



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
VE1DST1

Company Charles N. Griffin Lease & Well No. V & E No. 1
Elevation 1867 KB Formation Lansing/Kansas City "J & K" Effective Pay Ft. Ticket No. F425
Date 2-13-16 Sec. 21 Twp. 23S Range 12W County Stafford State Kansas
Test Approved By Bruce A. Reed Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3,574 ft. to 3,618 ft. Total Depth 3,618 ft.
Packer Depth 3,569 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,574 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,560 ft. Recorder Number 5586 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,579 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor VW Drilling, LLC - Rig 4 Drill Collar Length 120 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 56 Weight Pipe Length ft I.D. in.
Weight 8.5 Water Loss 8.0 cc. Drill Pipe Length 3,429 ft I.D. 3 1/2 in.
Chlorides 5,400 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 10' perf. w/34' drill pipe 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 blow increasing to 4 ins. No blow back during shut-in.
2nd Open: Weak blow increasing to 3 1/2 ins. No blow back during shut-in.

Recovered 135 ft. of very slightly oil specked, slightly water cut mud = .803850 bbls. (Grind out: <1%-oil; 3%-water; >96%-mud)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

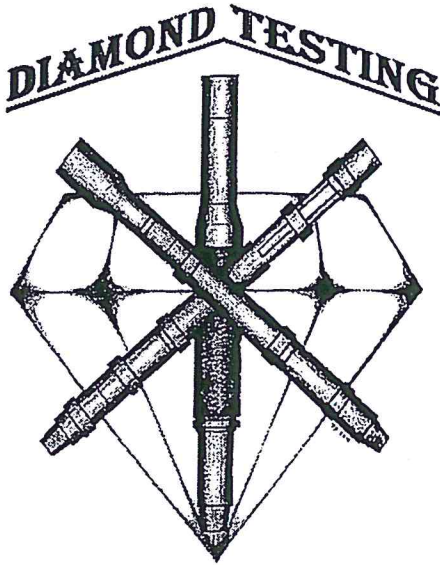
Remarks

Time Set Packer(s) 7:50 P.M. Time Started off Bottom 9:50 P.M. Maximum Temperature 103°
Initial Hydrostatic Pressure.....(A) 1684 P.S.I.
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 49 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1032 P.S.I.
Final Flow Period.....Minutes 30 (E) 52 P.S.I. to (F) 73 P.S.I.
Final Closed In Period.....Minutes 30 (G) 994 P.S.I.
Final Hydrostatic Pressure.....(H) 1681 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	V & E #1
Company Name	Charles N. Griffin
Formation	DST #1, L/KC "J&K" 3574'-3618'
Test Type	Bottom-Hole w/no extra equipment
Surface Location	Sec 21-23s-12w-Stafford County-KS
KB Elevation (SL)	1867.000
Gauge Name	5586
Start Test Date	2016/02/13
Start Test Time	18:02:00
Final Test Date	2016/02/14
Final Test Time	00:39:00
Job Number	F425
Contact	Charles Griffin
Site Contact	Bruce Reed

TEST RESULTS

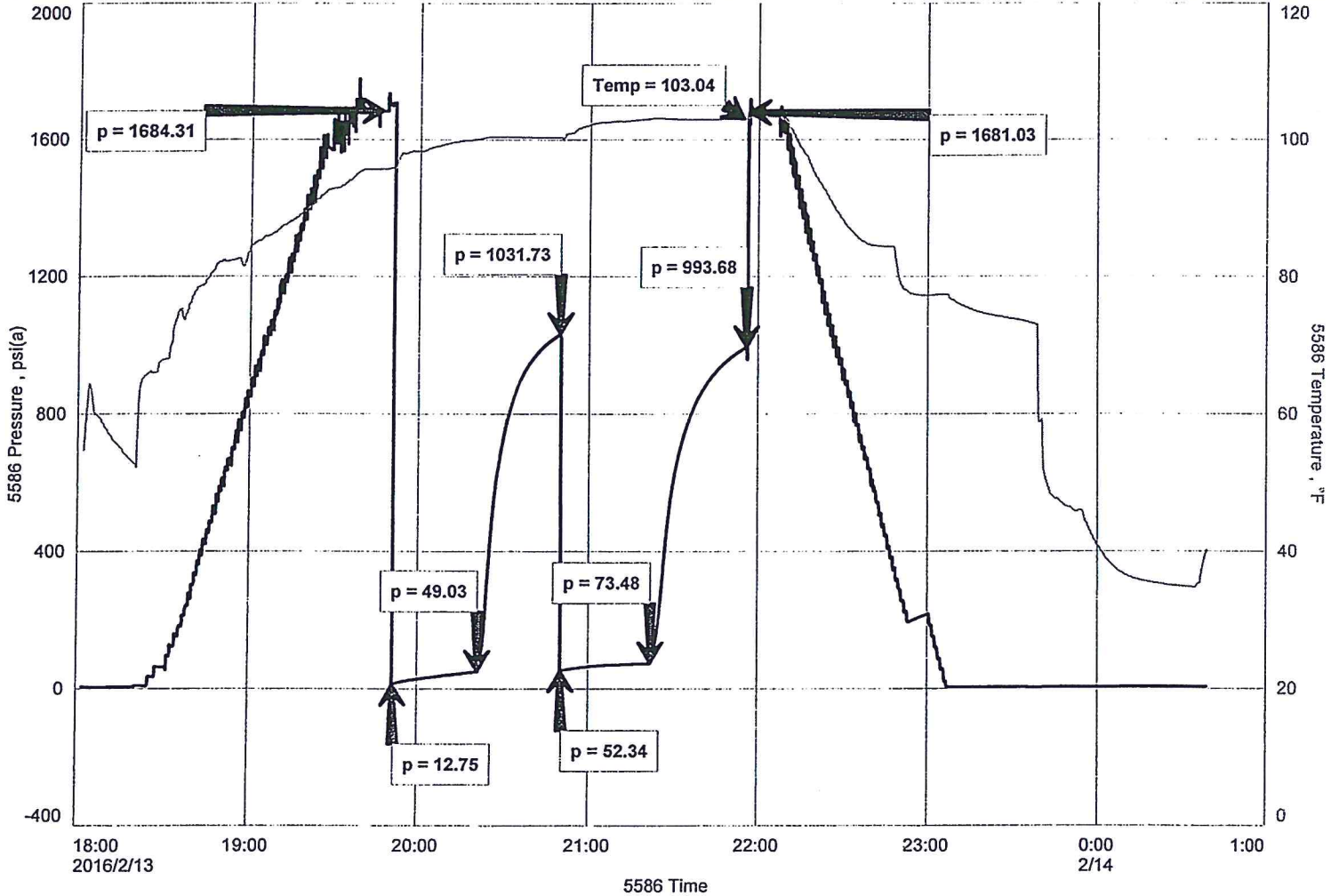
Initial flow, weak blow, increased to 4". No blowback.
 Final flow, weak blow, increased to 3.5". No blowback.

Recovered 135' of very slightly oil-specked, slightly oil cut mud. <1% oil, 3% wtr, >96% mud

Charles N. Griffin
 DST #1 L/KC "J&K" 3574'-3618'
 Start Test Date: 2016/02/13
 Final Test Date: 2016/02/14

V & E #1
 Formation: DST #1 L/KC "J&K" 3574'-3618'
 Pool: Pool Ext
 Job Number: F425

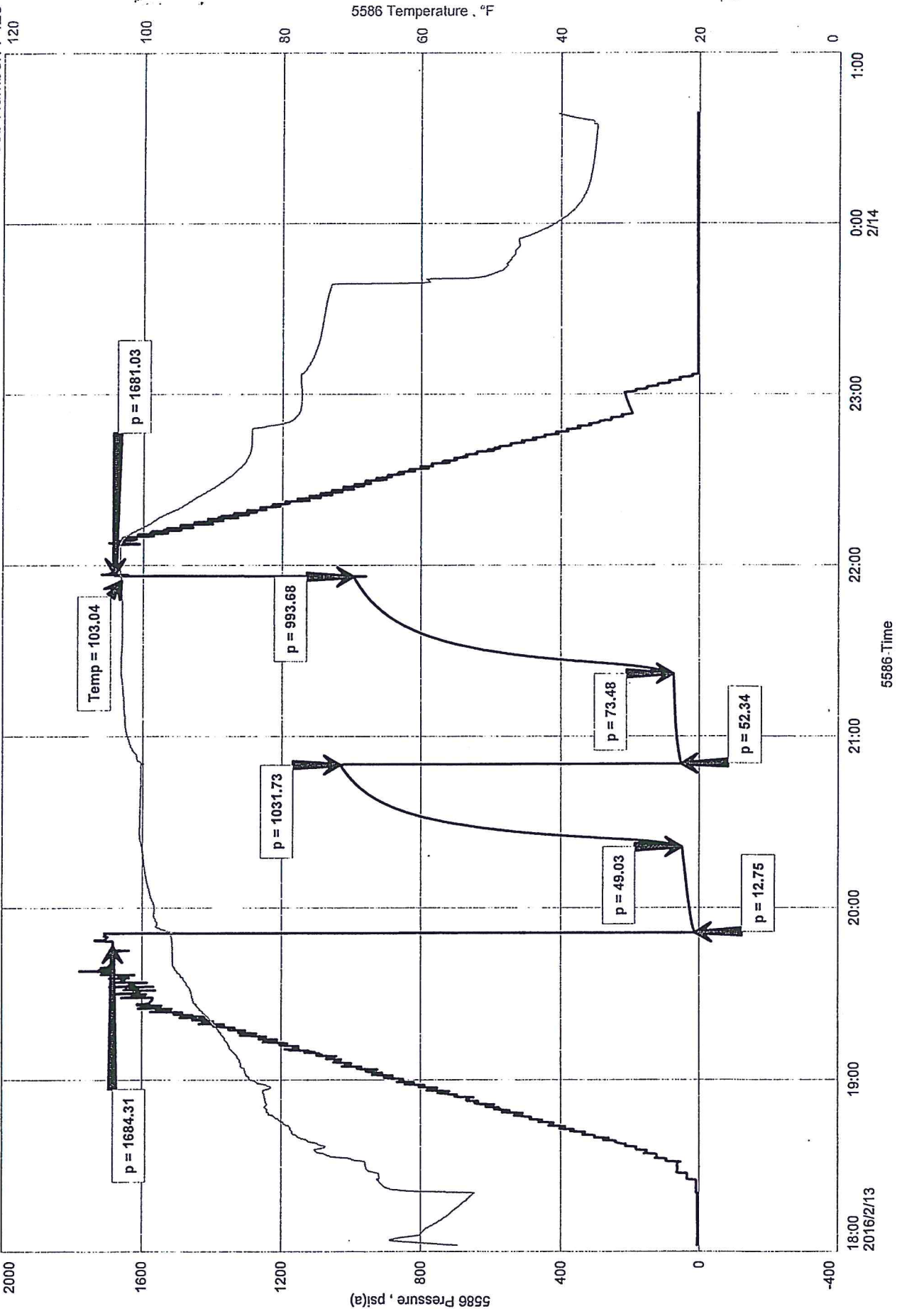
V & E #1



V & E #1
 Formation: DST #1 L/KC "J&K" 3574'-3618'
 Pool: Pool Ext
 Job Number: F425

Charles N. Griffin
 DST #1 L/KC "J&K" 3574'-3618'
 Start Test Date: 2016/02/13
 Final Test Date: 2016/02/14

V & E #1





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
VE1DST2

Company Charles N. Griffin Lease & Well No. V & E No. 1
Elevation 1867 KB Formation Simpson Sand Effective Pay _____ Ft. Ticket No. F426
Date 2-14-16 Sec. 21 Twp. 23S Range 12W County Stafford State Kansas
Test Approved By Bruce A. Reed Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3,830 ft. to 3,866 ft. Total Depth 3,866 ft.
Packer Depth 3,825 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,830 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,816 ft. Recorder Number 5586 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,831 ft. Recorder Number 5584 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor WW Drilling, LLC - Rig 4 Drill Collar Length 120 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 52 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.0 Water Loss 10.2 cc. Drill Pipe Length 3,685 ft I.D. 3 1/2 in.
Chlorides 12,200 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 36 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: Strong blow increasing. Off bottom of bucket in 1 min. No blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket in 1 1/2 mins. No blow back during shut-in.

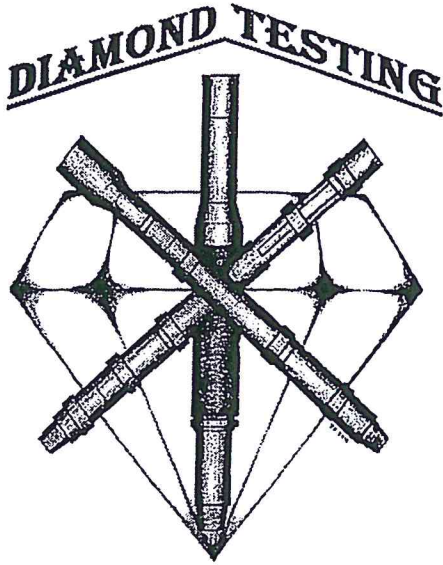
Recovered 300 ft. of mud cut water = 4.269000 bbls. (Grind out: 85%-water; 15%-mud)
Recovered 2,300 ft. of water = 31.611800 bbls. (Grind out: 100%-water) Chlorides: 66,000 Ppm PH: 7.0 RW: .28 @ 43°
Recovered 2,600 ft. of TOTAL FLUID = 35.880800 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks _____

Time Set Packer(s) 11:35 P.M. Time Started off Bottom 2:20 A.M. Maximum Temperature 124°
Initial Hydrostatic Pressure.....(A) 1802 P.S.I.
Initial Flow Period.....Minutes 30 (B) 207 P.S.I. to (C) 951 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 1212 P.S.I.
Initial Flow Period.....Minutes 30 (E) 955 P.S.I. to (F) 1169 P.S.I.
Initial Closed In Period.....Minutes 60 (G) 1218 P.S.I.
Initial Hydrostatic Pressure.....(H) 1798 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	V & E #1
Company Name	Charles N Griffin
Formation	DST #2, Simpson Sand, 3830'-3866'
Test Type	Bottom-Hole (no extra equipment)
Surface Location	Sec 21-23s-12w-Stafford Co.-KS
KB Elevation (SL)	1867.000
Gauge Name	5586
Start Test Date	2016/02/14
Start Test Time	21:55:00
Final Test Date	2016/02/15
Final Test Time	05:02:00
Job Number	F426
Contact	Charles Griffin
Site Contact	Bruce Reed

TEST RESULTS

Initial flow, strong blow BOB in 1 minute. No blowback.
 Final flow, strong blow BOB in 1.5 minutes. No blowback.

TOTAL RECOVERED FLUID: 2,600'

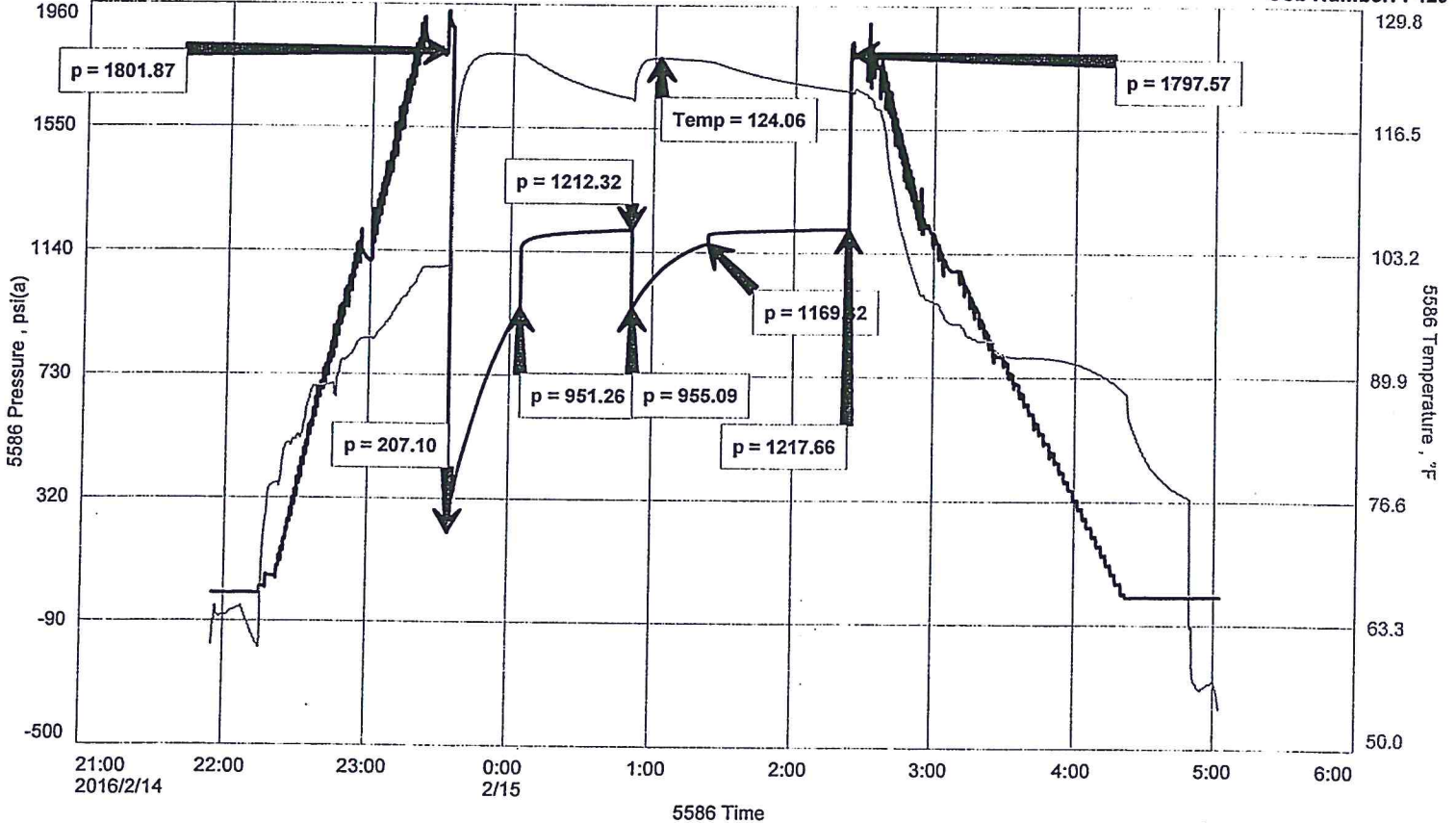
300' MCW 85% wtr, 15% mud
 2300' Water 100% wtr

----- Chlorides: 66,000 PPM ----- PH: 7.0 ----- RW: .28 ohm @ 43 Deg F -----

Charles N. Griffin
 DST #2 Simpson Sand 3830'-3866'
 Start Test Date: 2016/02/14
 Final Test Date: 2016/02/15

V & E #1
 Formation: DST #2 Simpson Sand 3830'-3866'
 Pool: Pool Ext
 Job Number: F426

V & E #1



Charles N. Griffin

DST #2 Simpson Sand 3830'-3866'

Start Test Date: 2016/02/14

Final Test Date: 2016/02/15

V & E #1

V & E #1

Formation: DST #2 Simpson Sand 3830'-3866'

Pool: Pool Ext

Job Number: F426

