



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



1091938

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	HABERMAN 2-32
Doc ID	1091938

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	24	896	A-CON	175	
SURFACE	12.25	8.625	24	896	COMMON	175	2%CC
PRODUC TION	7.875	5.5	14	3625	COMMON	150	Salt, Friction reducer
PRODUC TION	7.875	5.5	14	3625	60/40 POZMIX	65	



Customer <i>L.D. Drilly</i>	Lease No.	Date
Lease <i>HABERMAN</i>	Well # <i>2-32</i>	<i>7-3-12</i>
Field Order # <i>0507</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>
Type Job <i>CNW 8 5/8 Surface</i>	Depth <i>866</i>	County <i>BARTON</i>
	Formation	State <i>KS</i>
		Legal Description <i>32-18-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>		From	To	Pre Pad	Max		5 Min.	
<i>8 5/8</i>		From	To	Pad	Min		10 Min.	
<i>3 1/2</i>		From	To	Frac	Avg		15 Min.	
<i>3 1/2</i>		From	To		HHP Used		Annulus Pressure	
<i>3 1/2</i>		From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Johnson</i>
Service Units <i>37900 19903 19905 19959 19860</i>		
Driver Names <i>Gullin metal Phyc</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:50 Am</i>					<i>and has set, ready</i>
					<i>Run 27 575 8 5/8 24 CSG</i>
<i>2:00</i>					<i>CASING ON BOTTOM</i>
<i>2:10</i>					<i>Work. by circ.</i>
<i>2:20</i>			<i>3</i>	<i>4</i>	<i>At Spacer</i>
	<i>150</i>		<i>77</i>	<i>5</i>	<i>mix cont 175 sk A-con cont @ 12.000</i>
			<i>37</i>		<i>mix Taint at 175 sk com 240cc 1/4</i>
					<i>shut down cont next</i>
					<i>Release Plug</i>
			<i>52</i>	<i>4.5</i>	<i>At Disp</i>
<i>3:00</i>	<i>200</i>				<i>plug down</i>
					<i>circ 15 vol to pit</i>
					<i>50B complete</i>
					<i>Thompson</i>



**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 06704 A

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

DATE OF JOB: 7-9-12 DISTRICT		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		LEASE: Habeiman		WELL NO.: 232						
ADDRESS:		COUNTY: Barton		STATE: KS						
CITY: STATE:		SERVICE CREW: Orlander, Molson, Young, Scott								
AUTHORIZED BY:		JOB TYPE: CNW-5 1/2 L.S.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27283	1						7-9-12			6:00
33768-20920	1									7:30
19959-19860	1									9:45
										10:30
										11:00
						MILES FROM STATION TO WELL: 65				

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
CP100c	Summer	54	150		2400.00
CP103	60/40 P02	54	6.5		720.00
CC105	C-41P	Lb	36		144.00
CC115	Salt	Lb	1267		6335.00
CC110	Friction Reducer	Lb	106		636.00
CC113	6yrsum	Lb	205		528.75
CC201	6yrsum	Lb	250		502.50
CF-103	Top Rubber Plug 5 1/2"	ea	1		105.00
CF-251	Guide Shoe 5 1/2"	ea	1		250.00
CF-1451	Flapper Type Inset Float Valve 5 1/2"	ea	1		215.00
CF1651	Turboliner 5 1/2"	ea	6		660.00
E100	Pickup Mileage	mi	65		276.05
E101	Heavy Equipment Mileage	mi	130		910.00
E113	Bulk Delivery	Tx	640		1024.40
CE204	Depth Charge	ea	1		2160.00
CE240	Blending + Mixing	54	2.15		301.00
CE304	Plus Containers	ea	1		250.00
S203	Service Supervisor	ea	1		175.00
SUB TOTAL					8963.55

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: Steve Orlander	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Scott P. [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>7-9-12</i>
Lease <i>Haberman</i>	Well # <i>2-32</i>	
Field Order # <i>6709</i>	Station <i>Pratt</i>	Casing <i>5 1/2 14"</i>
Type Job <i>CNW-5 1/2 L.S</i>	Depth <i>3612</i>	County <i>Barton</i>
	Formation	State <i>KS</i>
		Legal Description <i>32-18-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
<i>5 1/2</i>			<i>150sks</i>	<i>Acid Common</i>				5 Min.
Depth <i>3625</i>	Depth	From	To	Pre Pad <i>1.3b yield</i>	Max			10 Min.
Volume <i>88.4</i>	Volume	From	To <i>65sks</i>	Pad <i>60/40 POZ</i>	Min			15 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac <i>1.26 yield</i>	Avg			Annulus Pressure
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Total Load
Plug Depth <i>3612</i>	Packer Depth	From	To	Flush <i>88.1</i>	Gas Volume			

Customer Representative <i>Jim</i>	Station Manager <i>Dave Scott</i>	Treater <i>Steve Orlando</i>
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Service Units <i>27283</i>	<i>33708/20920</i>	<i>19957/19860</i>					
Driver Names <i>Orlando</i>	<i>Melson</i>	<i>Young</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>On location - Safety Meeting</i>
					<i>Run 85 JTS 5 1/2 Casings</i>
					<i>Centralizers 1-3-5-7-9</i>
					<i>Casing On Bottom</i>
					<i>Break Circ w/Rig</i>
<i>9:55</i>	<i>300</i>		<i>8</i>	<i>5</i>	<i>Mix 35sks 60/40 Swager @ 13#</i>
<i>9:57</i>	<i>300</i>		<i>36.3</i>	<i>5</i>	<i>Mix 150sks Cement @ 15.5#/gal</i>
					<i>Shut Down Cleat pump line</i>
					<i>Release plug</i>
<i>10:08</i>	<i>0</i>		<i>0</i>	<i>5</i>	<i>Start H2O Displacement</i>
<i>10:19</i>	<i>300</i>		<i>55</i>	<i>4</i>	<i>lift pressure</i>
<i>10:25</i>	<i>500</i>		<i>78</i>	<i>2</i>	<i>Slow Rate</i>
<i>10:30</i>	<i>1500</i>		<i>88.1</i>	<i>2</i>	<i>Plug Down - Held</i>
			<i>6</i>		<i>Mix 30sks 60/40 RH</i>
					<i>Job Complete</i>
					<i>Thanks, Steve</i>

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	HABERMAN #2-32	<b>Report Date</b>	2012/07/06
<b>Unique Well ID</b>	DST #1, LANSING "A-D", 3238-3280	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 32-18S-14W, BARTON CO. KS.	<b>Qualified By</b>	KIM SHOEMAKER
<b>Field</b>	ERNA SOUTHEAST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #1, LANSING "A-D", 3238-3280		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2012/07/06	<b>Start Test Time</b>	01:44:00
<b>Final Test Date</b>	2012/07/06	<b>Final Test Time</b>	09:05:00

### Test Recovery:

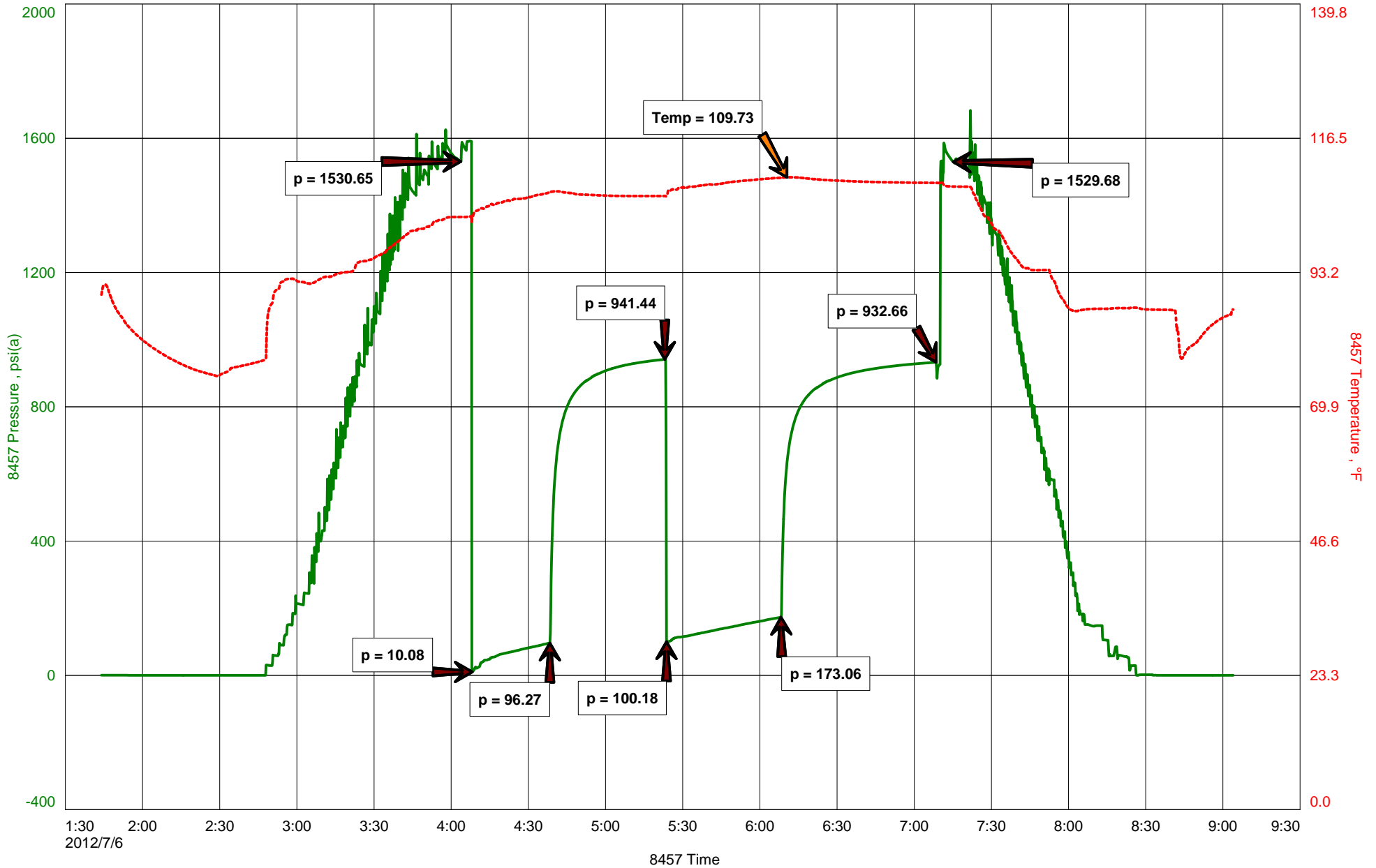
RECOVERED: 50' MCW W/TR. OIL, TRACE OIL, 75% WATER, 25% MUD  
250' SMCW, 89% WATER, 11% MUD  
60' HMCW, 57% WATER, 43% MUD  
360' TOTAL FLUID

TOOL SAMPLE: TRACE OIL, 93% WATER, 7% MUD

CHLORIDES: 65,000ppm  
PH: 7.0  
RW: .1 @ 83 deg.



# HABERMAN #2-32





**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.

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	HABERMAN #2-32	<b>Report Date</b>	2012/07/06
<b>Unique Well ID</b>	DST #2, LANSING "F", 3284-3293	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 32-18S-14W	<b>Qualified By</b>	KIM SHOEMAKER
<b>Field</b>	ERNA SOUTHEAST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #2, LANSING "F", 3284-3293		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2012/07/06	<b>Start Test Time</b>	14:04:00
<b>Final Test Date</b>	2012/07/06	<b>Final Test Time</b>	21:04:00

### Test Recovery:

#### RECOVERED: 55' GAS IN PIPE

10' G,W,SMCO, 2% GAS, 67% OIL, 28% WATER, 3% MUD  
185' SMCW W/TR. OIL, TRACE OIL, 89% WATER, 11% MUD  
195' TOTAL FLUID

TOOL SAMPLE: 3% OIL, 97% WATER

CHLORIDES: 75,000 ppm

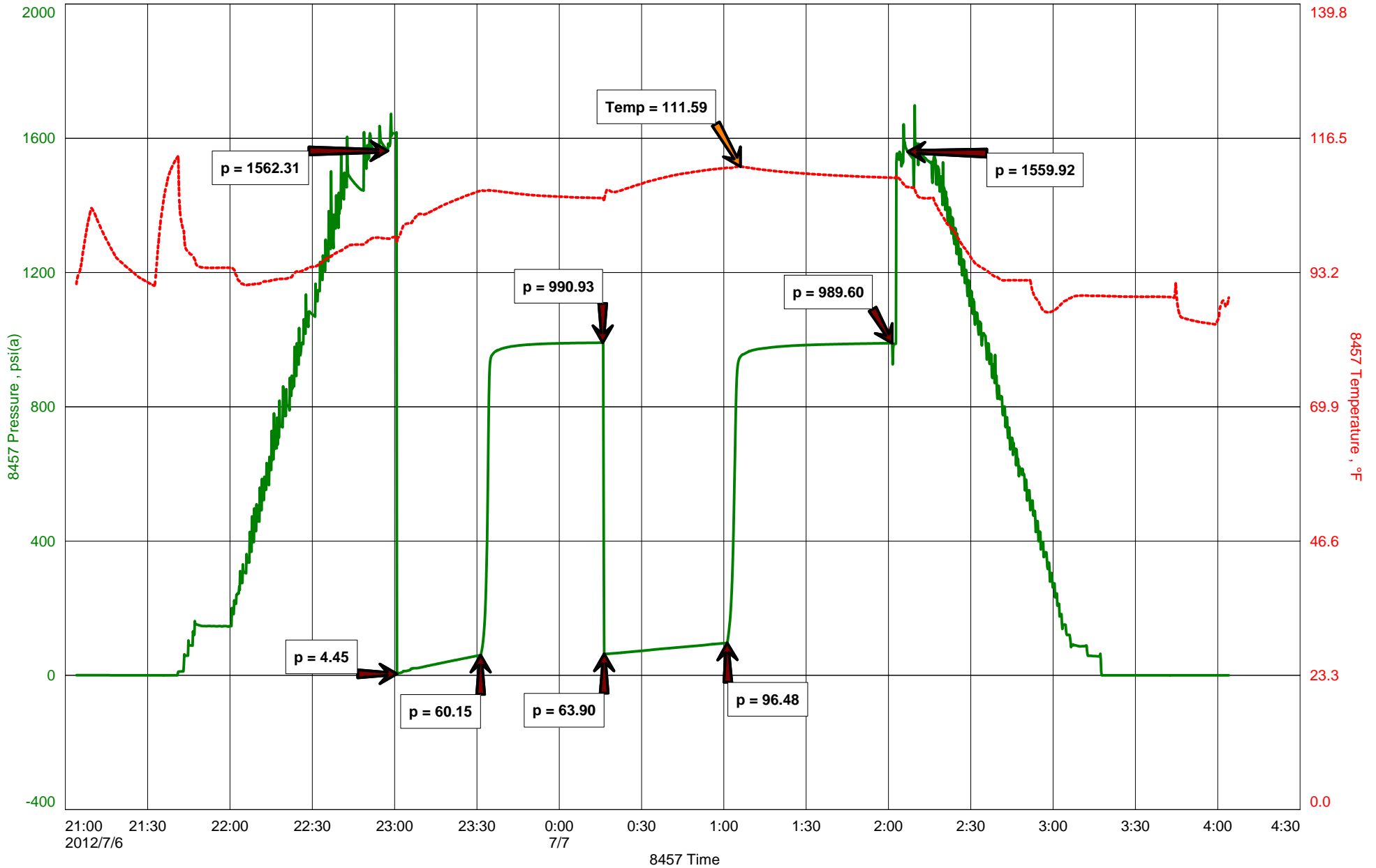
PH: 7.0

RW: .09 @ 86 deg.

L.D. DRILLING, INC.  
DST #2, LANSING "F", 3284-3293  
Start Test Date: 2012/07/06  
Final Test Date: 2012/07/06

HABERMAN #2-32  
Formation: DST #2, LANSING "F", 3284-3293  
Pool: ERNA SOUTHEAST  
Job Number: T073

# HABERMAN #2-32





**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.

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L. D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	HABERMAN #2-32	<b>Report Date</b>	2012/07/07
<b>Unique Well ID</b>	DST #3, LANSING "H", 3369-3397	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 32-18S-14W, BARTON CO. KS.	<b>Qualified By</b>	KIM SHOEMAKER
<b>Field</b>	ERNA SOUTHEAST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #3, LANSING "H", 3369-3397		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2012/07/07	<b>Start Test Time</b>	06:24:00
<b>Final Test Date</b>	2012/07/07	<b>Final Test Time</b>	14:49:00

### Test Recovery:

RECOVERED: 760' GAS IN PIPE  
2335' GO, 23% GAS, 77% OIL  
245' G,W&MCO, 25% GAS, 40% OIL, 10% WATER, 25% MUD  
2580' TOTAL FLUID

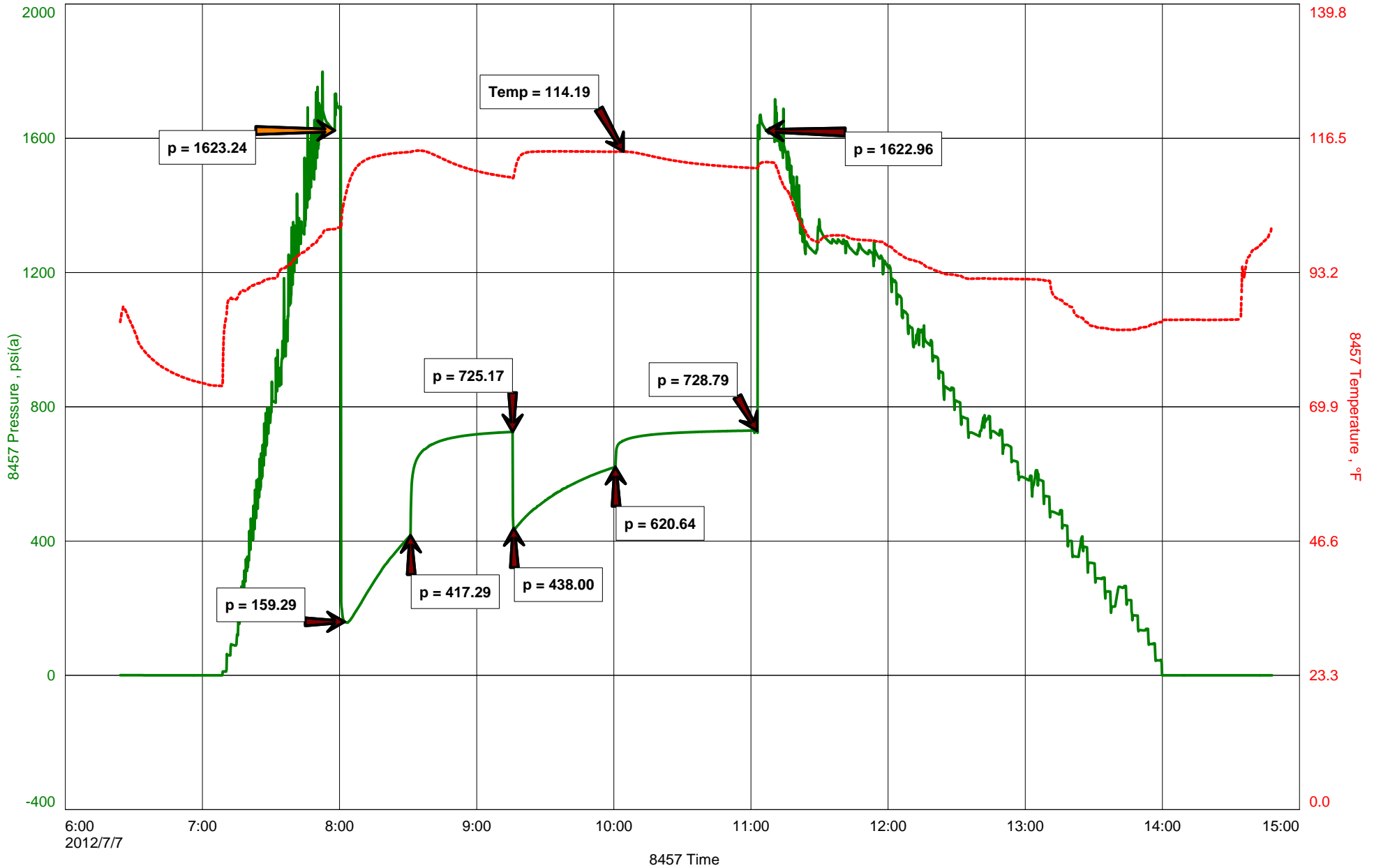
TOOL SAMPLE: 8% GAS , 92% OIL

CHLORIDES: 32,000 ppm  
PH: 7.0  
RW: .39 @ 82 deg.

L.D. DRILLING, INC.  
DST #3, LANSING "H", 3369-3397  
Start Test Date: 2012/07/07  
Final Test Date: 2012/07/07

HABERMAN #2-32  
Formation: DST #3, LANSING "H", 3369-3397  
Pool: ERNA SOUTHEAST  
Job Number: T073

# HABERMAN #2-32





**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

## General Information Report

### General Information

<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	HABERMAN #2-32	<b>Report Date</b>	2012/07/08
<b>Unique Well ID</b>	DST #4, LKC "I,J,K", 3394-3465	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 32-18S-14W, BARTON CO. K.	<b>Qualified By</b>	KIM SHOEMAKER
<b>Field</b>	ERNA SOUTHEAST		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #4, LKC "I,J,K", 3394-3465		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2012/07/08	<b>Start Test Time</b>	00:22:00
<b>Final Test Date</b>	2012/07/08	<b>Final Test Time</b>	07:53:00

### Test Recovery:

RECOVERED: 910' GAS IN PIPE  
10' CO, 100% OIL, GRAVITY: 30  
25' O&MCW, 10% OIL, 68% WATER, 22% MUD  
250' SMCW, 95% WATER, 5% MUD  
60' WCM, 33% WATER, 76% MUD  
345' TOTAL FLUID

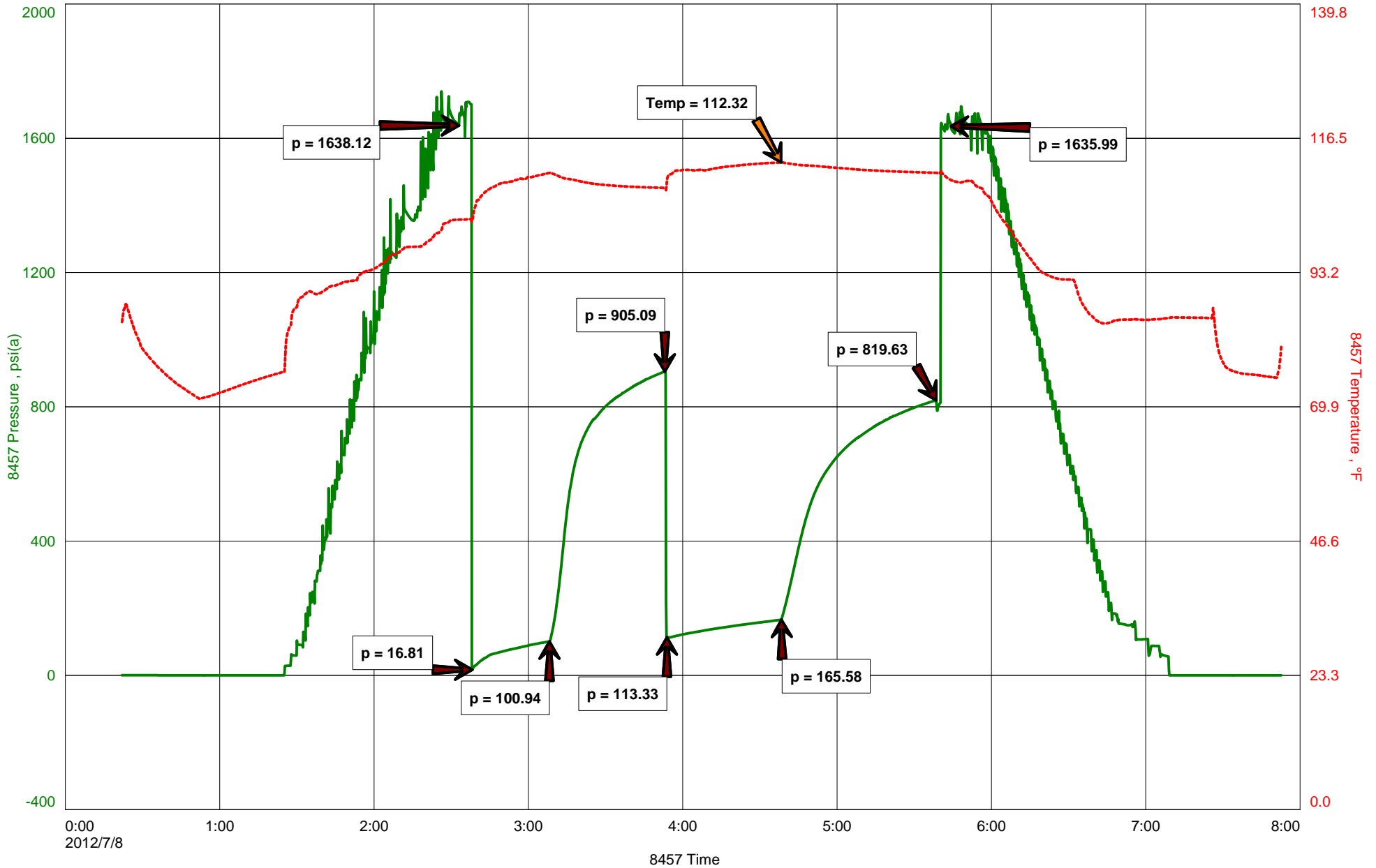
TOOL SAMPLE: 8% OIL, 91% WATER, 1% MUD

CHLORIDES: 69,000 ppm  
PH: 6.5  
RW: .11 @ 75 deg.

L.D. DRILLING, INC.  
DST #4, LKC "I,J,K", 3394-3465  
Start Test Date: 2012/07/08  
Final Test Date: 2012/07/08

HABERMAN #2-32  
Formation: DST #4, LKC "I,J,K", 3394-3465  
Pool: ERNA SOUTHEAST  
Job Number: T075

# HABERMAN #2-32





**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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# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

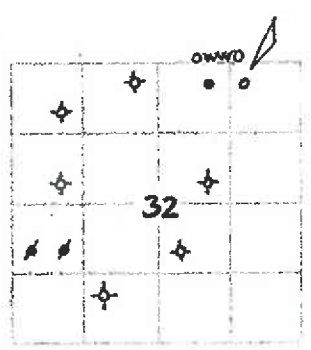
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE # 2-32 HABERMAN  
 FIELD ERNA SOUTHEAST  
 LOCATION 330' ENL & 1102' EEL  
 SEC 32 TWP 18s RGE 14w  
 COUNTY BARTON STATE KANSAS  
 CONTRACTOR PETROMARK DRILLING, RIG 2  
 SPUD 7-2-12 COMP 7-9-12  
 RTD 3630 LTD 3628  
 MUD UP 2727 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 1914  
 DF \_\_\_\_\_  
 GI 1909  
 Measurements Are All  
 From 1914 KB  
 CASING  
 SURFACE 8 5/8" @ 891'  
 PRODUCTION 5 1/2" @  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS.-N., MICRO

SAMPLES SAVED FROM 2860 TO 3630  
 DRILLING TIME KEPT FROM 2800 TO 3630  
 SAMPLES EXAMINED FROM 2860 TO 3630  
 GEOLOGICAL SUPERVISION FROM 3100 TO 3630  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	890+1024	890+1024
TOPEKA	2904-990	2910-996
HEEBNER	3143-1229	3145-1231
BROWN LIME	3222-1308	3226-1312
LANSING	3230-1316	3234-1320
B/KC	3441-1530	3448-1534
ARBUCKLE	3520-1606	3523-1609



API: 15-009-25711

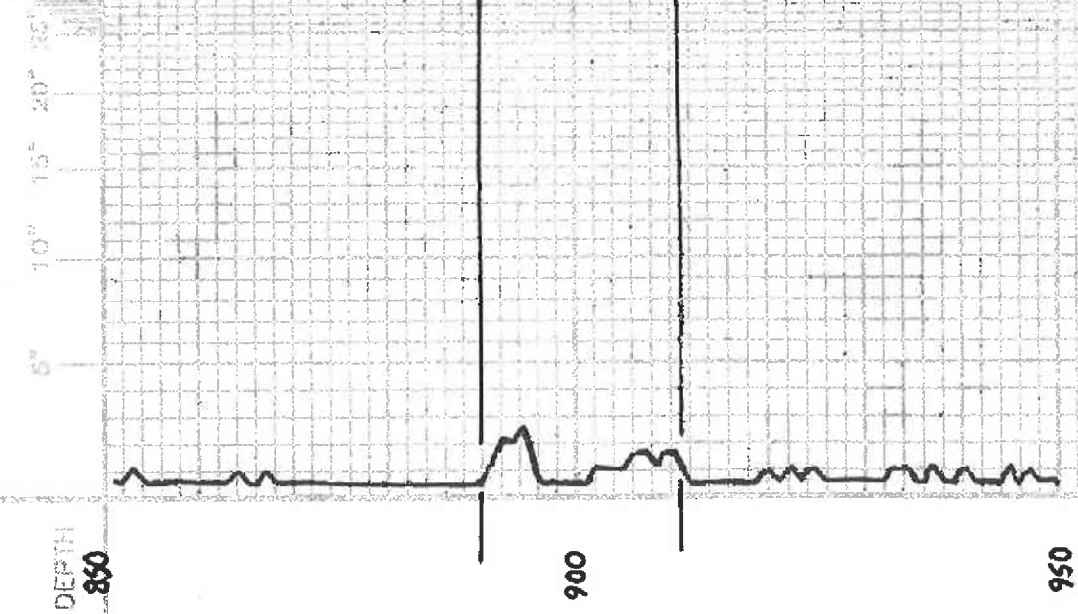
REMARKS

7-2-12 SPUD  
 7-3 @ 896'  
 7-4 @ 2897'  
 7-5 @ 2916'  
 7-6 @ 3280'  
 7-7 @ 3397'  
 7-8 @ 3465'  
 7-9 @ 3630'

### LEGEND

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

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Indicator



SAMPLE DESCRIPTIONS

REMARKS

LITHOLOGY

ANHYDRITE 890+1024

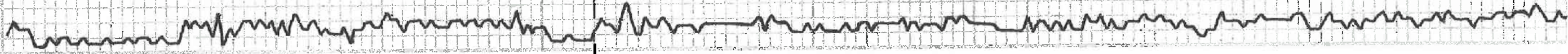
S/ANA. 911+1003

30-03015

2800

2900

3000



Samples are Lagged

Sh. Gy. 119

15. Fr. 119. Sh. 100. Sh. 100. Sh. 100.

Sh. Gy. 120. Sh. 100. Sh. 100.

Sh. 119

TOPEKA 2910-926

15. Fr. 119. Sh. 100. Sh. 100.

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

Sh. 119

15. Fr. 119. Sh. 100. Sh. 100.

15. Fr. 119. Sh. 100. Sh. 100.

NS 66  
WT: 8.6  
SW: 8.2  
CIR: 2600



