

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

Company L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

Elevation 2760KB Formation Toronto/Lansing/Kansas City "A" Effective Pay -- Ft. Ticket No. C 1

Date 1-03-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Formation Test No. 1 Interval Tested from 3,913 ft. to 3,970 ft. Total Depth 3,970 ft.

Packer Depth 3,908 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,913 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,902 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,967 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,889 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 26' 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: Weak, 1/4 in., blow increasing to 7 1/2 ins. No blow back during shut-in.

2nd Open: Weak, 1/4 in., blow increasing to 8 1/2 ins. No blow back during shut-in.

Recovered 50 ft. of slightly watery mud = .710000 bbls. (Grind out: 10%-water; 90%-mud)

Recovered 62 ft. of heavy watery mud = .880400 bbls. (Grind out: 34%-water; 66%-mud)

Recovered 112 ft. of TOTAL FLUID = 1.590400 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-oil; 24%-water; 74%-mud

Time Set Packer(s) 6:57 A.M. Time Started Off Bottom 9:57 A.M. Maximum Temperature 111°

Initial Hydrostatic Pressure (A) 1897 P.S.I.

Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period Minutes 45 (D) 583 P.S.I.

Final Flow Period Minutes 45 (E) 53 P.S.I. to (F) 77 P.S.I.

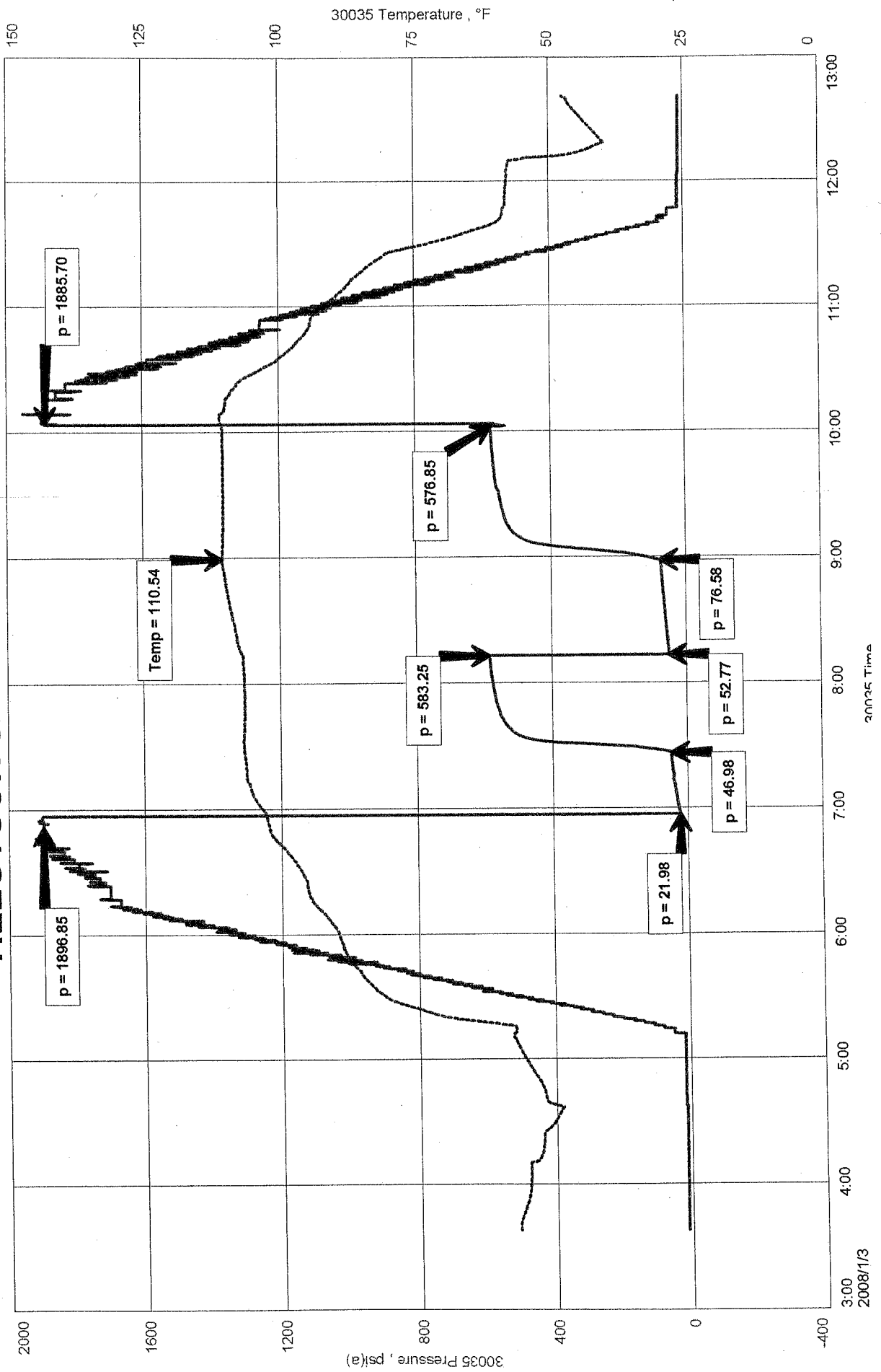
Final Closed In Period Minutes 60 (G) 577 P.S.I.

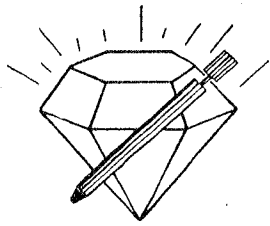
Final Hydrostatic Pressure (H) 1886 P.S.I.

TILLOTSON-JAMES UNIT #1-24
Formation: DST #1 TOR/LKC 'A' 3913 - 397C
Pool: WILDCAT

L.D. DRILLING, INC.
DST #1 TOR/LKC 'A' 3913 - 3970
Start Test Date: 2008/01/03
Final Test Date: 2008/01/03

TILLOTSON-JAMES UNIT #1-24





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Company L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

Elevation 2760KB Formation Lansing/Kansas City "E" Effective Pay -- Ft. Ticket No. C 2

Date 1-04-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Formation Test No. 2 Interval Tested from 4,019 ft. to 4,041 ft. Total Depth 4,041 ft.

Packer Depth 4,014 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,019 ft. Size 63/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,022 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,038 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 53 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 7.2 cc. Drill Pipe Length 3,995 ft. I.D. 3 1/2 in.

Chlorides 2,200 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 22 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: Weak, 1/2 in., blow increasing to 2 1/2 ins. No blow back during shut-in.

2nd Open: Very weak surface blow increasing to 1 1/2 ins. No blow back during shut-in.

Recovered 15 ft. of drilling mud = .213000 bbls. (Grind out: 100%-mud)

Recovered 15 ft. of slightly watery mud = .213000 bbls. (Grind out: 10%-water; 90%-mud with a scum of oil)

Recovered 30 ft. of TOTAL FLUID = .426000 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-oil; 15%-water; 83%-mud (Diesel in bucket)

Chlorides: 30,000 Ppm

Time Set Packer(s) 5:07 ~~P.M.~~ A.M. Time Started Off Bottom 8:07 ~~P.M.~~ A.M. Maximum Temperature 115°

Initial Hydrostatic Pressure (A) 1968 P.S.I.

Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 45 (D) 974 P.S.I.

Final Flow Period Minutes 45 (E) 38 P.S.I. to (F) 75 P.S.I.

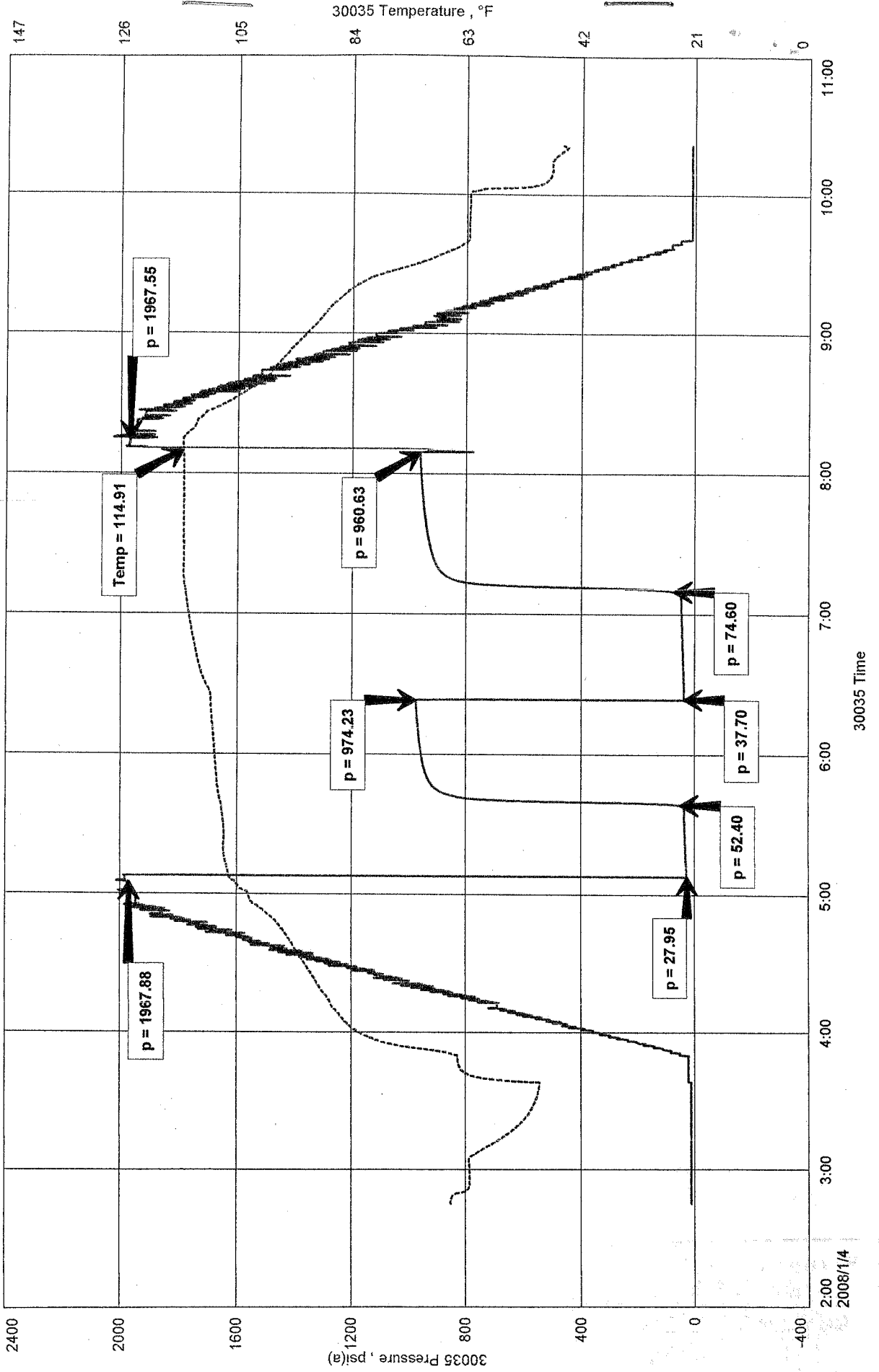
Final Closed In Period Minutes 60 (G) 961 P.S.I.

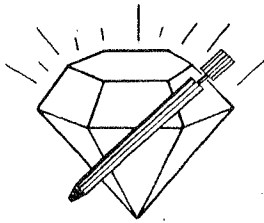
Final Hydrostatic Pressure (H) 1968 P.S.I.

TILLOTSON-JAMES UNIT 1-2
 Formation: DST #2 LKC 'E' 4019 - 404
 Pool: WILDCA

L.D. DRILLING INC.
 DST #2 LKC 'E' 4019 - 4041
 Start Test Date: 2008/01/04
 Final Test Date: 2008/01/04

TILLOTSON-JAMES UNIT 1-24





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Company L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

Elevation 2760KB Formation Lansing/Kansas City "H" - "I" Effective Pay --Ft. Ticket No. C 3

Date 1-05-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Formation Test No. 3 Interval Tested from 4,100 ft. to 4,160 ft. Total Depth 4,160 ft.

Packer Depth 4,095 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,100 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,089 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,157 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 49 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 4,076 ft. I.D. 3 1/2 in.

Chlorides 3,700 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 60 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: 1/2 in. surface blow increasing to 2 ins. No blow back during shut-in.

2nd Open: 1/2 in. surface blow. No blow back during shut-in.

Recovered 30 ft. of slightly watery mud = .426000 bbls. (Grind out: 2%-water; 98%-mud with a scum of oil)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 2%-water; 98%-mud with a scum of oil (Diesel in bucket)

Time Set Packer(s) 5:38 ~~P.M.~~ A.M. Time Started Off Bottom 7:38 ~~P.M.~~ A.M. Maximum Temperature 110°

Initial Hydrostatic Pressure (A) 2021 P.S.I.

Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 35 P.S.I.

Initial Closed In Period Minutes 30 (D) 359 P.S.I.

Final Flow Period Minutes 30 (E) 32 P.S.I. to (F) 51 P.S.I.

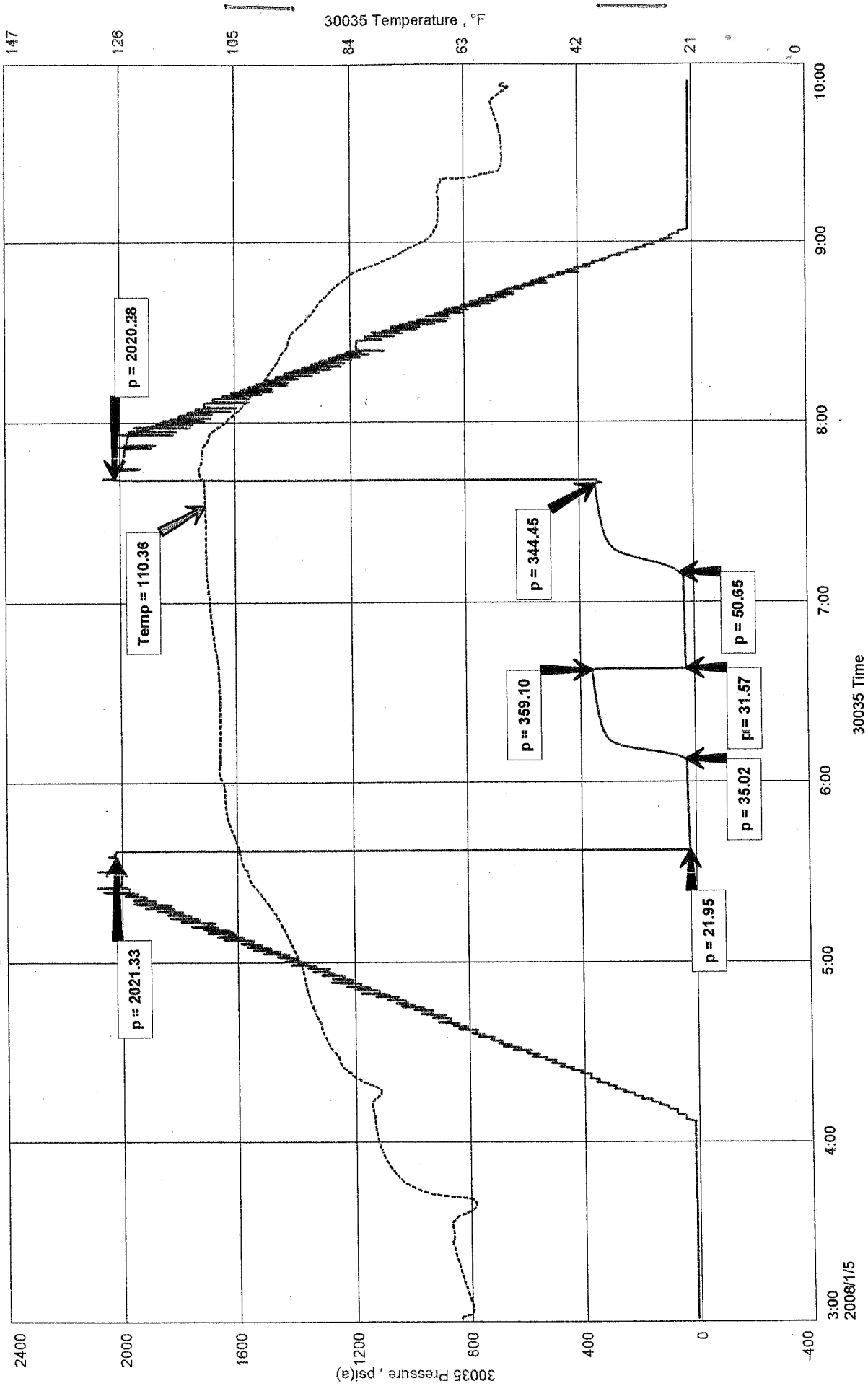
Final Closed In Period Minutes 30 (G) 344 P.S.I.

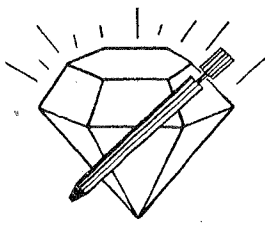
Final Hydrostatic Pressure (H) 2020 P.S.I.

TILLOTSON-JAMES UNIT 1-24
 Formation: DST #3 LKC 'H/I' 4100 - 4160
 Pool: WILDCAT

L.D. DRILLING INC.
 DST #3 LKC 'H/I' 4100 - 4160
 Start Test Date: 2008/01/05
 Final Test Date: 2008/01/05

TILLOTSON-JAMES UNIT 1-24





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Company L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

Elevation 2760KB Formation Lansing/Kansas City "K" Effective Pay -- Ft. Ticket No. C 4

Date 1-05-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Formation Test No. 4 Interval Tested from 4,187 ft. to 4,215 ft. Total Depth 4,215 ft.

Packer Depth 4,182 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,187 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,218 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,212 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 49 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 4,163 ft. I.D. 3 1/2 in.

Chlorides 3,300 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 28 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: Weak, 1/2 in., blow increasing to 2 ins. No blow back during shut-in.

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

Recovered 1 ft. of clean oil = .014200 bbls. (Gravity: 36.2 @ 60°)

Recovered 24 ft. of slightly oil cut mud = .340000 bbls. (Grind out: 1%-oil; 99%-mud)

Recovered 25 ft. of TOTAL FLUID = .355000 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 1%-water; 4%-oil; 95%-mud (Diesel in bucket)

Time Set Packer(s) 10:18 ~~AM.~~ P.M. Time Started Off Bottom 12:18 ~~AM.~~ P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 2089 P.S.I.

Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 39 P.S.I.

Initial Closed In Period Minutes 30 (D) 333 P.S.I.

Final Flow Period Minutes 30 (E) 38 P.S.I. to (F) 39 P.S.I.

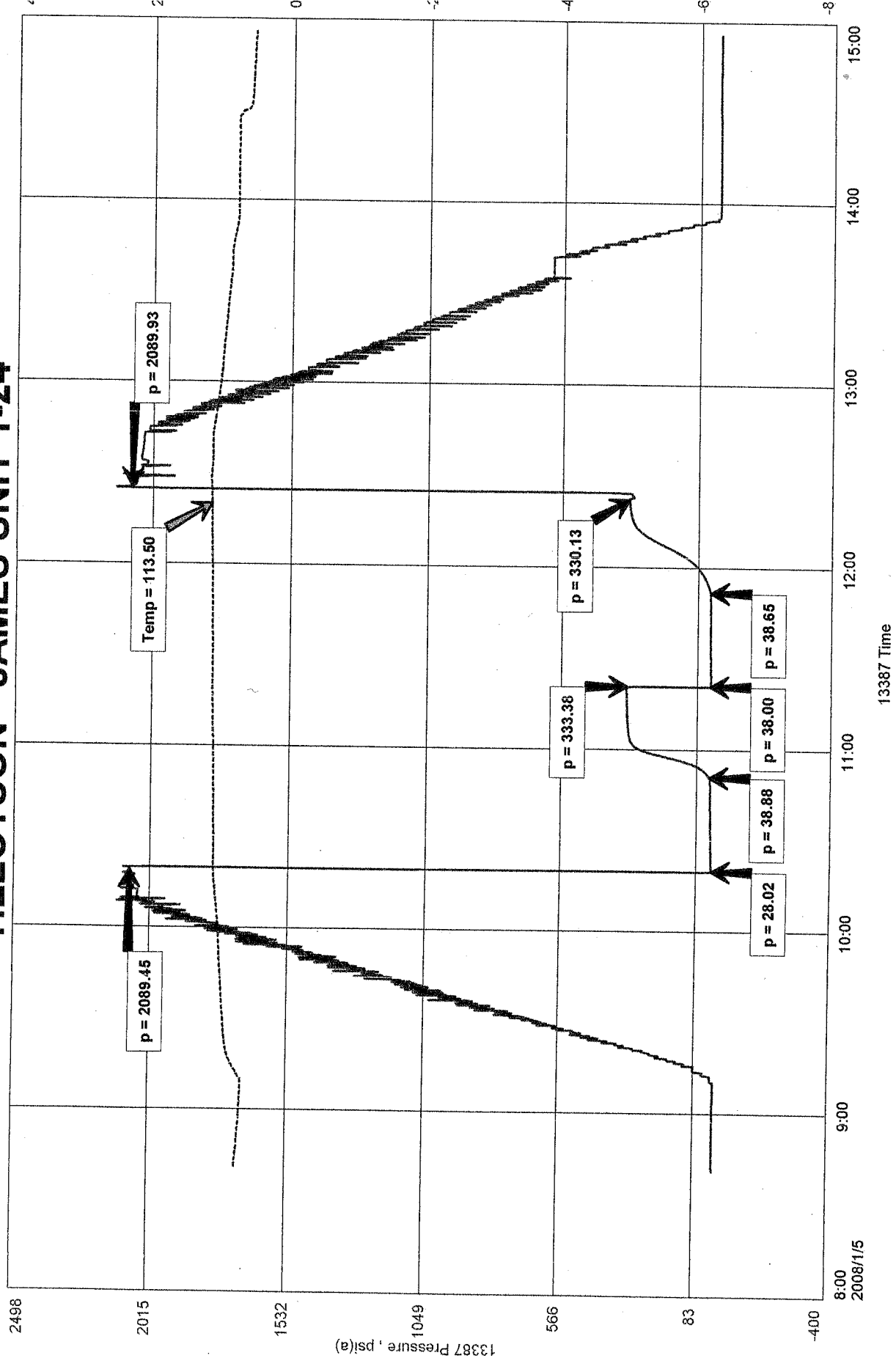
Final Closed In Period Minutes 30 (G) 330 P.S.I.

Final Hydrostatic Pressure (H) 2090 P.S.I.

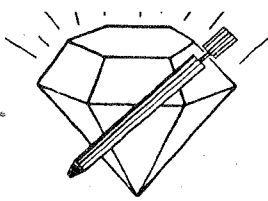
L.D. DRILLING INC.
 DST #4 LKC 'K' 4187 - 4215
 Start Test Date: 2008/01/05
 Final Test Date: 2008/01/06

TILLOTSON - JAMES UNIT
 Formation: DST #4 LKC 'K' 4187
 Pool: WIL

TILLOTSON - JAMES UNIT 1-24



13387 Time



DIAMOND TESTING

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Company L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

Elevation 2760KB Formation Lansing/Kansas City "L" Effective Pay -- Ft. Ticket No. C 5

Date 1-06-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Formation Test No. 5 Interval Tested from 4,221 ft. to 4,255 ft. Total Depth 4,255 ft.

Packer Depth 4,216 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,221 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,229 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,252 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 62 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 4,197 ft. I.D. 3 1/2 in.

Chlorides 3,700 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IE in.

Jars: Make Bowen Serial Number Not Run Anchor Length 34 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: Weak surface blow. No blow back during shut-in.

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

Recovered 10 ft. of slightly oil specked mud = .142000 bbls. (Grind out: 1%-oil; 99%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 1%-oil; 99%-mud (Diesel in bucket)

Time Set Packer(s) 4:28 XXM. P.M. Time Started Off Bottom 6:28 XXM. P.M. Maximum Temperature 113 °

Initial Hydrostatic Pressure (A) 2123 P.S.I.

Initial Flow Period Minutes 30 (B) 35 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period Minutes 30 (D) 89 P.S.I.

Final Flow Period Minutes 30 (E) 41 P.S.I. to (F) 34 P.S.I.

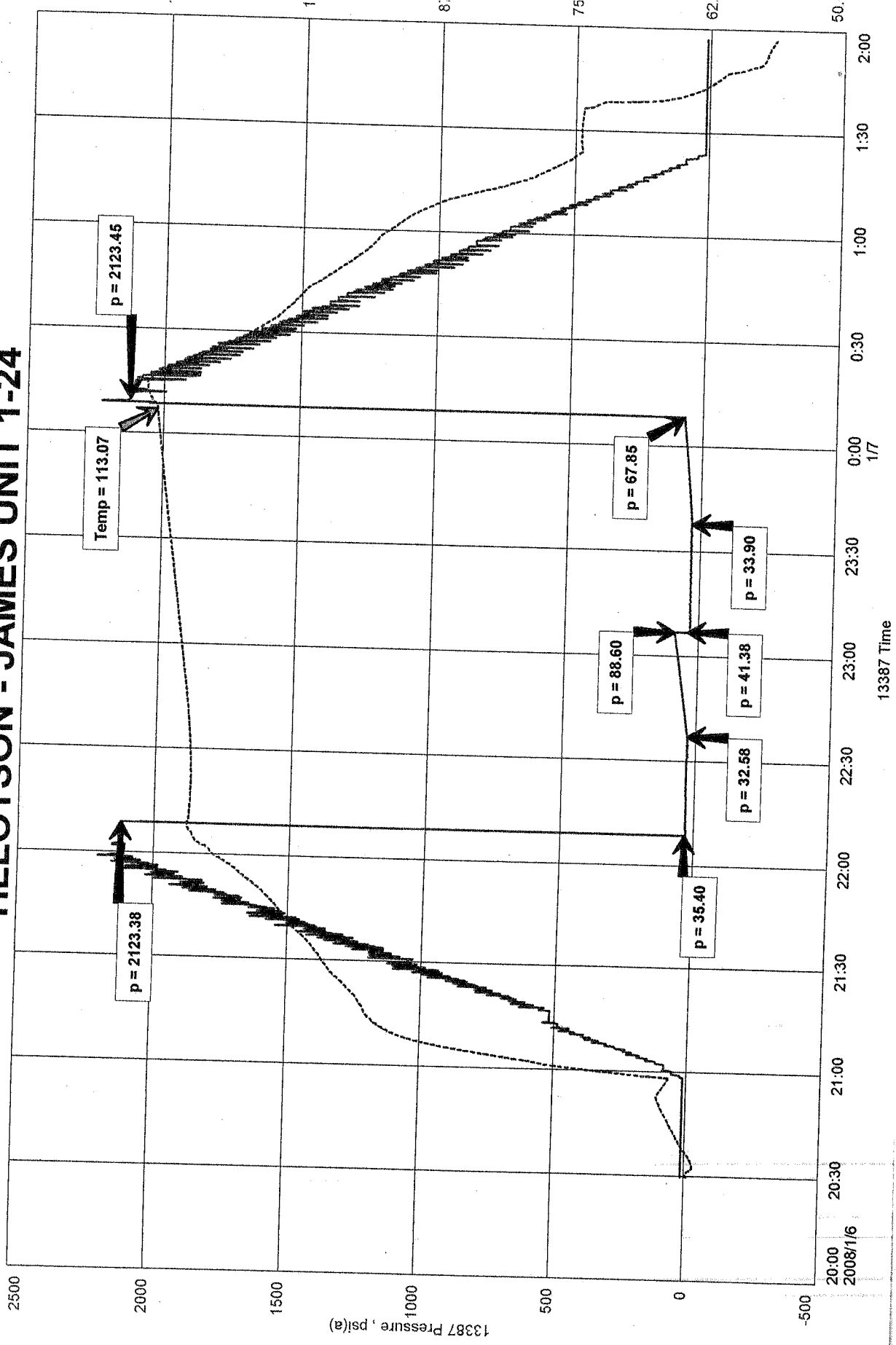
Final Closed In Period Minutes 30 (G) 68 P.S.I.

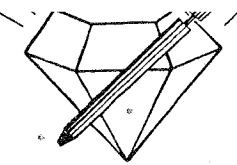
Final Hydrostatic Pressure (H) 2123 P.S.I.

L.D. DRILLING INC.
 DST #5 LKC 'L' 4,221 - 4,255
 Start Test Date: 2008/01/06
 Final Test Date: 2008/01/06

TILLOTSON - JAMES UN
 Formation: DST #5 LKC 'L' 4,221
 Pool: WI

TILLOTSON - JAMES UNIT 1-24





DIAMOND TESTING

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L. D. Drilling, Inc. Lease & Well No. Tillotson-James Unit #1-24

2760KB Formation Fort Scott/Johnson Effective Pay -- Ft. Ticket No. C 6

1-08-08 Sec. 24 Twp. 16S Range 29W County Lane State Kansas

Approved By Kim B. Shoemaker Diamond Representative Chris Redetzke

Test No. 6 Interval Tested from 4,430 ft. to 4,520 ft. Total Depth 4,520 ft.

Depth 4,425 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth 4,430 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Selective Zone Set -- ft.

Order Depth (Inside) 4,424 ft. Recorder Number 30035 Cap. 5,000 psi

Recorder Depth (Outside) 4,517 ft. Recorder Number 13387 Cap. 4,000 psi

Riddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Contractor Duke Drilling Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.

Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.

9.4 Water Loss 8.8 cc. Drill Pipe Length 4,406 ft. I.D. 3 1/2 in.

3,300 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.

Bowen Serial Number Not Run Anchor Length 90 ft. Size 4 1/2 - FH in.

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.

Shut Open: 3/4 in. blow. No blow back during shut-in.

Flow Open: No blow. Flushed tool; surge. No blow. No blow back during shut-in.

5 ft. of drilling mud = .071000 bbls. (Grind out: 100%-mud)

ft. of

ft. of

ft. of

ft. of

Tool Sample Grind Out: 100%-mud (Diesel in bucket)

Packer(s) 9:02 ~~AM~~ P.M. Time Started Off Bottom 12:02 ~~PM~~ A.M. Maximum Temperature 118°

Hydrostatic Pressure (A) 2224 P.S.I.

Flow Period Minutes 30 (B) 23 P.S.I. to (C) 25 P.S.I.

Used In Period Minutes 45 (D) 281 P.S.I.

Flow Period Minutes 45 (E) 23 P.S.I. to (F) 26 P.S.I.

Used In Period Minutes 60 (G) 224 P.S.I.

Hydrostatic Pressure (H) 2191 P.S.I.

DST #6 FORT SCOTT / JOHNSON 4,430 - 4,520
 Start Test Date: 2008/01/08
 Final Test Date: 2008/01/09

Formation: DST #6 FORT SCOTT / JOHNSON
 Por

TILLOTSON - JAMES UNIT 1-24

