



KANSAS CORPORATION COMMISSION 1081685  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6039  
Name: L. D. Drilling, Inc.  
Address 1: 7 SW 26TH AVE  
Address 2: \_\_\_\_\_  
City: GREAT BEND State: KS Zip: 67530 + 6525  
Contact Person: L. D. DAVIS  
Phone: ( 620 ) 793-3051  
CONTRACTOR: License # 33323  
Name: Petromark Drilling, LLC  
Wellsite Geologist: JOSH AUSTIN  
Purchaser: M V PURCHASING

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_  
01/31/2012    02/07/2012    02/16/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-185-23734-00-00  
Spot Description: \_\_\_\_\_  
NW NE SE SE Sec. 22 Twp. 21 S. R. 12  East  West  
1038 Feet from  North /  South Line of Section  
356 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Stafford  
Lease Name: JOYCE Well #: 2-22  
Field Name: \_\_\_\_\_  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1842 Kelly Bushing: 1845  
Total Depth: 3699 Plug Back Total Depth: 3672  
Amount of Surface Pipe Set and Cemented at: 334 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: 12000 ppm Fluid volume: 320 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: L. D. DRILLING, INC.  
Lease Name: DAVIS RANCH WOOD License #: 6039  
Quarter NW Sec. 14 Twp. 21 S. R. 12  East  West  
County: STAFFORD Permit #: D30736

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: Deanne Carrico Date: 05/18/2012



1081685

Operator Name: L. D. Drilling, Inc. Lease Name: JOYCE Well #: 2-22  
 Sec. 22 Twp. 21 S. R. 12  East  West County: Stafford

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
---	--

CASING RECORD <input checked="" 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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 (Amount and Kind of Material Used)	Depth
4	3592 - 3596'	1500 gal 28% Acid	
4	3581 - 3585'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3668</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>02/17/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>
Estimated Production Per 24 Hours	Oil Bbls. <u> </u> Gas Mcf <u> </u> Water Bbls. <u> </u> Gas-Oil Ratio <u> </u> Gravity <u> </u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
---	--	--

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

Tops

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

SURFACE	12.25	8.625	23	334	A-CONN	175	
SURFACE CONTINU ED	12.25	8.625	23	334	COMMON	175	3%CC, 2%Gel,1/ 4#CF
PRODUC TION	7.875	5.5	14	3695	COMMON	150	
RATHOLE	7.875	5.5	14	3695	60/40 POZMIX	30	



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 05645 A

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

DATE OF JOB <u>2-1-17</u> DISTRICT <u>Pratt</u>		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 <u>L.D. Drilling</u>		LEASE <u>Soyco</u> WELL NO. <u>222</u>								
ADDRESS		COUNTY <u>Stafford</u> STATE <u>KS</u>								
CITY		STATE								
AUTHORIZED BY		SERVICE CREW <u>O'Leary, Nichol, Bous</u>								
		JOB TYPE: <u>Crew - 8 1/8 Surface</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>9778</u>	<u>1/2</u>					ARRIVED AT JOB	<u>2</u>			<u>1</u>
<u>2328-2070</u>	<u>1/2</u>					START OPERATION				
<u>19831 19862</u>	<u>1/2</u>					FINISH OPERATION				<u>4</u>
						RELEASED				<u>5:30</u>
						MILES FROM STATION TO WELL				<u>45</u>

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
CP101	Acumeter Cement	SK	175		3150.00
CP100C	Cement Cement	SK	175		2800.00
CC102	Cellulose	lb	88		325.60
CC109	Calcium Chloride	lb	825		866.25
CS103	Wooden Cement Plug	pc	1		160.00
E100	Pickup Mileage	mi	45		191.25
E101	Heavy Equipment Mileage	M	90		630.00
E113	Bulk Delivery	ton	743		1182.00
CE200	Depth Charge (1-5' cut)	pc	1		1000.00
CE240	Bulk Charge	SK	350		490.00
CE504	Plug Cement	pc	1		250.00
2003	Service Supervisor	pc	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		<u>DLS</u>	<u>3,868.07</u>
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE <u>Steve O'Neil</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer L.S. Smith	Lease No.	Date 1-2-11
Lease 2000	Well # 2-001	
Field Order # 5647	Station P...	Casing 2 1/8"
	Depth 334	County S...
Type Job Cased Hole Completion	Formation	Legal Description Q.2.2111

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 2 1/8"	Tubing Size 2 1/8"	Shots/Ft	Acid 17.2	Pre Pad 17.2	Max.	RATE	PRESS
Depth	Depth	From	To	Pad	Min		ISIP
Volume	Volume	From	To	Frac	Avg		10 Min.
Max Press 1500	Max Press	From	To	Flush	HHP Used		15 Min.
Well Connection	Annulus Vol.	From	To		Gas Volume		Annulus Pressure
Plug Depth	Packer Depth	From	To				Total Load

Customer Representative	Station Manager	Treater
Service Units	Driver Names	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00					Well head - 5000 psi
					Flow rate 35 bbls/min
					Pressure increasing
	9		1.5	"	Pressure 1700 psi
7:11	9		37	"	well 17.2 bbls/min = 136 bbls
					Flow rate
					Pressure 1700
7:11			6	"	
7:11			1.5	"	Pressure 1700 psi
7:11	9-0		2.0	"	Pressure 1700



**BASIC**  
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 <u>2-8-12</u> DISTRICT <u>KANSAS</u>		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 <u>L. O. Drilling INC.</u>		LEASE <u>Joyce # 2-22</u> WELL NO.:	
ADDRESS		COUNTY <u>Stafford</u> STATE <u>KANSAS</u>	
CITY		STATE	
AUTHORIZED BY		SERVICE CREW <u>Allen, Keesey, Edwards, Lowrey</u>	
EQUIPMENT#		JOB TYPE <u>5 1/2" Long String</u> <u>CNW</u>	
HRS		TRUCK CALLED <u>2-8-12</u> DATE <u>2-8-12</u> AM <u>8:00</u> PM	
EQUIPMENT#		ARRIVED AT JOB <u>2-8-12</u> AM <u>1:30</u> PM	
HRS		START OPERATION <u>2-8-12</u> AM <u>3:30</u> PM	
EQUIPMENT#		FINISH OPERATION <u>2-8-12</u> AM <u>5:00</u> PM	
HRS		RELEASED <u>2-8-12</u> AM <u>5:30</u> PM	
EQUIPMENT#		MILES FROM STATION TO WELL <u>4.5 miles</u>	
HRS			

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	Cement	SK	150		1124.00
CP 102	60/40 Poz.	SK	30		86.25
CC 102	cell FLAKE	lb	34		14.00
CC 112	Cement Friction Reducer	lb	43		258.00
CC 113	Gypsum	lb	705		538.25
CC 129	FLA-322	lb	43		32.25
CC 200	Cement Gel	lb	252		70.56
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	Flagar Type INSERT Float Valve 5/2	EA	1		215.00
CF 1651	Turboliner 5/2 Blue	EA	6		1680.00
CF 151	Mud Flush	gal	1000		800.00
E 100	Unit mileage charge Pickup	MIS	45		191.25
E 101	Heavy Equip mileage	MIS	90		630.00
E 113	Bulk Delivery Charge	TR	376		601.20
CF 204	Depth Charge 3001-11000'	4-W	1		2160.00
CF 242	Blending & mixing Service chg	NO SK			252.00
CF 504	Plug container 42.6.2.1000 5/2	Tab	1		250.00
S003	Cable Superior first 8 hrs on loc.	EA	1		175.00
				SUB TOTAL	88,237.54

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

Customer <b>L.D. Drilling Inc.</b>	Lease No.	Date <b>2-8-12</b>
Lease <b>Joyce</b>	Well # <b>2-22</b>	
Field Order # <b>05272</b>	Station <b>Pratt Ks</b>	Casing <b>5 1/2"</b>
Type Job <b>5 1/2" Long String</b>	Depth <b>3695'</b>	County <b>Stafford</b>
	Formation <b>TO 3699'</b>	State <b>Ks</b>
		Legal Description <b>22-21-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>5 1/2"</b>	Tubing Size	Shots/Ft		Acid <b>1000 gal mud Flush</b>	RATE <b>24</b>	PRESS <b>351</b>	ISIP <b>5 Min.</b>
Depth <b>3695'</b>	Depth	From	To <b>150'</b>	Pre Pad <b>SKS common</b>	Max <b>@ 14.77 #/gal.</b>		
Volume <b>89.64 Bbls</b>	Volume	From	To <b>30'</b>	Pad <b>SKS 60/40 Por</b>	Min <b>Plus Rat Hole</b>		<b>10 Min.</b>
Max Press <b>1000'</b>	Max Press	From	To	Frac	Avg		<b>15 Min.</b>
Well Connection <b>PC</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>3674'</b>	Packer Depth	From	To	Flush <b>D.O. H<sup>2</sup>O</b>	Gas Volume		Total Load

Customer Representative <b>Jim TP</b>	Station Manager <b>scotty</b>	Treater <b>Allen</b>
Service Units <b>2x443 37586 19889 19843 19826 19860</b>		
Driver Names <b>Allen Keaven Edmundo Mike Lawrence</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
<b>1230 PM</b>					<b>D.S. casing. Service Log Petro mark II on Loc. Discuss Safety, setup PLAN Job Rig lay down Drill COLLARS out of Hole. Lay down Kelly Rig up to Run 5 1/2 casing.</b>
<b>200</b>					<b>start 5 1/2 casing 14' set. 22:30 w/ Reg. Shoe, Auto insert in collar cont. 1-3-5-29-11</b>
<b>320</b>					<b>Tag TD @ 3699. Pickup + CIR @ 3698' w/ Rig; good air</b>
<b>400</b>	<b>300'</b>		<b>24</b>	<b>5</b>	<b>Pump 1000 gal mud Flush</b>
			<b>5</b>	<b>5</b>	<b>Pump 5 BBL H<sup>2</sup>O space -</b>
				<b>5</b>	<b>mix + Pump 150 SKS.com @ 14.7'</b>
			<b>38</b>		<b>Finish mix, Drop. Top Rubber Plug wash out Pump + Line.</b>
<b>415</b>				<b>5 1/2</b>	<b>start Disp.</b>
	<b>500'</b>			<b>5</b>	<b>caught LI @ PSI</b>
<b>430</b>	<b>1000'</b>		<b>89 3/4</b>	<b>4</b>	<b>Plug down</b>
	<b>OH</b>				<b>Release PSI - "OK"</b>
			<b>7 BBL</b>		<b>Plug R.H. w/ 30 SKS 60/40 Por</b>
					<b>wash up + Rackup Equip.</b>
<b>530</b>					<b>Job Complete.</b>
					<b>Thanks Allen Keaven, Ed. - Mike L.</b>





**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 \_\_\_\_\_ Price Job \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Other Charges \_\_\_\_\_

Remarks: Diesel Fuel In Bucket Insurance \_\_\_\_\_

TOOL SAMPLE: 3% Gas 1% Oil 96% Mud Total \_\_\_\_\_

Time Set Packer(s) 2:15 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 5:00 AM <sup>A.M.</sup>/<sub>P.M.</sub> 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.

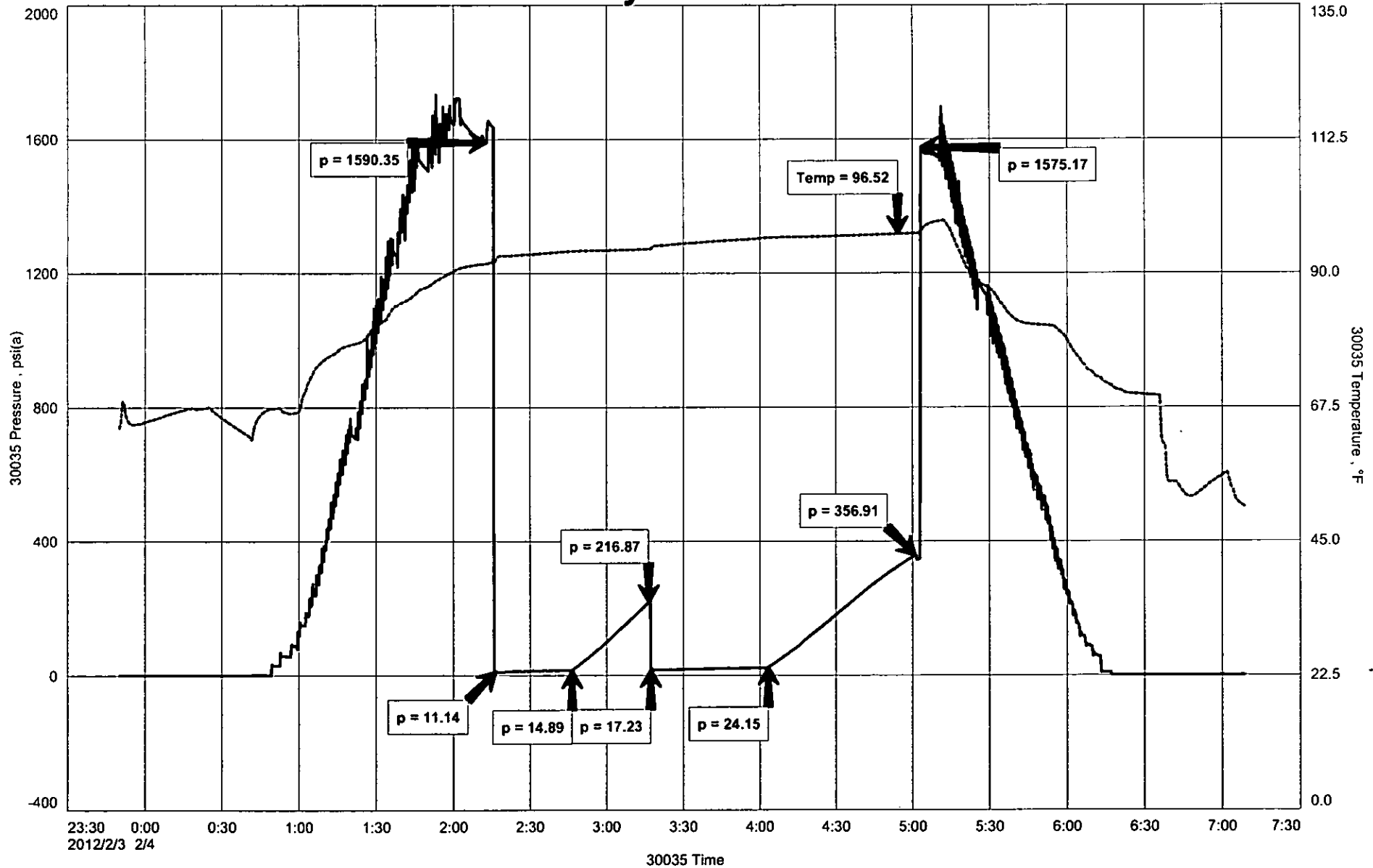
Final Hydrostatic Pressure..... (H) 1575 P.S.I.

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 \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Diesel Fuel In Bucket

TOOL SAMPLE: 100% DM Total \_\_\_\_\_

Time Set Packer(s) 10:33 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 12:33 AM <sup>A.M.</sup>/<sub>P.M.</sub> 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.

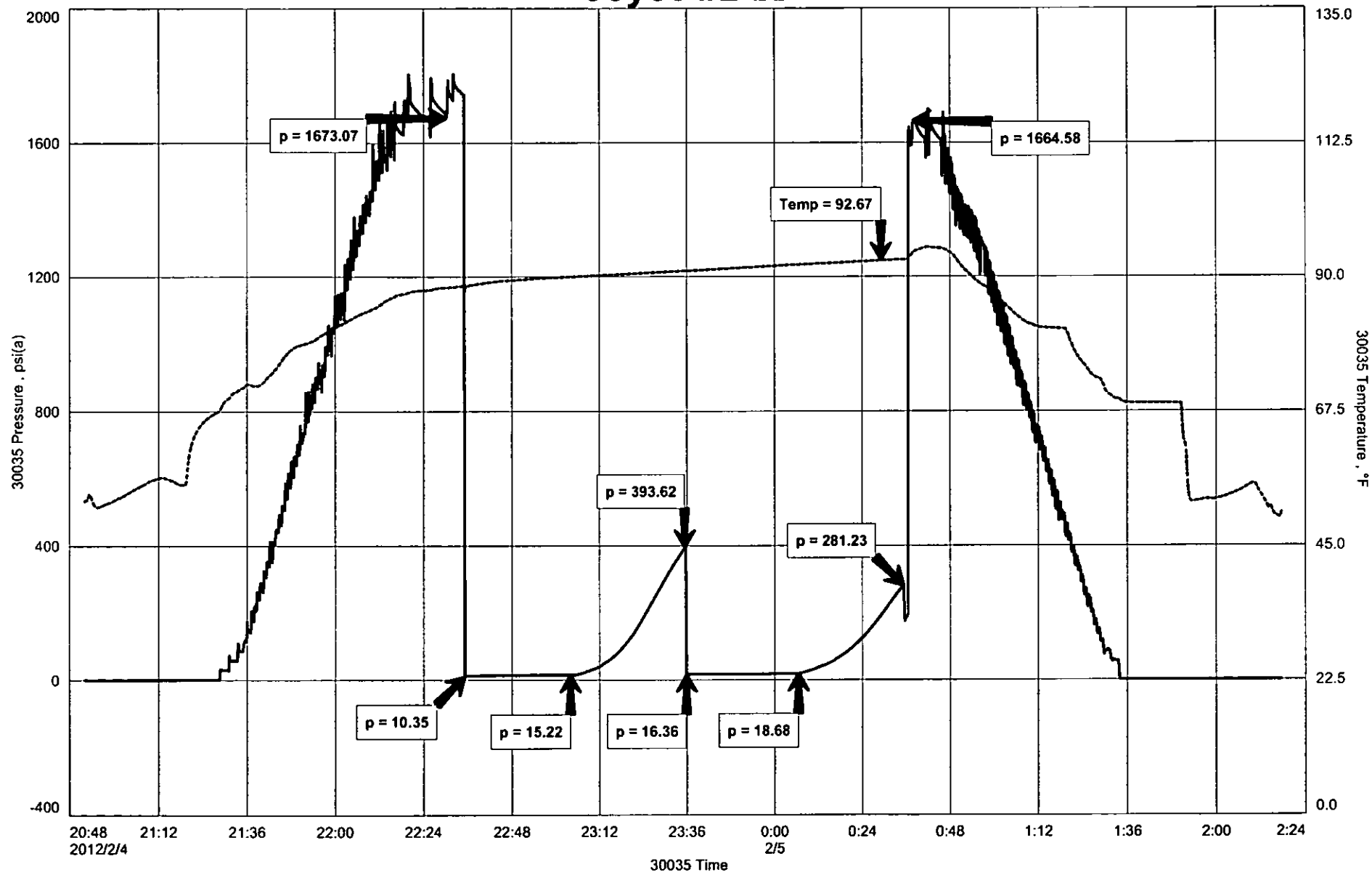
Final Hydrostatic Pressure..... (H) 1664 P.S.I.

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 #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:**

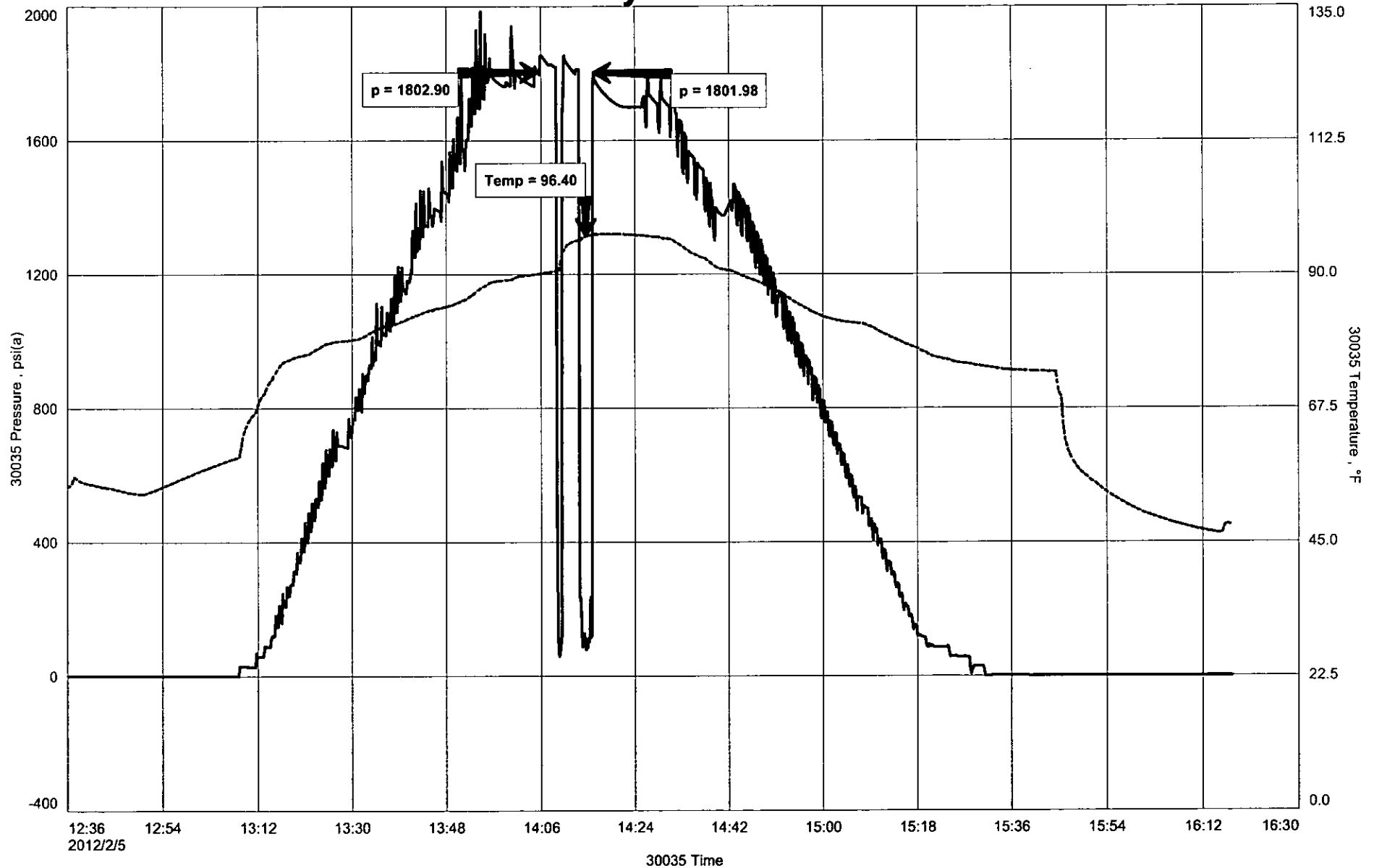
Time Set Packer(s) 2:09 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 2:14 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 96  
Initial Hydrostatic Pressure..... (A) 1803 P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial 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.

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	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 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 8:28 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 100

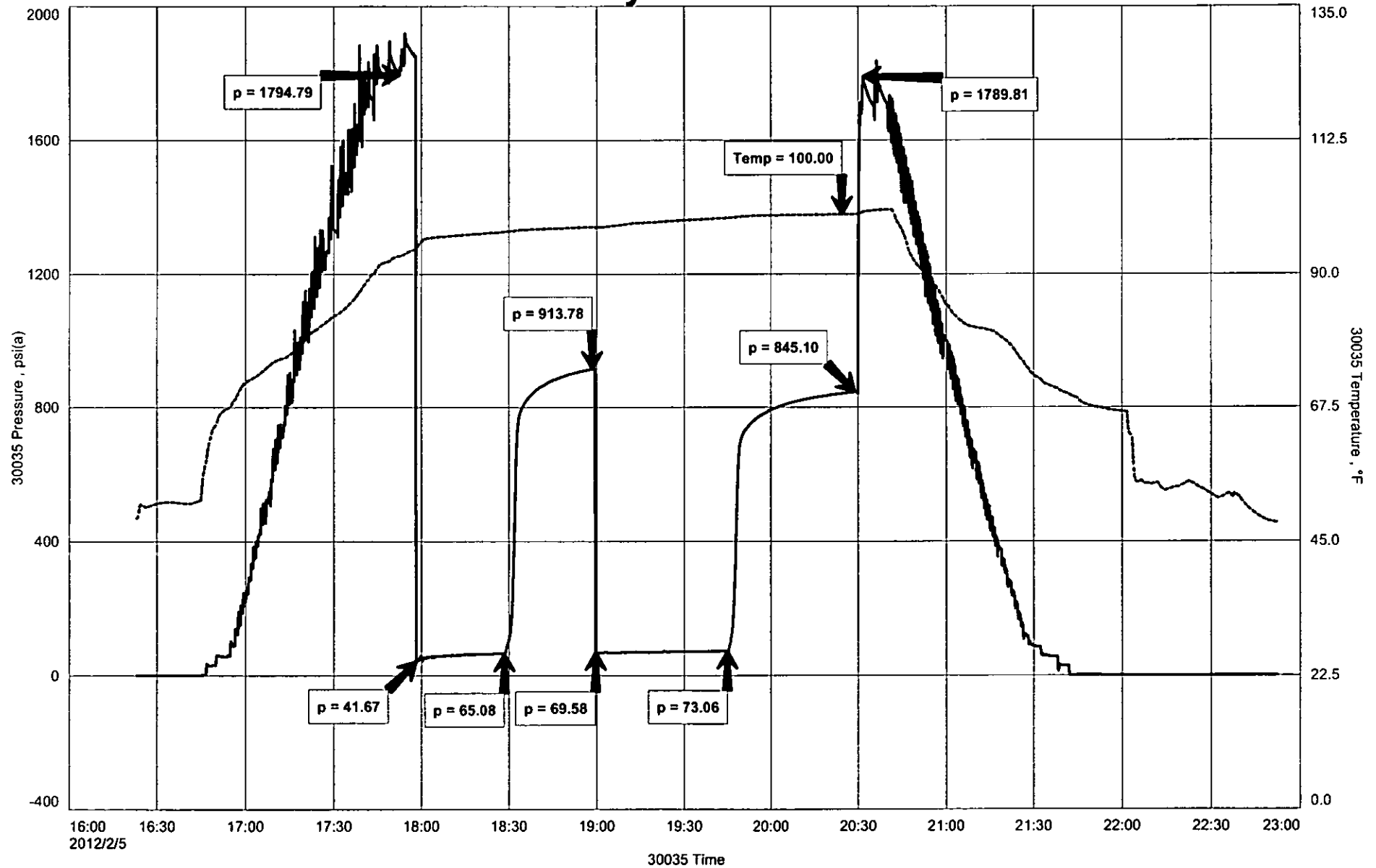
Initial Hydrostatic Pressure..... (A) 1795 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 42 P.S.I. to (C) 65 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 914 P.S.I.  
Final Flow Period..... Minutes 45 (E) 70 P.S.I. to (F) 73 P.S.I.  
Final Closed In Period..... Minutes 45 (G) 845 P.S.I.  
Final Hydrostatic Pressure..... (H) 1790 P.S.I.

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 #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			

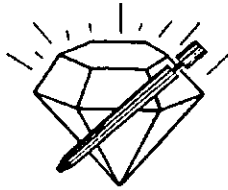
### Test Results

#### 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

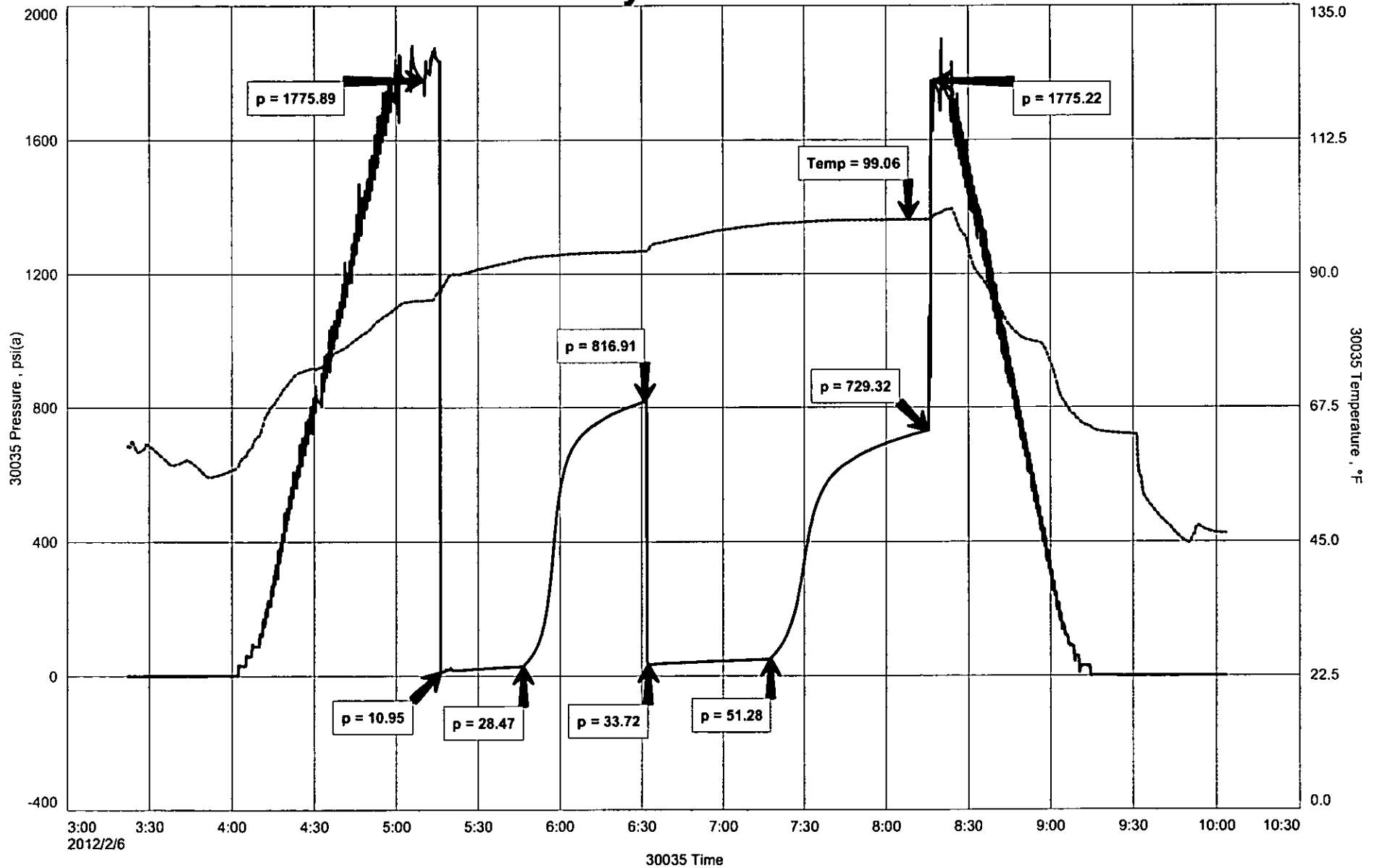
Initial Hydrostatic Pressure..... (A) 1776 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 28 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 817 P.S.I.  
Final Flow Period..... Minutes 45 (E) 34 P.S.I. to (F) 51 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 729 P.S.I. 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

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 #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 \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Diesel Fuel In Bucket

TOOL SAMPLE: 8% OIL 92% MUD

Time Set Packer(s) 5:21 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 8:06 PM <sup>A.M.</sup>/<sub>P.M.</sub> 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.

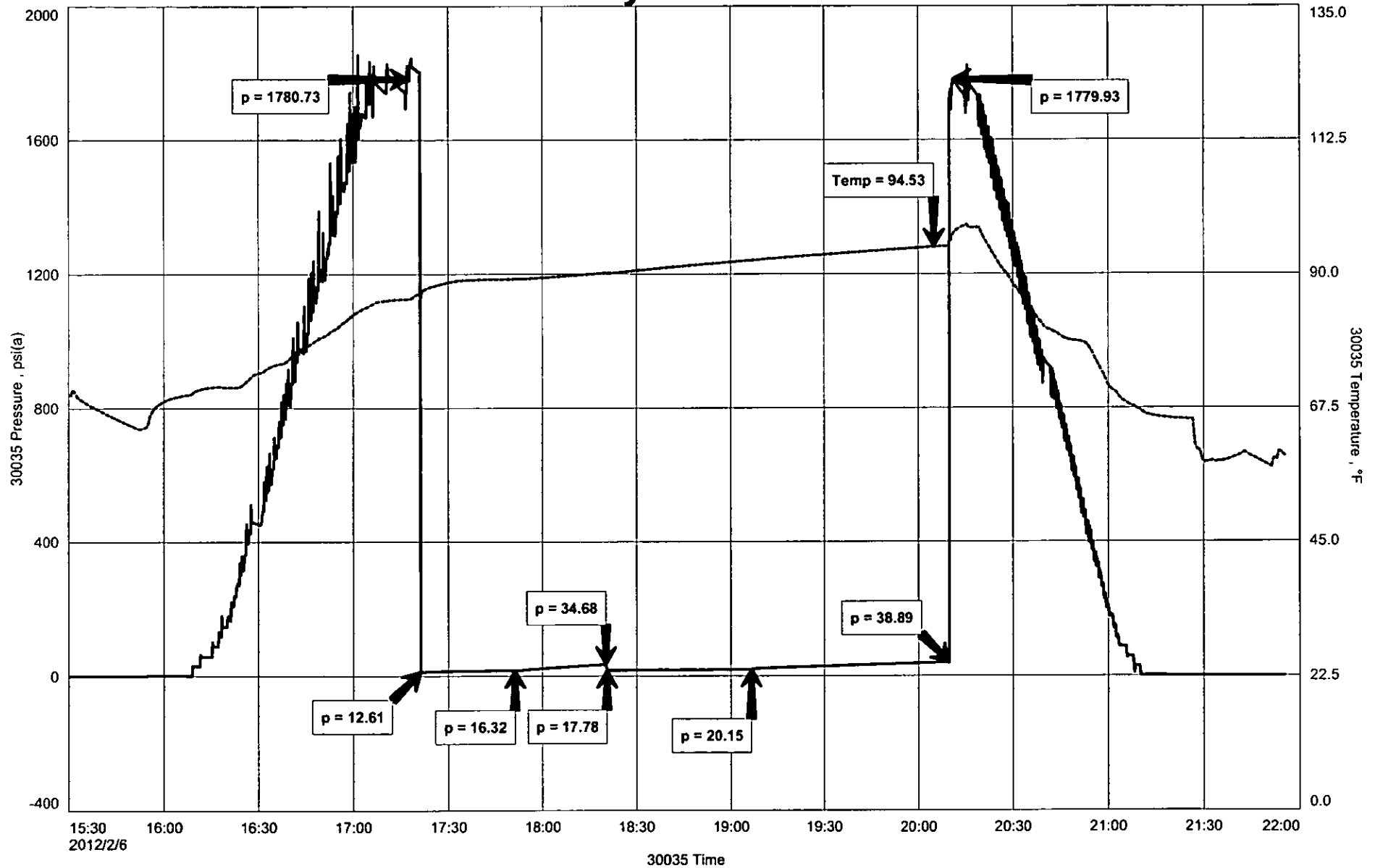
Diamond Testing shall not be liable for damages of any kind to the property or personnet of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged 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 \_\_\_\_\_  
Remarks: Diesel Fuel In Bucket  
**TOOL SAMPLE: 30% OIL 70% MUD**

	Price Job
	Other Charges
	Insurance
	Total

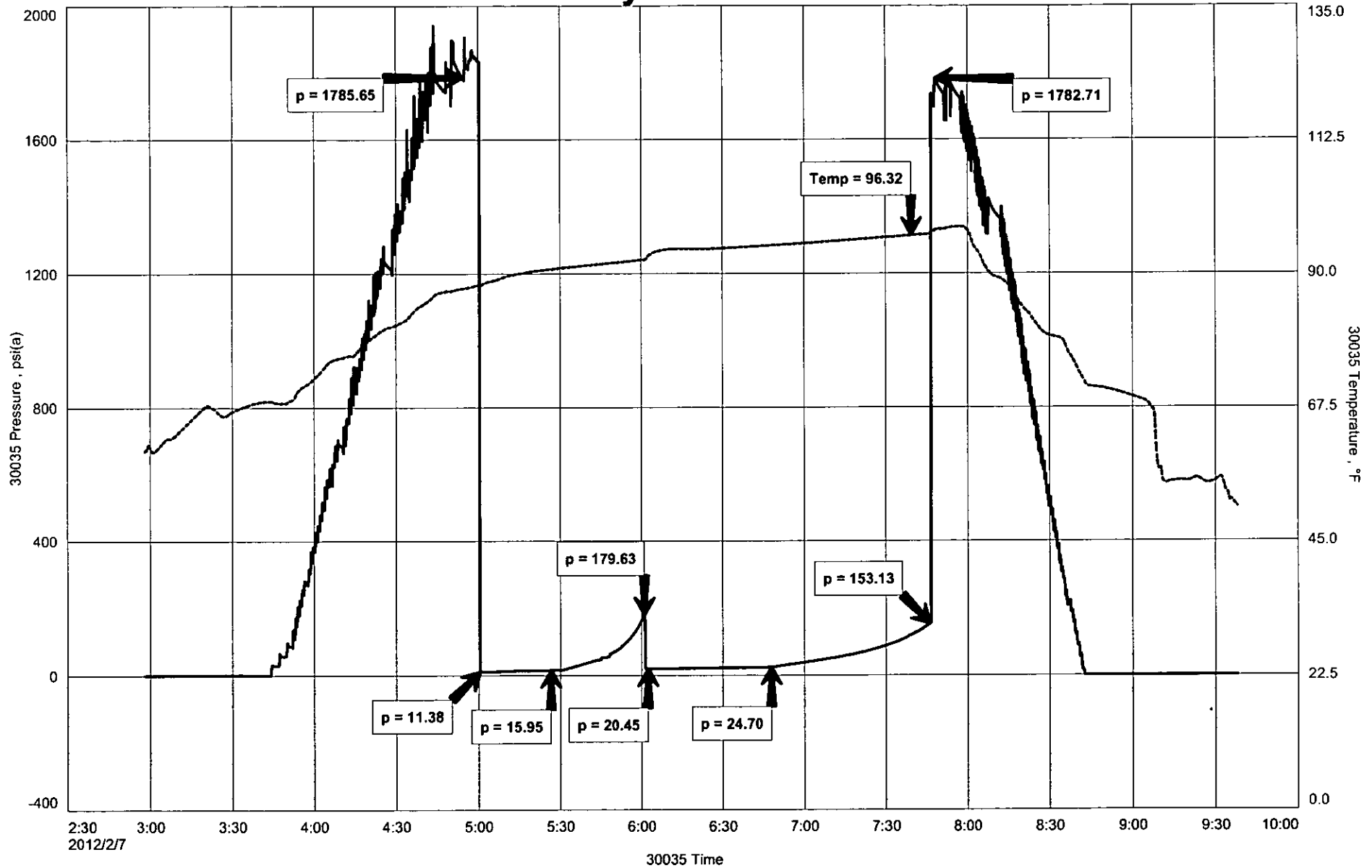
Time Set Packer(s) 5:00 AM A.M. P.M. Time Started Off Bottom 7:45 AM A.M. P.M. Maximum Temperature 96  
Initial Hydrostatic Pressure..... (A) 1786 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 16 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 180 P.S.I.  
Final Flow Period..... 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.

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

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



James C. Musgrave  
 Petroleum Geologist  
 77 Park St. • P.O. Box 215 • Charlottetown, PEI C1A 3S8  
 Home: (824) 897-1004

# GEOLOGIST'S REPORT

DATE: 01-31-2012

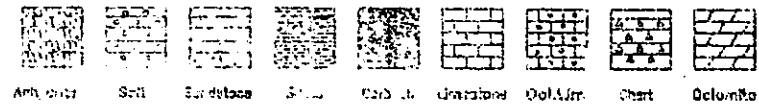
Client: L.D. Dilling Inc  
 Project: Slope # 2-22  
 Field: Sandwich  
 Loc: 22 (WGS 21) (REF 12)  
 Project: Stifford STATE: Kansas  
 CONTRACTOR: Petrowick Dilling (C#12)  
 Date: 01-31-2012 (Time: 01-08-2012)  
 QTY: 3699  
 Meter ID: 2818 (Type: Chemical)  
 Serial: 2900 (Type: Chemical)  
 Depth: 2900 TO: 3699  
 Samples: 2900 TO: 3699  
 Core ID: 3060 TO: 2659  
 Location: Sandwich

Geologist: James C. Musgrave  
 License: 1846  
 State: KS  
 Employer: KB  
 Phone: 824-897-3374  
 Fax: 824-897-3374

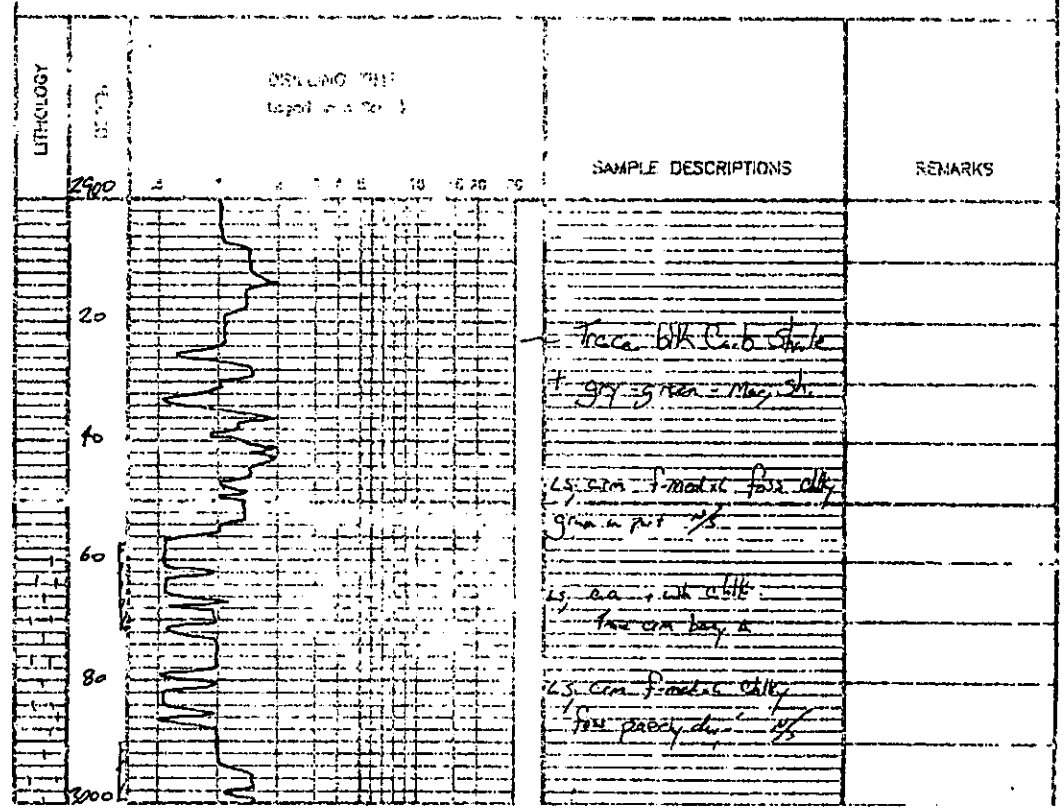
Item	Quantity	Unit Price	Total
Hebner	315	12.29	3871.35
Corundum	146	21.29	3108.34
Dry Ice	1500	2.00	3000.00
Brown Lime	3249	1.403	4578.33
Leaning	5260	1.14	5996.40
Base: Kansas City	2192	1.846	4047.87
Simson, Shale	3546	1.100	3900.60
Arbitrage	3283	1.137	3730.77
RTP	3699	1.853	6853.85

REMARKS:  
 5 1/2" production casing set & cemented.  
 Respectfully submitted,  
 James C. Musgrave  
 Petroleum Geologist

## LEGEND



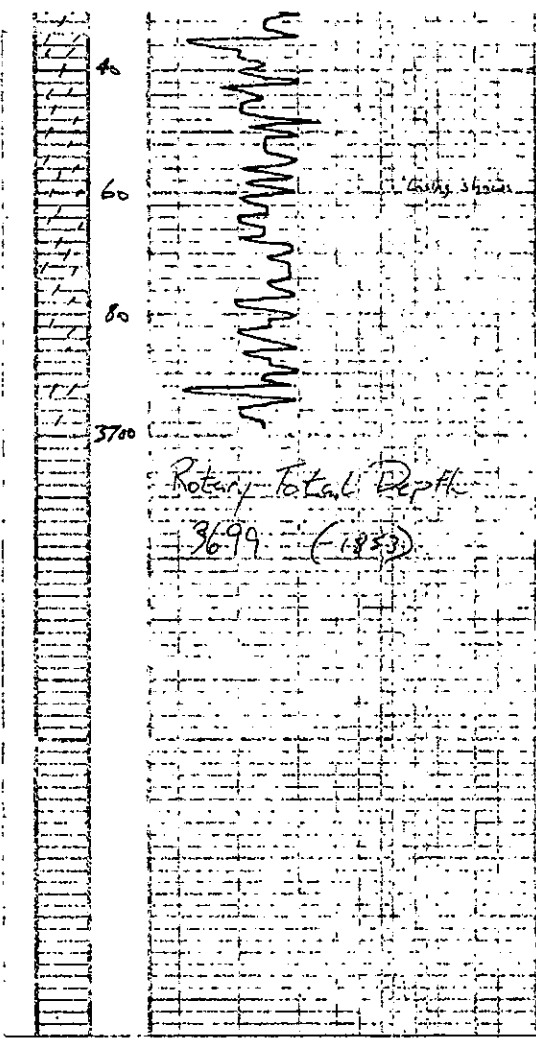
LOG 7702











	(18% oil 5% water 22% mud)
Delomto with iron and concrete	Pressure 151P 817
to 100' depth to 10' below	FSIP 729
	1FP 11-27
to 100' depth to 10' below	FFP 31-31
	NSH 1776
	-1775
Delomto with iron and concrete	DST# 6 3602-3614
to 100' depth to 10' below	30-30-45-60
	Blow work
to 100' depth to 10' below	Primary 15' OCM
	(10% oil 90% mud)
Delomto with iron and concrete	Pressure 151P 35
to 100' depth to 10' below	FSIP 27
	1FP 12-16
	FFP 18-20
	NSH 1780
	-1779
	DST# 7 3614-3626
	30-30-45-60
	Blow: built to 2"
	Frank built to 5"
	Recovery 30' GIP
	30' OCM
	(4% oil 87% mud)
	Pressure 151P 180
	FSIP 157
	1FP 11-16
	FFP 20-25
	NSH 1786
	-1785