



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
HAZLETTA48DST1

Company Vess Oil Corporation Lease & Well No. Hazlett "A" No. 48
Elevation 1347 KB Formation Viola Effective Pay _____ Ft. Ticket No. F459
Date 12-9-16 Sec. 34 Twp. 25S Range 5E County Butler State Kansas
Test Approved By Roger L. Martin Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,407 ft. to 2,490 ft. Total Depth 2,490 ft.
Packer Depth 2,402 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,407 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,412 ft. Recorder Number 5951 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,413 ft. Recorder Number 5586 Cap. 5,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor C & G Drilling Company - Rig 2 Drill Collar Length 236 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 37 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.4 Water Loss 6.4 cc. Drill Pipe Length 2,143 ft I.D. 3 1/2 in.
Chlorides 900 P.P.M. Test Tool Length 28 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 5 Anchor Length 18' perf. w/65' 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: Blow increasing to 9 1/2 ins. No blow back during shut-in.

2nd Open: Blow increasing to 7 1/2 ins. No blow back during shut-in.

Recovered 30 ft. of oil specked, water cut mud = .147600 bbls. (Grind out: 2%-oil; 5%-water; 93%-mud)
Recovered 100 ft. of slightly oil specked, watery mud = .492000 bbls. (Grind out: <1%-oil; 30%-water; >69%-mud)
Recovered 60 ft. of mud cut water = .295200 bbls. (Grind out: 90%-water; 10%-mud)
Recovered 190 ft. of TOTAL FLUID = .934800 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: <1%-oil; >99%-water (Chlorides: 44,000 Ppm PH: 6.0 RW: .38 @ 30°)

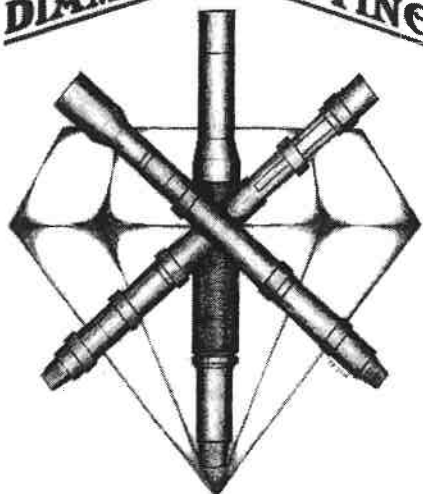
Time Set Packer(s) 6:28 P.M. Time Started off Bottom 9:28 P.M. Maximum Temperature 93°
Initial Hydrostatic Pressure.....(A) 1178 P.S.I.
Initial Flow Period.....Minutes 30 (B) 30 P.S.I. to (C) 69 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 691 P.S.I.
Final Flow Period.....Minutes 45 (E) 73 P.S.I. to (F) 109 P.S.I.
Final Closed In Period.....Minutes 60 (G) 657 P.S.I.
Final Hydrostatic Pressure.....(H) 1175 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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

DIAMOND TESTING



TEST INFORMATION

Well Name	Hazlett "A" #48
Company Name	Vess Oil Corporation
Formation	DST #1, Viola 2407'-2490'
Test Type	Bottom-Hole w/Jars & Safety Joint
Surface Location	Sec 34-25S-5E-Butler Co.-KS
KB Elevation (SL)	1347.000
Gauge Name	5951
Start Test Date	2016/12/09
Start Test Time	15:44:00
Final Test Date	2016/12/09
Final Test Time	23:49:00
Job Number	F459
Contact	Casey Coats
Site Contact	Roger Martin

TEST RESULTS

Initial flow, blow increased to 9.5". No blowback.

Final flow, blow increased to 7.5". No blowback.

TOTAL FLUID RECOVERED: 190'

30' OSWCM 2% oil, 5% wtr, 93% mud

100' SOSWM <1% oil, 30% wtr, >69% mud

60' MCW 90% wtr, 10% mud

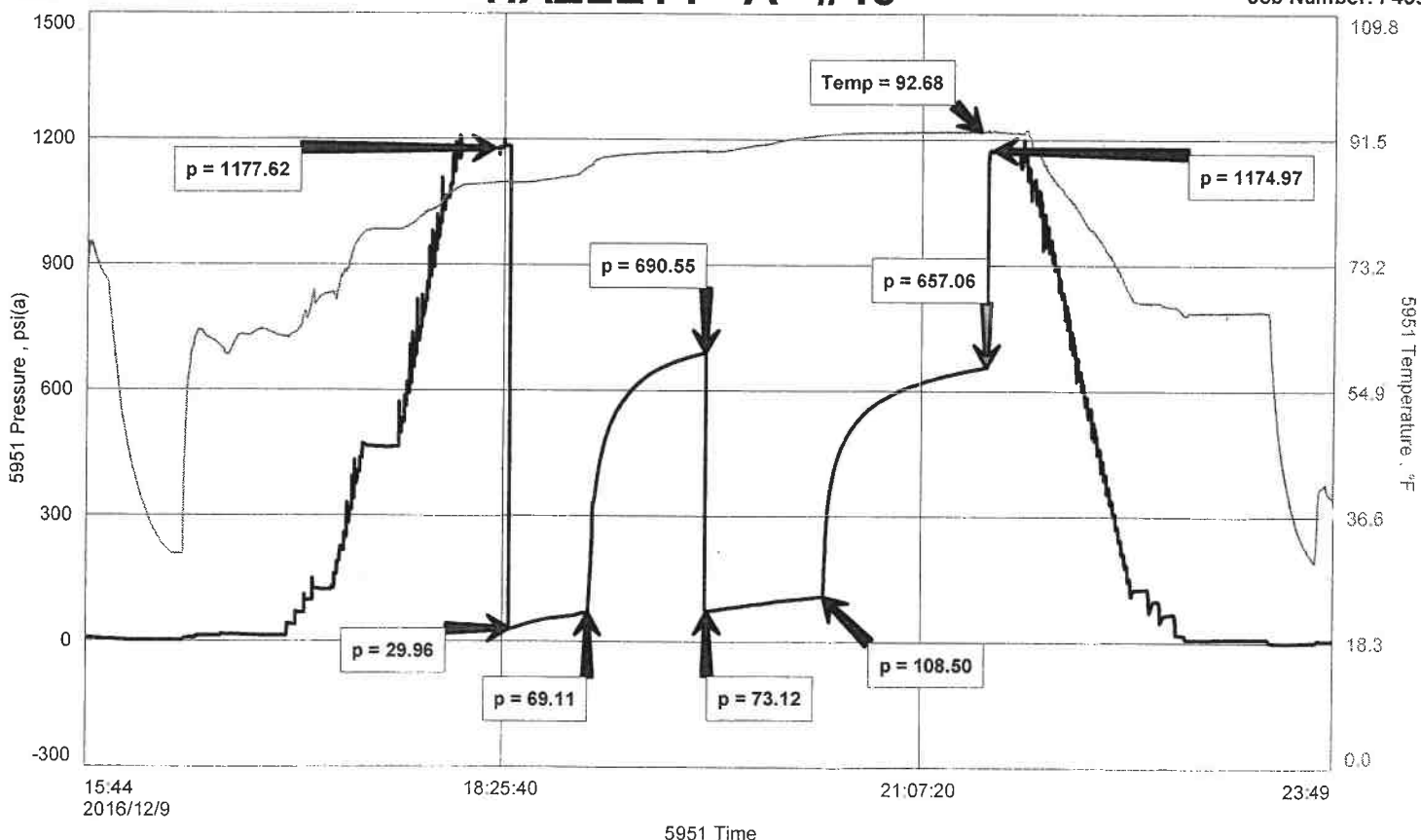
----- Tool sample: SOSW, <1% oil, >99% wtr

----- Chlorides: 44,000 PPM ----- PH: 6.0 ----- RW: .38 ohm @ 30 F -----

Vess Oil Corporation
DST #1 Viola 2407'-2490'
Start Test Date: 2016/12/09
Final Test Date: 2016/12/09

Hazlett "A" #48
Formation: Viola 2407'-2490'
Pool: Infield
Job Number: F459

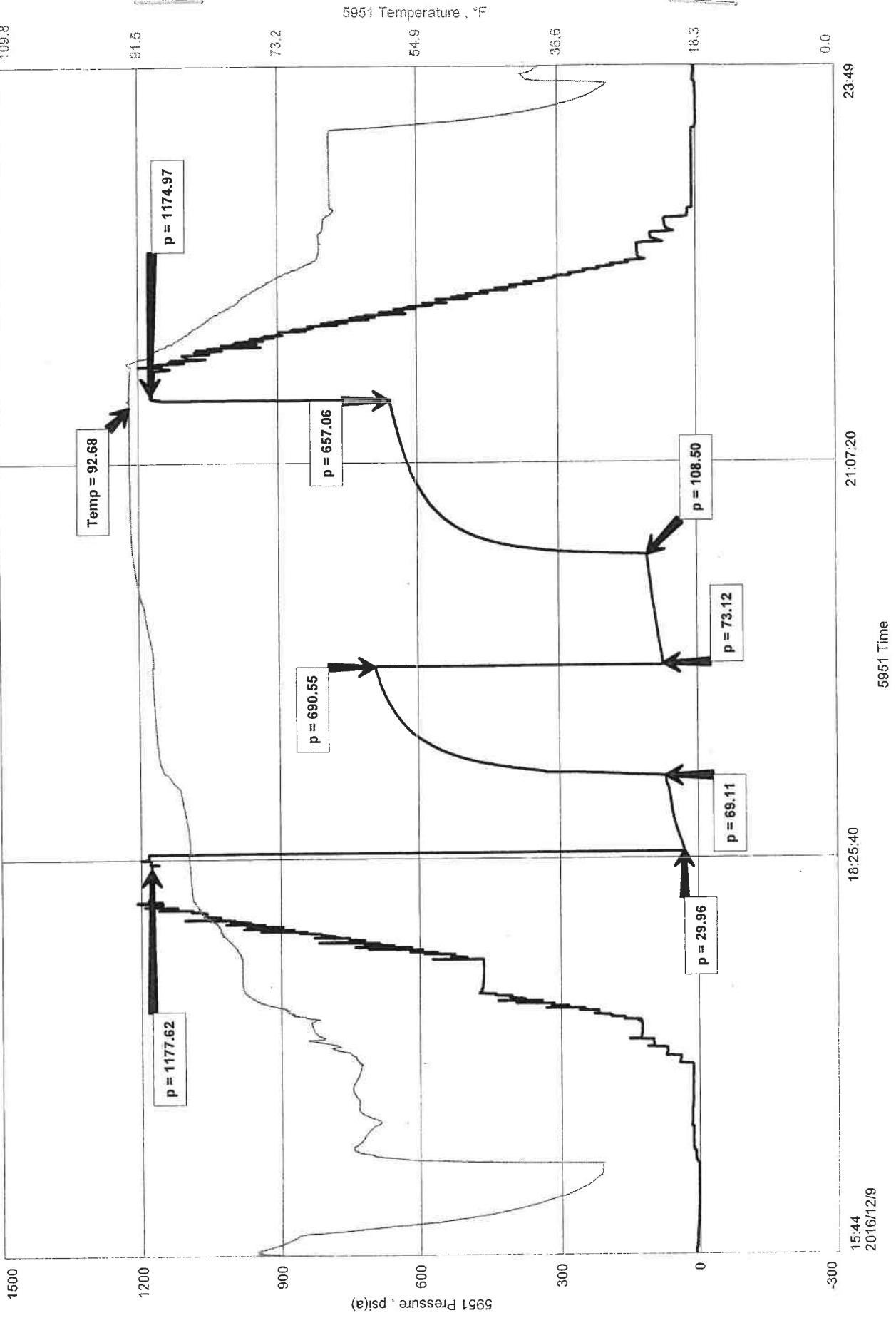
HAZLETT "A" #48



Vess Oil Corporation
DST #1 Viola 2407'-2490'
Start Test Date: 2016/12/09
Final Test Date: 2016/12/09

Hazlett "A" #48
Formation: Viola 2407'-2490'
Pool: Infield
Job Number: F459

HAZLETT "A" #48





DIAMOND TESTING, LLC
 P.O. Box 157
HOISINGTON, KANSAS 67544
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 HAZLETTA48DST2

Company Vess Oil Corporation Lease & Well No. Hazlett "A" No. 48
 Elevation 1347 KB Formation Simpson Effective Pay _____ Ft. Ticket No. F460
 Date 12-10-16 Sec. 34 Twp. 25S Range 5E County Butler State Kansas
 Test Approved By Roger L. Martin Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 2,494 ft. to 2,509 ft. Total Depth 2,509 ft.
 Packer Depth 2,489 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 2,494 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,496 ft. Recorder Number 5951 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 2,497 ft. Recorder Number 5586 Cap. 5,000 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor C & G Drilling Company - Rig 2 Drill Collar Length 236 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 37 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 9.4 Water Loss 6.4 cc. Drill Pipe Length 2,230 ft I.D. 3 1/2 in.
 Chlorides 900 P.P.M. Test Tool Length 28 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number 5 Anchor Length 15 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: Blow increasing to 5 ins. No blow back during shut-in.
 2nd Open: Blow increasing to 3 1/2 ins. No blow back during shut-in.

Recovered 90 ft. of mud cut water w/a very slight trace oil show = .442800 bbls. (Grind out: <1%-oil; 80%-water; 20%-mud)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: <1%-oil; >64%-water; 35%-mud (Chlorides: 33,000 Ppm PH: 6.0 RW: .57 @ 35°)

Time Set Packer(s) 1:00 P.M. Time Started off Bottom 4:00 P.M. Maximum Temperature 96°
 Initial Hydrostatic Pressure.....(A) 1211 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 26 P.S.I. to (C) 44 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 94 P.S.I.
 Final Flow Period.....Minutes 45 (E) 46 P.S.I. to (F) 61 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 95 P.S.I.
 Final Hydrostatic Pressure.....(H) 1204 P.S.I.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Hazlett "A" #48
Company Name	Vess Oil Corporation
Formation	DST #2, Simpson 2494'-2509'
Test Type	Bottom-Hole w/Jars & Safety Joint
Surface Location	Sec 34-25S-5E-Butler Co.-KS
KB Elevation (SL)	1347.000
Gauge Name	5951
Start Test Date	2016/12/10
Start Test Time	10:53:00
Final Test Date	2016/12/10
Final Test Time	18:24:00
Job Number	F460
Contact	Casey Coats
Site Contact	Roger Martin

TEST RESULTS

Initial flow, blow increased to 5". No blowback.
 Final flow, blow increased to 3.5". No blowback.

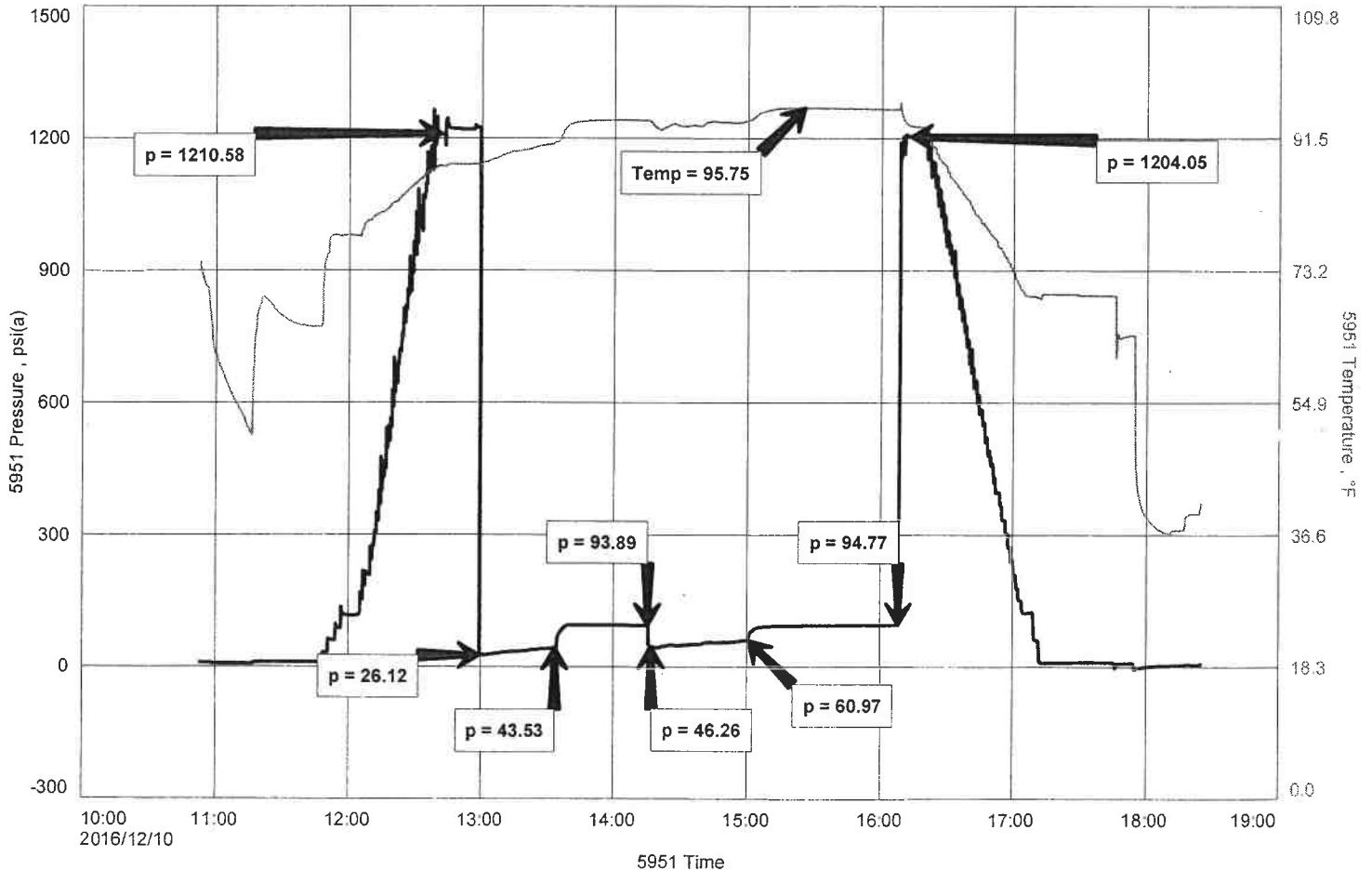
Recovered 90' of mud cut water with a very slight oil show. <.1% oil, 80% wtr, 20% mud

----- Tool sample: SOSMW, <1% oil, >4% wtr, 35 mud
 ----- Chlorides: 33,000 PPM ----- PH: 6.0 ----- RW: .38 ohm @ 30 F -----

Vess Oil Corporation
 DST #2 Simpson 2494'-2509'
 Start Test Date: 2016/12/10
 Final Test Date: 2016/12/10

Hazlett "A" #48
 Formation: Simpson 2494'-2509'
 Pool: Infield
 Job Number: F460

HAZLETT "A" #48



Hazlett "A" #48
 Formation: Simpson 2494'-2509'
 Pool: Infield
 Job Number: F460

Vess Oil Corporation
 DST #2 Simpson 2494'-2509'
 Start Test Date: 2016/12/10
 Final Test Date: 2016/12/10

HAZLETT "A" #48

