



DIAMOND TESTING

P.O. Box 157

Page 1 of 2 Pages

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30046.D1143

Company H & D Exploration, LLC Lease & Well No. Doonan "A" No. 1
 Elevation 1804 GL Formation Lansing "A"-"G" Effective Pay Ft. Ticket No. J2939
 Date 5-31-12 Sec. 28 Twp. 18S Range 13W County Barton State Kansas
 Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,053 ft. to 3,125 ft. Total Depth 3,125 ft
 Packer Depth 3,048 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 3,053 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,056 ft. Recorder Number 30046 Cap. 6,000 psi.
 Bottom Recorder Depth (Outside) 3,122 ft. Recorder Number 11073 Cap. 4,000 psi.
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length ft I.D. in
 Mud Type Chemical Viscosity 50 Weight Pipe Length ft I.D. in
 Weight 9.1 Water Loss 8.6 cc. Drill Pipe Length 3,033 ft I.D. 3 1/2 in.
 Chlorides 4,500 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in
 Jars: Make Sterling Serial Number Not Run Anchor Length 72 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. Off bottom of bucket in 3 mins. No blow back during shut-in.
 2nd Open: Strong blow. Off bottom of bucket immediately. Gas to surface in 40 mins. Gas volume too small to measure. Good blow back during shut-in.

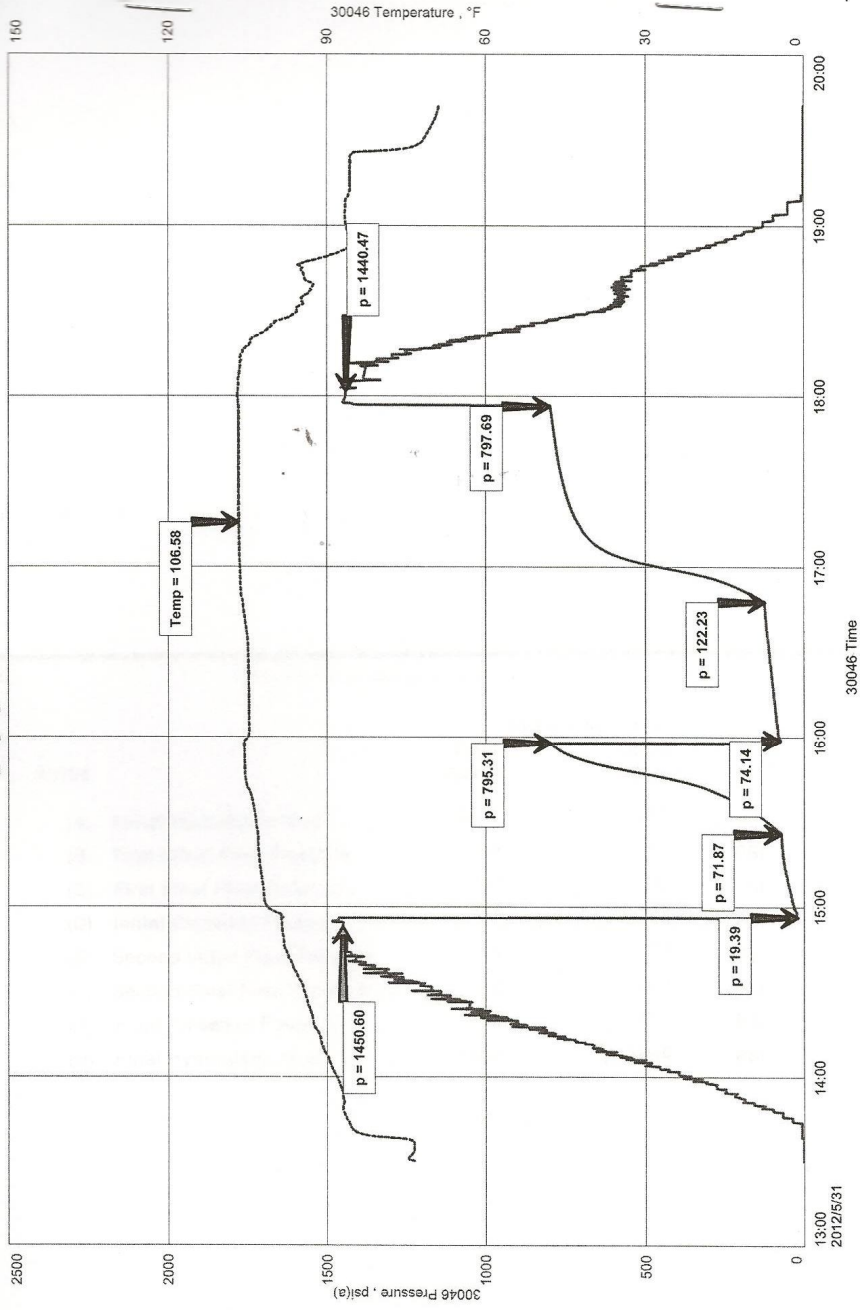
Recovered 80 ft. of slightly oil cut gassy mud = 1.138400 bbls. (Grind out: 35%-gas; 15%-oil; 50%-mud)
 Recovered 130 ft. of gassy oil = 1.849900 bbls. (Grind out: 35%-gas; 65%-oil)
 Recovered 210 ft. of TOTAL FLUID = 2.988300 bbls.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks

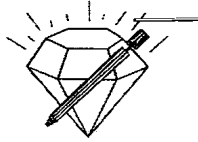
Time Set Packer(s) 2:55 P.M. Time Started off Bottom 5:40 P.M. Maximum Temperature 107°
 Initial Hydrostatic Pressure.....(A) 1451 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 19 P.S.I. to (C) 72 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 795 P.S.I.
 Final Flow Period.....Minutes 45 (E) 74 P.S.I. to (F) 122 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 798 P.S.I.
 Final Hydrostatic Pressure.....(H) 1440 P.S.I.

H+D EXPLORATION
Start Test Date: 2012/05/31
Final Test Date: 2012/05/31

DOONAN A #1
Formation: LANS A-G
Job Number: D11143

DOONAN A #1





DIAMOND TESTING
P.O. Box 157
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STC 30046.D1144

Company H & D Exploration, LLC Lease & Well No. Doonan "A" No. 1
Elevation 1804 GL Formation Lansing "G" Effective Pay _____ Ft. Ticket No. J2940
Date 6-1-12 Sec. 28 Twp. 18S Range 13W County Barton State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,130 ft. to 3,144 ft. Total Depth 3,144 ft.
Packer Depth 3,125 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,130 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,133 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,141 ft. Recorder Number 11073 Cap. 4,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 48 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,110 ft I.D. 3 1/2 in.
Chlorides 5,000 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 14 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, 9 in. blow. No blow back during shut-in.

2nd Open: Good, 5 in. blow. No blow back during shut-in.

Recovered 20 ft. of gassy oil = .284600 bbls. (Grind out: 10%-gas; 90%-oil)

Recovered 70 ft. of slightly oil cut water = .996100 bbls. (Grind out: 3%-oil; 97%-water) Chlorides: 60,000 Ppm

Recovered 90 ft. of TOTAL FLUID = 1.280700 bbls.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

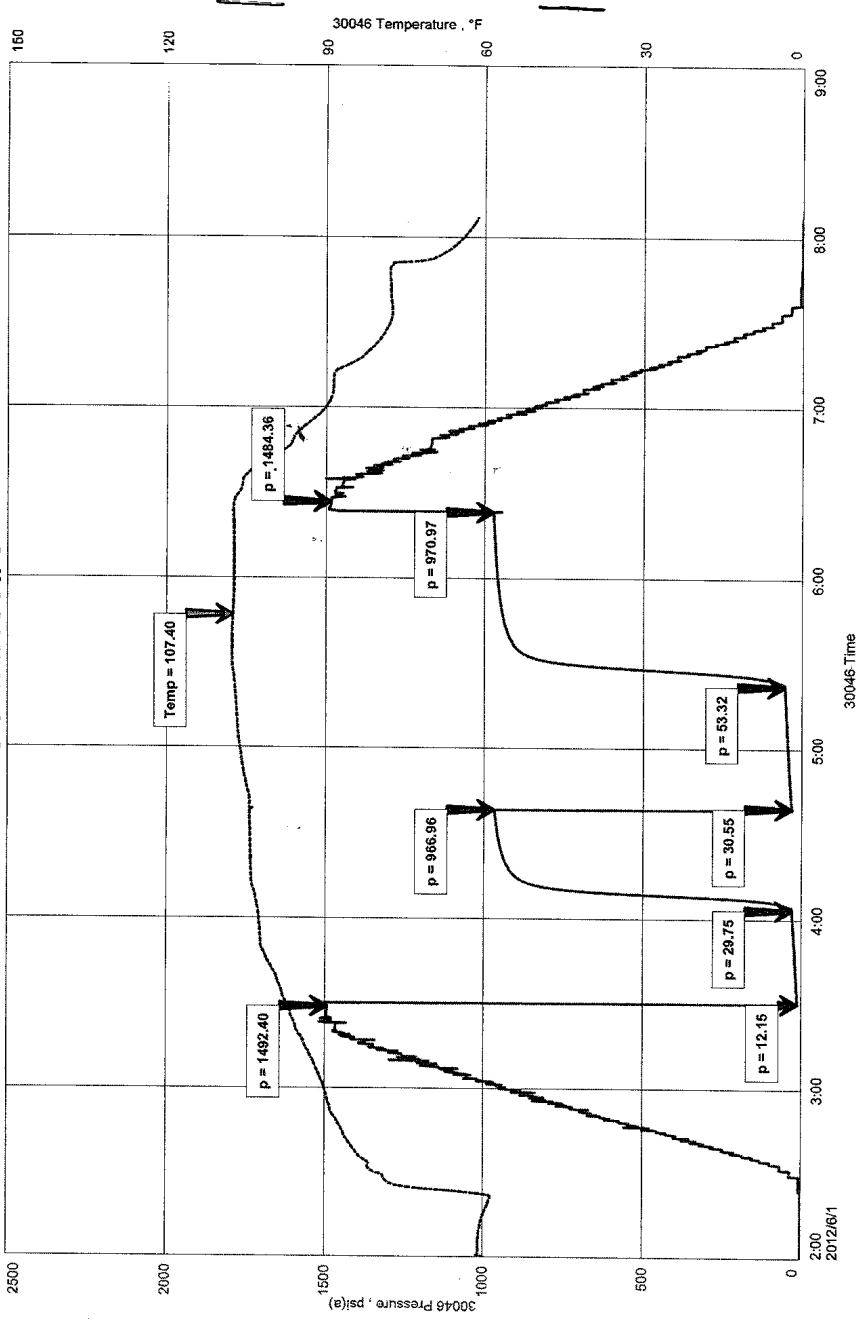
Remarks _____

Time Set Packer(s) 3:30 A.M. Time Started off Bottom 6:15 A.M. Maximum Temperature 107°
Initial Hydrostatic Pressure.....(A) 1492 P.S.I.
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 967 P.S.I.
Final Flow Period.....Minutes 45 (E) 31 P.S.I. to (F) 53 P.S.I.
Final Closed In Period.....Minutes 60 (G) 971 P.S.I.
Final Hydrostatic Pressure.....(H) 1484 P.S.I.

H+D EXPLORATION
Start Test Date: 2012/06/01
Final Test Date: 2012/06/01

DOONAN A #1
Formation: LANSING "G"
Job Number: D1144

DOONAN A #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30046.D1145

Company H & D Exploration, LLC Lease & Well No. Doonan "A" No. 1
Elevation 1804 GL Formation Lansing "H" Effective Pay _____ Ft. Ticket No. J2941
Date 6-1-12 Sec. 28 Twp. 18S Range 13W County Barton State Kansas
Test Approved By Kurt Talbott Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,185 ft. to 3,210 ft. Total Depth 3,210 ft.
Packer Depth 3,180 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,185 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,188 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,207 ft. Recorder Number 11073 Cap. 4,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 46 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 3,165 ft I.D. 3 1/2 in.
Chlorides 5,400 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 25 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, 5 in. blow. No blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 23 mins. No blow back during shut-in.

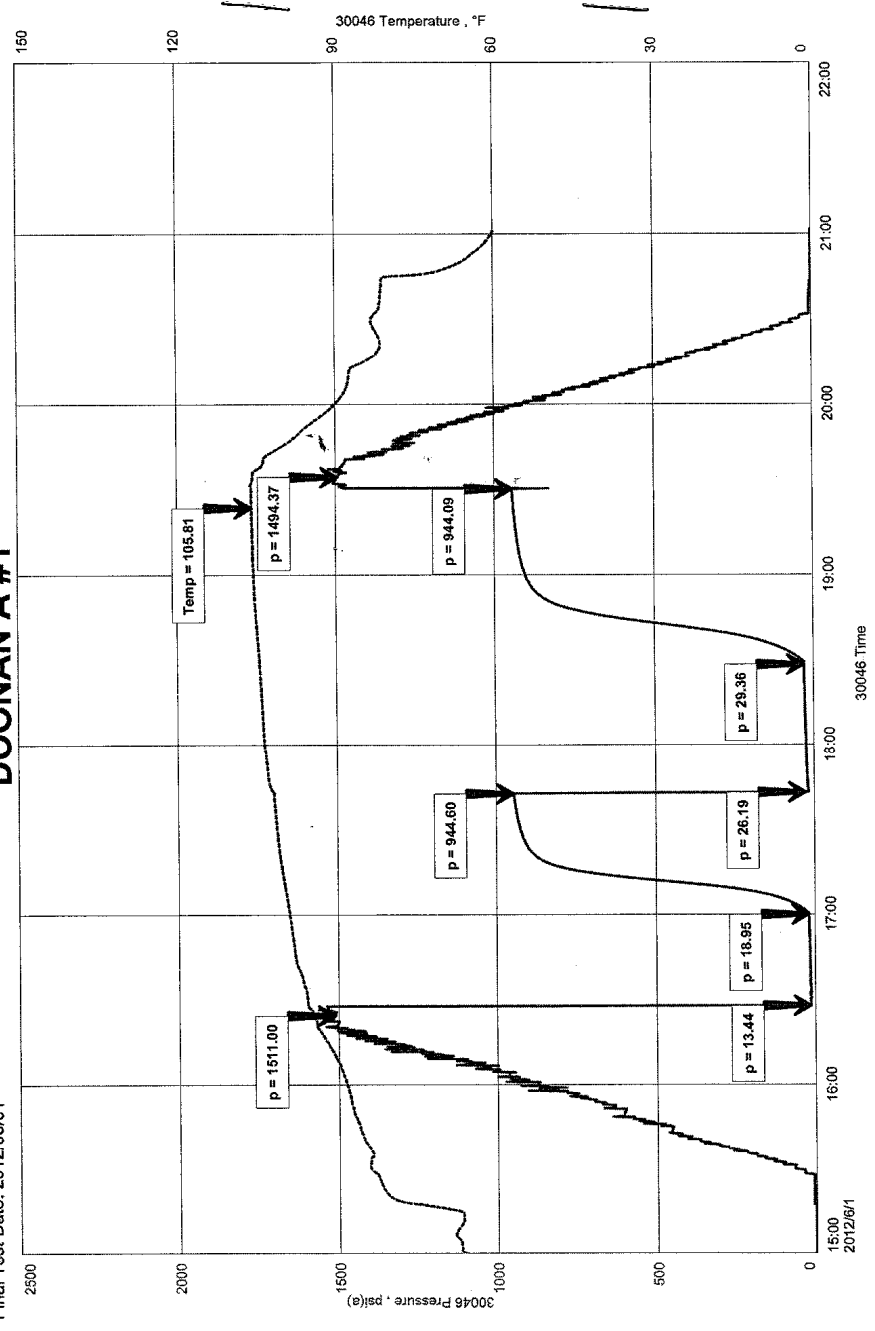
Recovered 150 ft. of gas in pipe
Recovered 50 ft. of gas & oil cut mud = .711500 bbls.
Recovered 50 ft. of TOTAL FLUID = .711500 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks _____

Time Set Packer(s) 4:30 P.M. Time Started off Bottom 7:30 P.M. Maximum Temperature 106°
Initial Hydrostatic Pressure.....(A) 1511 P.S.I.
Initial Flow Period.....Minutes 30 (B) 13 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period.....Minutes 45 (D) 945 P.S.I.
Final Flow Period.....Minutes 45 (E) 26 P.S.I. to (F) 29 P.S.I.
Final Closed In Period.....Minutes 60 (G) 944 P.S.I.
Final Hydrostatic Pressure.....(H) 1494 P.S.I.

DOONAN A #1
Formation: LANSING "H"
Job Number: D1145

H+D EXPLORATION
Start Test Date: 2012/06/01
Final Test Date: 2012/06/01

DOONAN A #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30046.D1146

Company H & D Exploration, LLC Lease & Well No. Doonan "A" No. 1
Elevation 1804 GL Formation Lansing "I"-L" Effective Pay _____ Ft. Ticket No. J2942
Date 6-2-12 Sec. 28 Twp. 18S Range 13W County Barton State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,210 ft. to 3,290 ft. Total Depth 3,290 ft.
Packer Depth 3,205 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,210 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft."

Top Recorder Depth (Inside) 3,213 ft. Recorder Number 30046 Cap. 6,000 psi
Bottom Recorder Depth (Outside) 3,287 ft. Recorder Number 11073 Cap. 4,000 psi
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft I.D. _____ in
Mud Type Chemical Viscosity 46 Weight Pipe Length _____ ft I.D. _____ in
Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 3,190 ft I.D. 3 1/2 in
Chlorides 5,400 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number Not Run Anchor Length 18' perf w/ 62' 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: Strong blow. Off bottom of bucket in 1 min. Gas to surface in 30 mins. Strong blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket in 3 mins. Gas to surface throughout. Good blow back during shut-in.

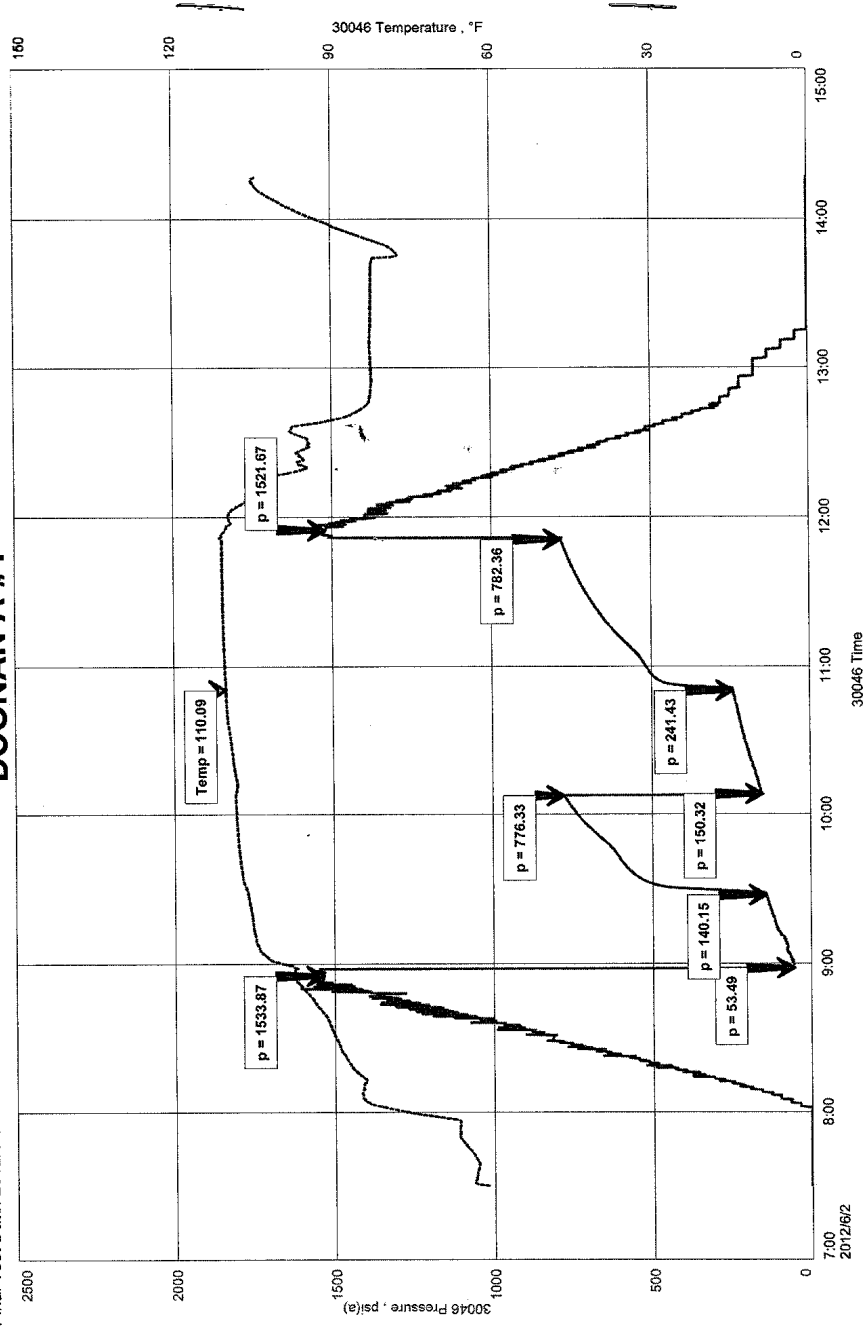
Recovered 120 ft. of gas & oil out mud = 1.707600 bbls. (Grind out: 20%-gas; 10%-oil; 70%-mud)
Recovered 500 ft. of gassy oil = 7.115000 bbls. (Grind out: 30%-gas; 70%-oil) Gravity: 38 @ 60°
Recovered 30 ft. of water = .426900 bbls. (Chlorides: 40,000 Ppm)
Recovered 650 ft. of TOTAL FLUID = 9.249500 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Gas Volume Gauges: 5 MCF/D down to 2 MCF/D. Gas had a consistent burn to it.

Time Set Packer(s) 9:00 A.M. Time Started off Bottom 11:45 A.M. Maximum Temperature 110°
Initial Hydrostatic Pressure.....(A) 1534 P.S.I.
Initial Flow Period.....Minutes 30 (B) 53 P.S.I. to (C) 140 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 776 P.S.I.
Final Flow Period.....Minutes 45 (E) 150 P.S.I. to (F) 241 P.S.I.
Final Closed In Period.....Minutes 60 (G) 782 P.S.I.
Final Hydrostatic Pressure.....(H) 1522 P.S.I.

DOONAN A #1
 Formation: LANS "J,K,L"
 Job Number: D1146

H+D EXPLORATION
 Start Test Date: 2012/06/02
 Final Test Date: 2012/06/02

DOONAN A #1





DIAMOND TESTING
P.O. Box 157
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(620) 653-7550 • (800) 542-7313
STC 30046.D1147

Company H & D Exploration, LLC Lease & Well No. Doonan "A" No. 1
Elevation 1804 GL Formation Arbuckle Effective Pay Ft. Ticket No. J2943
Date 6-3-12 Sec. 28 Twp. 18S Range 13W County Barton State Kansas
Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,290 ft. to 3,323 ft. Total Depth 3,323 ft
Packer Depth 3,285 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,290 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,293 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,320 ft. Recorder Number 11073 Cap. 4,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 50 Weight Pipe Length ft I.D. in.
Weight 9.1 Water Loss 8.9 cc. Drill Pipe Length 3,270 ft I.D. 3 1/2 in.
Chlorides 7,000 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 33 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. Off bottom of bucket in 5 mins. Fair blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 9 mins. Weak blow back during shut-in.

Recovered 100 ft. of gas in pipe
Recovered 900 ft. of gassy oil with some mud cut in bottom 3 stands = 12.807000 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 35 @ 60°
Recovered 900 ft. of TOTAL FLUID = 12.807000 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks

Time Set Packer(s) 12:30 A.M. Time Started off Bottom 2:45 A.M. Maximum Temperature 114°
Initial Hydrostatic Pressure.....(A) 1572 P.S.I.
Initial Flow Period.....Minutes 30 (B) 34 P.S.I. to (C) 190 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1008 P.S.I.
Final Flow Period.....Minutes 30 (E) 198 P.S.I. to (F) 297 P.S.I.
Final Closed In Period.....Minutes 45 (G) 983 P.S.I.
Final Hydrostatic Pressure.....(H) 1561 P.S.I.

DOONAN A #1
Formation: ARBUCKLE
Job Number: D1147

H+D EXPLORATION
Start Test Date: 2012/06/03
Final Test Date: 2012/06/03

DOONAN A #1

