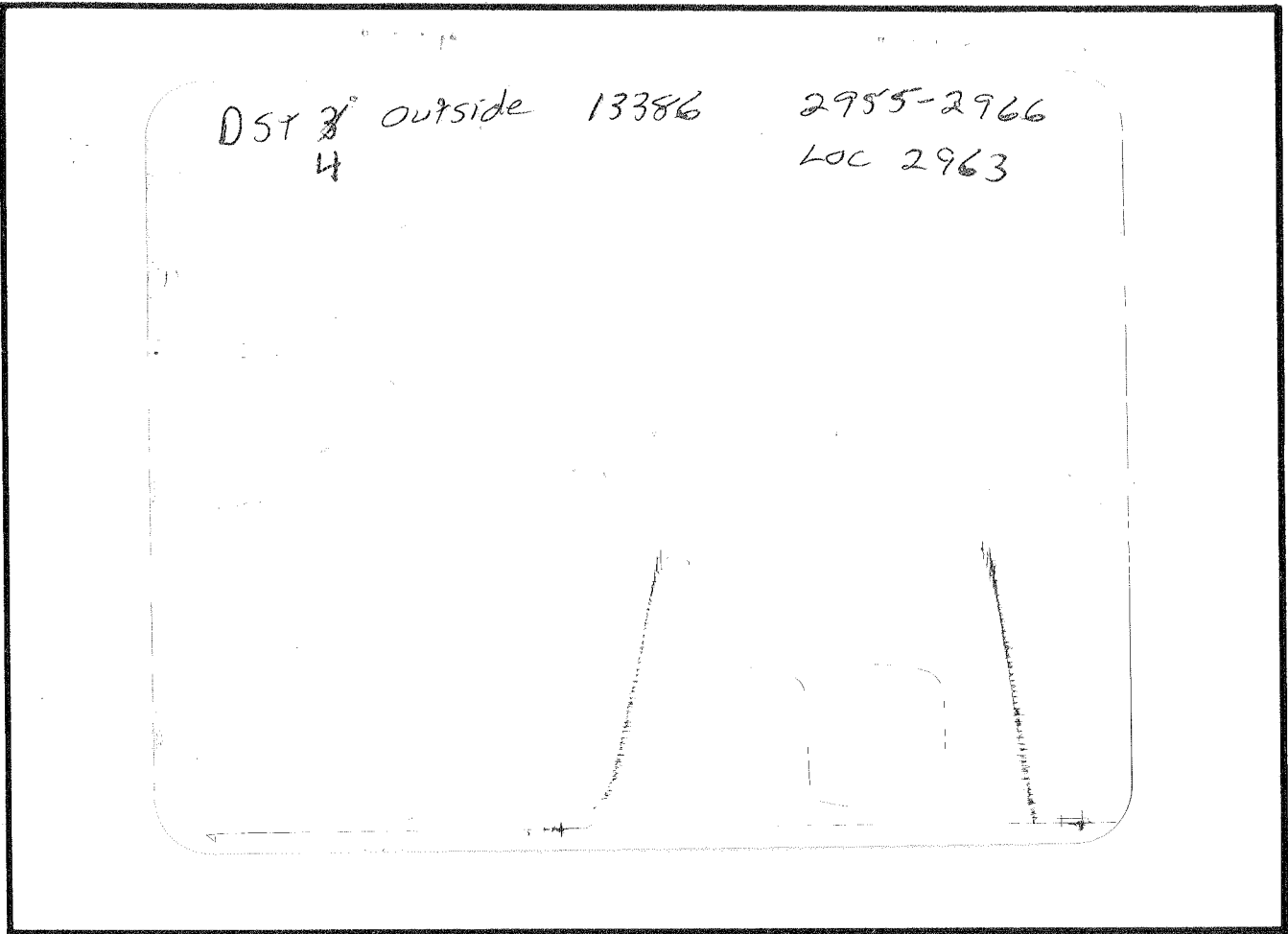
PH 7.0
CHLOR 85,000
RW .06@91 DEG

BUFFALO #1-7
Formation: DST#4 2955-2966
Pool: WILDCAT
Job Number: M032

BUFFALO RESOURCES
DST#4 2955-2966
Start Test Date: 2010/09/15
Final Test Date: 2010/09/15

BUFFALO #1-7





This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1393	1393
(B) First Initial Flow Pressure.....	7	7
(C) First Final Flow Pressure	57	57
(D) Initial Closed-in Pressure	822	822
(E) Second Initial Flow Pressure	60	60
(F) Second Final Flow Pressure.....	127	127
(G) Final Closed-in Pressure.....	821	821
(H) Final Hydrostatic Mud	1380	1380