



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joyce2-22dst1

TIME ON: 23:50:00 02-03-12
 TIME OFF: 07:10:00 02-04-12

Company LD Drilling Inc Lease & Well No. Joyce #2-22
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1846KB Formation Lansing C-F Effective Pay _____ Ft. Ticket No. S0084
 Date 2-4-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3290 ft. to 3340 ft. Total Depth 3340 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) 3337 ft. Recorder Number 3851 Cap. 5700 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chem Viscosity 48 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 8,000 P.P.M. Drill Pipe Length 3144 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 50 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" Blow- Built to BB in 13 1/2 min **NOBB**
 2nd Open: 4" Blow- Built to BB in 30 min **NOBB**

Recovered 378 ft. of GIP
 Recovered 3 ft. of DM 100% DM
 Recovered 3 ft. of TOTAL FLUID
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel Fuel In Bucket</u>	Insurance
<u>TOOL SAMPLE: 3% Gas 1% Oil 96% Mud</u>	Total

Time Set Packer(s) 2:15 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 5:00 AM ^{A.M.}/_{P.M.} Maximum Temperature 97

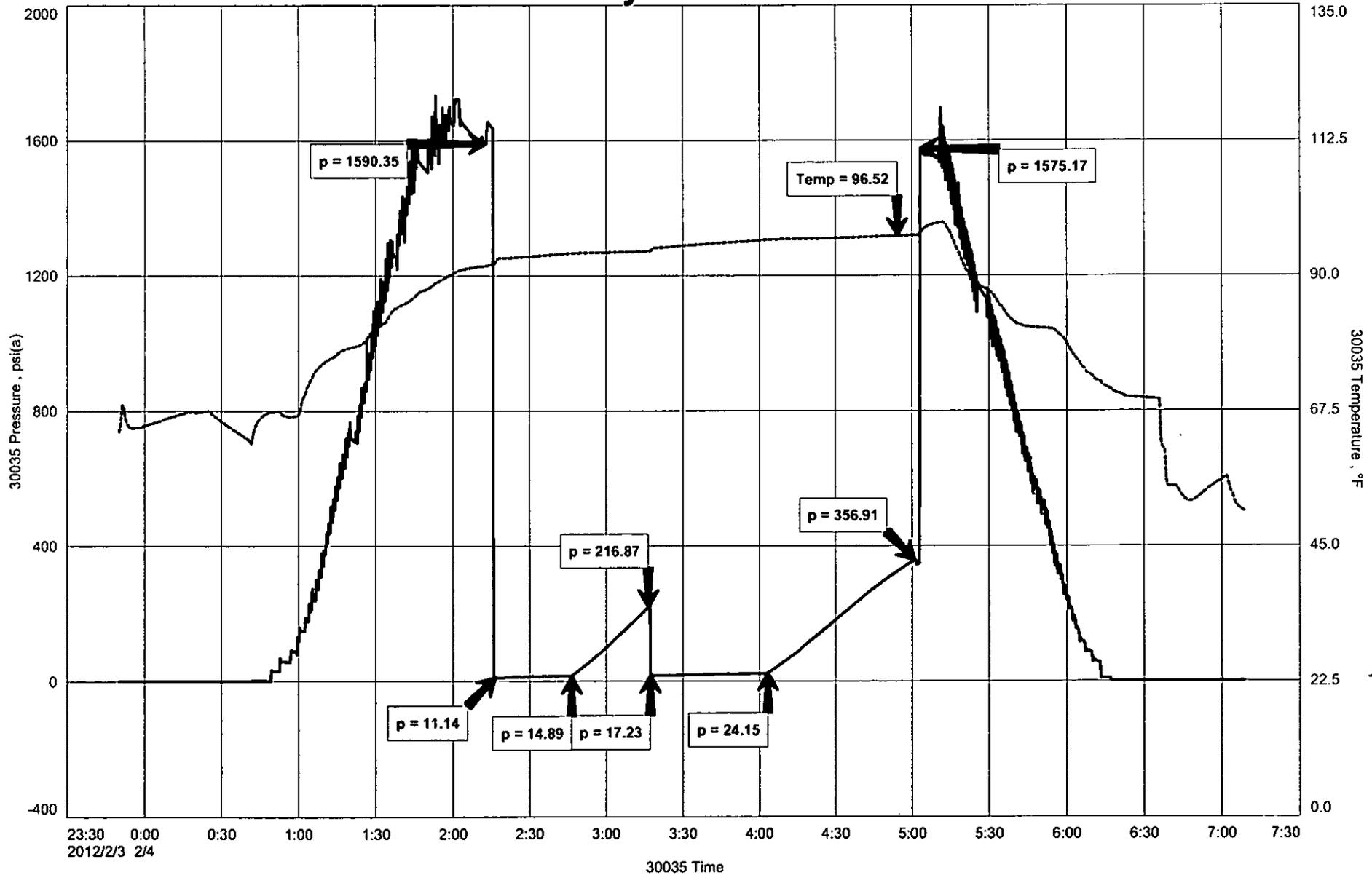
Initial Hydrostatic Pressure..... (A) 1590 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 15 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 217 P.S.I.
 Final Flow Period..... Minutes 45 (E) 17 P.S.I. to (F) 24 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 357 P.S.I.
 Final Hydrostatic Pressure..... (H) 1575 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

LD Drilling Inc.
DST #1 3290-3340' Lansing C-F
Start Test Date: 2012/02/03
Final Test Date: 2012/02/04

Joyce #2-22
Formation: DST #1 3290-3340' Lansing C-F
Pool: Wildcat
Job Number: S0085

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc.

Contact	LD Davis	Job Number	S0085
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #1 3290-3340' Lansing C-F	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/04
Well License Number		Prepared By	Jacob McCallie
Field	Sandra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 3290-3340' Lansing C-F		
Well Fluid Type	02 Gas	Start Test Time	23:50:00
		Final Test Time	07:10:00
Start Test Date	2012/02/03		
Final Test Date	2012/02/04		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

378'	GIP	
3'	DM	100% DM
3'	TOTAL FLUID	

TOOL SAMPLE:

3% GAS 1% OIL 96% MUD



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joyce2-22dst2

TIME ON: 20:52:00 02-04-12
 TIME OFF: 02:18:00 02-05-12

Company LD Drilling Inc Lease & Well No. Joyce #2-22
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1846KB Formation Lansing I-K Effective Pay _____ Ft. Ticket No. S0085
 Date 2-5-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3399 ft. to 3490 ft. Total Depth 3490 ft.
 Packer Depth 3394 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3399 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3387 ft. Recorder Number 30035 Cap. 10000 P.S.I.
 Bottom Recorder Depth (Outside) 3487 ft. Recorder Number 3851 Cap. 5700 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chem Viscosity 68 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 14,000 P.P.M. Drill Pipe Length 3253 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 91 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 1 1/2" in 30 min **NOBB**
 2nd Open: WSB- Built to 1/4" in 30 min **NOBB**

Recovered 5 ft. of Slightly Oil Specked DM 100% DM
 Recovered 5 ft. of TOTAL FLUID
 Recovered _____ ft. of _____
 Remarks: Diesel Fuel In Bucket
 Price Job _____
 Other Charges _____
 Insurance _____
 Total _____
 TOOL SAMPLE: 100% DM

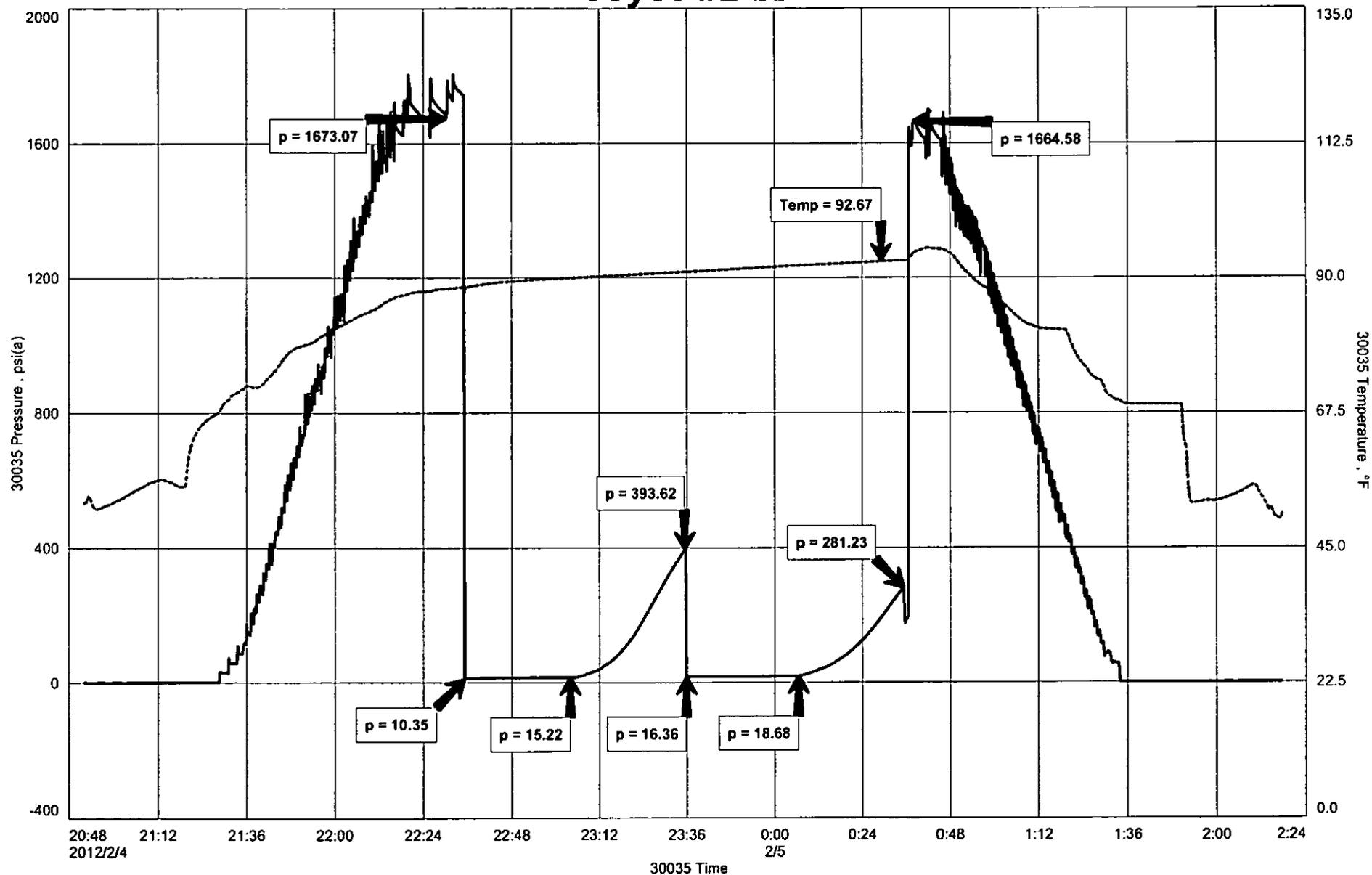
Time Set Packer(s) 10:33 PM A.M. P.M. Time Started Off Bottom 12:33 AM A.M. P.M. Maximum Temperature 93
 Initial Hydrostatic Pressure..... (A) 1673 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 15 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 394 P.S.I.
 Final Flow Period..... Minutes 30 (E) 16 P.S.I. to (F) 19 P.S.I.
 Final Closed In Period..... Minutes 30 (G) 281 P.S.I.
 Final Hydrostatic Pressure..... (H) 1664 P.S.I.

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LD Drilling Inc
DST #2 Lansing I-K 3399-3490'
Start Test Date: 2012/02/04
Final Test Date: 2012/02/05

Joyce #2-22
Formation: DST #2 Lansing I-K 3399-3490'
Pool: Wildcat
Job Number: S0085

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0085
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #2 Lansing I-K 3399-3490'	Well Operator	LD Drilling Inc.
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/05
Well License Number		Prepared By	Jacob McCallie
Field	Sandra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #2 Lansing I-K 3399-3490'		
Well Fluid Type	01 Oil	Start Test Time	20:52:00
		Final Test Time	02:18:00
Start Test Date	2012/02/04		
Final Test Date	2012/02/05		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
5' Slightly Oil Specked DM 100% DM
5' TOTAL FLUID

TOOL SAMPLE:
100% DM



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce2-22dst3

TIME ON: 12:36:00
TIME OFF: 16:19:00

Company LD Drilling Inc Lease & Well No. Joyce #2-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1846KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0086
Date 2-5-12 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 3540 ft. to 3590 ft. Total Depth 3590 ft.
Packer Depth 3535 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3540 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3528 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3587 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 61 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 12,000 P.P.M. Drill Pipe Length 3394 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 50 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: _____
2nd Open: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: <u>PACKER DID NOT SEAT</u>	Price Job
	Other Charges
	Insurance
	Total

TOOL SAMPLE: _____

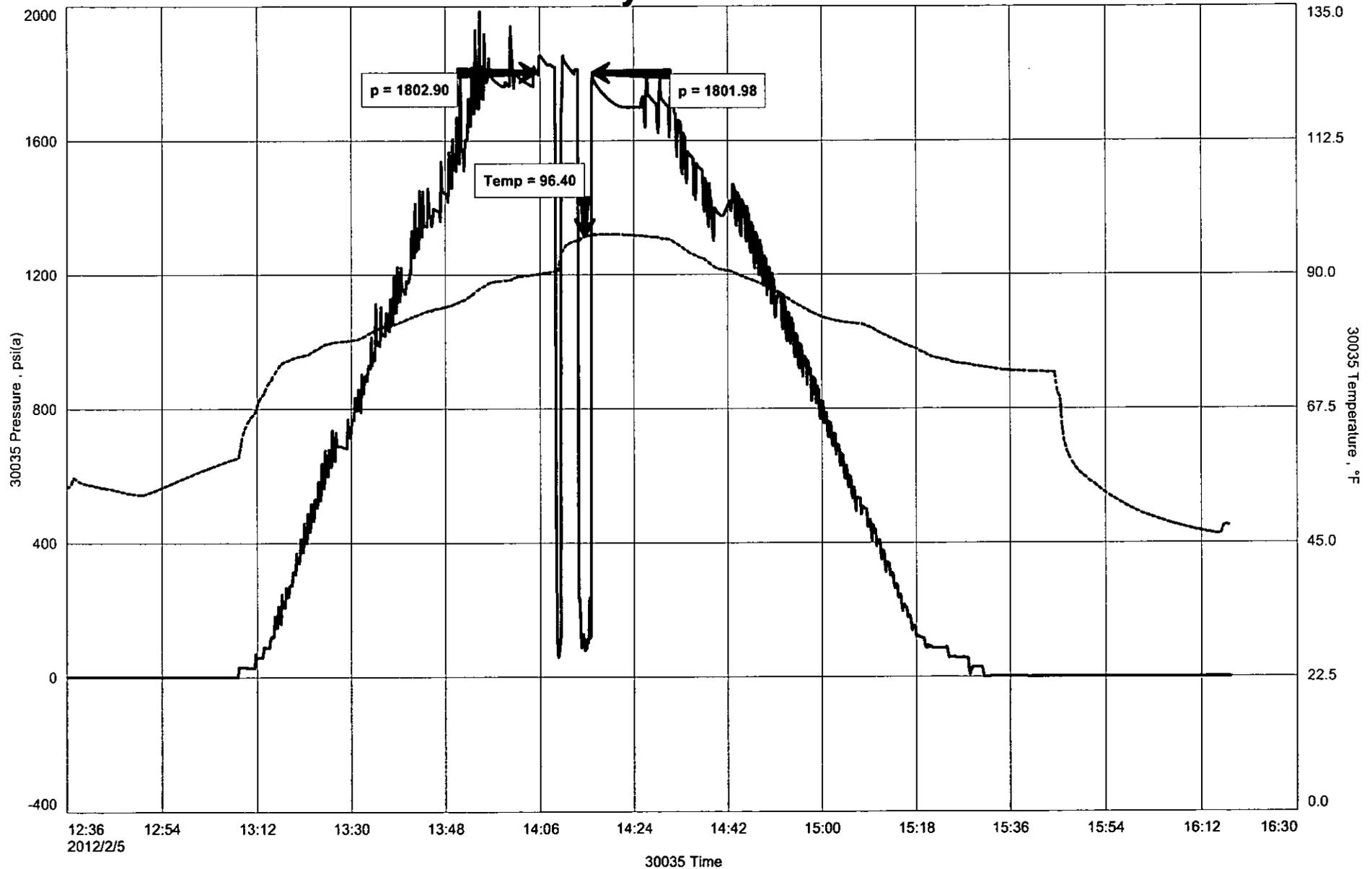
Time Set Packer(s) 2:09 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 2:14 PM ^{A.M.}/_{P.M.} Maximum Temperature 96
Initial Hydrostatic Pressure..... (A) 1803 P.S.I.
Initial Flow Period..... Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes (D) _____ P.S.I.
Final Flow Period..... Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) 1802 P.S.I.

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LD Drilling Inc
DST #3 Arbuckle 3540-3590'
Start Test Date: 2012/02/05
Final Test Date: 2012/02/05

Joyce #2-22
Formation: DST #3 Arbuckle 3540-3590'
Pool: Wildcat
Job Number: S0086

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0086
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #3 Arbuckle 3540-3590'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/05
Well License Number		Prepared By	Jacob McCallie
Field	Saunda		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #3 Arbuckle 3540-3590'		
Well Fluid Type	01 Oil	Start Test Time	12:36:00
		Final Test Time	16:19:00
Start Test Date	2012/02/05		
Final Test Date	2012/02/05		
Gauge Name	30035		
Gauge Serial Number			

Test Results

Packer did not seat.



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joyce2-22dst4

TIME ON: 16:23:00
 TIME OFF: 22:53:00

Company LD Drilling Inc Lease & Well No. Joyce #2-22
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1846KB Formation _____ Arbuckle Effective Pay _____ Ft. Ticket No. S0087
 Date 2-5-12 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 3530 ft. to 3590 ft. Total Depth 3590 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) _____ 3587 ft. Recorder Number 3851 Cap. 5700 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type Chem Viscosity 61 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 12,000 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 60 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 1/2" Blow- Built to 5" in 30 min **NOBB**
 2nd Open: 1/2"- Built to 10" in 45 min

Recovered 122 ft. of GIP
 Recovered 5 ft. of CO 100% CO GRAVITY: 37.5 @ 60 degrees F
 Recovered 120 ft. of Oil/WTR Cut MUD 10% OIL 10% WTR 80% MUD
 Recovered 125 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel Fuel In Bucket</u>	Insurance
<u>TOOL SAMPLE: 50% OIL 10% WTR 40% MUD</u>	Total

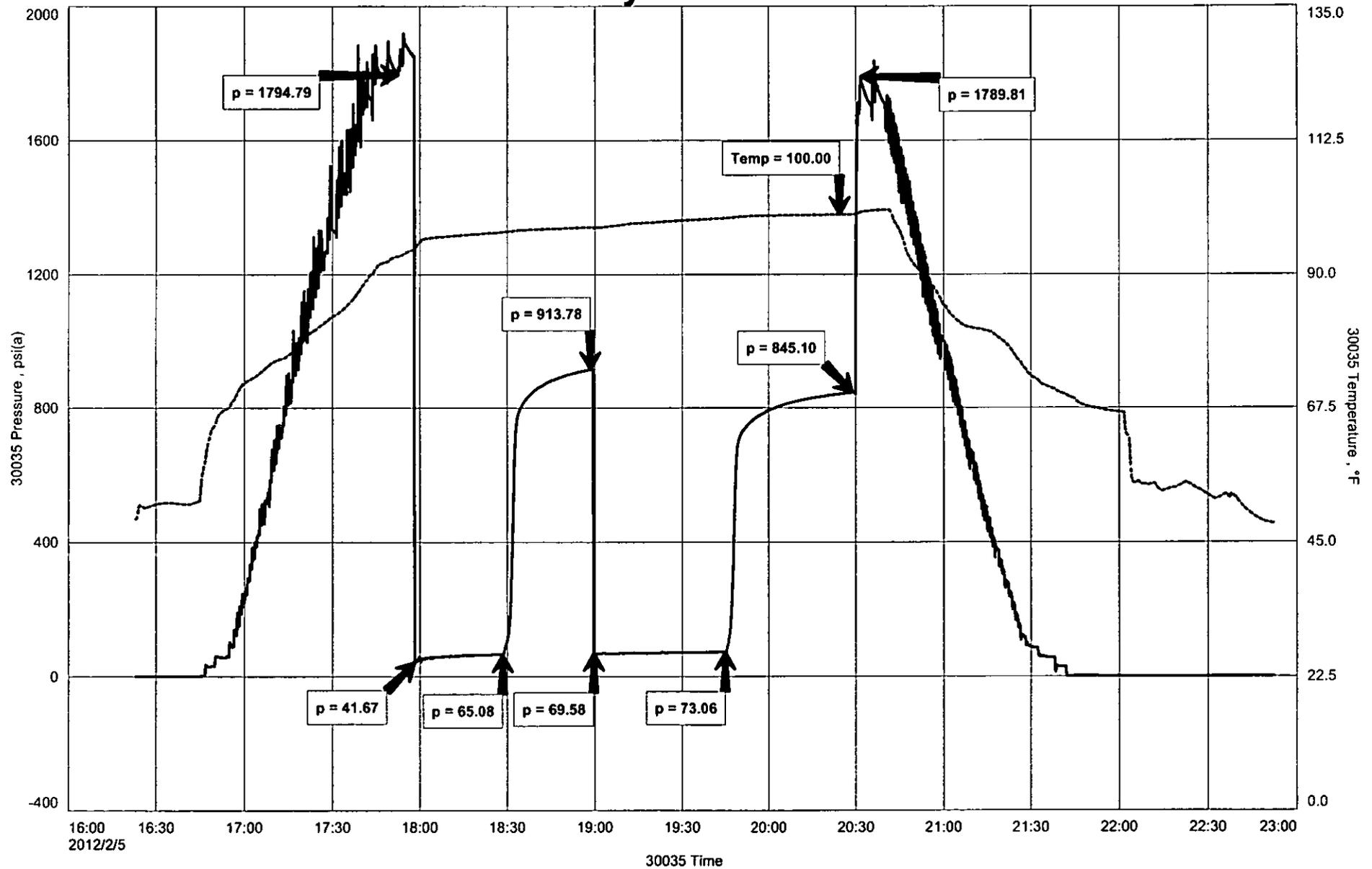
Time Set Packer(s) 5:58 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 8:28 PM ^{A.M.}/_{P.M.} Maximum Temperature 100
 Initial Hydrostatic Pressure..... (A) 1795 P.S.I.
 Initial Flow Period..... Minutes 30 (B) _____ 42 P.S.I. to (C) _____ 65 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) _____ 914 P.S.I.
 Final Flow Period..... Minutes 45 (E) _____ 70 P.S.I. to (F) _____ 73 P.S.I.
 Final Closed In Period..... Minutes 45 (G) _____ 845 P.S.I.
 Final Hydrostatic Pressure..... (H) _____ 1790 P.S.I.

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LD Drilling Inc
DST #4 Arbuckle 3530-3590'
Start Test Date: 2012/02/05
Final Test Date: 2012/02/05

Joyce #2-22
Formation: DST #4 Arbuckle 3530-3590'
Pool: Wildcat
Job Number: S0087

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0087
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #4 Arbuckle 3530-3590'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/05
Well License Number		Prepared By	Jacob McCallie
Field	Saudra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #4 Arbuckle 3530-3590'		
Well Fluid Type	01 Oil	Start Test Time	16:23:00
		Final Test Time	22:53:00
Start Test Date	2012/02/05		
Final Test Date	2012/02/05		
Gauge Name	30035		
Gauge Serial Number			

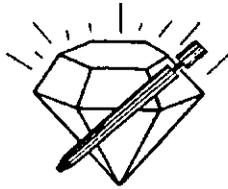
Test Results

RECOVERED:

122	GIP			
5'	CO	100% CO		GRAVITY: 37.5 @ 60 degrees F
120'	OC/WTRC MUD	10% OIL 10% WTR	80% MUD	
125'	TOTAL FLUID			

TOOL SAMPLE:

50% OIL 10% WTR 40% MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce2-22dst5

TIME ON: 03:22:00
TIME OFF: 10:04:00

Company LD Drilling Inc Lease & Well No. Joyce #2-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1846KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0088
Date 2-6-12 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 3590 ft. to 3602 ft. Total Depth 3602 ft.
Packer Depth 3585 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3590 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3578 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3599 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 61 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 12,000 P.P.M. Drill Pipe Length 3444 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 12 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 BB in 26 1/2 min 2" BB
2nd Open: 1/2"- Built to BB in 17 1/2 min 1/2" BB

Recovered 315 ft. of GIP
Recovered 55 ft. of CO 100% CO GRAVITY: 38 @ 60 degrees F
Recovered 60 ft. of WTR/OIL Cut MUD 13% OIL 5% WTR 82% MUD
Recovered 115 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel Fuel In Bucket</u>	Insurance
<u>TOOL SAMPLE: 100% CO</u>	Total

Time Set Packer(s) 5:15 AM A.M. P.M. Time Started Off Bottom 8:15 AM A.M. P.M. Maximum Temperature 99

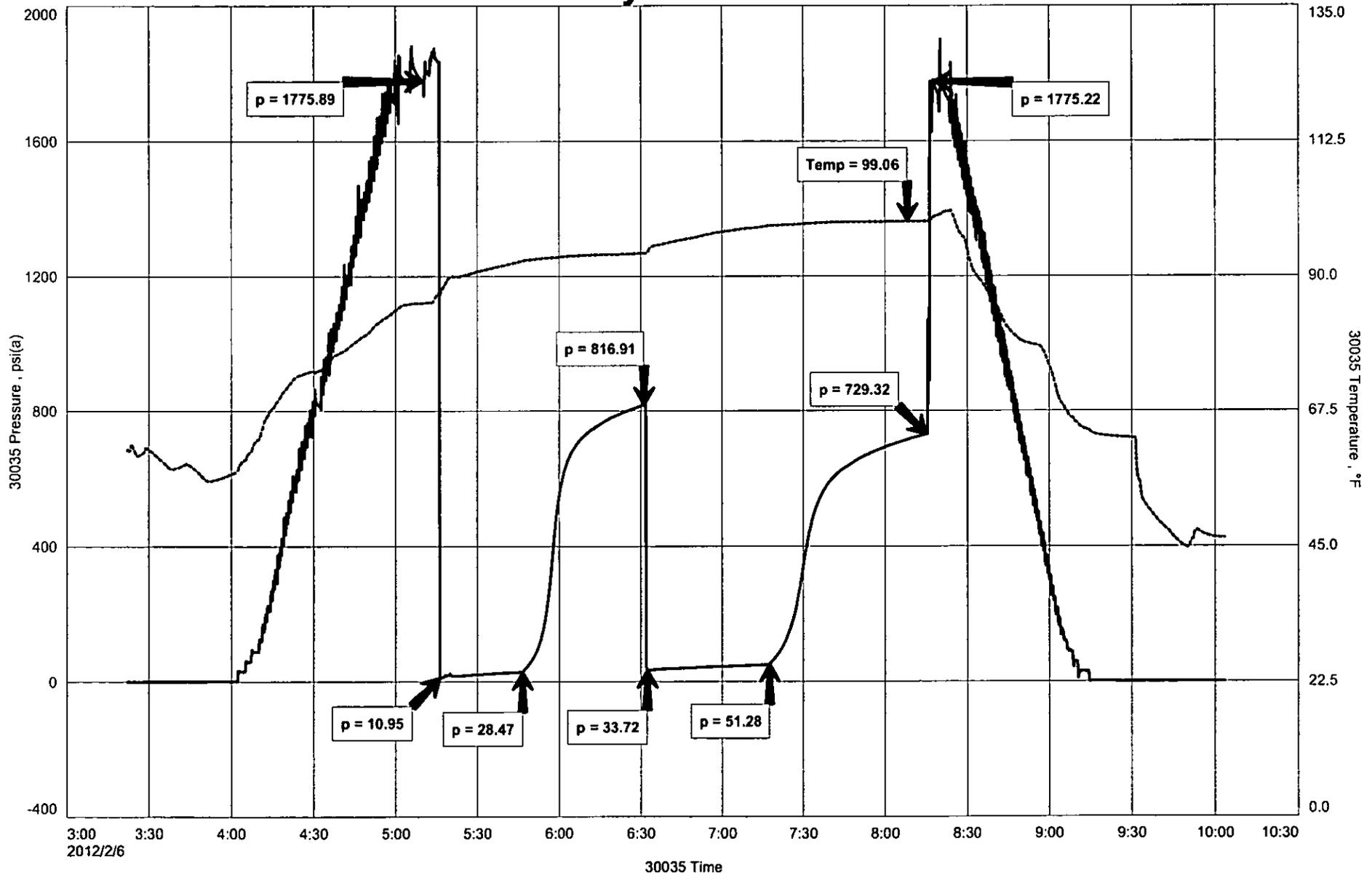
Initial Hydrostatic Pressure..... (A) 1776 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 28 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 817 P.S.I.
Final Flow Period..... Minutes 45 (E) 34 P.S.I. to (F) 51 P.S.I.
Final Closed In Period..... Minutes 60 (G) 729 P.S.I.
Final Hydrostatic Pressure..... (H) 1775 P.S.I.

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LD Drilling Inc
DST #5 Arbuckle 3590-3602'
Start Test Date: 2012/02/06
Final Test Date: 2012/02/06

Joyce #2-22
Formation: DST #5 Arbuckle 3590-3602'
Pool: Wildcat
Job Number: S0088

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0088
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #5 Arbuckle 3590-3602'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/06
Well License Number		Prepared By	Jacob McCallie
Field	Saudra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #5 Arbuckle 3590-3602'		
Well Fluid Type	01 Oil	Start Test Time	03:22:00
		Final Test Time	10:04:00
Start Test Date	2012/02/06		
Final Test Date	2012/02/06		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

315'	GIP				
55'	CO	100% CO			GRAVITY: 38 @ 60 degrees F
60'	WTR/OIL Cut Mud	13% OIL	5% WTR	82% Mud	
115'	TOTAL FLUID				

TOOL SAMPLE:

100% CO



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joyce2-22dst6

TIME ON: 15:30:00
 TIME OFF: 21:57:00

Company LD Drilling Inc Lease & Well No. Joyce #2-22
 Contractor Petromark Rig #2 Charge to LD Drilling Inc
 Elevation 1846KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0089
 Date 2-6-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 6 Interval Tested from 3602 ft. to 3614 ft. Total Depth 3614 ft.
 Packer Depth 3597 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3602 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3590 ft. Recorder Number 30035 Cap. 10000 P.S.I.
 Bottom Recorder Depth (Outside) 3611 ft. Recorder Number 3851 Cap. 5700 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length 120 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 12,000 P.P.M. Drill Pipe Length 3456 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 12 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 1 1/2" in 30 min **NOBB**
 2nd Open: WSB- Built to 1/2" in 45 min **NOBB**

Recovered 15 ft. of Oil Cut Mud 10% Oil 90% Mud

Recovered 15 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Remarks: Diesel Fuel In Bucket

TOOL SAMPLE: 8% OIL 92% MUD

Time Set Packer(s) 5:21 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 8:06 PM ^{A.M.}/_{P.M.} Maximum Temperature 95

Initial Hydrostatic Pressure..... (A) 1781 P.S.I.

Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 35 P.S.I.

Final Flow Period..... Minutes 45 (E) 18 P.S.I. to (F) 20 P.S.I.

Final Closed In Period..... Minutes 60 (G) 39 P.S.I.

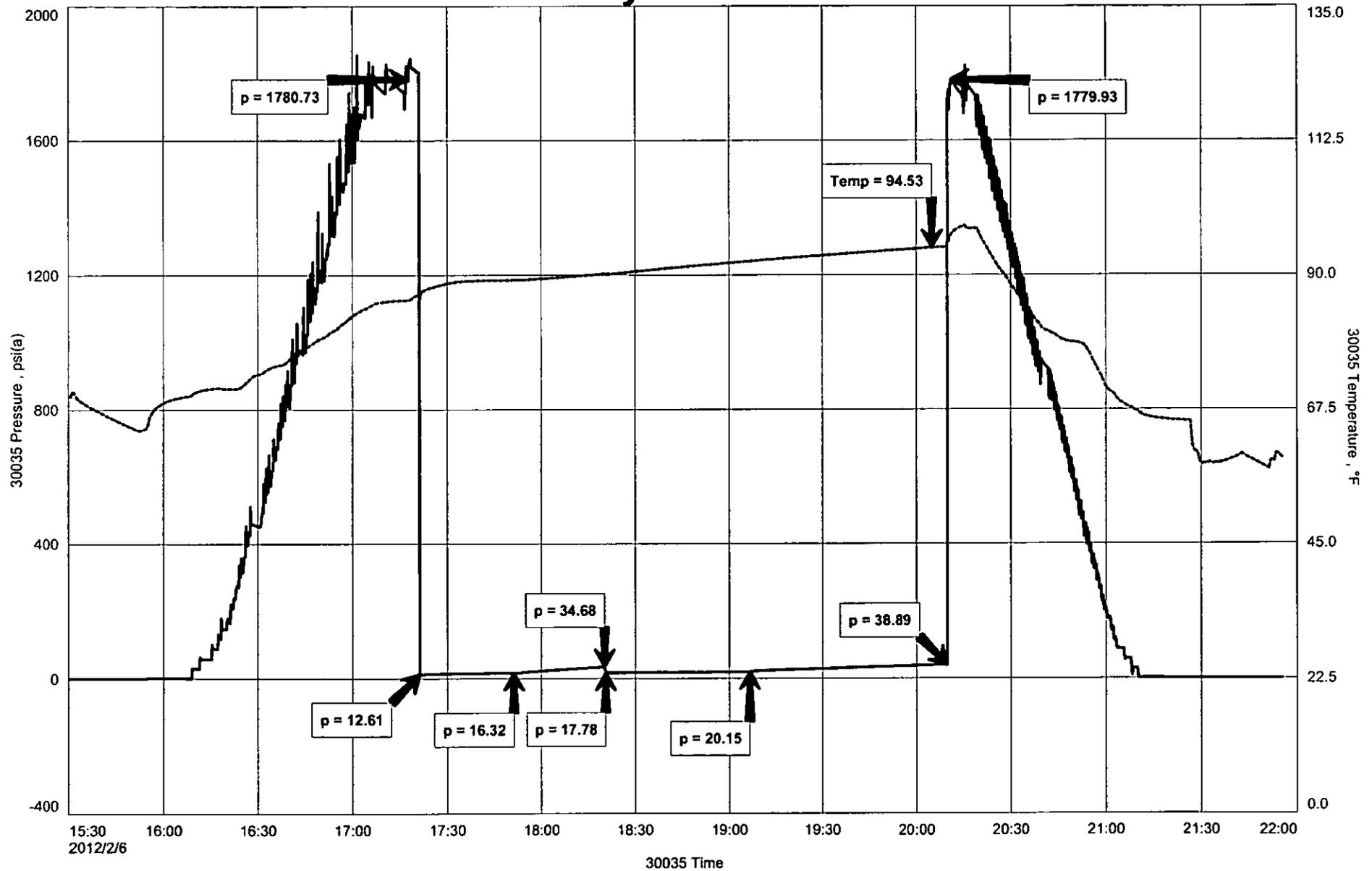
Final Hydrostatic Pressure..... (H) 1780 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnet of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

LD Drilling Inc
DST #6 Arbuckle 3602-3614'
Start Test Date: 2012/02/06
Final Test Date: 2012/02/06

Joyce #2-22
Formation: DST #6 Arbuckle 3602-3614'
Pool: Wildcat
Job Number: S0089

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0089
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #6 Arbuckle 3602-3614'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/02/06
Well License Number		Prepared By	Jacob McCallie
Field	Sandra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #6 Arbuckle 3602-3614'		
Well Fluid Type	01 Oil	Start Test Time	15:30:00
		Final Test Time	21:57:00
Start Test Date	2012/02/06		
Final Test Date	2012/02/06		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
15' Oil Cut Mud 10% OIL 90% MUD
15' TOTAL FLUID

TOOL SAMPLE:
8% OIL 92% MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce2-22dst7

TIME ON: 02:58:00
TIME OFF: 09:39:00

Company LD Drilling Inc Lease & Well No. Joyce #2-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc
Elevation 1846KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0090
Date 2-7-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 7 Interval Tested from 3614 ft. to 3626 ft. Total Depth 3626 ft.
Packer Depth 3609 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3614 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3602 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3623 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 53 Drill Collar Length 120 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 12,000 P.P.M. Drill Pipe Length 3468 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 12 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 2" in 30 min **NOBB**
2nd Open: 1/4"- Built to 3" in 45 min **NOBB**

Recovered 30 ft. of GIP
Recovered 30 ft. of Oil Cut MUD 11% OIL 89% MUD
Recovered 30 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Diesel Fuel In Bucket</u>	Insurance
<u>TOOL SAMPLE: 30% OIL 70% MUD</u>	Total

Time Set Packer(s) 5:00 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 7:45 AM ^{A.M.}/_{P.M.} Maximum Temperature 96

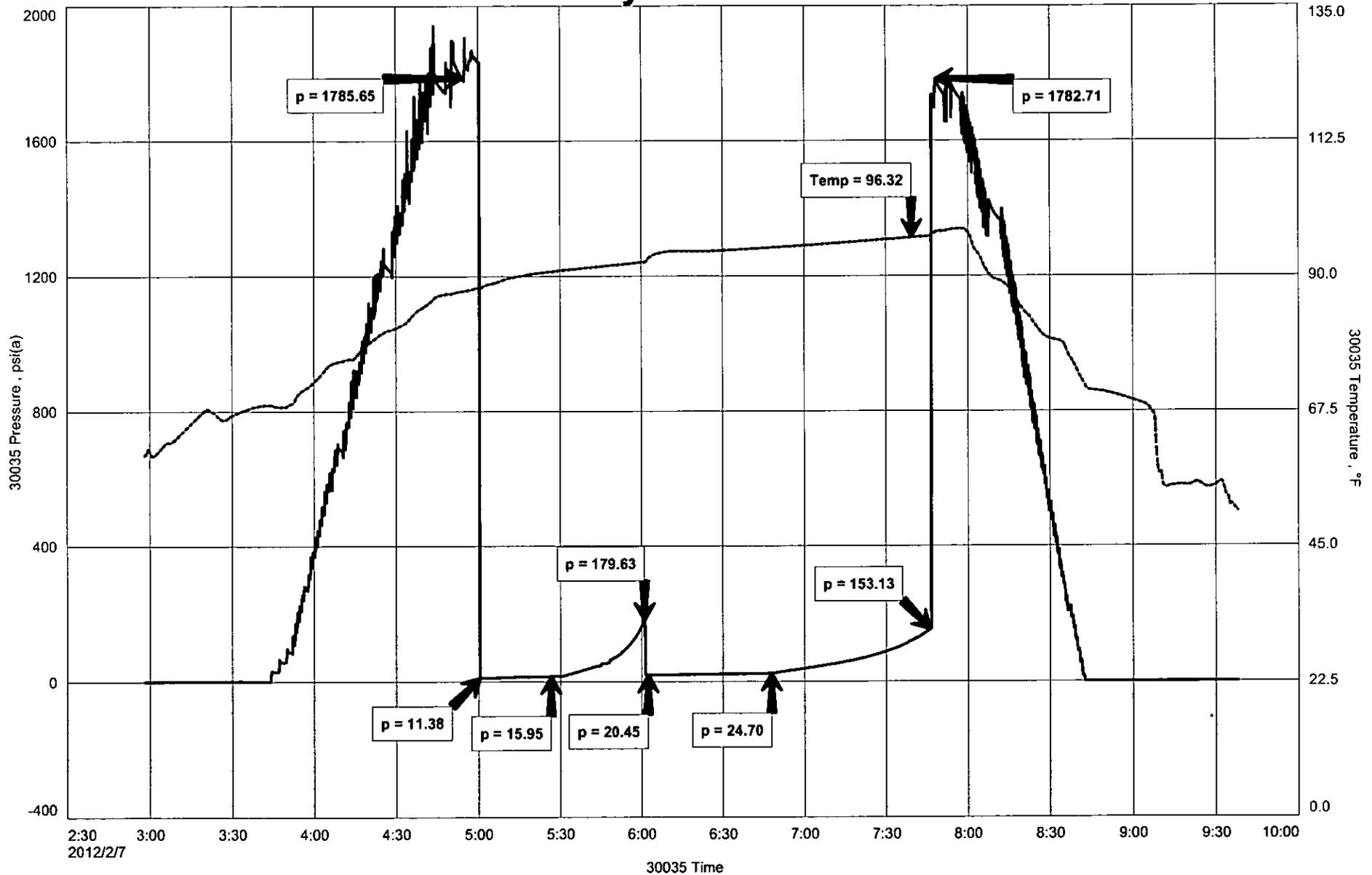
Initial Hydrostatic Pressure..... (A) 1786 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 180 P.S.I.
Final Flow Period..... Minutes 45 (E) 20 P.S.I. to (F) 25 P.S.I.
Final Closed In Period..... Minutes 60 (G) 153 P.S.I.
Final Hydrostatic Pressure..... (H) 1783 P.S.I.

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LD Drilling Inc
DST #7 Arbuckle 3614-3626'
Start Test Date: 2012/02/07
Final Test Date: 2012/02/07

Joyce #2-22
Formation: DST #7 Arbuckle 3614-3626'
Pool: Wildcat
Job Number: S0090

Joyce #2-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0090
Well Name	Joyce #2-22	Representative	Jacob McCallie
Unique Well ID	DST #7 Arbuckle 3614-3626'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21W-12S Stafford County	Report Date	2012/02/07
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #7 Arbuckle 3614-3626'		
Well Fluid Type	01 Oil	Start Test Time	02:58:00
		Final Test Time	09:39:00
Start Test Date	2012/02/07		
Final Test Date	2012/02/07		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

30'	GIP	
30'	Oil Cut Mud	11% OIL 89% MUD
30'	TOTAL FLUID	

TOOL SAMPLE:

30% OIL 70% MUD