



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



1050311

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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CHRISTIANSEN 3-15
Doc ID	1050311

All Electric Logs Run

DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CHRISTIANSEN 3-15
Doc ID	1050311

Tops

Name	Top	Datum
ANHYDRITE	634	+1216
BASE ANHYDRITE	656	+1194
HEEBNER	3086	-1236
TORONTO	3106	-1256
DOUGLAS	3119	-1269
BROWN LIME	3220	-1370
LANSING	3233	-1383
BASE KANSAS CITY	3454	-1604
ARBUCKLE	3515	-1665
LTD	3649	-1799



**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 02643 A

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

DATE OF JOB: 10-5-10		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: Christiansen		3-15		WELL NO.:			
ADDRESS:				COUNTY: Stafford		15-21-12		STATE: KANS.			
CITY:				STATE:		SERVICE CREW: A. Werth, C. Vopch, L. Wiser					
AUTHORIZED BY:				JOB TYPE: 8 5/8" Surface						CWW	
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME		
28443 P.U.	1						10-4-10	AM	630		
27463 Pt.	1						10-4-10	AM	840		
19226-19860	1						10-4-10	AM	945		
							10-4-10	AM	1045		
						RELEASED	10-4-10	AM	1200		
						MILES FROM STATION TO WELL: 4.5 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 101	A-con Blend	SK	175		\$ 3160.00
CP 100	Common	SK	200		\$ 3200.00
CC 102	Cell Flak	lb	94		\$ 347.80
CC 109	Calcium Chloride	lb	1069		\$ 1111.96
CC 200	Cement Gel	lb	376		\$ 94.00
CF 153	wooden cement Plug 8 5/8"	EA	1		\$ 160.00
E 100	UNIT MILEAGE Charge Pickup	mi	45		\$ 191.25
E 101	Heavy Equip mileage	mi	90		\$ 630.00
E 113	Bulk Delivery charge	TM	794		\$ 1270.00
CB 200	Depth Charge 0-500'	1	4-hrs		\$ 1000.00
CB 240	Blending & mixing Service Charge	SK	375		\$ 620.00
CB 504	Plug container Utilization charge	Job	1		\$ 250.00
S 003	Service Supervisor first 8hrs on loc.	EA	1		\$ 175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		\$ 8,363.00

SERVICE REPRESENTATIVE: Allen F. Werth  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Lu B. Jacobs  
 FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer: <b>L.D. Drilling Inc.</b>		Lease No.	Date: <b>10-5-10</b>		
Lease: <b>Christiansen</b>		Well #: <b>3-15</b>			
Field Order #: <b>02643A</b>	Station: <b>Pratt KS</b>	Casing: <b>8 5/8"</b>	Depth: <b>342</b>	County: <b>Stafford</b>	State: <b>KS</b>
Type Job: <b>8 5/8" surface</b>	Formation: <b>CNW</b>	Formation: <b>342-TO</b>	Legal Description: <b>15-21-12</b>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size: <b>8 5/8"</b>	Tubing Size	Shots/Ft: <b>17.5 SKS</b>	Acid: <b>A-con Blend</b>	RATE: <b>@ 12.5 GAL</b>	PRESS	ISIP	
Depth: <b>342'</b>	Depth	From: <b>200 SKS</b>	Pre Pad: <b>Common</b>	Max: <b>2 1/2 gal</b>	<b>390 CC</b>	<b>1/4" CF</b>	
Volume: <b>20 1/2</b>	Volume	From	Pad	Min		10 Min.	
Max Press: <b>300 #</b>	Max Press	From	Frac	Avg		15 Min.	
Well Connection: <b>P.C.</b>	Annulus Vol.	From		HHP Used		Annulus Pressure	
Plug Depth: <b>332</b>	Packer Depth	From	Flush: <b>Disp H<sub>2</sub>O</b>	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
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Service Units	<b>28443</b>	<b>27463</b>	<b>19826</b>	<b>19860</b>				
Driver Names	<b>A. Werth</b>	<b>C. Veach</b>	<b>Lucas</b>	<b>Wiser</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>8:40 PM</b>					<b>Petromark II</b>
<b>9:05</b>					<b>Onhoc. Discuss Safety, Setup, Plan Job</b>
<b>9:45</b>					<b>Rig coming out of hole w/ Drill collar</b>
<b>1:00</b>			<b>66</b>	<b>5</b>	<b>Start 8 5/8 CSG 24"</b>
				<b>5</b>	<b>Hook up &amp; CIR. w/ Rig.</b>
					<b>Start 17.5 SKS A-con @ 12.5 #</b>
					<b>Start 200 SKS com. w/ 2 1/2 gal 390 CC</b>
			<b>48</b>		<b>1/4" Cell Flake @ 15 #</b>
					<b>Finish mix cmt</b>
				<b>4 1/2</b>	<b>Release wooden Plug. 8 5/8"</b>
<b>1:30</b>	<b>300 #</b>		<b>20 1/2</b>		<b>Start Disp.</b>
					<b>Plug down</b>
					<b>shut IN @ well</b>
					<b>Release PSI &amp; washup Equip.</b>
<b>1:20</b>					<b>Rack up.</b>
					<b>Job complete.</b>
					<b>cmt To Pit.</b>
					<b>Allen, Chris, Lucas</b>



Customer <i>L.D. Drilling</i>	Lease No.	Date <i>10-11-10</i>
Lease <i>Christensen</i>	Well # <i>3-15</i>	
Field Order # <i>2903</i>	Station <i>Pratt</i>	Casing <i>5 7/8</i>
		Depth <i>3573</i>
Type Job <i>CNW-5/12-5</i>	Formation	County <i>Shelby</i>
		State <i>KY</i>
		Legal Description <i>15.21-12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 7/8</i>	Tubing Size	Shots/Ft <i>175</i>		Acid <i>60/40 P02</i>	RATE	PRESS	ISIP	
Depth <i>3573</i>	Depth	From	To	Pre Pad <i>1.41 gpm</i>	Max		5 Min.	
Volume <i>77.7</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To <i>300</i>	Frac. <i>60/40 P02</i>	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	<i>120 gpm</i>	HHP Used		Annulus Pressure	
Plug Depth <i>3573</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>James Anderson</i>	Treater <i>Steve Orlando</i>
Service Units <i>2700</i>	<i>17887/1984</i>	<i>19831/19862</i>
Driver Names <i>Orlando</i>	<i>James Anderson</i>	<i>Lucas Wilson</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:30 AM</i>					<i>On location - Safety Meeting</i>
					<i>Run 5/8 Casing / Annulus Shot</i>
					<i>Centralize 1-3-5-7-7</i>
					<i>Circulate 2 Lines - 30 min</i>
					<i>Change on Bottom - Break Crew</i>
<i>2:38</i>	<i>300</i>		<i>20</i>	<i>5</i>	<i>270 KCL H2O</i>
<i>2:40</i>	<i>300</i>		<i>12</i>	<i>5</i>	<i>Mud flush</i>
<i>2:44</i>	<i>300</i>		<i>3</i>	<i>5</i>	<i>H2O spacer</i>
<i>2:45</i>	<i>250</i>		<i>44</i>	<i>5</i>	<i>mix 175 gal 60/40 P02 @ 15 gpm</i>
					<i>Shut Down - Clear pump line</i>
<i>3:00</i>	<i>0</i>		<i>0</i>	<i>6</i>	<i>Start Displacement</i>
<i>3:07</i>	<i>300</i>		<i>50</i>	<i>5</i>	<i>L.S. pressure</i>
<i>3:10</i>	<i>600</i>		<i>75</i>	<i>4</i>	<i>Slow Rate</i>
<i>3:15 AM</i>	<i>1000</i>		<i>870</i>	<i>11</i>	<i>Plug Down - Held</i>
					<i>Job Complete</i>
					<i>Circulate thru job</i>
					<i>Plug &amp; haul / 500 gal 60/40 P02</i>
					<i>6 long 5/8 + 15 min IT follow</i>





James C. Musgrove  
Petroleum Geologist

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(620) 588-4250

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Home  
(620) 587-3444

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling, Inc.  
 LEASE Christiansen # 3-15  
 FIELD Sandra  
 LOCATION SW-NE-NW-NE (486 FNL, 1971 FEL)  
 SEC 15 TWP 21<sup>s</sup> RGE 12<sup>w</sup>  
 COUNTY Stafford STATE Kansas

### ELEVATIONS

KB 1850  
 DF \_\_\_\_\_  
 GL 1845  
 Measurements Are All  
 From KB

CONTRACTOR Petromark Drilling (rig #2)  
 SPUD 10-04-2010 COMP 10/11/2010  
 RTD 3650 LTD 3649  
 MUD UP 2792 TYPE MUD Chemical Displaced

CASING  
 SURFACE 8 5/8" @ 342  
 PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS  
 By LogTech - DIL, C.N.L.K.R., MEL

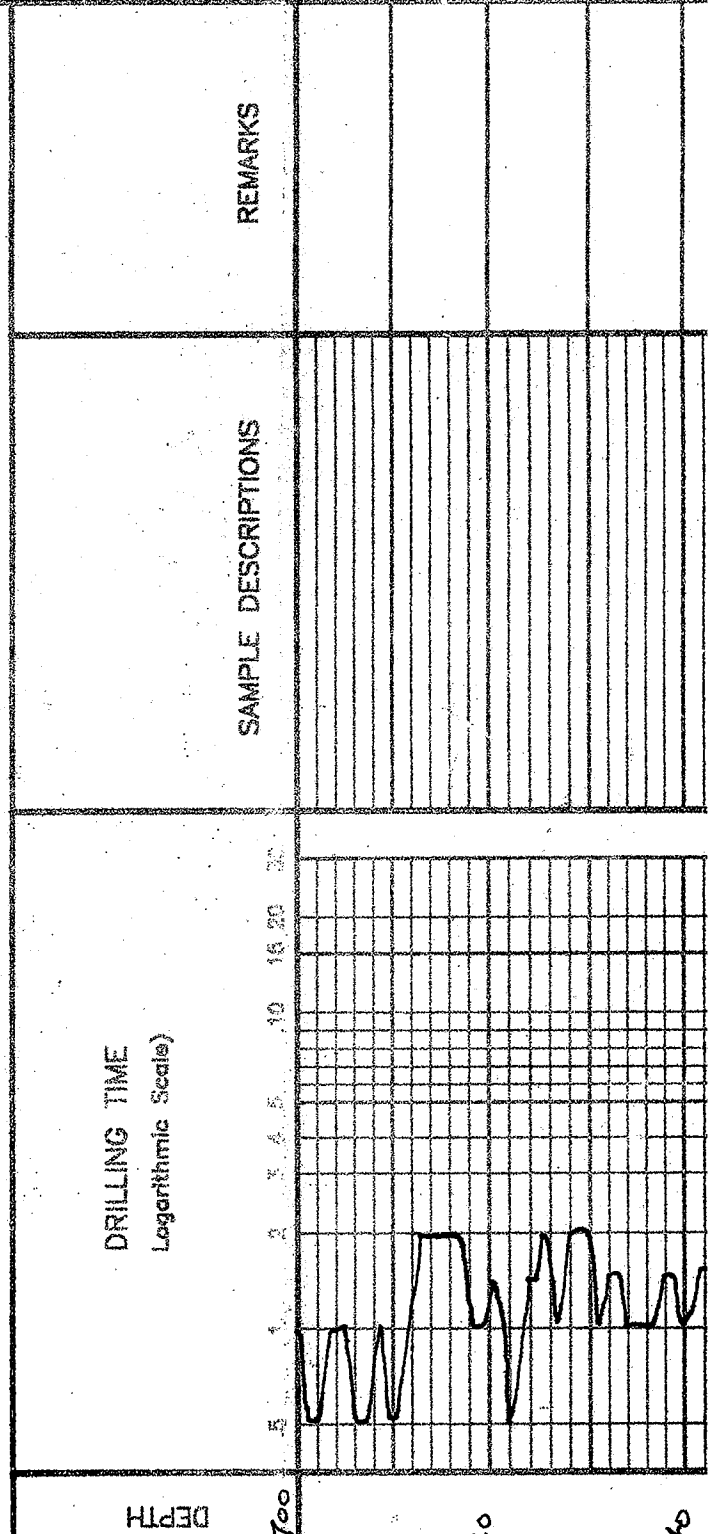
SAMPLES SAVED FROM 2700 TO \_\_\_\_\_  
 DRILLING TIME KEPT FROM 2700 TO R.T.D.  
 SAMPLES EXAMINED FROM 2700 TO \_\_\_\_\_  
 GEOLOGICAL SUPERVISION FROM 3060 TO \_\_\_\_\_  
 GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
anhydrite	634 +1216	
Base anhydrite	656 +1194	
Heebner	3086 -1236	
Toronto	3106 -1256	
Douglas	3119 -1269	
Brown lime	3220 -1370	
Kansans	3233 -1383	

*5 1/2" production/disposal casing was set and cemented.  
 Respectfully submitted,  
 Josh R. Austin  
 Petroleum Geologist*

### LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Col. Lime
- Chert
- Dolomite





part dense poorly dev. 10/5  
 ls, calc gran imp. part  
 ls, tan f. med. x. dev.  
 dolomite scatt. 10/5  
 ls, calc (dense)  
 + ggy - tan d

blk carb shale  
 ggy - grayish green sh.  
 ls, wh/crm fxl chky dense  
 poor vis. to blk sta. N1E0  
 no color  
 shale: ggy/grayish green  
 silty in part

1850 K.B. -

shale: ss above silty  
 slightly mica

ggy - grayish green, soft,  
 silty, mica, shale  
 S S

shale, calc.

ls, tan - buff fxl dense  
 / dy chky in part

ls; tan - crm fxl dense chky  
 poor vis. to br sta. to no color

ls, calc fass/ool dense to sta. N1E0

ggy - Mar shale  
 ls - ggy - crm fxl dense slightly  
 dy - poor vis.

ls: crm - tan f - med. xl. fxl  
 to blk. br sta. spotty sfo

DST #1 3227-3312  
 30 - 45 - 45 - 60

Blow strong OBB in 7 min.  
 Sim - OBB in base of hole  
 Recovery: 300' GIP  
 6' clean oil  
 183' GOWM  
 (6% gas 6% oil 91% water 17% mud)  
 30' OGW  
 (5% gas 1% oil 94% water)

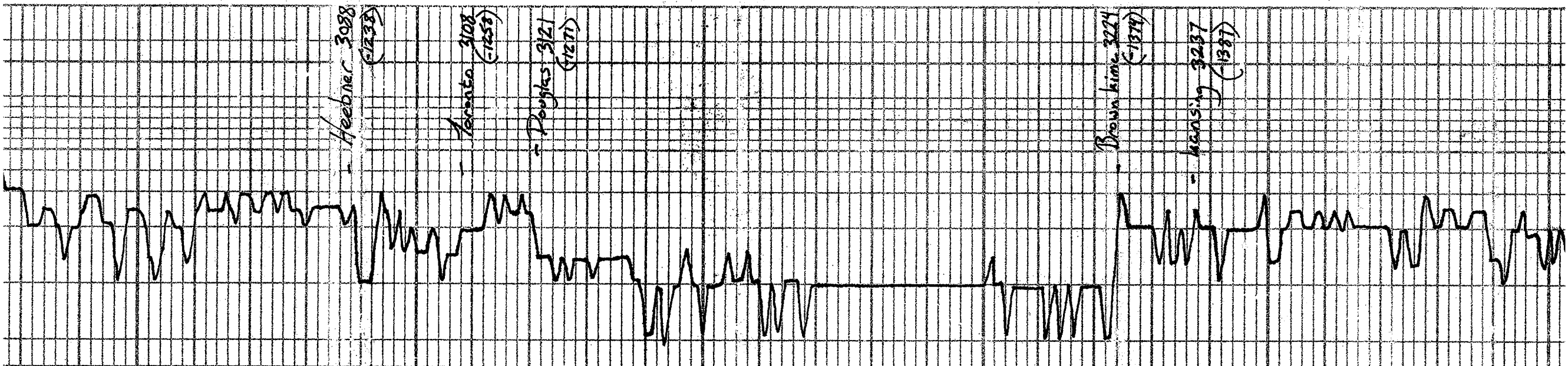
Heebner 3088  
 (1238)

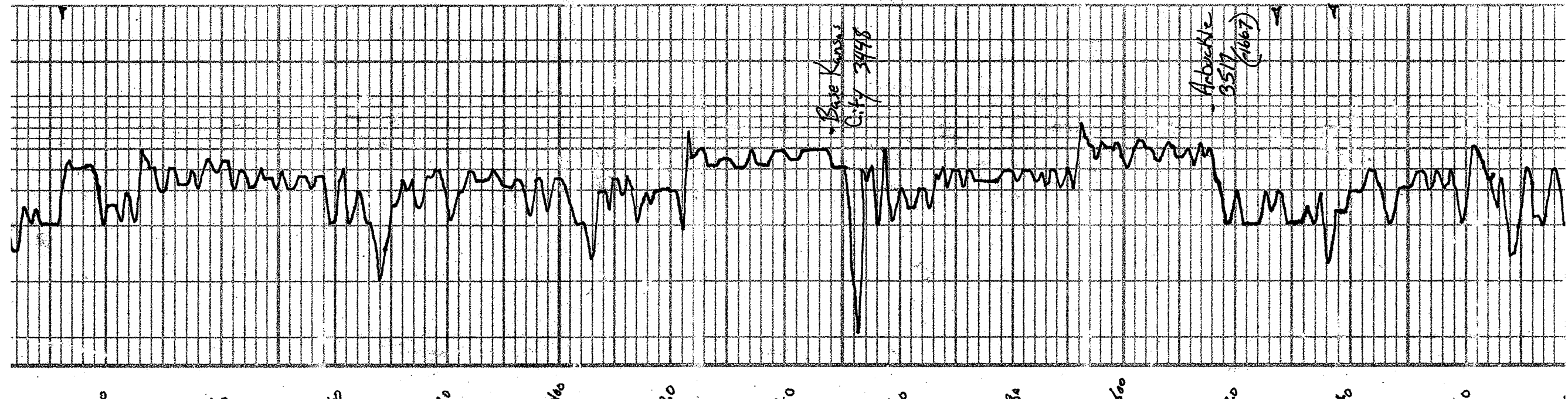
Lorenson 3108  
 (-1258)

Poughles 3121  
 (1211)

Brown himc 3224  
 (-1314)

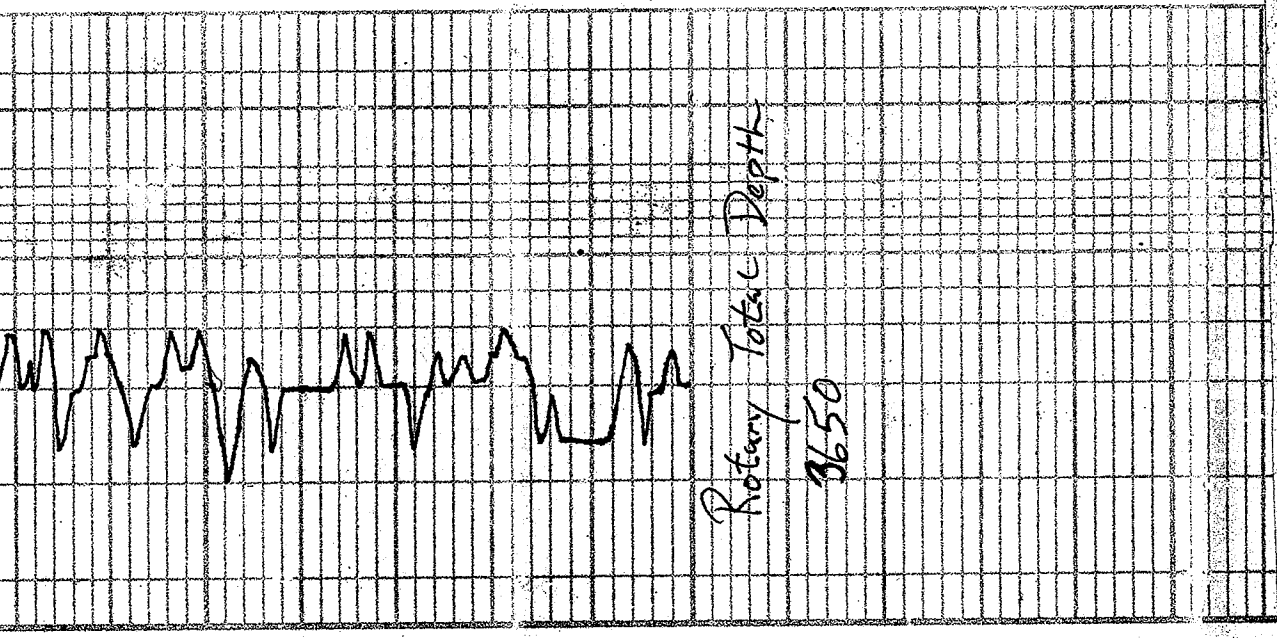
Manning 3237  
 (-1387)





# - fr color	Pressure; ISIP 817 psi FSIP 795 " IFP 16-157 " FFP 108-298 " HSH 1507 -1497
65' tan-cream fine/lost cherty fr fossiliferous - 1/2" o' brn spotty sh to Fe. No color'	
65' gy - cream fine cherty dense poor vis - 2 1/2'	
gy - Mar sh.	DST #2 3355-3420 30-45-45-60 Blow; good 088 in 20 min No blowback finely good 088 in 22 min Recovery; 124' sl. arm 124' MW 120' water
65' tan - buff - gy, cream, sub cream dense fr cream, brn sh. SFO fr color	Pressure; ISIP 957 psi FSIP 954 " IFP 11-100 " FFP 108-177 " HSH 1584 -1580
65' gy - cream fine dense Poor vis - to blk. brn sh. SFO	
65' cream - tan fine fine green in part. SFO's - brn sh. SFO fr color	
gy - dk. gy - blk. shale	
65' gy - cream fine slightly cherty dense poor vis - 4' in part 2 1/2'	
gy - gyish green silty sh.	
65' cream - gy fine dense 4'	
Shale; olive green - gy	
Shale - a-a - cherty	
Slightly silty in part	
gy - green soft clay sh.	DST #3 3447-3527 30-45-45-60 Blow; strong 088 in 25 min very weak blow back finer - strong 088 in 32 min No blowback Recovery; 179' GIP 73' Clean oil 63' GWSOM (6% gas 14% oil 20% water 60% mud) (8% gas 14% oil 20% water 58% mud)
65' olive - tan fine med. sh. fr. 1/2" o' brn sh. SFO - fr - good color	
65' buff - 1/2' gy med. sh. brn sh. SFO/Sat fr - good color	
65' olive - cream - tan fine med. sh. fr color - 1/2' brn sh. SFO fr color - fr - highly porous	Pressure; ISIP 1051 psi FSIP 1030 " IFP 16-77 " FFP 84-114 " HSH 1652





Rotary Total Depth  
3650

did run both fpl drive in sta  
 poorly drive! sfa f-sa other  
 140' - 16' blk sta to Fo to  
 plus Fe 3a odor  
 did; blk - 14' grey med xl, fr  
 140' - 16' blk sta to Fo to  
 plus Fe 3a odor  
 did; blk - 14' grey med xl, fr  
 140' - 16' blk sta to Fo to  
 plus Fe 3a odor

DST#4 3447-2539  
 30-45-45-60  
 Blow, gas built to 10"  
 No blow back  
 Fresh gas 0.88 in 36 min  
 1/2" blow back  
 Recovery 109' GIP  
 201' 900 m  
 (8% gas 22% oil 70% mud)  
 120' 900 m  
 (12% gas 25% oil 60% mud)  
 Pressures: ISIP 1043 PSI  
 FSIP 1021 "  
 IFP 25-80 "  
 FRP 88-123 "  
 HSN 1619 "  
 -1612

-1653

# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name LD DRLG

Contact LD DAVIS  
Well Name CHRISTIANSON #3-15  
Unique Well ID DST#1 LANS A-F 3227-3312  
Surface Location SEC 15-21S-12W STAFFORD CO KS  
Field WILDCAT  
Well Type Vertical

Job Number M036  
Representative MIKE COCHRAN  
Well Operator LD DRLG  
Report Date 2010/10/08  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#1 LANS A-F 3227-3312  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 20:20:00  
Final Test Time 04:15:00

Start Test Date 2010/10/07  
Final Test Date 2010/10/08

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 300' G.I.P.  
6' CLEAN OIL  
183' GOWM 6% GAS, 6% OIL, 41% WTR, 47% MUD  
310' OGW 5% GAS, 4% OIL, 91% WTR  
120' OILY WATER 4% OIL, 96% WTR  
619' TOTAL FLUID

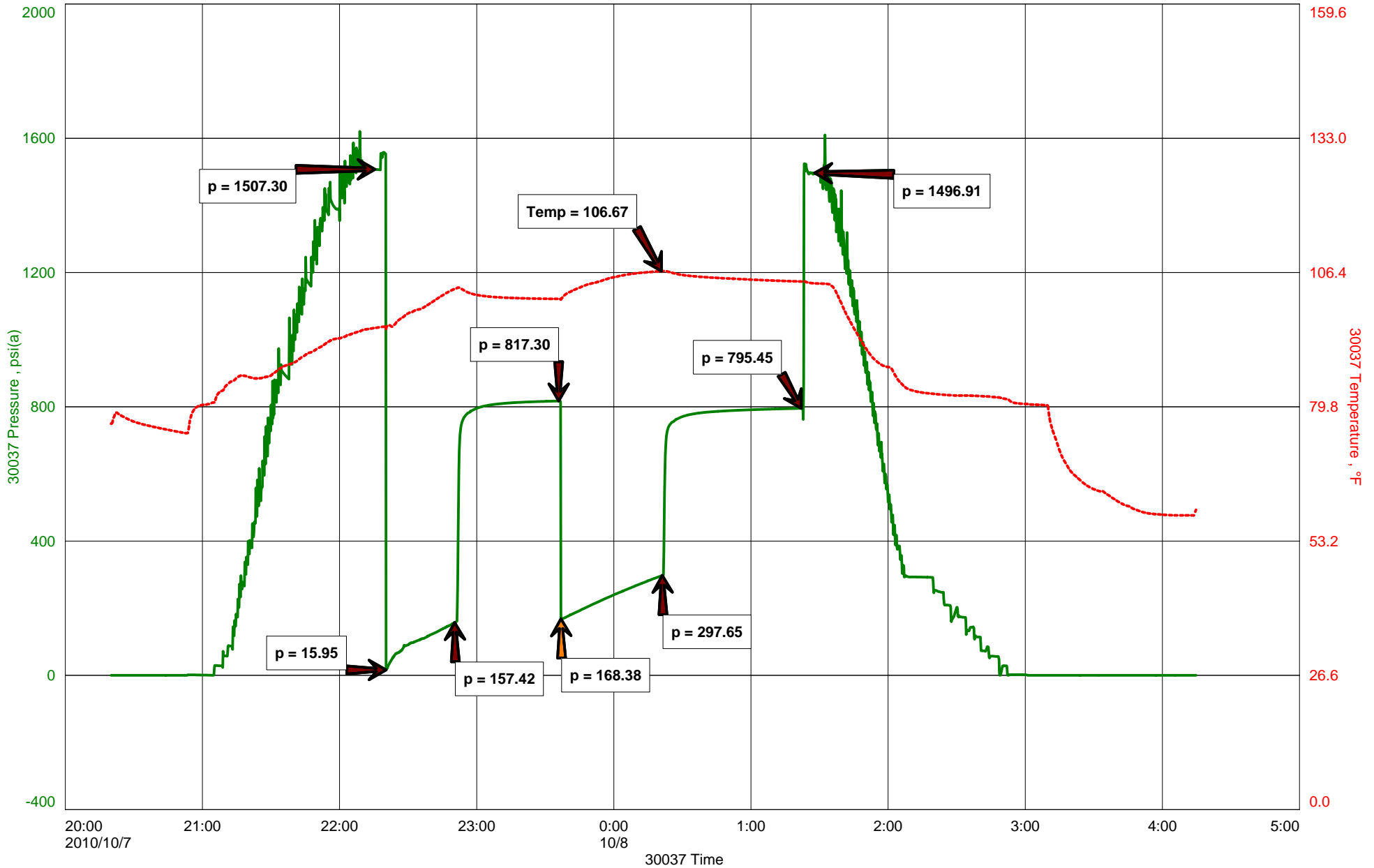
TOOLSAMPLE: 2% GAS, 97% WTR, 1% MUD

PH 7.5  
CHLOR 72,0000 PPM  
RW .10@58 DEG  
GRAVITY 35.3 @ 60 DEG

LD DRLG  
DST#1 LANS A-F 3227-3312  
Start Test Date: 2010/10/07  
Final Test Date: 2010/10/08

CHRISTIANSON #3-15  
Formation: DST#1 LANS A-F 3227-3312  
Pool: WILDCAT  
Job Number: M036

# CHRISTIANSON #3-15







**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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# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name L.D. DRLG

Contact LD DAVIS  
Well Name CHRISTIANSON 3-15  
Unique Well ID DST#2 3355-3420 LANS H,I,J  
Surface Location SEC 15-21S-12W STAFFORD CO. KS  
Field WILDCAT  
Well Type Vertical

Job Number M037  
Representative MIKE COCHRAN  
Well Operator L.D. DRLG  
Report Date 2010/10/08  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#2 3355-3420 LANS H,I,J  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 13:48:00  
Final Test Time 20:33:00

Start Test Date 2010/10/08  
Final Test Date 2010/10/08

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 124' SOSM  
124' MW 80% WTR, 20% MUD  
120' WATER 97% WTR, 3% MUD  
368' TOTAL FLUID

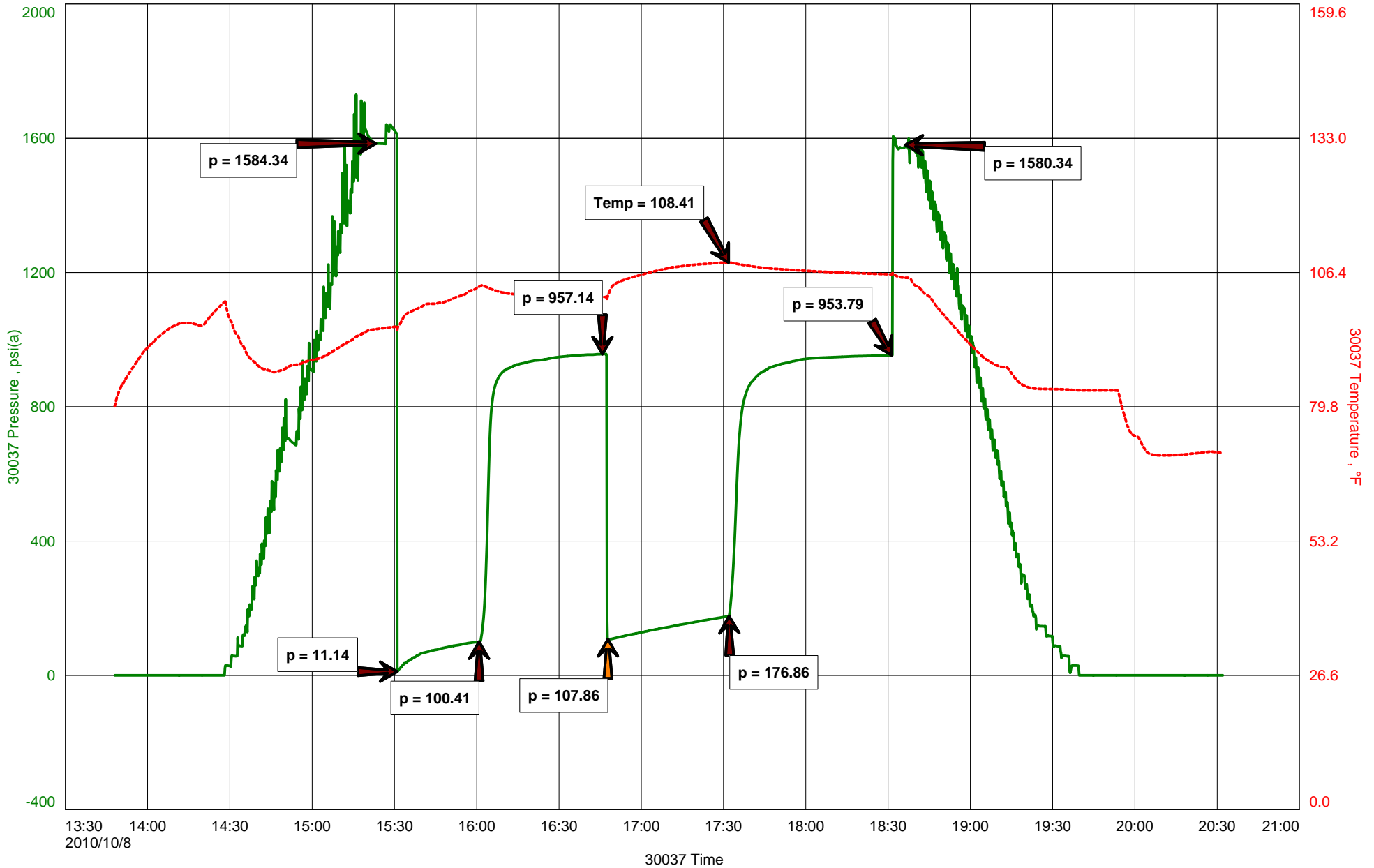
TOOL SAMPLE: 1% OIL, 99% WTR

PH 8.5  
CHLOR 42,000 PPM  
RW .14@76 DEG

L.D. DRLG  
DST#2 3355-3420 LANS H,I,J  
Start Test Date: 2010/10/08  
Final Test Date: 2010/10/08

CHRSTIANSON 3-15  
Formation: DST#2 3355-3420 LANS H,I,J  
Pool: WILDCAT  
Job Number: M037

# CHRSTIANSON 3-15







**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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# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name L.D. DRLG

Contact LD DAVIS  
Well Name CHRISTIANSEN 3-15  
Unique Well ID DST#3 3447-3527 ARB  
Surface Location SEC 15-21S-12W STAFFORD CO. KS  
Field WILDCAT  
Well Type Vertical

Job Number M038  
Representative MIKE COCHRAN  
Well Operator L.D. DRLG  
Report Date 2010/10/09  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#3 3447-3527 ARB  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 09:04:00  
Final Test Time 15:34:00

Start Test Date 2010/10/09  
Final Test Date 2010/10/09

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 179' G.I.P.  
73' CLEAN OIL GRAVITY 39.2 @ 60 DEG  
63' GWOCM  
120' GWOCM  
256' TOTAL FLUID

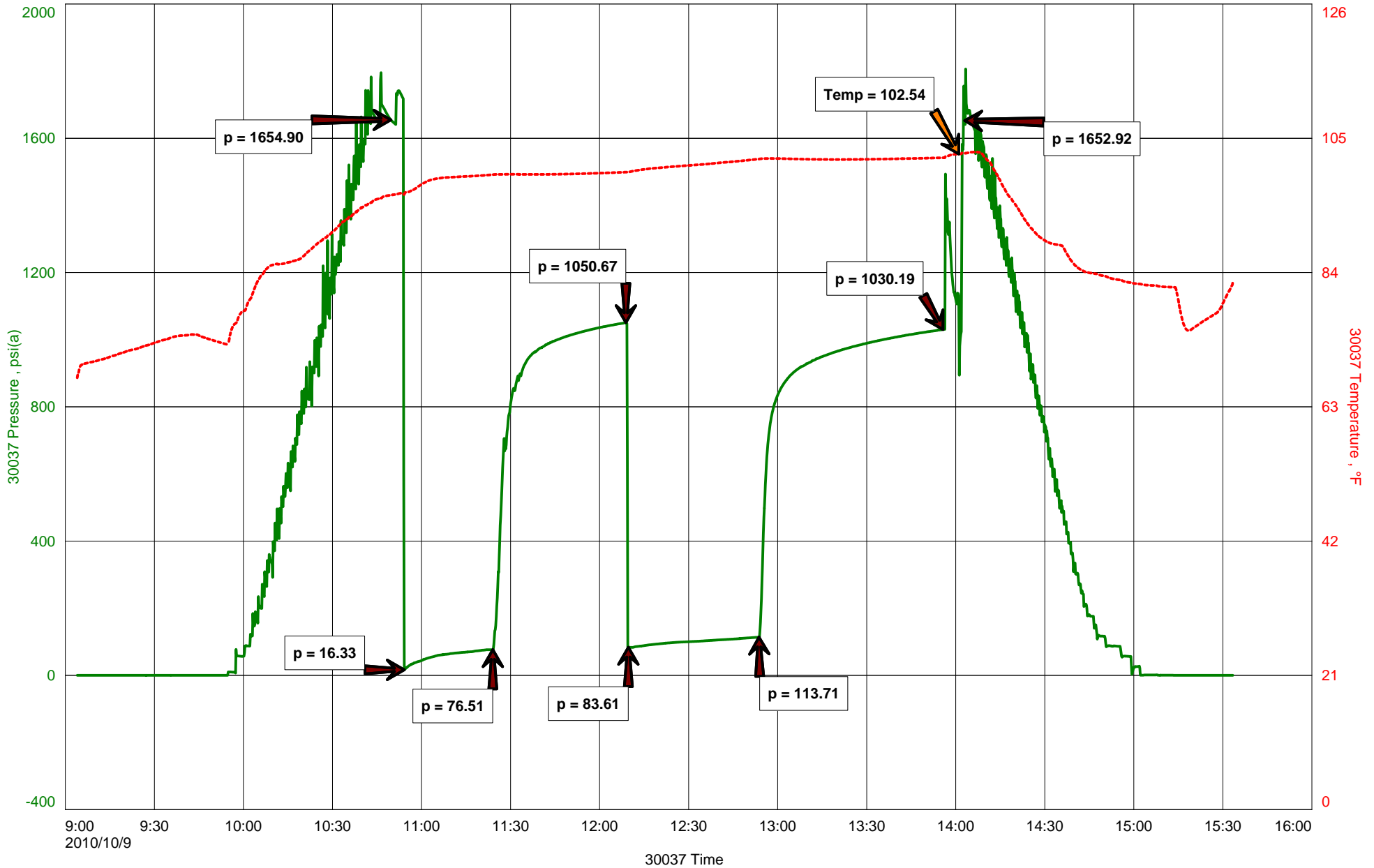
TOOL SAMPLE: 34% OIL, 22% WTR, 44% MUD

PH 8.0  
CHLOR 15,000 PPM  
RW .31 @ 89 DEG

L.D. DRLG  
DST#3 3447-3527 ARB  
Start Test Date: 2010/10/09  
Final Test Date: 2010/10/09

CHRISTIANSEN 3-15  
Formation: DST#3 3447-3527 ARB  
Pool: WILDCAT  
Job Number: M038

# CHRISTIANSEN 3-15







**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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**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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# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name L.D. DRLG

Contact LD DAVIS  
Well Name CHRISTIANSEN 3-15  
Unique Well ID DST#4 3447-3539 ARB  
Surface Location SEC 15-21S-12W STAFFORD CO. KS  
Field WILDCAT  
Well Type

Job Number M039  
Representative MIKE COCHRAN  
Well Operator L.D. DRLG  
Report Date 2010/10/10  
Prepared By MIKE COCHRAN

### Test Information

Test Type CONVENTIONAL  
Formation DST#4 3447-3539 ARB  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 20:54:00  
Final Test Time 03:34:00

Start Test Date 2010/10/09  
Final Test Date 2010/10/10

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 109' G.I.P.  
201' GOCM 8% GAS, 22% OIL, 70% MUD  
120' GOCM 12% GAS, 25% OIL, 60% MUD  
321' TOTAL FLUID

TOOLSAMPLE: 47% OIL, 3% WTR, 50% MUD



L.D. DRLG  
DST#4 3447-3539 ARB  
Start Test Date: 2010/10/09  
Final Test Date: 2010/10/10

CHRISTIANSEN 3-15  
Formation: DST#4 3447-3539 ARB  
Pool: WILDCAT  
Job Number: M039

# CHRISTIANSEN 3-15

