



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST1

TIME ON: 13:22:00

TIME OFF: 18:14:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Lansing B-G Effective Pay _____ Ft. Ticket No. S0103
Date 3-3-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3290 ft. to 3365 ft. Total Depth 3365 ft.

Packer Depth 3285 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3290 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3278 ft. Recorder Number 30035 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 3362 ft. Recorder Number 3851 Cap. 5700 P.S.I.

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

Mud Type Chem Viscosity 52 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.2 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 3145 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 75 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- Died in 5 min NOBB

2nd Open: _____

Recovered 473 ft. of DM 100% DM

Recovered 473 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Hole in drill pipe ---- Miss Run!

TOOL SAMPLE: 100% DM

Time Set Packer(s) 3:13 PM A.M. P.M. Time Started Off Bottom 3:33 PM A.M. P.M. Maximum Temperature 1577

Initial Hydrostatic Pressure..... (A) 1577 P.S.I.

Initial Flow Period..... Minutes 20 (B) 250 P.S.I. to (C) 247 P.S.I.

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

Final Flow Period..... Minutes (E) _____ P.S.I. to (F) _____ P.S.I.

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

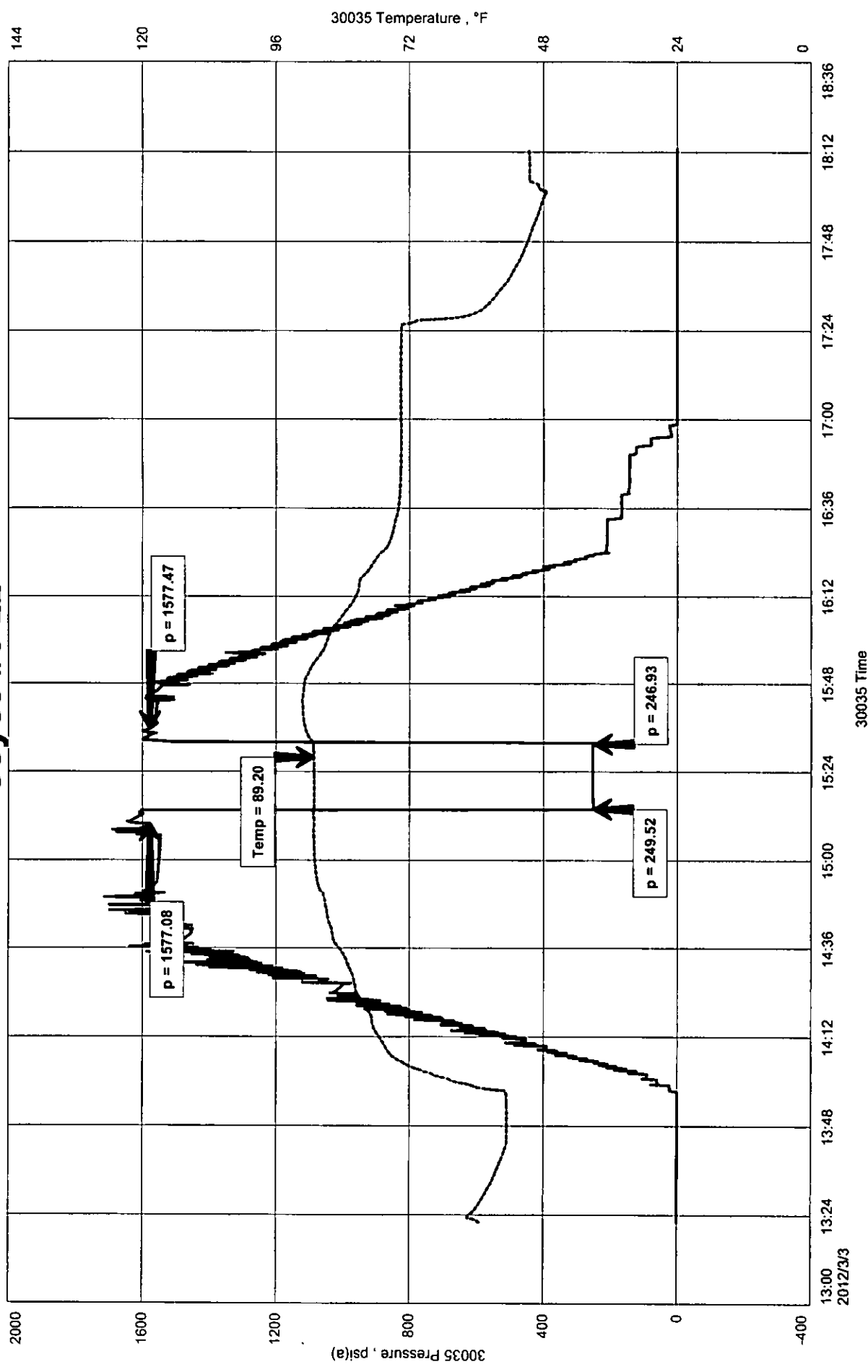
Final Hydrostatic Pressure..... (H) 1577 P.S.I.

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LD Drilling Inc
 DST #1 Lansing B-G 3290-3365'
 Start Test Date: 2012/03/03
 Final Test Date: 2012/03/03

Joyce #3-22
 Formation: DST #1 Lansing B-G 3290-3365'
 Pool: Wildcat
 Job Number: S0103

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis		
Well Name	Joyce #3-22	Job Number	S0103
Unique Well ID	DST #1 Lansing B-G 3290-3365'	Representative	Jacob McCallie
Surface Location	SEC 22-21S-12W Stafford County	Well Operator	LD Drilling Inc
Well License Number		Report Date	2012/03/03
Field	Sandra	Prepared By	Jacob McCallie
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 Lansing B-G 3290-3365'		
Well Fluid Type	01 Oil	Start Test Time	13:22:00
		Final Test Time	18:14:00
Start Test Date	2012/03/03		
Final Test Date	2012/03/03		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
473' DM 100% DM
473' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST2

TIME ON: 07:00:00

TIME OFF: 11:40:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Conglomerate Effective Pay _____ Ft. Ticket No. S0104
Date 3-4-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3480 ft. to 3520 ft. Total Depth 3520 ft.
Packer Depth 3475 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3480 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3468 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3517 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 52 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 9.2 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 3335 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-FH in.
Did Well Flow? NO Reversed Out NO Anchor Length 40 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: 1/4"- Died in 12 1/2 min

NOBB

2nd Open: _____

Recovered 3 ft. of DM 100% DM

Recovered 3 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Price Job

Other Charges

Insurance

Total

TOOL SAMPLE: 100% DM

Time Set Packer(s) 8:30 AM A.M. P.M. Time Started Off Bottom 9:30 AM A.M. P.M. Maximum Temperature 96

Initial Hydrostatic Pressure..... (A) 1648 P.S.I.

Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 10 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 23 P.S.I.

Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.

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

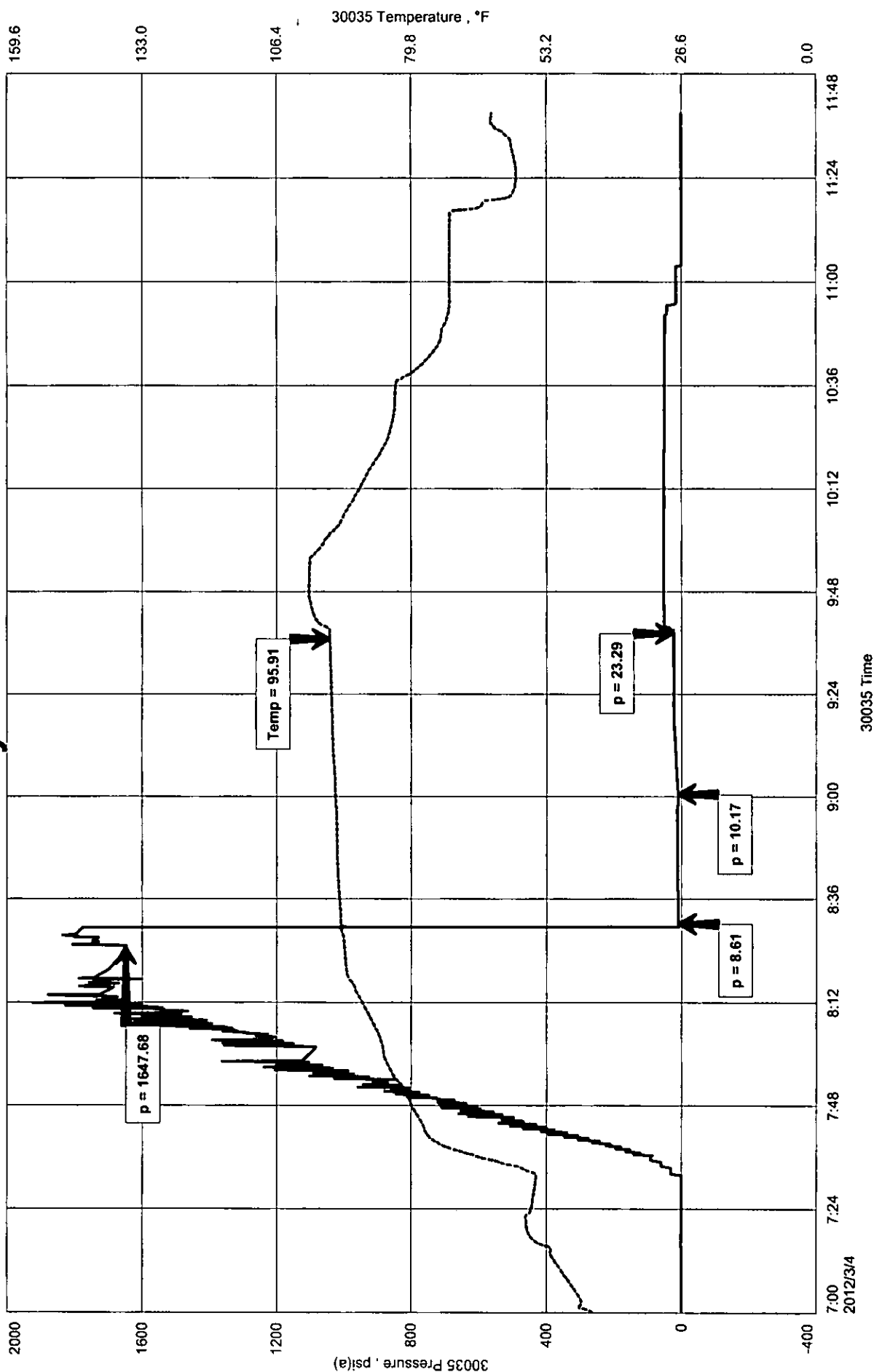
Final Hydrostatic Pressure..... (H) 1648 P.S.I.

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LD Drilling Inc
 DST #2 Conglomerate 3480-3520'
 Start Test Date: 2012/03/04
 Final Test Date: 2012/03/04

Joyce #3-22
 Formation: DST #2 Conglomerate 3480-3520'
 Pool: Wildcat
 Job Number: S0104

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis		
Well Name	Joyce #3-22	Job Number	S0104
Unique Well ID	DST #2 Conglomerate 3480-3520'	Representative	Jacob McCallie
Surface Location	SEC 22-21S-12W Stafford County	Well Operator	LD Drilling Inc
Well License Number		Report Date	2012/03/04
Field	Saundra	Prepared By	Jacob McCallie
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #2 Conglomerate 3480-3520'		
Well Fluid Type	01 Oil	Start Test Time	07:00:00
		Final Test Time	11:40:00
Start Test Date	2012/03/04		
Final Test Date	2012/03/04		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

3'	DM	100% DM
3'	TOTAL FLUID	

TOOL SAMPLE:

100% DM



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST3

TIME ON: 20:10:00 3-4-12

TIME OFF: 03:15:00 3-5-12

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0105
Date 3-5-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3530 ft. to 3507 ft. Total Depth 3607 ft.

Packer Depth 3525 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3530 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3518 ft. Recorder Number 30035 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 3604 ft. Recorder Number 3851 Cap. 5700 P.S.I.

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

Mud Type Chem Viscosity 62 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3385 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 77 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: 1/2" Blow- Built to 4 1/4" in 30 min **NOBB**

2nd Open: 1" Blow- Built to 8" in 45 min **1 1/2" BB**

Recovered 126 ft. of GIP

Recovered 8 ft. of CO 100% CO GRAVITY: 37 @ 60 degrees F

Recovered 52 ft. of Oily Mud 18% OIL 82% MUD

Recovered 62 ft. of TOTAL FLUID

Recovered _____ ft. of _____ Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: _____ Insurance _____

TOOL SAMPLE: 92% OIL 8% MUD Total _____

Time Set Packer(s) 10:08 PM 3-4-12 A.M. P.M. Time Started Off Bottom 1:08 AM 3-5-12 A.M. P.M. Maximum Temperature 99

Initial Hydrostatic Pressure..... (A) 1742 P.S.I.

Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 385 P.S.I.

Final Flow Period..... Minutes 45 (E) 26 P.S.I. to (F) 34 P.S.I.

Final Closed In Period..... Minutes 60 (G) 371 P.S.I.

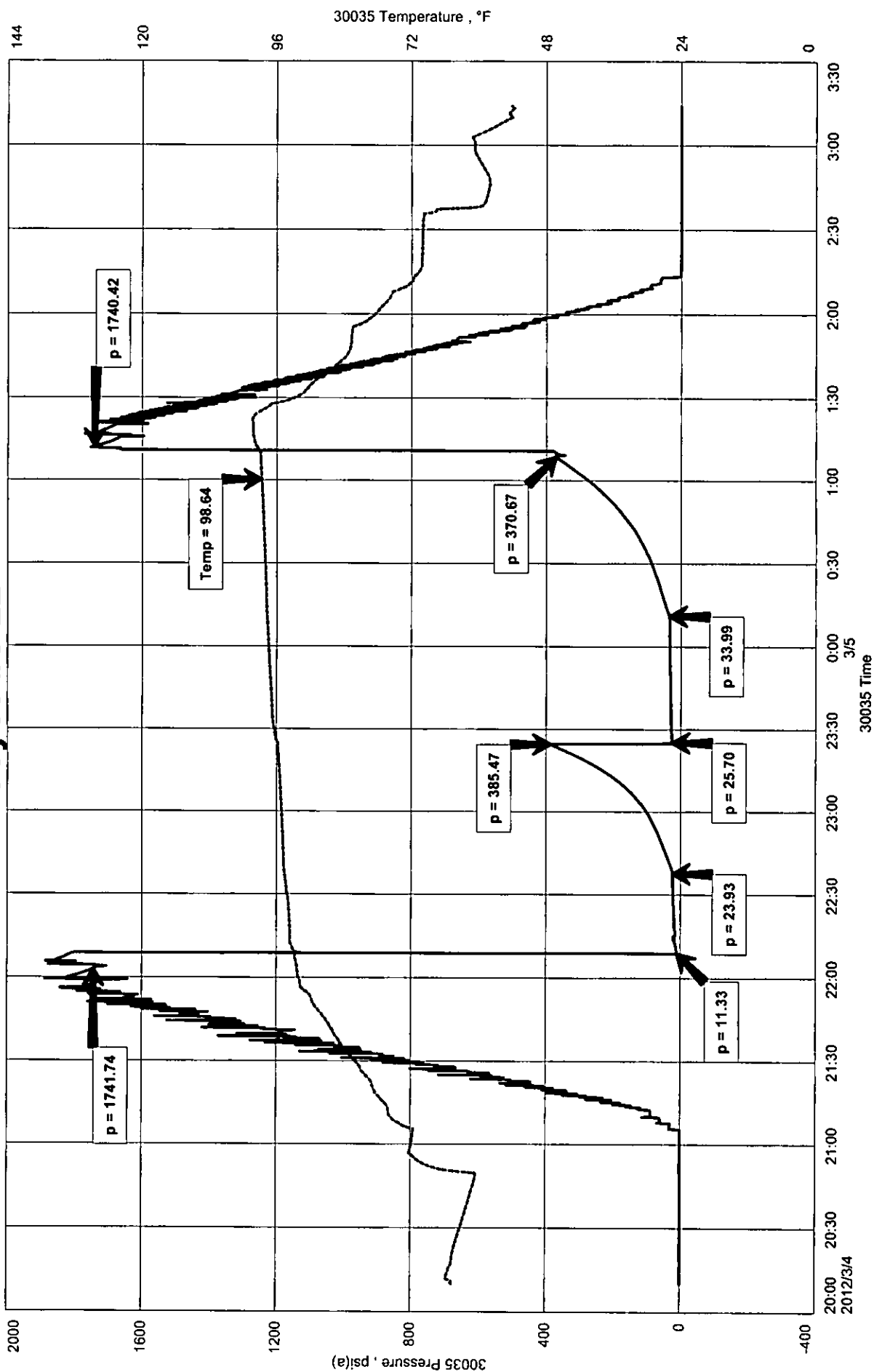
Final Hydrostatic Pressure..... (H) 1740 P.S.I.

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LD Drilling Inc
 DST #3 Arbuckle 3530-3607'
 Start Test Date: 2012/03/04
 Final Test Date: 2012/03/05

Joyce #3-22
 Formation: DST #3 Arbuckle 3530-3607'
 Pool: Wildcat
 Job Number: S0105

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact

LD Davis

Well Name

Joyce #3-22

Job Number

S0105

Unique Well ID

DST #3 Arbuckle 3530-3607'

Representative

Jacob McCallie

Surface Location

SEC 22-21S-12 W Stafford County

Well Operator

LD Drilling Inc

Well License Number

Report Date

2012/03/05

Field

Saundra

Prepared By

Jacob McCallie

Well Type

Vertical

Test Type

Drill Stem Test

Formation

DST #3 Arbuckle 3530-3607'

Well Fluid Type

01 Oil

Start Test Time

20:10:00

Final Test Time

03:15:00

Start Test Date

2012/03/04

Final Test Date

2012/03/05

Gauge Name

30035

Gauge Serial Number

Test Results

RECOVERY:

126'

GIP

8'

CO

100% CO

GRAVITY: 37 @ 60 degrees F

54'

Oily Mud

18% OIL 82% MUD

62'

TOTAL FLUID

TOOL SAMPLE:

92% OIL 8% MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST4

TIME ON: 08:14:00

TIME OFF: 15:00:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0106
Date 3-5-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 4 Interval Tested from 3607 ft. to 3620 ft. Total Depth 3620 ft.

Packer Depth 3602 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3607 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3595 ft. Recorder Number 30035 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 3617 ft. Recorder Number 3851 Cap. 5700 P.S.I.

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

Mud Type Chem Viscosity 62 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3462 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 13 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 1/4" in 30 min

NOBB

2nd Open: WSB- Built to 1/4" in 45 min

NOBB

Recovered 10 ft. of Oil Specked Mud 1% OIL 99% MUD

Recovered 10 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Flushed tool on second open.

Price Job

Other Charges

Insurance

TOOL SAMPLE: 3% OIL 97% MUD

Total

Time Set Packer(s) 10:10 AM A.M. P.M. Time Started Off Bottom 1:10 PM A.M. P.M. Maximum Temperature 99

Initial Hydrostatic Pressure..... (A) 1723 P.S.I.

Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 358 P.S.I.

Final Flow Period..... Minutes 45 (E) 20 P.S.I. to (F) 64 P.S.I.

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

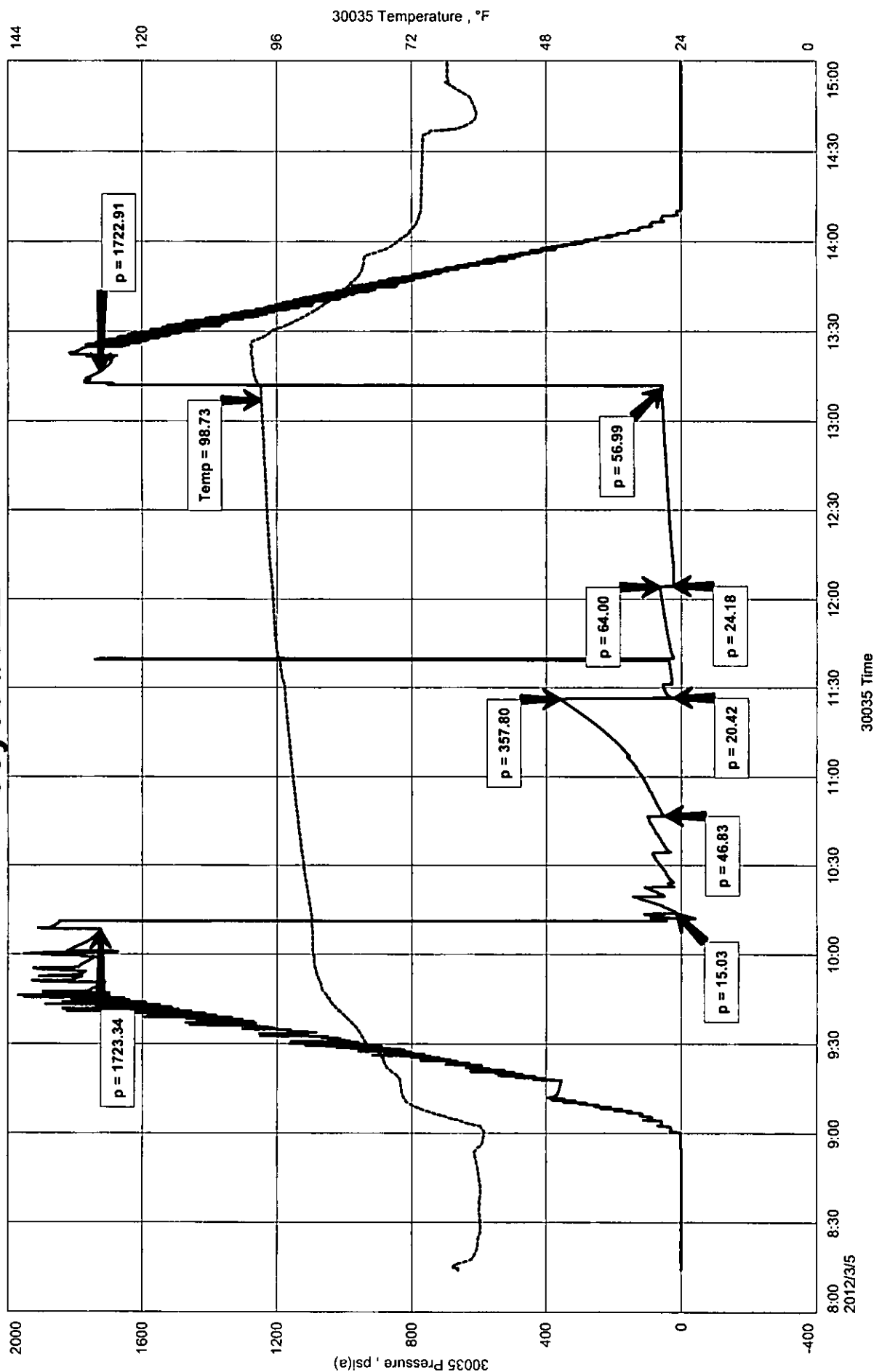
Final Hydrostatic Pressure..... (H) 1723 P.S.I.

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Joyce #3-22
 Formation: DST #4 Arbuckle 3607-3620'
 Pool: Wildcat
 Job Number: S0106

LD Drilling INC
 DST #4 Arbuckle 3607-3620'
 Start Test Date: 2012/03/05
 Final Test Date: 2012/03/05

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling INC

Contact

LD Davis

Well Name

Joyce #3-22

Job Number

S0106

Unique Well ID

DST #4 Arbuckle 3607-3620'

Representative

Jacob McCallie

Surface Location

SEC 22-21S-12W Stafford County

Well Operator

LD Drilling INC

Well License Number

Report Date

2012/03/05

Field

Saundra

Prepared By

Jacob McCallie

Well Type

Vertical

Test Type

Drill Stem Test

Formation

DST #4 Arbuckle 3607-3620'

Well Fluid Type

01 Oil

Start Test Time

08:14:00

Final Test Time

15:00:00

Start Test Date

2012/03/05

Final Test Date

2012/03/05

Gauge Name

30035

Gauge Serial Number

Test Results

RECOVERED:

10'

Oily Specked Mud

1% Oil 99% MUD

10'

TOTAL FLUID

TOOL SAMPLE:

3% OIL 97% MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST5

TIME ON: 00:44:00

TIME OFF: 07:46:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0107
Date 3-6-12 Sec. 22 Twp. _____ 21 S Range _____ 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 5 Interval Tested from 3620 ft. to 3635 ft. Total Depth 3635 ft.

Packer Depth 3615 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3620 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3608 ft. Recorder Number 30035 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 3632 ft. Recorder Number 3851 Cap. 5700 P.S.I.

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

Mud Type Chem Viscosity 65 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3475 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 15 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: 1/4" Blow- Built to 2 1/2" in 30 min **NOBB**

2nd Open: 1/2" Blow- Built to 3" in 45 min **NOBB**

Recovered 20 ft. of GIP

Recovered 54 ft. of Gas/Oil Cut WTRY MUD 6% GAS 10% OIL 17% WTR 67% MUD

Recovered 54 ft. of TOTAL FLUID

Recovered _____ ft. of Ph: 9

Recovered _____ ft. of Chlorides: 12,000 ppm

Recovered _____ ft. of _____ Price Job _____

Remarks: _____ Other Charges _____

TOOL SAMPLE: 40% OIL 16% WTR 44% MUD

Total _____

Time Set Packer(s) 2:30 AM A.M. P.M. Time Started Off Bottom 5:30AM A.M. P.M. Maximum Temperature 97

Initial Hydrostatic Pressure..... (A) 1814 P.S.I.

Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 128 P.S.I.

Final Flow Period..... Minutes 45 (E) 23 P.S.I. to (F) 28 P.S.I.

Final Closed In Period..... Minutes 60 (G) 97 P.S.I.

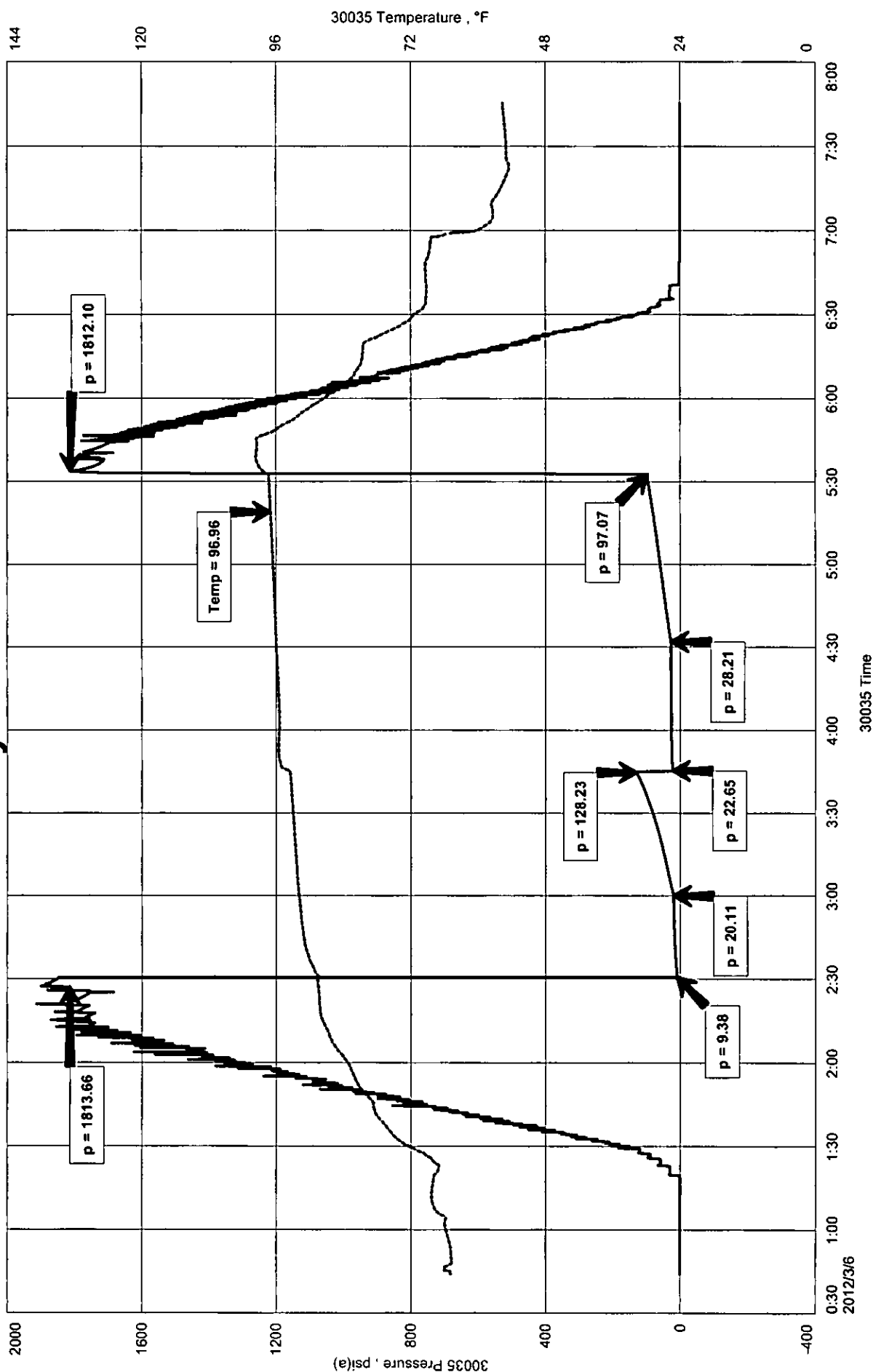
Final Hydrostatic Pressure..... (H) 1812 P.S.I.

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Joyce #3-22
 Formation: DST #5 Arbuckle 3620-3635'
 Pool: Wildcat
 Job Number: S0107

LD Drilling Inc
 DST #5 Arbuckle 3620-3635'
 Start Test Date: 2012/03/06
 Final Test Date: 2012/03/06

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0107
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #5 Arbuckle 3620-3635'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/03/06
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #5 Arbuckle 3620-3635'		
Well Fluid Type	01 Oil	Start Test Time	00:44:00
		Final Test Time	07:46:00
Start Test Date	2012/03/06		
Final Test Date	2012/03/06		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

20'	GIP						
54'	Gas/Oil WTRY MUD	6% Gas	10% Oil	17% WTR	67% Mud		
54'	TOTAL FLUID						

PH: 9
Chlorides: 12,000 ppm

TOOL SAMPLE:

40% OIL 16% WTR 44% MUD