



15-185-23571

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30036.D545

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24-22-123

Company L. D. Drilling, Inc. Lease & Well No. Heyen "B" No. 2

Elevation 1850 KB Formation Lansing "B"- "F" Effective Pay -- Ft. Ticket No. J2342

Date 2-20-09 Sec. 24 Twp. 22S Range 12W County Stafford State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,297 ft. to 3,370 ft. Total Depth 3,370 ft.

Packer Depth 3,292 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,297 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,300 ft. Recorder Number 30036 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,367 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

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

Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,277 ft. I.D. 3 1/2 in.

Chlorides 7,700 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 73 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.

1st Open: Strong blow. Off bottom of bucket in 30 secs. Gas to surface in 3 mins. Heavy muddy water mist after
Blow: 20 mins. Gas guaged 526 MCF/D down to 400 MCF/D at end. No blow back during shut-in.

2nd Open: Strong blow. Gassy, muddy water to surface throughout. Gas guaged between 250 MCF/D & 320 MCF/D
throughout. Strong blow back during shut-in.

Recovered 1,350 ft. of gassy, clean water = 13.851000 bbls. (Chlorides: 92,000 Ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 5:00 ^{XXM.} P.M. Time Started Off Bottom 7:45 ^{XXM.} P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure (A) 1611 P.S.I.

Initial Flow Period Minutes 30 (B) 463 P.S.I. to (C) 609 P.S.I.

Initial Closed In Period Minutes 45 (D) 1088 P.S.I.

Final Flow Period Minutes 30 (E) 554 P.S.I. to (F) 761 P.S.I.

Final Closed In Period Minutes 60 (G) 1080 P.S.I.

Final Hydrostatic Pressure (H) 1572 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: HEYEN B #2

Operator: L D DRILLING INC

Location-Downhole: DST #1 3297 TO 3370

Location-Surface: S24/22S/12W STAFFORD COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D545

Test Unit: 2

Start Date: 2009/02/20

Start Time: 15:30:00

End Date: 2009/02/20

End Time: 22:30:00

Report Date: 2009/02/20

Prepared By: JOHN RIEDL

Remarks:

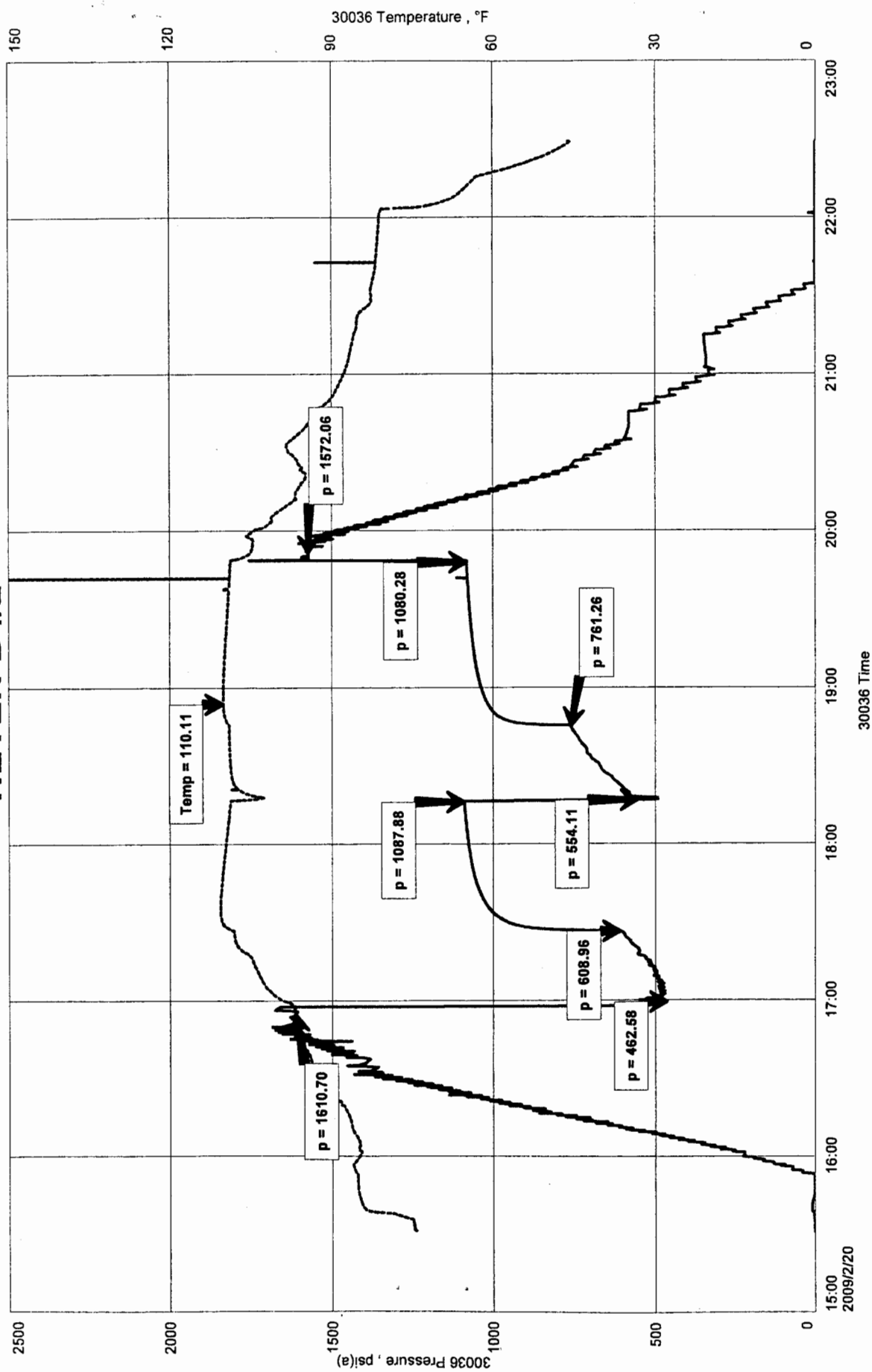
Qualified By: KIM SHOEMAKER

RECOVERY: 1350' GASSY CLEAN WATER
GAS TO SURFACE WITH A MUD CUT WATER MIST

HEYEN B #2
Formation: LANSING "B/F"
Job Number: D545

L D DRILLING INC
DST #1 3297 TO 3370
Start Test Date: 2009/02/20
Final Test Date: 2009/02/20

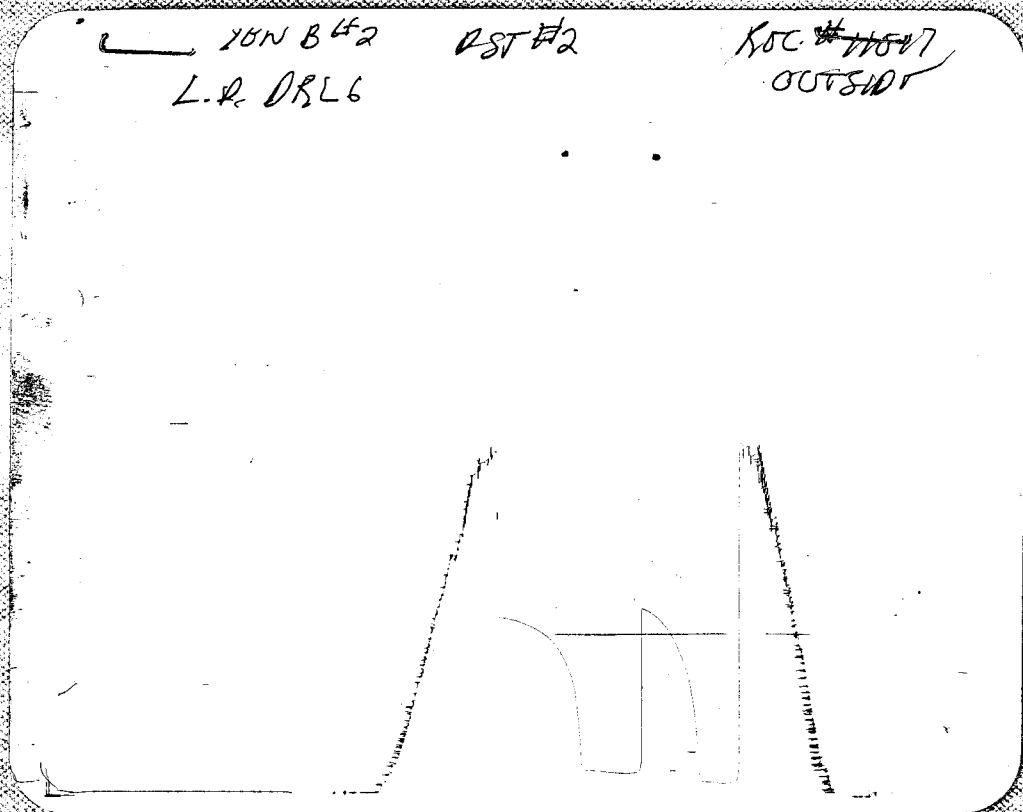
HEYEN B #2



10N B 42
L.R. DRL 6

RST #2

KOC #11507
OUTSIDE





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Company L. D. Drilling, Inc. Lease & Well No. Heyen "B" No. 2
Elevation 1850 KB Formation Lansing/Kansas City "H"-"K" Effective Pay -- Ft. Ticket No. J2343
Date 2-21-09 Sec. 24 Twp. 22S Range 12W County Stafford State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,407 ft. to 3,490 ft. Total Depth 3,490 ft.

Packer Depth 3,402 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,407 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,410 ft. Recorder Number 30036 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,487 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 12.8 cc. Drill Pipe Length 3,387 ft. I.D. 3 1/2 in.

Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 83 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 20 secs. Gas to surface in 16 mins. Gas guaged 116 MCF/D throughout. No blow back during shut-in. (SEE GAS VOLUME REPORT)
2nd Open: Strong blow. Gas to surface throughout. Gas guaged an initial 147 MCF/D. Stabilized at 81.8 MCF/D. Strong blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 220 ft. of slightly oil cut gassy watery mud = 2.257200 bbls. (Grind out: 3%-oil; 12%-gas; 30%-water; 55%-mud)

Recovered 60 ft. of slightly oil cut gassy muddy water = .615600 bbls. (Grind out: 3%-oil; 17%-gas; 25%-mud; 55%-water)

Recovered 280 ft. of TOTAL FLUID = 2.872800 bbls. Chlorides: 40,000 Ppm

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 12:20 ^{XXM.} P.M. Time Started Off Bottom 3:20 ^{XXM.} P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure (A) 1657 P.S.I.

Initial Flow Period Minutes 30 (B) 23 P.S.I. to (C) 65 P.S.I.

Initial Closed In Period Minutes 45 (D) 939 P.S.I.

Final Flow Period Minutes 45 (E) 81 P.S.I. to (F) 123 P.S.I.

Final Closed In Period Minutes 60 (G) 897 P.S.I.

Final Hydrostatic Pressure (H) 1634 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: HEYEN "B" #2

Operator: L D DRILLING INC

Location-Downhole: DST #2 3407 TO 3490

Location-Surface: S24/ 22S/ 12W STAFFORD COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number: D546

Test Unit: 2

Start Date: 2009/02/21 Start Time: 10:45:00

End Date: 2009/02/21 End Time: 17:45:00

Report Date: 2009/02/21 Prepared By: JOHN RIEDL

Qualified By: KIM SHOEMAKER

Remarks:

GAS TO SURFACE 16 MINUTES IN FIRST FLOW
RECOVERY: 220' SLIGHTLY OIL CUT GASSY WATERY MUD
60' SLIGHTLY OIL CUT GASSY MUDDY WATER
TOTAL FLUID REC. 280' IN DRILL PIPE



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GAS VOLUME REPORT

Company L. D. Drilling, Inc. Lease & Well No. Heyen "B" No. 2
Date 2-21-09 Sec. 24 Twp. 22 S Rge. 12 W Location 50' S, C NE SW SW County Stafford State KS
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Formation Lansing/Kansas City "H"-"K" DST No. 2
Remarks: 1st Open: Gas to surface in 16 mins.
2nd Open: Gas to surface throughout.
Gas sample taken.

INITIAL FLOW

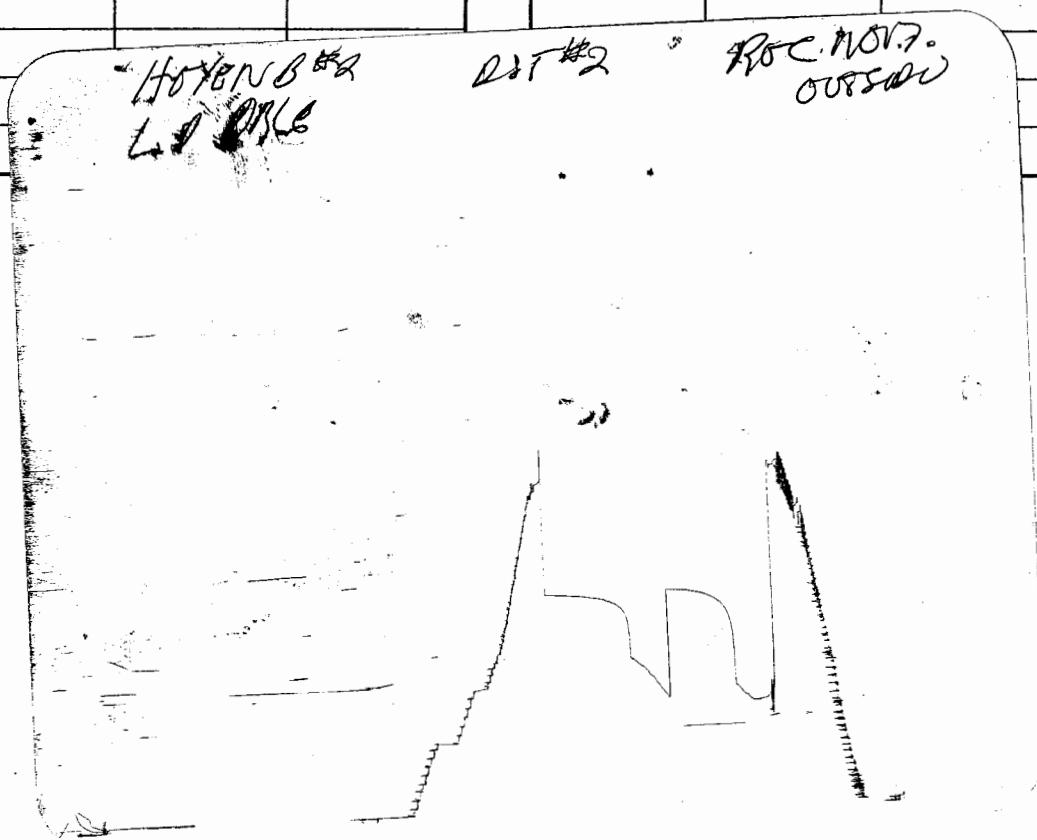
Open Tool: 12:20 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
12:40 p.m.	$\frac{1}{2}$ in.	10 psi	116,000
12:50 p.m.	$\frac{1}{2}$ in.	10 psi	116,000

FINAL FLOW

Open Tool: 1:35 p.m.

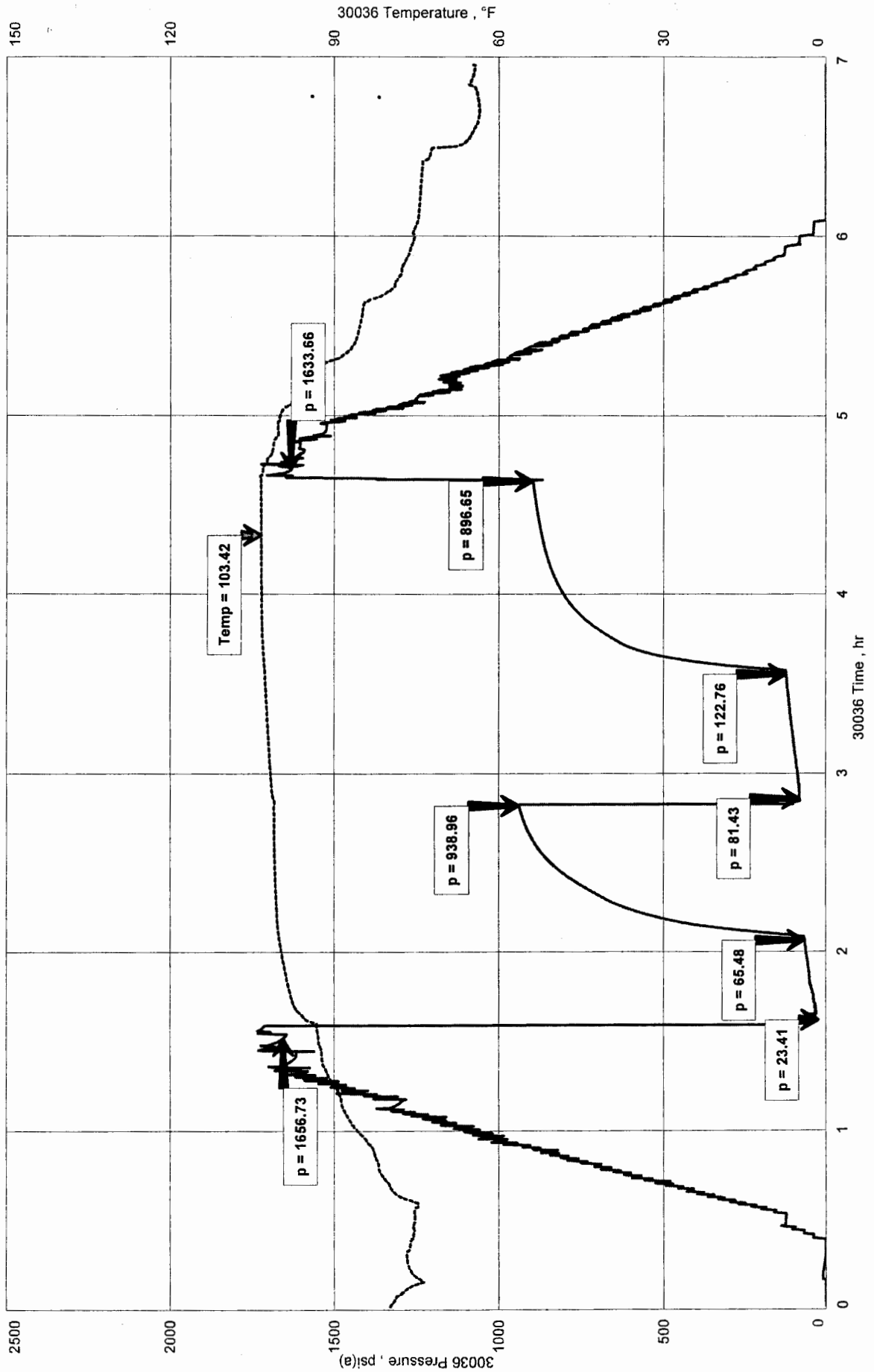
Time O'Clock	Orifice Size	Gauge	CF/D
1:45 p.m.	$\frac{1}{2}$ in.	15 psi	147,000
1:55 p.m.	$\frac{1}{2}$ in.	8 psi	101,000
2:05 p.m.	$\frac{1}{2}$ in.	5 $\frac{1}{2}$ psi	81,800
2:15 p.m.	$\frac{1}{2}$ in.	5 $\frac{1}{2}$ psi	81,800
2:20 p.m.	$\frac{1}{2}$ in.	5 $\frac{1}{2}$ psi	81,800



HEYEN "B" #2
Formation: LKC "H/K
Job Number: D546

L D DRILLING INC
DST #2 3407 TO 3490
Start Test Date: 2009/02/21
Final Test Date: 2009/02/21

HEYEN "B" #2





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Company L. D. Drilling, Inc. Lease & Well No. Heyen "B" No. 2

Elevation 1850 KB Formation Arbuckle Effective Pay Ft. Ticket No. J2344

Date 2-22-09 Sec. 24 Twp. 22S Range 12W County Stafford State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,591 ft. to 3,654 ft. Total Depth 3,654 ft.

Packer Depth 3,586 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3,591 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,594 ft. Recorder Number 30036 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,651 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length ft. I.D. in.

Mud Type Chemical Viscosity 55 Weight Pipe Length ft. I.D. in.

Weight 9.3 Water Loss 16.8 cc. Drill Pipe Length 3,571 ft. I.D. 3 1/2 in.

Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 63 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 30 mins. No blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 35 mins. No blow back during shut-in.

Recovered 90 ft. of gas in pipe

Recovered 70 ft. of clean gassy oil = .718200 bbls. (Grind out: 10%-gas; 90%-oil)

Recovered 80 ft. of slightly oil cut watery mud = .820800 bbls. (Grind out: 5%-oil; 25%-water; 70%-mud)

Recovered 150 ft. of TOTAL FLUID = 1.539000 bbls. Chlorides: 18,000 Ppm

Recovered ft. of

Remarks

Time Set Packer(s) 9:10 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:10 ~~P.M.~~ ^{X.M.} Maximum Temperature 105°

Initial Hydrostatic Pressure (A) 1753 P.S.I.

Initial Flow Period Minutes 30 (B) 17 P.S.I. to (C) 46 P.S.I.

Initial Closed In Period Minutes 45 (D) 1199 P.S.I.

Final Flow Period Minutes 45 (E) 46 P.S.I. to (F) 71 P.S.I.

Final Closed In Period Minutes 60 (G) 1197 P.S.I.

Final Hydrostatic Pressure (H) 1736 P.S.I.

GENERAL INFORMATION

Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: HEYEN "B" #2

Operator: L D DRILLING INC

Location-Downhole: DST #3 3591 TO 3654

Location-Surface: S24/ 22S/ 12W STAFFORD COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Job Number: D547

Test Unit: 2

Start Date: 2009/02/22

Start Time: 07:30:00

End Date: 2009/02/22

End Time: 14:00:00

Report Date: 2009/02/22

Prepared By: JOHN RIEDL

Remarks:

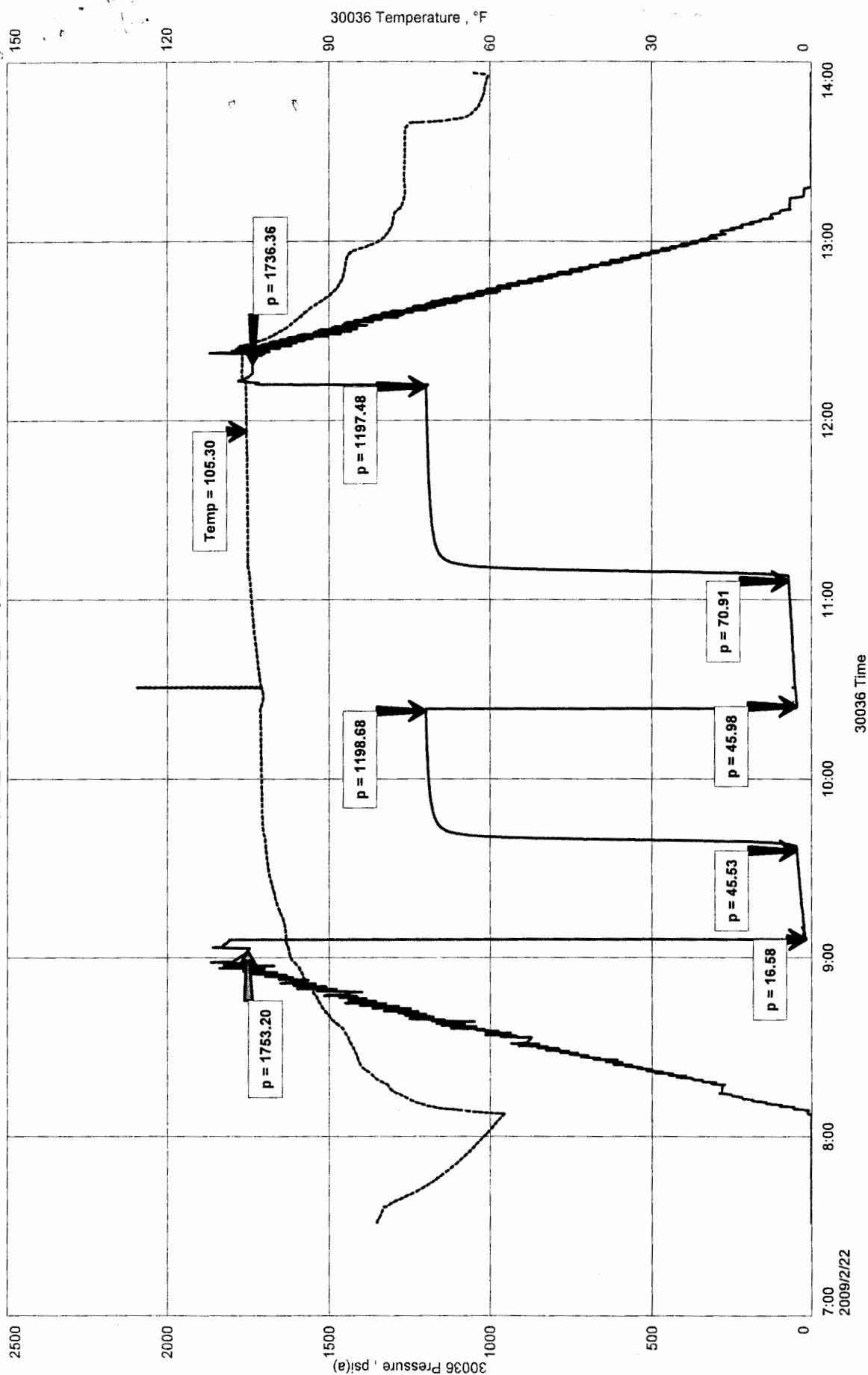
Qualified By: KIM SHOEMAKER

RECOVERY: 90' GAS IN PIPE
70' CLEAN GASSY OIL
80' SLIGHTLY OIL CUT WATERY MUD
TOTAL FLUID REC. 150' IN DRILL PIPE

HEYEN "B" #2
Formation: ARBUCKLE
Job Number: D547

L D DRILLING INC
DST #3 3591 TO 3654
Start Test Date: 2009/02/22
Final Test Date: 2009/02/22

HEYEN "B" #2



• 2nd. PR 25
• HOTTEN 132 DSH 3

ROCK ~~25~~
1101
OUTSIDE

