



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1081685

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JOYCE 2-22
Doc ID	1081685

Tops

Name	Top	Datum
HEEBNER	3115	-1269
TORONTO	3125	-1279
DOUGLAS	3146	-1300
BROWN LIME	3249	-1403
LANSING	3260	-1414
BASE KANSAS CITY	3492	-1646
SIMPDON SHALE	3546	-1700
ARBUCKLE	3583	-1737

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JOYCE 2-22
Doc ID	1081685

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Tyep and Percent Additives
SURFACE	12.25	8.625	23	334	A-CONN	175	
SURFACE CONTINUED	12.25	8.625	23	334	COMMON	175	3%CC, 2%Gel,1/4#CF
PRODUCTION	7.875	5.5	14	3695	COMMON	150	
RATHOLE	7.875	5.5	14	3695	60/40 POZMIX	30	



Customer L.D. Williams	Lease No.	Date 1-2-13
Lease Juyco	Well # 2-20	
Field Order # 5645	Station Pratt	Casing 3 1/2"
		Depth 334
Type Job C.N.W. 3 1/2" Surface	Formation	County St. Louis
		State MO
		Legal Description 2.2 21-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
2 7/8"				Acid 175 gal	212 gal		5 Min.	
Depth	Depth	From	To	Pre Pad	Max			
334				175 gal	201 gal			
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
				20				

Customer Representative Jim	Station Manager Dance Scott	Treater Steve Collins
Service Units 07713 33200/30920 19870/19860		
Driver Names C. Adams, D. Mitchell, B. Wood		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:15 AM					On location - Safety Meeting
					Run 3 1/2" 3 1/2" casing
					Casing Bottom
					Break circulation with 100 gal
3:00	200		66	4 1/2	Mix 175 gal Acid on 15 min @ 136 gal
4:10	200		37	4 1/2	Mix 175 gal cement @ 136 gal
					Start Displacement
4:34	0		6	4	Return Plug
4:57	250		10	4	Convert To Surface
4:58 PM	300		20	4	plug Down
					Circulation Test Job
					Cement 116 gal 10 gal
					Job Complete
					Thank Steve



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 05232 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 2-8-12	DISTRICT KANSAS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER L.D. Drilling INC.	LEASE Joyce #2-22	WELL NO.							
ADDRESS	COUNTY Stafford	STATE KANSAS							
CITY	STATE	SERVICE CREW Allen, Keenan, Edmunds, Lawren							
AUTHORIZED BY	JOB TYPE: 5 1/2" Long String CNU								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
#28443 P.U.	1 1/2						2-8-12	AM	8:00
#37586 P.U.	1 1/2					ARRIVED AT JOB	2-8-12	AM	12:30
#19907 P.U.	1 1/2					START OPERATION	2-8-12	AM	3:30
19889-19843	1 1/2					FINISH OPERATION	2-8-12	AM	5:00
19826-19802	1 1/2					RELEASED	2-8-12	AM	5:30
						MILES FROM STATION TO WELL	45-miles		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	Common	SK	150		\$ 2400.00
CP 103	60/40 Por	SK	30		\$ 360.00
CC 102	cell FLAKE	lb	38		\$ 140.60
CC 112	Cement Friction Reducer	lb	43		\$ 258.00
CC 113	Gypsum	lb	705		\$ 528.75
CC 129	FLA-322	lb	43		\$ 322.50
CC 200	Cement Gel	lb	282		\$ 70.50
CF 103	Top Rubber cement Plug 5/2	EA	1		\$ 105.00
CF 251	Guide Shoe Reg. 5/2 "Blue"	EA	1		\$ 250.00
CF 1451	Flapper Type INSERT Float Valve 5/2	EA	1		\$ 215.00
CF 1651	Turbalizer 5/2 "Blue"	EA	6		\$ 1260.00
CF 151	Mud Flush	GAL	1000		\$ 660.00
E 100	Unit mileage charge P.ckup	MR	45		\$ 191.25
E 101	Heavy Equip mileage	MR	90		\$ 630.00
E 113	Bulk Delivery Charge	TR	376		\$ 601.20
CF 204	Depth Charge 3001-4000'	4-hr	1		\$ 2160.00
CF 240	Blending & mixing Service chg.	180	SK		\$ 252.00
CF 504	Plug container 48.000000 chg.	Job	1		\$ 250.00
5003	Service Supervisor first 8hrs on loc.	EA	1		\$ 175.00
SUB TOTAL					\$8,239.55

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Allen F. Ward  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
 (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer L.D. Drilling Inc.	Lease No.	Date
Lease Joyce	Well # 2-22	2-8-12
Field Order # 05732	Station Pratt KS	Casing 5 1/2"
Type Job 5 1/2" Long String	Depth 3695'	County Stafford KS
	Formation T0 3699'	State KS
		Legal Description 22-21-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft		Acid	DATE	PRESS	ISIP	
3695'	Depth	From	To	1000 gal mud flush	24	381	5 Min.	
Volume 89.64 BBL	Volume	From	To	Pre Pad	Max		10 Min.	
Max Press 1000'	Max Press	From	To	30 SKS 60/40 Poz	Min		15 Min.	
Well Connection PC	Annulus Vol.	From	To	Frac	Avg		Annulus Pressure	
Plug Depth 3694'	Packer Depth	From	To	Flush D.S.P. H <sup>2</sup> O	Gas Volume		Total Load	

Customer Representative Jim TP	Station Manager scotty	Treater Allen
Service Units 28443 37586 19889 19845 19826 19860		
Driver Names Allen Keaven Edmundo Mike Lawrence		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1230 pm					D.S. casing. Service Log Petro Mark II on loc. Discuss Safety, Setup Plan Job Rig Laying down Drill Collars out of Hole, Lay down Kelly Rig up to Run 5 1/2 casing.
200					Start 5 1/2 casing 14' Sect. 22:30 w/ Reg. Shoe, Auto insert in collar. 1-3-5-29-11
320					Tag TD @ 3699- Pickup + CIA @ 3698' w/ Rig good air
400	300'		24	5	Pump 1000 gal mud flush
			5	5	Pump 5 BBL H <sup>2</sup> O space-
			38	5	mix + Pump 150 SKS com @ 14.7'
415					Finish mix, Drop Top Rubber Plug wash out Pump + Line.
	500'				5 1/2 START Disp.
430	1000'		89 3/4	4	Caught Lil PSI
	OH				Plug down
			7 BBL		Release PSI - "OK"
					Plug R.H. w/ 30 SKS 60/40 Poz wash up + Rack up Equip.
530					Job Complete.





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
 TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
 Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
 Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
 Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
 Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
 Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
 2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

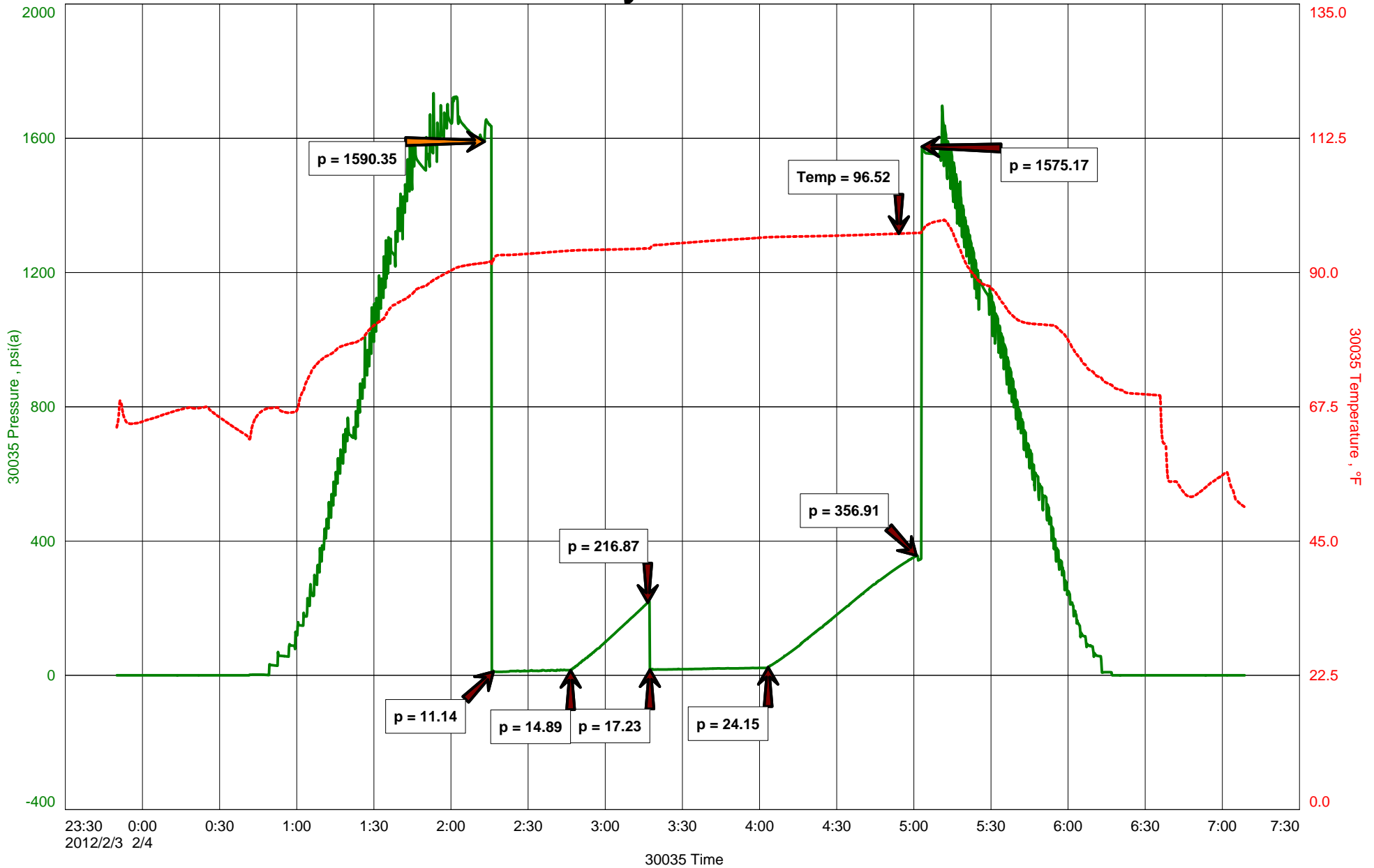
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
 Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
 Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
 Initial Closed In Period..... 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) \_\_\_\_\_ 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.

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

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

### 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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

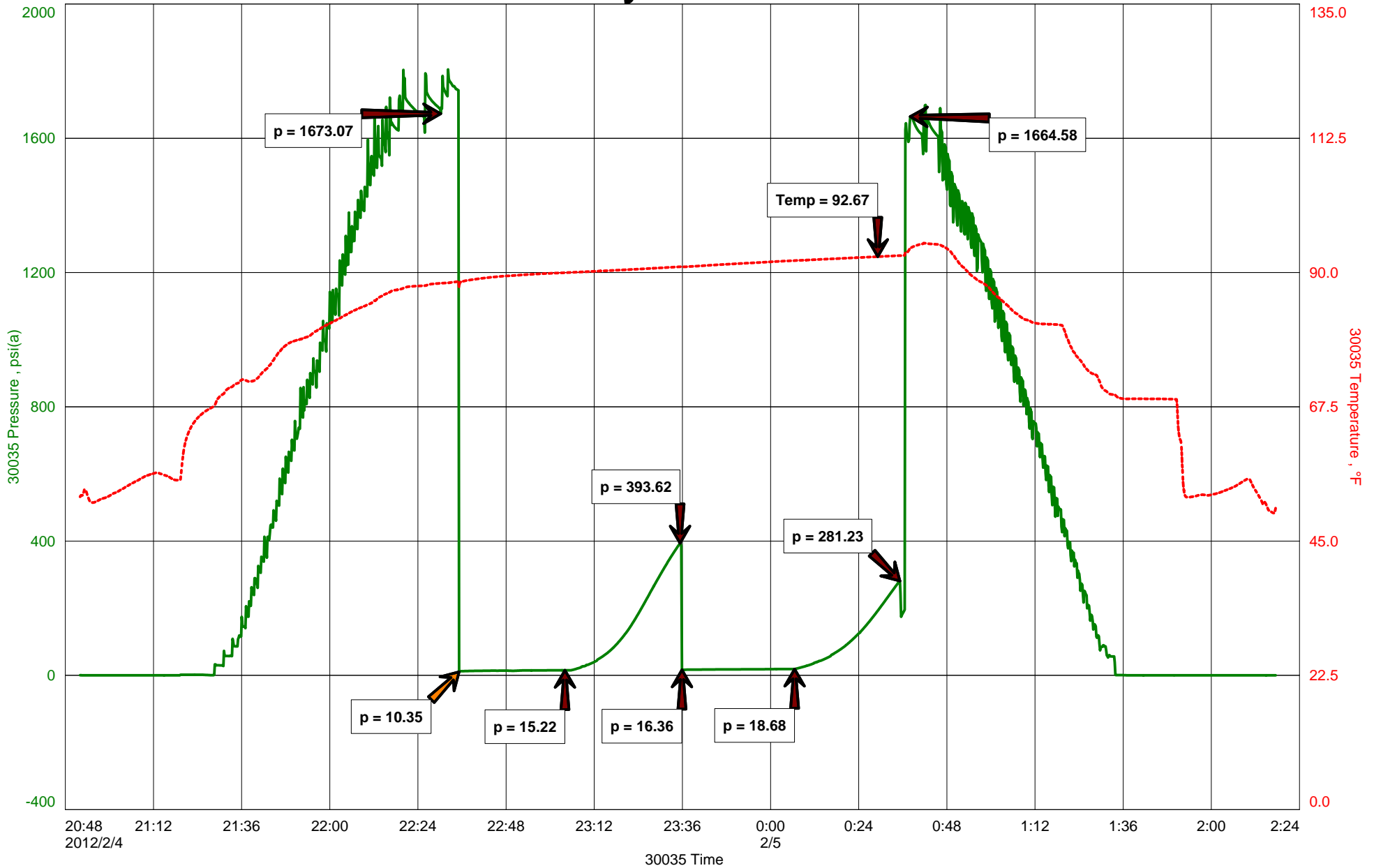
Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ 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) \_\_\_\_\_ P.S.I.

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# Joyce #2-22



# Diamond Testing

## General information Report

### General Information

**Company Name** LD Drilling Inc

**Contact**

LD Davis

**Well Name**

Joyce #2-22

**Job Number**

S0085

**Unique Well ID**

DST #2 Lansing I-K 3399-3490'

**Representative**

Jacob McCallie

**Surface Location**

SEC 22-21S-12W Stafford County

**Well Operator**

LD Drilling Inc.

**Well License Number**

**Report Date**

2012/02/05

**Field**

Saundra

**Prepared By**

Jacob McCallie

**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

**Start Test Date**

2012/02/04

**Final Test Time**

02:18:00

**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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

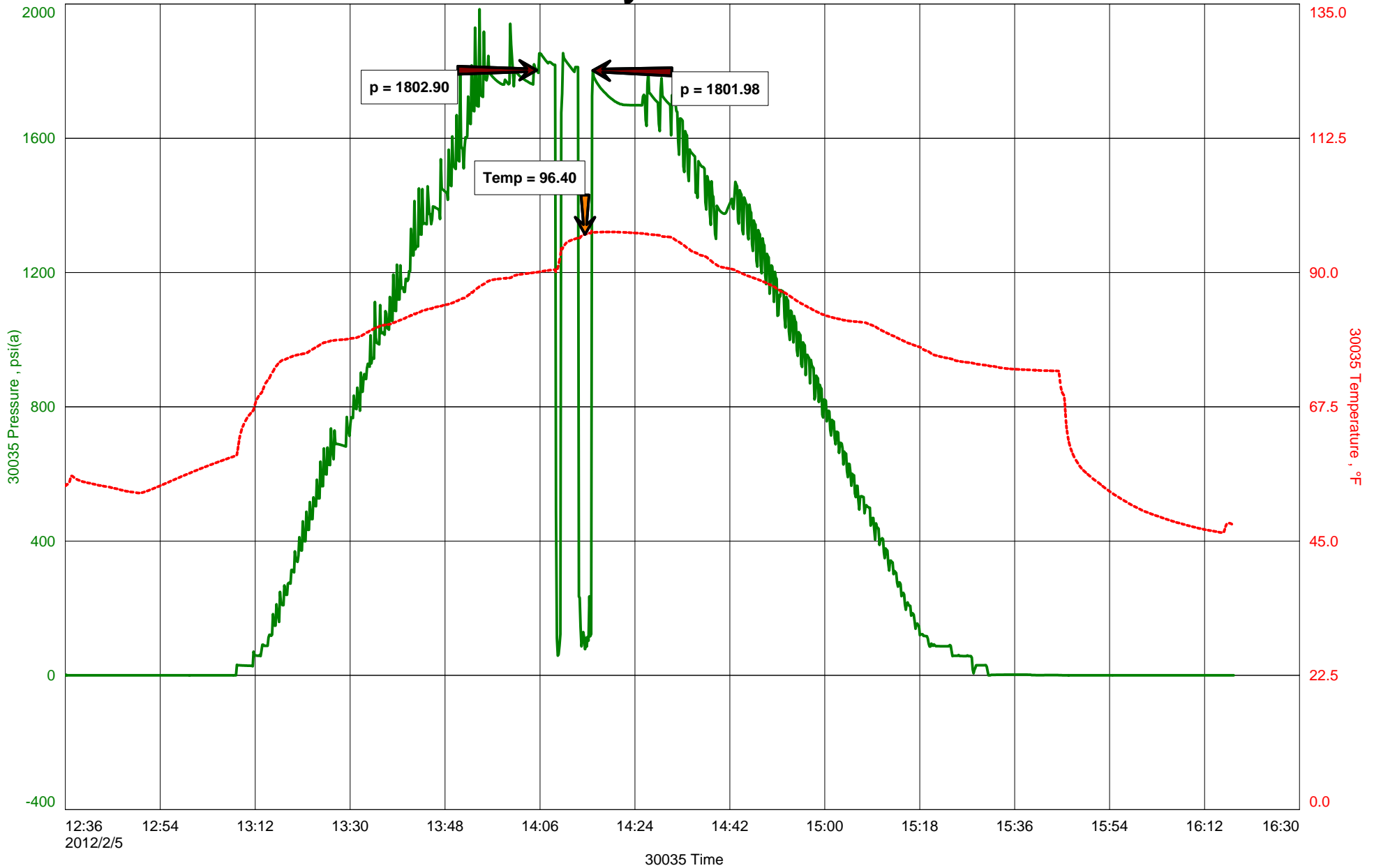
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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) \_\_\_\_\_ 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 #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

**Well Name**

Joyce #2-22

**Job Number**

S0086

**Unique Well ID**

DST #3 Arbuckle 3540-3590'

**Representative**

Jacob McCallie

**Surface Location**

SEC 22-21S-12W Stafford County

**Well Operator**

LD Drilling Inc

**Well License Number**

**Report Date**

2012/02/05

**Field**

Saunda

**Prepared By**

Jacob McCallie

**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

**Start Test Date**

2012/02/05

**Final Test Time**

16:19:00

**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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

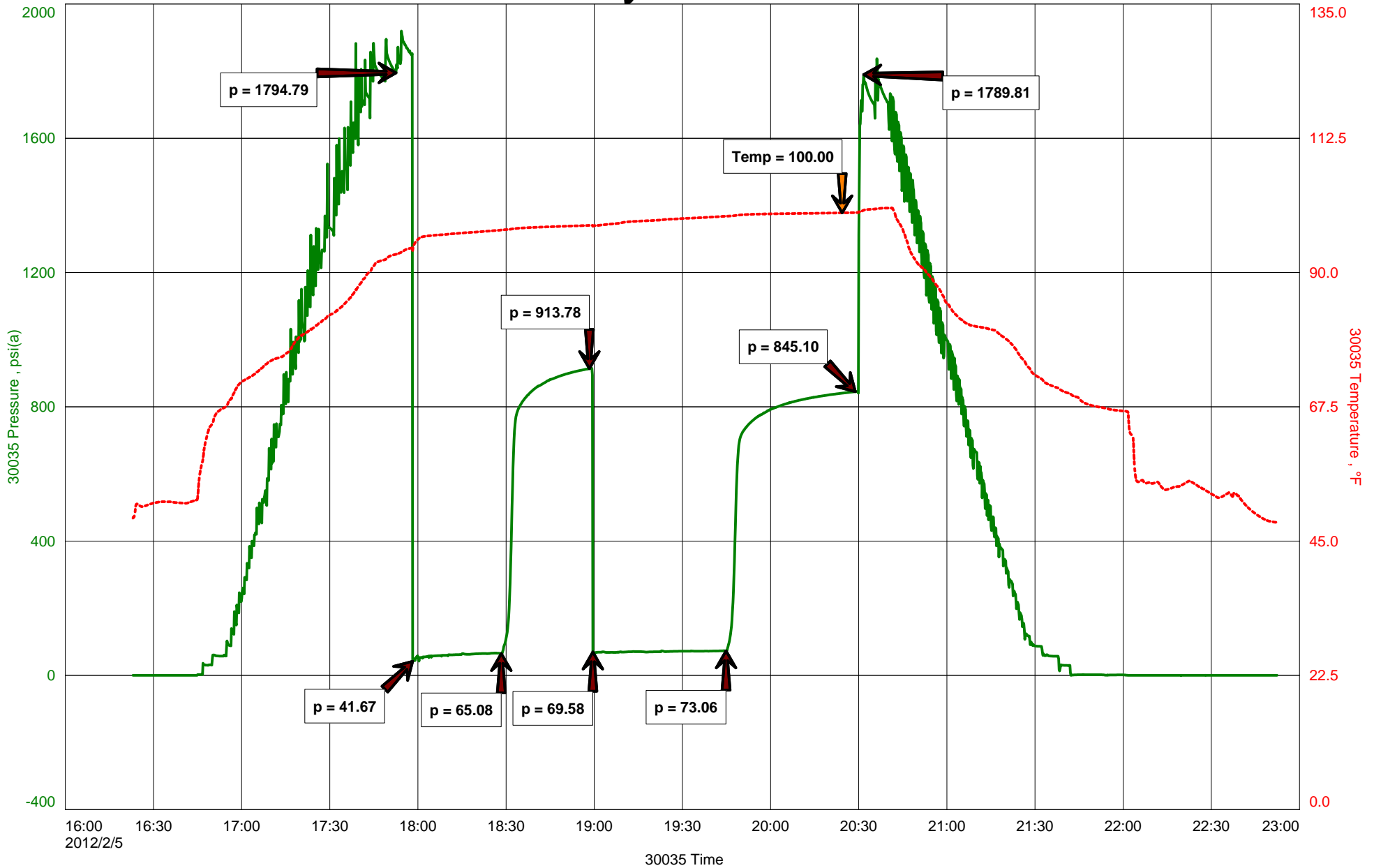
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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) \_\_\_\_\_ 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

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

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

### 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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

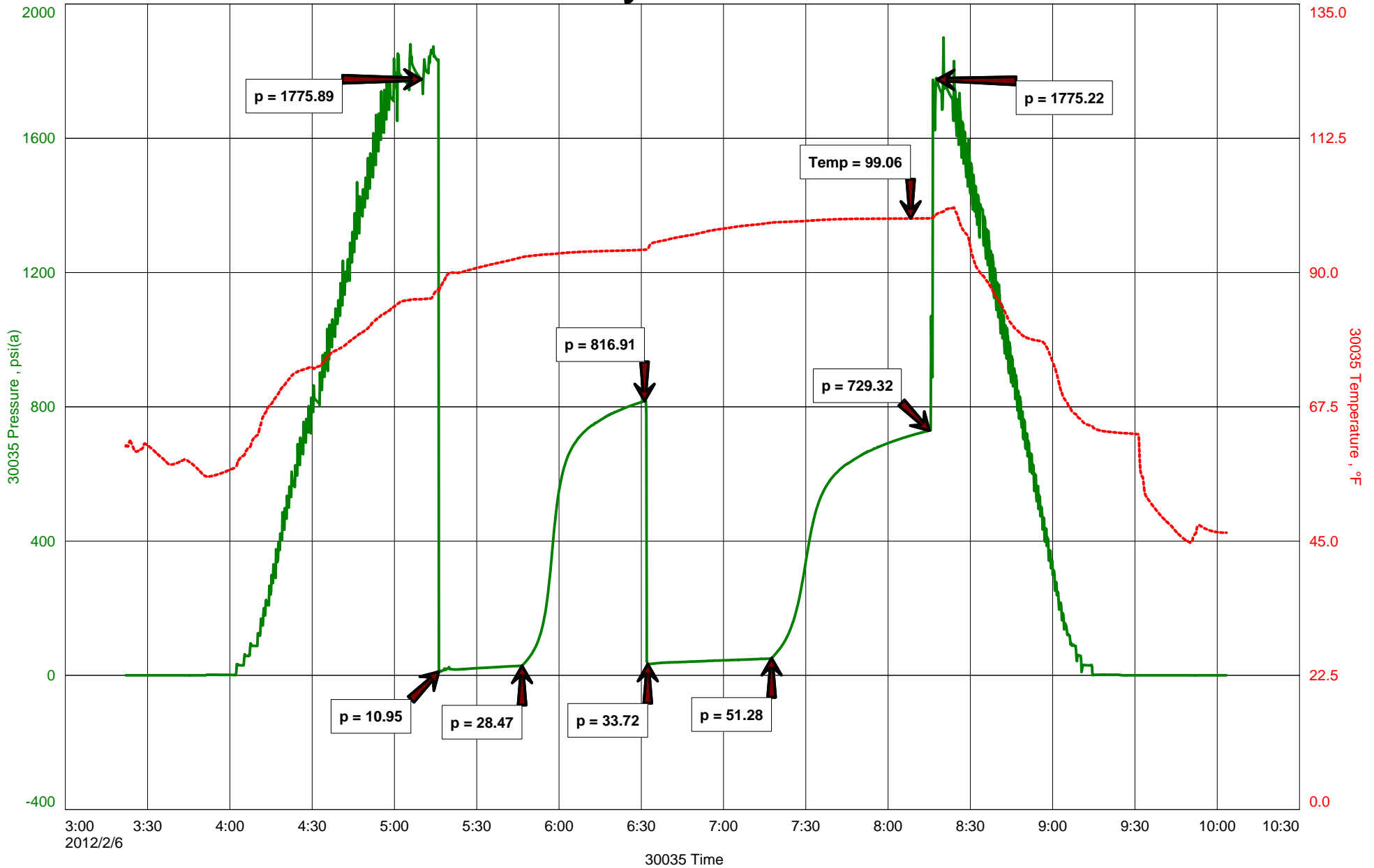
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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) \_\_\_\_\_ 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

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

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

### 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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ 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) \_\_\_\_\_ P.S.I.

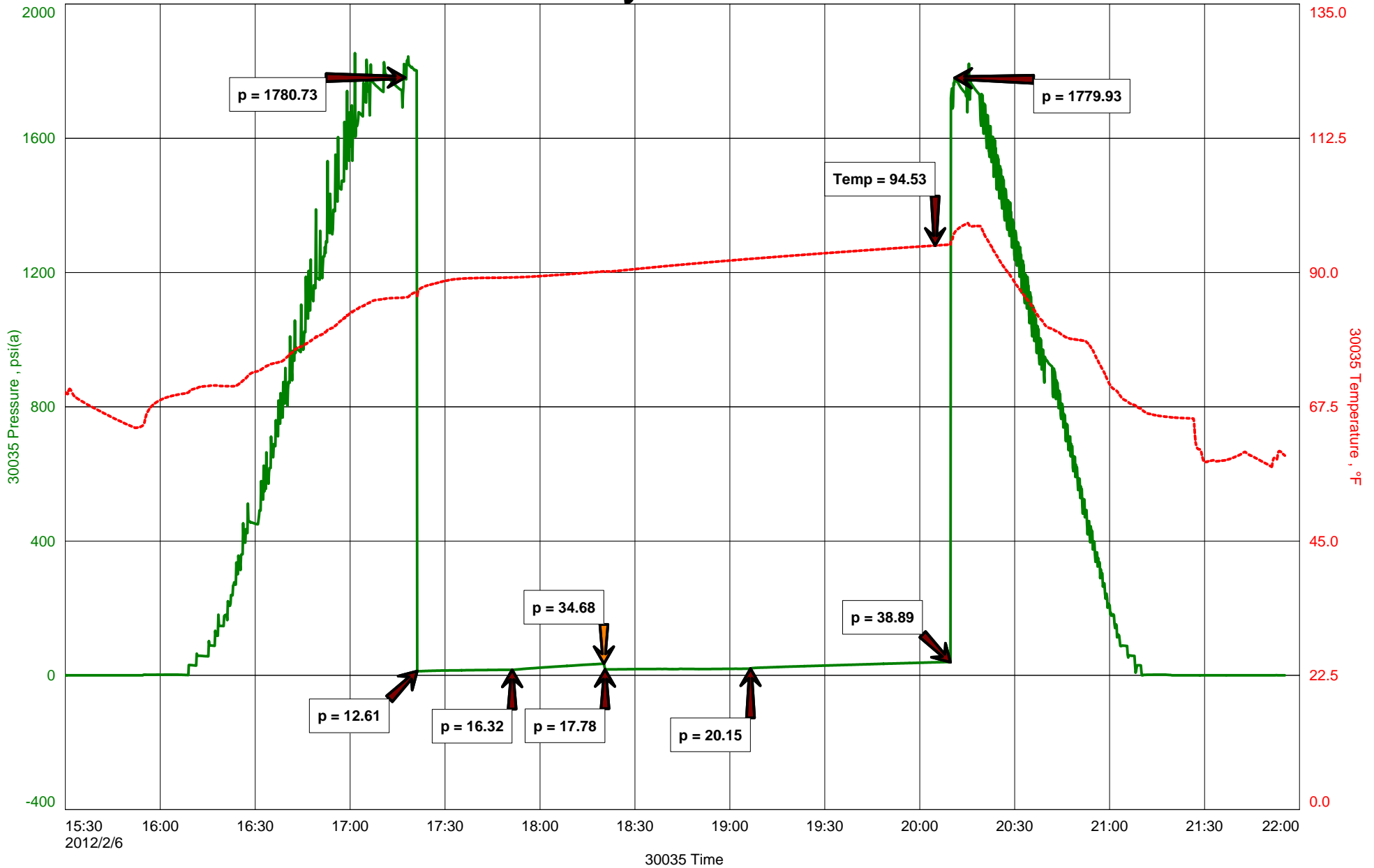
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LD Drilling Inc  
DST #6 Arbuckle 3602-3614'  
Start Test Date: 2012/02/06  
Final Test Date: 2012/02/06

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

**Well Name**

Joyce #2-22

**Job Number**

S0089

**Unique Well ID**

DST #6 Arbuckle 3602-3614'

**Representative**

Jacob McCallie

**Surface Location**

SEC 22-21S-12W Stafford County

**Well Operator**

LD Drilling Inc

**Well License Number**

**Report Date**

2012/02/06

**Field**

Saundra

**Prepared By**

Jacob McCallie

**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: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

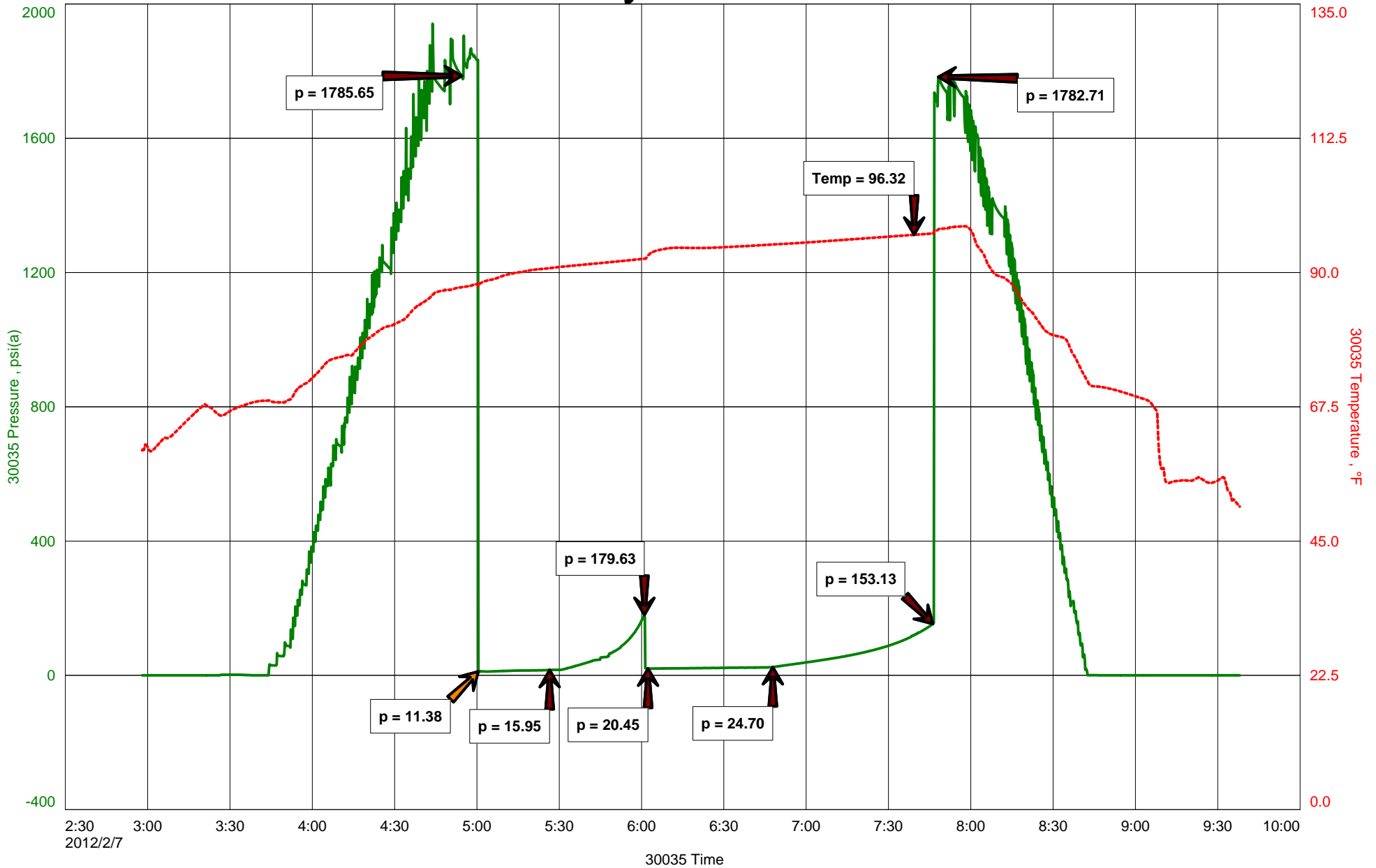
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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) \_\_\_\_\_ 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 #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

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

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

### Test Results

#### RECOVERED:

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

#### TOOL SAMPLE:

30% OIL 70% MUD



James C. Musgrave  
Petroleum Geologist

Office (620) 382-4250 212 Main St. • P.O. Box 215 • Ocala, KS 67523 Home (620) 587-3454

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY L. D. Drilling Inc  
LEASE Joyce # 2-22  
FIELD Savandra  
LOCATION N2 - Ne - Se - Se  
SEC 22 TWP 21 RGE 12  
COUNTY Stafford STATE Kansas  
CONTRACTOR Petromark Drilling (rig #2)  
SPUD 01-31-2012 COMP 02-08-2012  
RTD 3699 LTD  
MUD UP 2818 TYPE MUD Chemical Displaced

ELEVATIONS  
KB 1846  
DF  
GL 1841  
Measurements Are All  
From KB  
CASING  
SURFACE 8 5/8" @ 334  
PRODUCTION 5 1/2" @  
ELECTRICAL SURVEYS

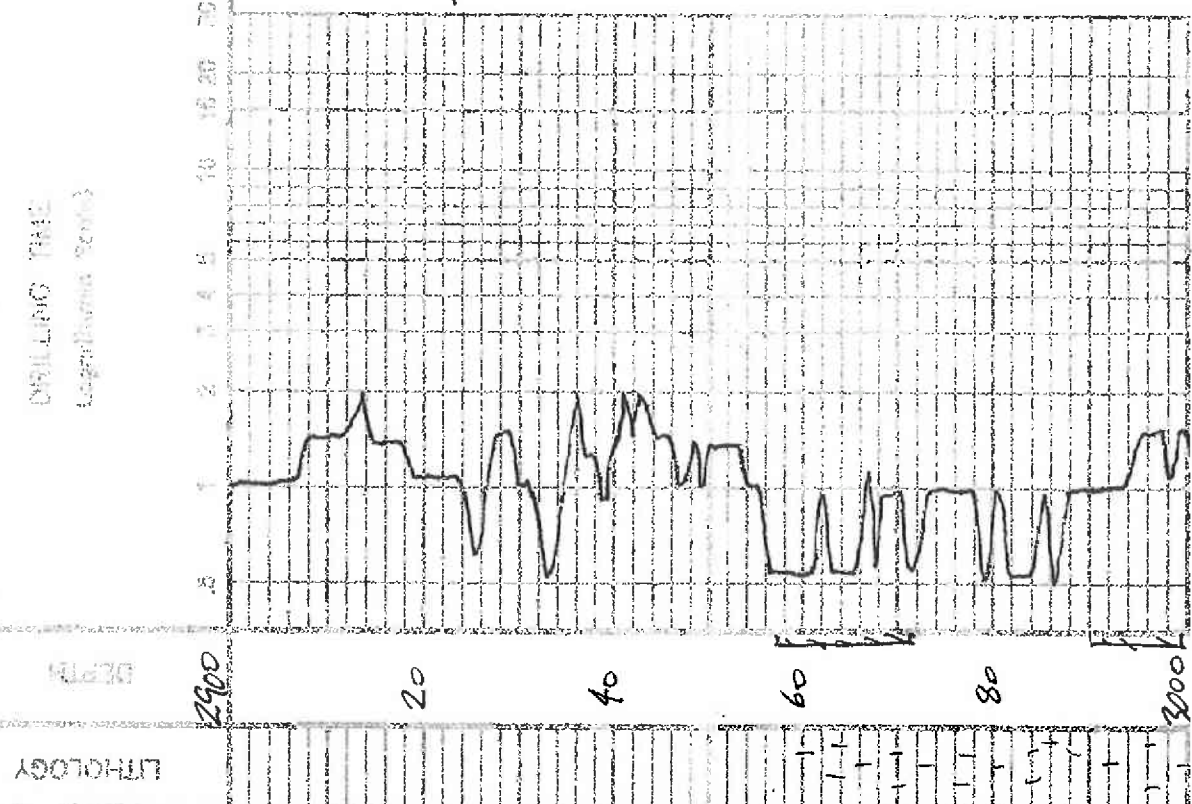
SAMPLES SAVED FROM 2900 TO 3699  
DRILLING TIME KEPT FROM 2900 TO 3699  
SAMPLES EXAMINED FROM 2900 TO 3699  
GEOLOGICAL SUPERVISION FROM 3060 TO 3699  
GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
Heebner	No log	3115 - 1269
Toronto	}	3125 - 1279
Douglas		3146 - 1300
Brown Lime		3249 - 1403
Wansing		3260 - 1414
Base Kansas City		3492 - 1646
Simpson Shale		3546 - 1700
Arbuckle		3583 - 1737
RTD	No log	3699 - 1853

REMARKS  
5 1/2" Production Casing Set & cemented.  
Respectfully submitted,  
Josh R. Austin  
Petroleum Geologist

### LEGEND

- Manganese
- Chert
- Dolomite
- Unstratified Calc. Lime
- Shale
- Sandstone
- Soil
- Anthracite



SAMPLE DESCRIPTIONS  
Trace blk Carb. Shale  
gray green - Mag. Sh.  
LS, con. f. med. xl. foss. chky  
gran. in part  
LS, con. + wk. chky  
fine con. base  
LS, con. f. med. xl. chky  
foss. poorly dev. - 4/5

LOG 7702

blk carb shale

LS. crm. blk. chky dense  
few sects. sl.ool. n/s

LS. crm. tan blk. foss  
Poor. Viso. few sparry Cal  
n/s

LS. crm. f. med. sl. gran  
foss/ool. chky n/s

LS. crm. crm. tan blk. foss  
dense poor. viso

blk Carb shale

LS. crm. wt. blk. chky  
poor. viso. (diss) n/s

shale, grey - greyish green

shale, aa. grey-green soft  
Mic. in part

Sand, grey v. bl. med. sub. round  
sub. med. Poor 196 n/s

shale, grey soft mica

Sand, aa  
slide aa

shale, grey soft mica  
silty

LS. tan-brown blk. chky  
n/s

LS. crm. buff. fine. chky  
few poorly diss. sl. gran n/s

LS. crm. foss-ool. poor. n/s

LS. crm. grey foss. chky  
dense - sparry, calc. in part n/s

LS. crm. blk. chky. dense. sl. ay  
n/s

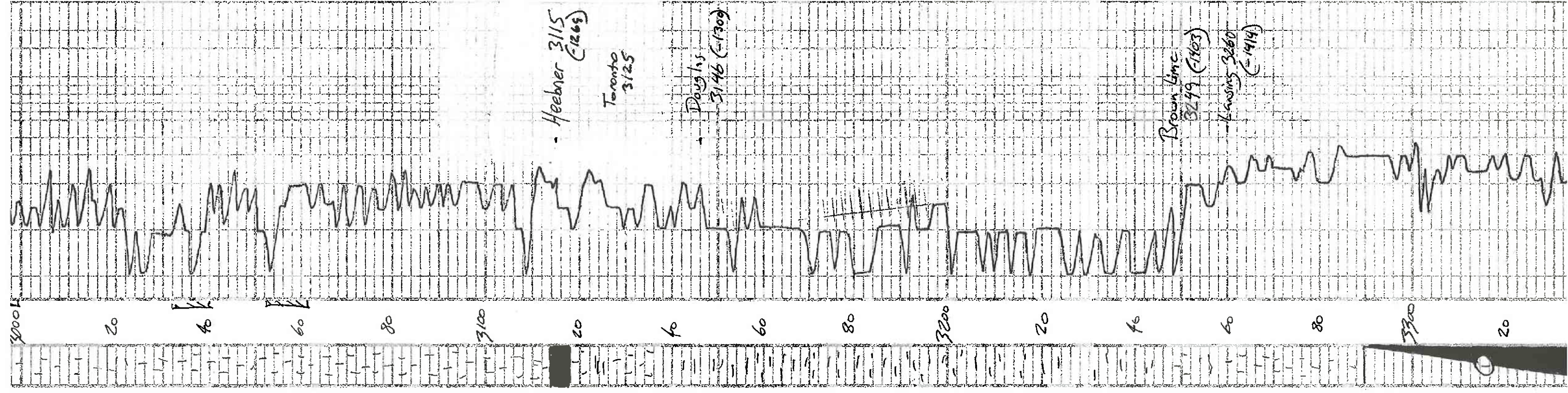
LS. crm. blk. chky. sl. foss  
few sects. chky. to big. ool. in

str. fr. fo. clay ft. etc

LS. crm. grey blk. chky. dense. n/s

LS. grey blk. foss. dense. part

DST #1 3290-3310  
30-30-45-60  
Blow. BOB in 13 min  
fml BOB in 30 min  
No blow back  
Recovery 378' GIP  
3' mud  
Pressure 151P 217  
ESP-357



IFP 11-15  
FFP 17-24  
HSH 1590  
-1575

400' blk. str. to FO No. obs.  
15' cm. tan silty. ool. fine sand  
locally coarse. to brn. str. No. obs.  
No. obs.  
15' cm. buff. silty. clay. dense  
P. v. vis. + uh. bony. Δ  
15' cm. tan. highly ool. dense  
Poorly dev. + uh. smoky gray  
1/2  
blk. gy. shale  
15' cm. tan. silty. clay. ool. - subcon.  
fr. ool. (barren)

DST #2 3599-3490  
30-30-30-30  
Blow weak  
Recovery 5' mud  
Sl. oil specks  
Pressure 151P 394  
FAP 281  
IFP 10-15  
FFP 16-19  
HSH 1673  
-1664

15' cm. tan. fine. clay. foss. ool.  
Imp. part. poorly dev. blk. str. No. obs.  
No. obs.  
12' cm. tan. clay. silty. fine  
few v. v. ool. brn. str. to  
dry FO. No. obs.  
gy. shale  
15' cm. tan. fossiliferous. clay.  
dense. tan. blk. str. to sp. to  
P. obs.  
15' cm. tan. highly. fine. dense. clay  
tan. highly. fine. clay. poorly  
dev. to brn. str. to FO. No. obs.

DST #3 3540-3590  
MARON Packer failure -  
DST #4 3530-3590  
30-30-45-15  
Blow: built to 5"  
Final: built to 80"  
WAK blow back  
Recovery 122' GAP  
5' CO  
120 STOCM  
(10% oil 10% water 80% mud)

gy. - grayish green silty shale  
Sand: gy. tan. silty. + subcon.  
Subcon. friable. fine. to coarse. silty. str.  
MSFO No. obs.  
15' cm. silty. clay. fossiliferous. blk. str.  
to bluish. red. V.C. silty. shale. Δ  
Chert. cream. yellow. - gy.  
bony. Δ  
Shale. V.C. Cherty

DST #5 3590-3602  
30-45-45-60  
Blow: BOB in 26 min  
2' blow back  
Final: BOB in 17 min  
1/2" blow back  
Recovery 30' GAP  
55' CO  
60' OCM  
(13% oil 5% water 82% mud)

Shale. gy. green. - mar.  
Sand. gy. v. f. silty. subcon. to med.  
fine. tan. silty. clay. fossiliferous.  
dolomite. cream. buff. fossiliferous.  
sl. silty. part. of blk. v. v. ool. + brn. str.  
SFO shale.  
dolomite. tan. silty. clay. poorly  
dev. brn. blk. str. SFO. fossiliferous.  
dolomite. cream. buff. fossiliferous. silty.  
blk. str. SFO. blk. str. No. obs.

Pressure 151P 914  
FAP 845  
IFP 12-65  
FFP 20-73  
HSH 1795  
-1790

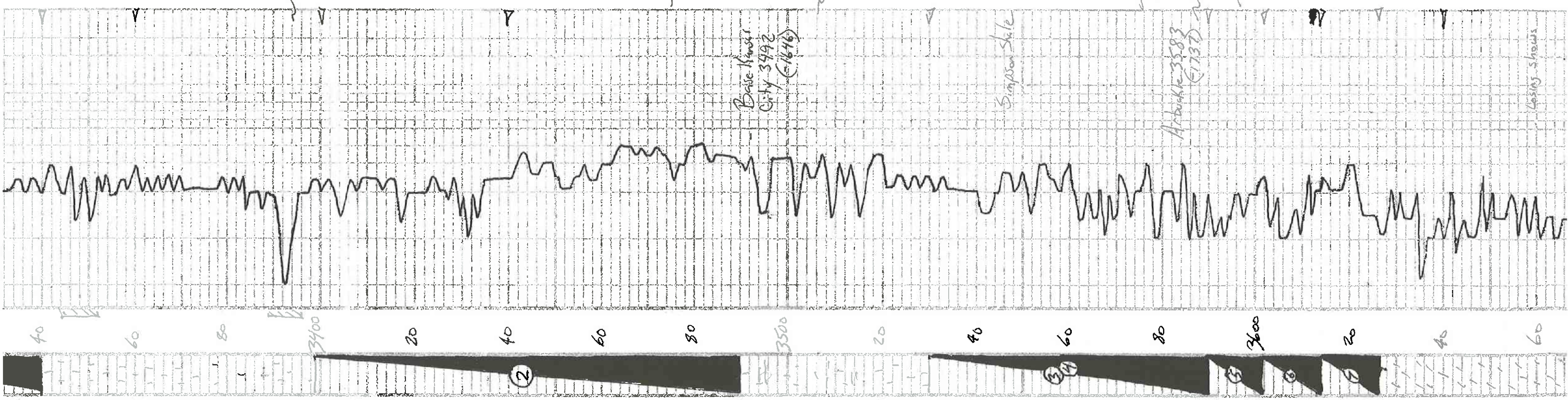
Dolomite. cream. buff. fossiliferous.  
sl. silty. part. of blk. v. v. ool. + brn. str.  
SFO shale.  
dolomite. tan. silty. clay. poorly  
dev. brn. blk. str. SFO. fossiliferous.  
dolomite. cream. buff. fossiliferous. silty.  
blk. str. SFO. blk. str. No. obs.

Pressure 151P 817  
FAP 729  
IFP 11-28  
FFP 34-51  
HSH 1776  
-1775

Dolomite. cream. buff. fossiliferous.  
sl. silty. part. of blk. v. v. ool. + brn. str.  
SFO shale.  
dolomite. tan. silty. clay. poorly  
dev. brn. blk. str. SFO. fossiliferous.  
dolomite. cream. buff. fossiliferous. silty.  
blk. str. SFO. blk. str. No. obs.

DST #6 3600-3611  
Blow: BOB in 26 min  
2' blow back  
Final: BOB in 17 min  
1/2" blow back  
Recovery 30' GAP  
55' CO  
60' OCM  
(13% oil 5% water 82% mud)

Dolomite. cream. buff. fossiliferous.  
sl. silty. part. of blk. v. v. ool. + brn. str.  
SFO shale.  
dolomite. tan. silty. clay. poorly  
dev. brn. blk. str. SFO. fossiliferous.  
dolomite. cream. buff. fossiliferous. silty.  
blk. str. SFO. blk. str. No. obs.



DST #7 3611-3622  
Blow: BOB in 26 min  
2' blow back  
Final: BOB in 17 min  
1/2" blow back  
Recovery 30' GAP  
55' CO  
60' OCM  
(13% oil 5% water 82% mud)

Dolomite. cream. buff. fossiliferous.  
sl. silty. part. of blk. v. v. ool. + brn. str.  
SFO shale.  
dolomite. tan. silty. clay. poorly  
dev. brn. blk. str. SFO. fossiliferous.  
dolomite. cream. buff. fossiliferous. silty.  
blk. str. SFO. blk. str. No. obs.



(12/10:1 5/8" size 82/100)

Pressure 151P 817  
FSIP 729  
IFP 11-28  
FFP 3-51  
HSH 1776  
-1775

DST#6 3602-3614  
30-30-45-60

Blow: weak  
Recovery 15' ocm  
(10/10:1 90/100)

Pressure 151P 35  
FSIP 39  
IFP 12-16  
FFP 18-20  
HSH 1780  
-1779

DST#7 3614-3626  
30-30-45-60

Blow: built to 2"  
final built to 3"

Recovery 30' GIP  
30' ocm  
(4/10:1 89/100)

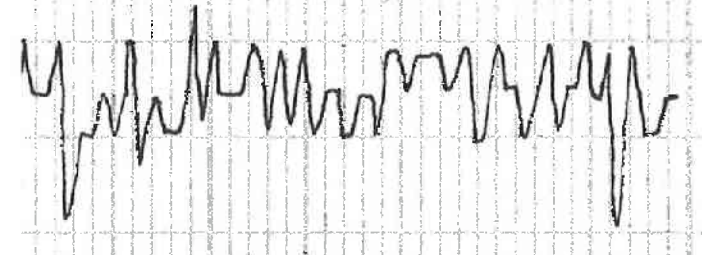
Pressure 151P 180  
FSIP 153  
IFP 11-16  
FFP 20-25  
HSH 1786  
-1783

Delom to with ccm and ...  
to 1x1' bit sta to FO ...  
delom ...  
Delom f: mtlx ...  
sta ??? to FO ...  
to with heavy ...

Delom with ...  
to bit sta ...

Delom ...  
to bit sta ...

Rotary Total Depth  
3699 (-1853)



40  
60  
80  
3700

Lossing shows