

DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC/Stoltenberg-Svoboda2-17dst1

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Company Bird Dog Oil, LLC Lease & Well No. Stoltenberg-Svoboda No. 2-17
Elevation 1909 KB Formation Lansing/Kansas City "J" & "K" Effective Pay Ft. Ticket No. J3283
Date 9-8-14 Sec. 17 Twp. 16S Range 10W County Ellsworth State Kansas
Test Approved By Adam Nighswonger Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,226 ft. to 3,291 ft. Total Depth 3,291 ft.
Packer Depth 3,221 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,226 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,229 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,288 ft. Recorder Number 13498 Cap. 6,000 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 55 Weight Pipe Length ft I.D. in.
Weight 9.5 Water Loss 12.4 cc. Drill Pipe Length 3,200 ft I.D. 3 1/2 in.
Chlorides 11,000 P.P.M. Test Tool Length 26 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 33' perf. w/32' 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. Died in 7 mins. No blow back during shut-in.

2nd Open: No blow. Flushed tool & received a weak surge. No blow back during shut-in.

Recovered 3 ft. of drilling mud = .042690 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

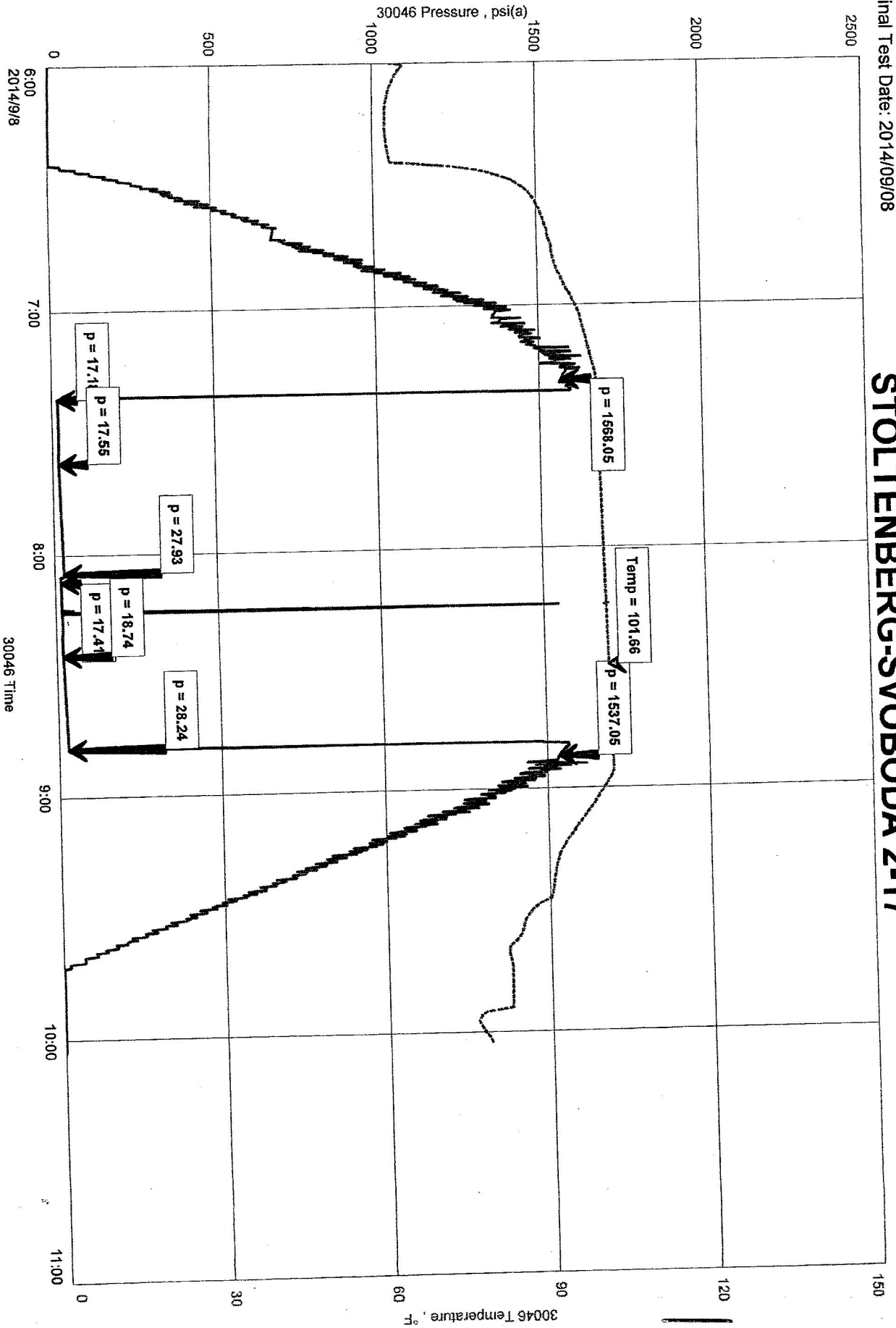
Remarks Tool Sample Grind Out: 100%-mud

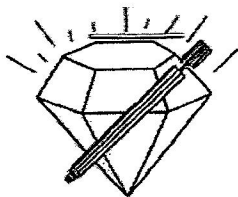
Time Set Packer(s) 7:20 A.M. Time Started off Bottom 8:50 A.M. Maximum Temperature 102°
Initial Hydrostatic Pressure.....(A) 1568 P.S.I.
Initial Flow Period.....Minutes 15 (B) 17 P.S.I. to (C) 18 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 28 P.S.I.
Final Flow Period.....Minutes 15 (E) 17 P.S.I. to (F) 19 P.S.I.
Final Closed In Period.....Minutes 30 (G) 28 P.S.I.
Final Hydrostatic Pressure.....(H) 1537 P.S.I.

BIRD DOG OIL LLC
DST #1 LKC "J-K" 3226'-3291'
Start Test Date: 2014/09/08
Final Test Date: 2014/09/08

STOLTENBERG-SVOBODA 2-17

STOLTENBERG-SVOBODA 2-17
Formation: LKC "J-K"
Job Number: J3283





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STC/Stoltenberg-Svoboda2-17dst2

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Company Bird Dog Oil, LLC Lease & Well No. Stoltenberg-Svoboda No. 2-17
Elevation 1909 KB Formation Arbuckle Effective Pay Ft. Ticket No. J3284
Date 9-8-14 Sec. 17 Twp. 16S Range 10W County Ellsworth State Kansas
Test Approved By Adam Nighswonger Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,321 ft. to 3,383 ft. Total Depth 3,383 ft.
Packer Depth 3,316 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,321 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,324 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,380 ft. Recorder Number 13498 Cap. 6,000 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 8.8 cc. Drill Pipe Length 3,295 ft. I.D. 3 1/2 in.
Chlorides 6,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 31' perf. w/31' 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 increasing. Off bottom of bucket in 12 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 18 mins. No blow back during shut-in.

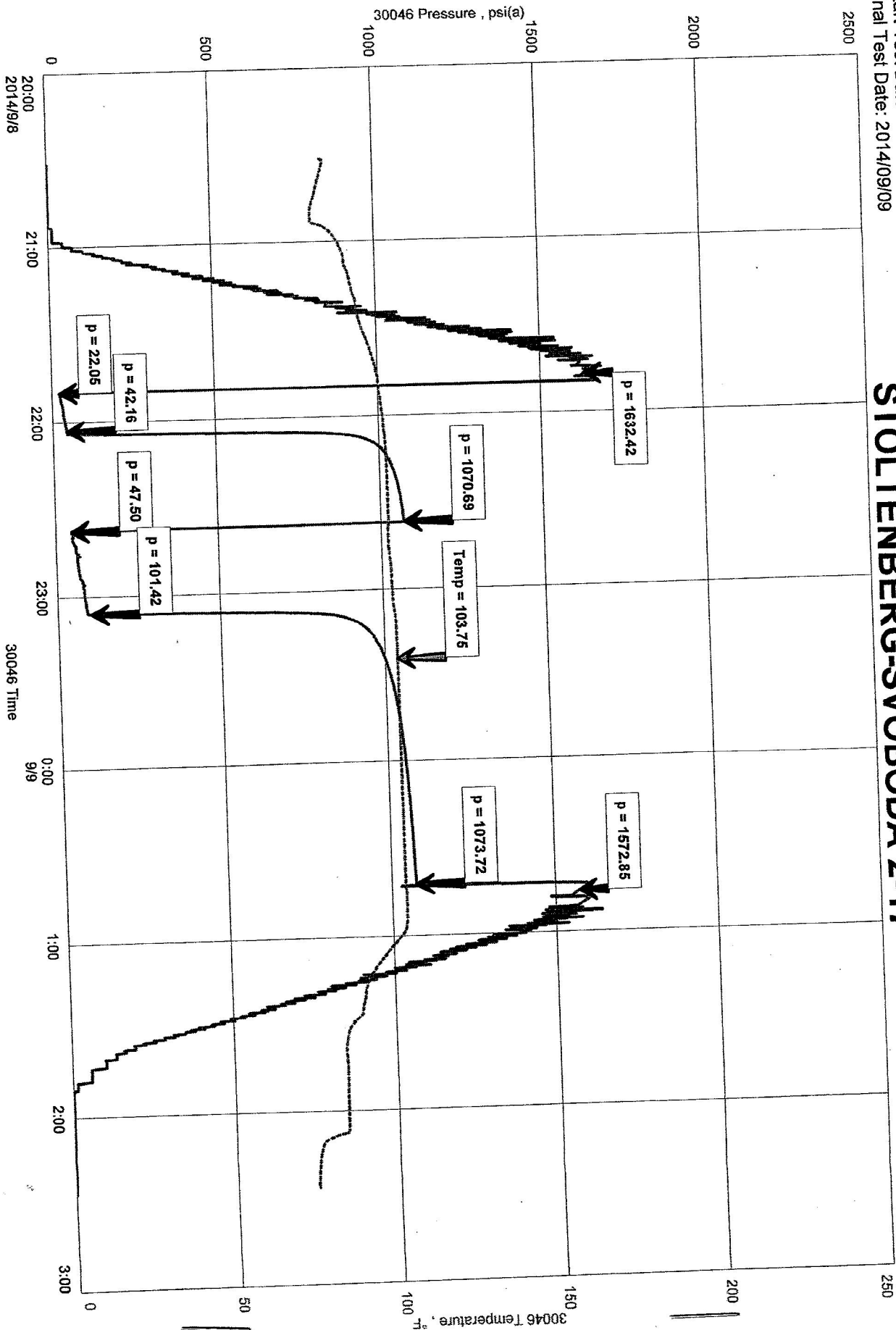
Recovered 280 ft. of gas in pipe
Recovered 230 ft. of gassy oil = 3.272900 bbls. (Grind out: 15%-gas; 85%-oil) Gravity: 41 @ 60°
Recovered 60 ft. of gas & mud cut oil = .853800 bbls. (Grind out: 20%-gas; 70%-oil; 10%-mud)
Recovered 290 ft. of TOTAL FLUID = 4.126700 bbls.
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 100%-oil

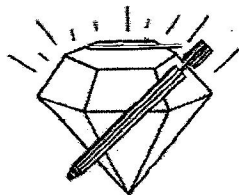
Time Set Packer(s) 9:50 P.M. Time Started off Bottom 12:35 A.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1632 P.S.I.
Initial Flow Period 15 Minutes (B) 22 P.S.I. to (C) 42 P.S.I.
Initial Closed In Period 30 Minutes (D) 1071 P.S.I.
Final Flow Period 30 Minutes (E) 48 P.S.I. to (F) 101 P.S.I.
Final Closed In Period 90 Minutes (G) 1074 P.S.I.
Final Hydrostatic Pressure (H) 1573 P.S.I.

BIRD DOG OIL, LLC
 DST #2 ARBUCKLE 3321-3383
 Start Test Date: 2014/09/08
 Final Test Date: 2014/09/09

STOLTENBERG-SVOBODA 2-17

STOLTENBERG-SVOBODA 2-17
 Formation: ARBUCKLE
 Job Number: J3284





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Company Bird Dog Oil, LLC Lease & Well No. Stoltenberg-Svoboda No. 2-17
Elevation 1909 KB Formation Arbuckle Effective Pay Ft. Ticket No. J3285
Date 9-9-14 Sec. 17 Twp. 16S Range 10W County Ellsworth State Kansas
Test Approved By Adam Nighswonger Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,383 ft. to 3,389 ft. Total Depth 3,389 ft.
Packer Depth 3,378 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,383 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,386 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) ft. Recorder Number Cap. 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 9.2 Water Loss 8.8 cc. Drill Pipe Length 3,357 ft. I.D. 3 1/2 in.
Chlorides 9,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 6 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 2 mins. Good, 6 in. blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 2 mins. Fair, 4 in. blow back during shut-in.

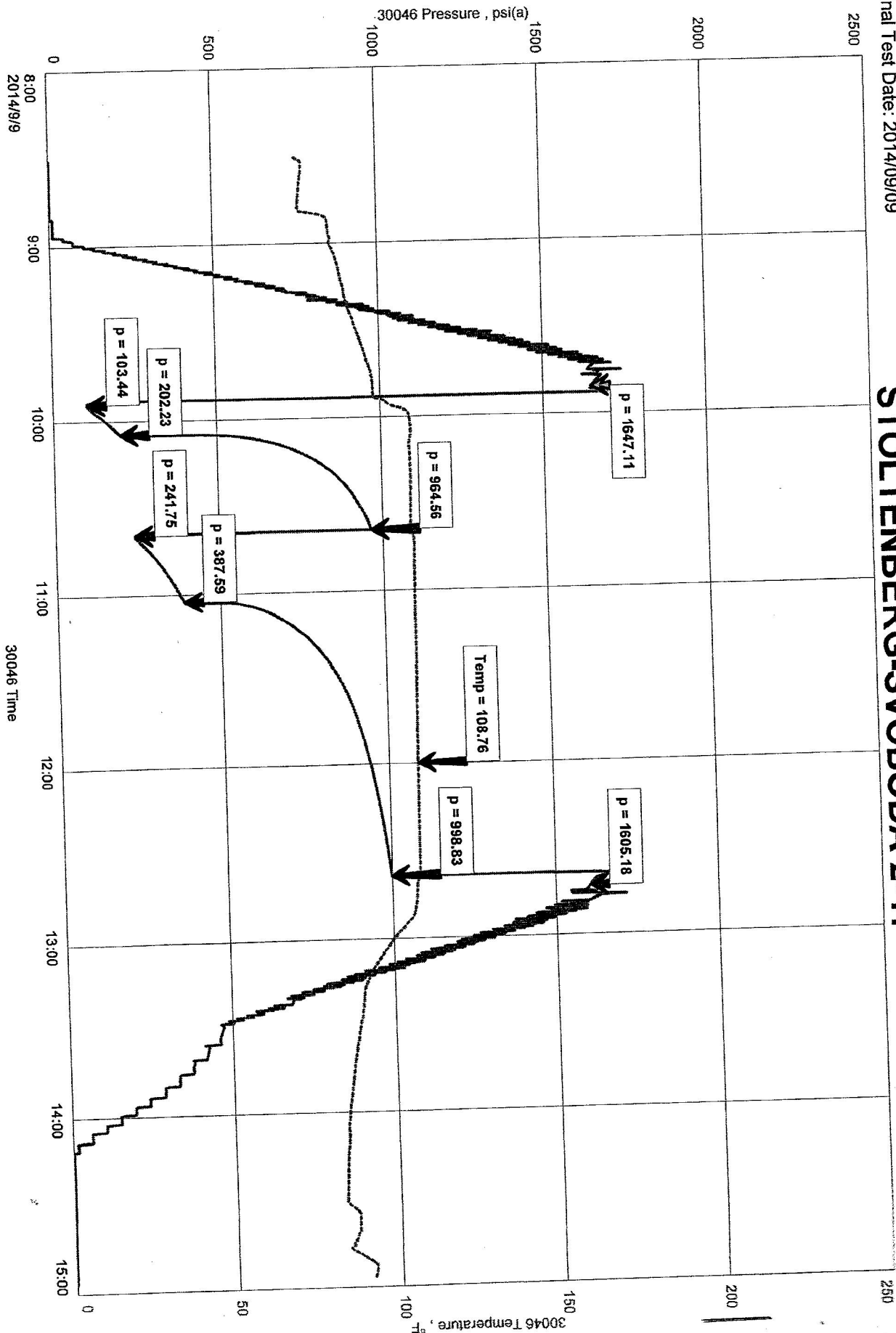
Recovered 180 ft. of gas in pipe
Recovered 510 ft. of gassy oil = 7.257300 bbls. (Grind out: 20%-gas; 80%-oil) Gravity: 41 @ 60°
Recovered 120 ft. of slightly oil cut, gassy water = 1.707600 bbls. (Grind out: 15%-gas; 5%-oil; 80%-water)
Recovered 300 ft. of water = 4.269000 bbls. (Chlorides: 18,000 Ppm RW: .34)
Recovered 930 ft. of TOTAL FLUID = 13.233900 bbls.
Recovered ft. of
Remarks Tool Sample Grind Out: 100%-water

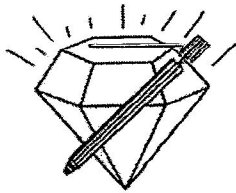
Time Set Packer(s) 9:50 A.M. Time Started off Bottom 12:35 P.M. Maximum Temperature 109°
Initial Hydrostatic Pressure.....(A) 1647 P.S.I.
Initial Flow Period.....Minutes 15 (B) 103 P.S.I. to (C) 202 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 965 P.S.I.
Final Flow Period.....Minutes 30 (E) 242 P.S.I. to (F) 388 P.S.I.
Final Closed In Period.....Minutes 90 (G) 999 P.S.I.
Final Hydrostatic Pressure.....(H) 1605 P.S.I.

BIRD DOG OIL LLC
 DST #3 ARBUCKLE 3383-3389'
 Start Test Date: 2014/09/09
 Final Test Date: 2014/09/09

STOLTENBERG-SVOBODA 2-17

STOLTENBERG-SVOBODA 2-17
 Formation: ARBUCKLE
 Job Number: J3285





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Company Bird Dog Oil, LLC Lease & Well No. Stoltenberg-Svoboda No. 2-17
Elevation 1909 KB Formation Arbuckle Effective Pay Ft. Ticket No. J3286
Date 9-9-14 Sec. 17 Twp. 16S Range 10W County Ellsworth State Kansas
Test Approved By Adam Nighswonger Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,399 ft. to 3,404 ft. Total Depth 3,404 ft.
Packer Depth 3,394 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,399 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,402 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) ft. Recorder Number Cap. 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 9.2 Water Loss 8.8 cc. Drill Pipe Length 3,373 ft. I.D. 3 1/2 in.
Chlorides 9,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 1 Anchor Length 5 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 3 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 5 mins. No blow back during shut-in.

Recovered 1,020 ft. of water = 14.514600 bbls. (Grind out: 100%-water) Chlorides: 19,000 Ppm RW.: .35

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 100%-water

Time Set Packer(s) 11:00 P.M. Time Started off Bottom 1:45 A.M. Maximum Temperature 110°
Initial Hydrostatic Pressure.....(A) 1665 P.S.I.
Initial Flow Period.....Minutes 15 (B) 40 P.S.I. to (C) 185 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1123 P.S.I.
Final Flow Period.....Minutes 30 (E) 197 P.S.I. to (F) 406 P.S.I.
Final Closed In Period.....Minutes 90 (G) 1126 P.S.I.
Final Hydrostatic Pressure.....(H) 1584 P.S.I.

BIRD DOG OIL LLC
 DST #4 ARBUCKLE 3399-3404'
 Start Test Date: 2014/09/09
 Final Test Date: 2014/09/10

STOLTENBERG-SVOBODA 2-17

STOLTENBERG-SVOBODA 2-17
 Formation: ARBUCKLE
 Job Number: J3286

