

DIAMOND TESTING

Drill Test Report

General Information

Company Name LD DRLG

Contact LD DAVIS
Well Name CHRISTIANSON #3-15
Unique Well ID DST#1 LANS A-F 3227-3312
Surface Location SEC 15-21S-12W STAFFORD CO KS
Field WILDCAT
Well Type Vertical

Job Number M036
Representative MIKE COCHRAN
Well Operator LD DRLG
Report Date 2010/10/08
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#1 LANS A-F 3227-3312
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 20:20:00
Final Test Time 04:15:00

Start Test Date 2010/10/07
Final Test Date 2010/10/08

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 300' G.I.P.
6' CLEAN OIL
183' GOWM 6% GAS, 6% OIL, 41% WTR, 47% MUD
310' OGW 5% GAS, 4% OIL, 91% WTR
120' OILY WATER 4% OIL, 96% WTR
619' TOTAL FLUID

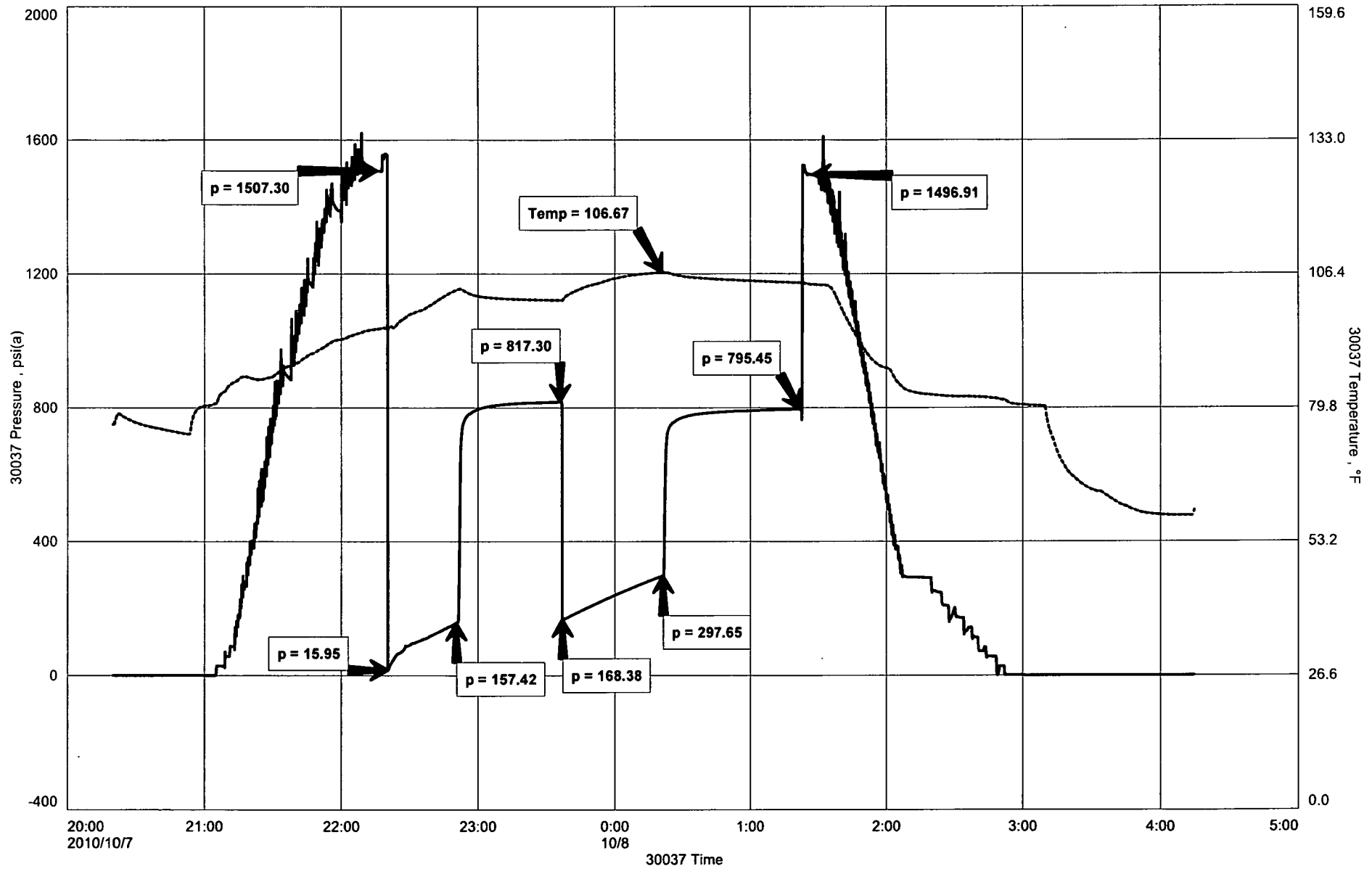
TOOLSAMPLE: 2% GAS, 97% WTR, 1% MUD

PH 7.5
CHLOR 72,0000 PPM
RW .10@58 DEG
GRAVITY 35.3 @ 60 DEG

LD DRLG
DST#1 LANS A-F 3227-3312
Start Test Date: 2010/10/07
Final Test Date: 2010/10/08

CHRISTIANSON #3-15
Formation: DST#1 LANS A-F 3227-3312
Pool: WILDCAT
Job Number: M036

CHRISTIANSON #3-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST1

TIME ON: 20:20 (10-07)
TIME OFF: 04:15 (10-08)

Company L.D. DRLG Lease & Well No. CHRISTIANSON #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation LANS. A-F Effective Pay _____ Ft. Ticket No. M036
Date 10-7-10 Sec. 15 Twp. _____ 21 S Range _____ 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3227 ft. to 3312 ft. Total Depth 3312 ft.
Packer Depth 3222 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3227 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3216 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3309 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 65 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 3082 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 85 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: GSB, BOB 7 1/2 MIN (1" BB)
2nd Open: GSB, BOB 11 MIN (3/4" BB)

| | |
|--|---------------|
| Recovered <u>300 ft.</u> of <u>G.I.P.</u> | |
| Recovered <u>6 ft.</u> of <u>CLEAN OIL GRAVITY 35.3@60 DEG</u> | |
| Recovered <u>183 ft.</u> of <u>GOWM 6% GAS, 6% OIL, 41% WTR, 47% MUD</u> | |
| Recovered <u>310 ft.</u> of <u>OGW 5% GAS, 4% OIL, 91% WTR</u> | |
| Recovered <u>120 ft.</u> of <u>OILY WTR 4% OIL, 96% WTR</u> | Price Job |
| Recovered <u>619 ft.</u> of <u>TOTAL FLUID PH 7.5</u> | Other Charges |
| Remarks: <u>CHLOR 72,000 PPM</u> | Insurance |
| <u>RW .10@58 DEG</u> | |
| <u>TOOL SAMPLE: 2% GAS, 97% WTR, 1% MUD</u> | Total |

Time Set Packer(s) 10:20 P.M. A.M. P.M. Time Started Off Bottom 1:20 A.M. A.M. P.M. Maximum Temperature 107

Initial Hydrostatic Pressure..... (A) 1507 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 157 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 817 P.S.I.
Final Flow Period..... Minutes 45 (E) 168 P.S.I. to (F) 298 P.S.I.
Final Closed In Period..... Minutes 60 (G) 795 P.S.I.
Final Hydrostatic Pressure..... (H) 1497 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSON 3-15
Unique Well ID DST#2 3355-3420 LANS H,I,J
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type Vertical

Job Number M037
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/08
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#2 3355-3420 LANS H,I,J
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 13:48:00
Final Test Time 20:33:00

Start Test Date 2010/10/08
Final Test Date 2010/10/08

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 124' SOSM
124' MW 80% WTR, 20% MUD
120' WATER 97% WTR, 3% MUD
368' TOTAL FLUID

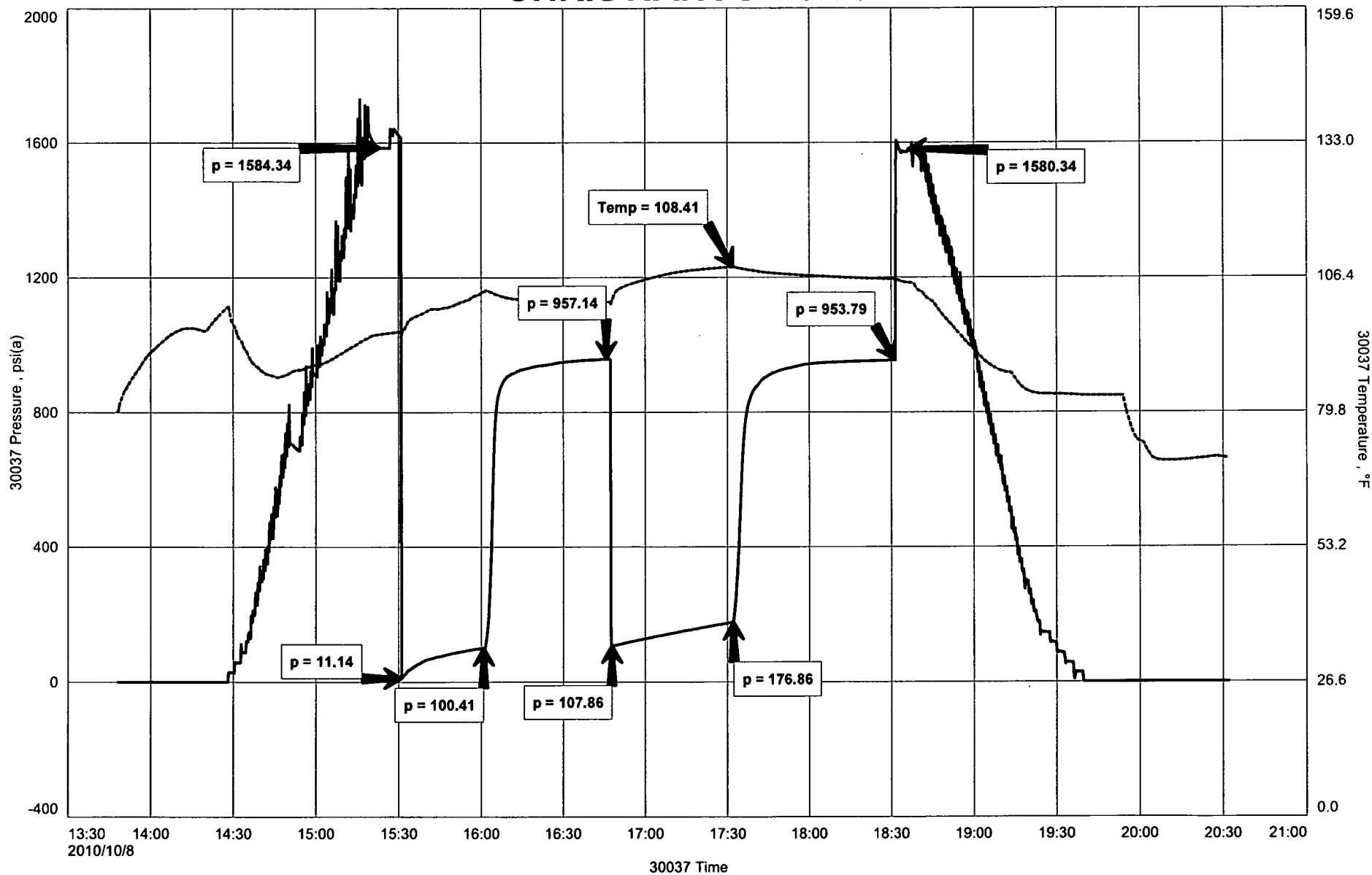
TOOL SAMPLE: 1% OIL, 99% WTR

PH 8.5
CHLOR 42,000 PPM
RW .14@76 DEG

L.D. DRLG
DST#2 3355-3420 LANS H,I,J
Start Test Date: 2010/10/08
Final Test Date: 2010/10/08

CHRISTIANSON 3-15
Formation: DST#2 3355-3420 LANS H,I,J
Pool: WILDCAT
Job Number: M037

CHRISTIANSON 3-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST2

TIME ON: 13:48
TIME OFF: 20:33

Company L.D. DRLG Lease & Well No. CHRISTIANSON #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation LANS. H,I,J Effective Pay _____ Ft. Ticket No. M037
Date 10-8-10 Sec. 15 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3355 ft. to 3420 ft. Total Depth 3420 ft.
Packer Depth 3350 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3355 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3344 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3417 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 76 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.6 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,800 P.P.M. Drill Pipe Length 3210 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 65 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, BOB 20 MIN (NO BB)
2nd Open: WSB, 1" RIGHT AWAY, BOB 22 MIN

Recovered 124 ft. of SOSM
Recovered 124 ft. of MW 80% WTR, 20% MUD
Recovered 120 ft. of WATER 97% WTR, 3% MUD
Recovered 368 ft. of TOTAL FLUID

Recovered _____ ft. of _____ PH 8.5 Price Job _____

Recovered _____ ft. of _____ CHLOR 42,000 PPM Other Charges _____

Remarks: _____ RW .14@76 DEG Insurance _____

TOOL SAMPLE: 1% OIL, 99% WTR Total _____

Time Set Packer(s) 3:30 P.M. A.M. P.M. Time Started Off Bottom 6:30 P.M. A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure..... (A) 1584 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 100 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 957 P.S.I.
Final Flow Period..... Minutes 45 (E) 108 P.S.I. to (F) 177 P.S.I.
Final Closed In Period..... Minutes 60 (G) 954 P.S.I.
Final Hydrostatic Pressure..... (H) 1580 P.S.I.

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DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSEN 3-15
Unique Well ID DST#3 3447-3527 ARB
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type Vertical

Job Number M038
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/09
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#3 3447-3527 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 09:04:00
Final Test Time 15:34:00

Start Test Date 2010/10/09
Final Test Date 2010/10/09

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 179' G.I.P.
73' CLEAN OIL GRAVITY 39.2 @ 60 DEG
63' GWOCM
120' GWOCM
256' TOTAL FLUID

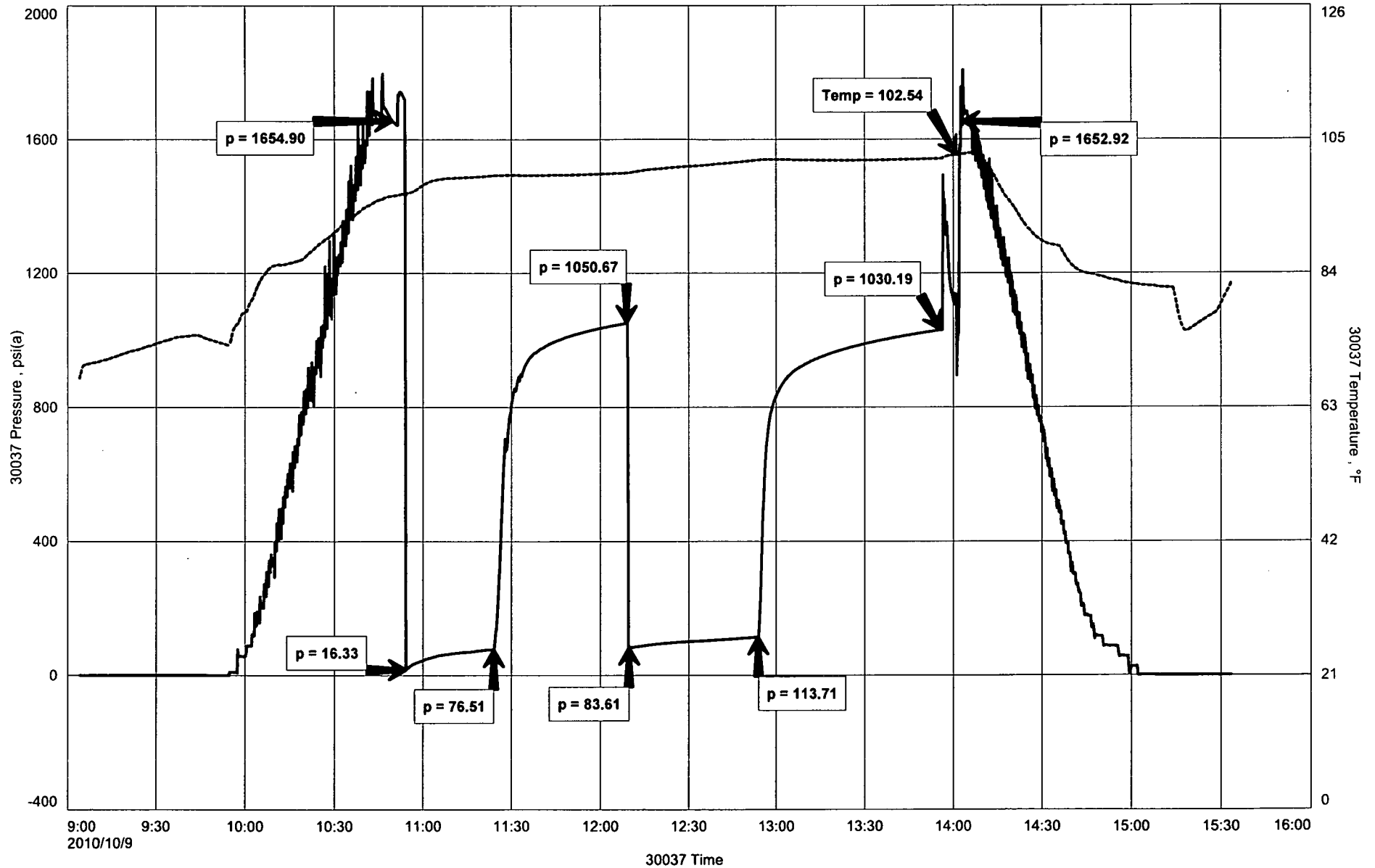
TOOL SAMPLE: 34% OIL, 22% WTR, 44% MUD

PH 8.0
CHLOR 15,000 PPM
RW .31@89 DEG

L.D. DRLG
DST#3 3447-3527 ARB
Start Test Date: 2010/10/09
Final Test Date: 2010/10/09

CHRISTIANSEN 3-15
Formation: DST#3 3447-3527 ARB
Pool: WILDCAT
Job Number: M038

CHRISTIANSON 3-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST3

TIME ON: 09:04
TIME OFF: 15:34

Company L.D. DRLG Lease & Well No. CHRISTIANSEN #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation ARB Effective Pay _____ Ft. Ticket No. M038
Date 10-9-10 Sec. 15 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 3447 ft. to 3527 ft. Total Depth 3527 ft.
Packer Depth 3442 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3447 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3436 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3524 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 67 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3210 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 80 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, BOB 25 MIN (VWBB)
2nd Open: WSB, BOB 32 MIN (NO BB)

| | |
|--|---------------|
| Recovered <u>179</u> ft. of <u>GIP</u> | |
| Recovered <u>73</u> ft. of <u>CLEAN OIL GRAVITY 39.2@60 DEG</u> | |
| Recovered <u>63</u> ft. of <u>GWOCM 6% GAS, 14% OIL, 20% WTR, 60% MUD</u> | |
| Recovered <u>120</u> ft. of <u>GWOCM 8% GAS, 14% OIL, 20% WTR, 58% MUD</u> | |
| Recovered <u>256</u> ft. of <u>TOTAL FLUID</u> | Price Job |
| Recovered _____ ft. of <u>PH 8.0</u> | Other Charges |
| Remarks: <u>CHLOR 15,000 PPM</u> | Insurance |
| <u>RW .31@89 DEG</u> | |
| <u>TOOL SAMPLE: 34% OIL, 22% WTR, 44% MUD</u> | Total |

Time Set Packer(s) 10:55 A.M. P.M. Time Started Off Bottom 1:55 P.M. A.M. P.M. Maximum Temperature 103
Initial Hydrostatic Pressure..... (A) 1655 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 77 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1051 P.S.I.
Final Flow Period..... Minutes 45 (E) 84 P.S.I. to (F) 114 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1030 P.S.I.
Final Hydrostatic Pressure..... (H) 1653 P.S.I.

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DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST4

TIME ON: 20:54 (10-09)

TIME OFF: 03:34 (10-10)

Company L.D. DRLG Lease & Well No. CHRISTIANSEN #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation ARB Effective Pay _____ Ft. Ticket No. M039
Date 10-9-10 Sec. 15 Twp. _____ 21 S Range _____ 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 3447 ft. to 3539 ft. Total Depth 3539 ft.

Packer Depth 3442 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3447 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3436 ft. Recorder Number 30037 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3536 ft. Recorder Number 13386 Cap. 3,875 P.S.I.

Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 67 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3302 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 92 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, BUILT TO 10" (NO BB)

2nd Open: WSB, BOB 36 MIN (1/2" BB)

Recovered 109 ft. of G.I.P.

Recovered 201 ft. of GOCM 8% GAS, 22% OIL, 70% MUD

Recovered 120 ft. of GOCM 12% GAS, 25% OIL, 60% MUD

Recovered 321 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: _____ Insurance _____

TOOL SAMPLE: 47% OIL, 3% WTR, 50% MUD Total _____

Time Set Packer(s) 10:32 P.M. A.M. Time Started Off Bottom 1:32 A.M. P.M. Maximum Temperature 100

Initial Hydrostatic Pressure..... (A) 1619 P.S.I.

Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 80 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1043 P.S.I.

Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 123 P.S.I.

Final Closed In Period..... Minutes 60 (G) 1021 P.S.I.

Final Hydrostatic Pressure..... (H) 1612 P.S.I.

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DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSEN 3-15
Unique Well ID DST#4 3447-3539 ARB
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type

Job Number M039
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/10
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#4 3447-3539 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 20:54:00
Final Test Time 03:34:00

Start Test Date 2010/10/09
Final Test Date 2010/10/10

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 109' G.I.P.
201' GOCM 8% GAS, 22% OIL, 70% MUD
120' GOCM 12% GAS, 25% OIL, 60% MUD
321' TOTAL FLUID

TOOLSAMPLE: 47% OIL, 3% WTR, 50% MUD

L.D. DRLG
DST#4 3447-3539 ARB
Start Test Date: 2010/10/09
Final Test Date: 2010/10/10

CHRISTIANSEN 3-15
Formation: DST#4 3447-3539 ARB
Pool: WILDCAT
Job Number: M039

CHRISTIANSEN 3-15

