



KANSAS CORPORATION COMMISSION 1050050  
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: JEFF CHRISTIAN  
Purchaser: M V PURCHASING

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 #: \_\_\_\_\_  
08/28/2010    09/04/2010    09/13/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-185-23631-00-00  
Spot Description: \_\_\_\_\_  
SE SW NW NE Sec. 27 Twp. 21 S. R. 12  East  West  
1,250 Feet from  North /  South Line of Section  
2,225 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Stafford  
Lease Name: SIEFKES Well #: 4  
Field Name: MAX NORTH  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1842 Kelly Bushing: 1845  
Total Depth: 3700 Plug Back Total Depth: 3674  
Amount of Surface Pipe Set and Cemented at: 338 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: 9000 ppm Fluid volume: 560 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: L. D. DRILLING, INC.  
Lease Name: MERMIS License #: 6039  
Quarter SE Sec. 24 Twp. 20 S. R. 15  East  West  
County: BARTON Permit #: D21526

**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: Deanna Garrison Date: 01/28/2011



1050050

Operator Name: L. D. Drilling, Inc. Lease Name: SIEFKES Well #: 4  
 Sec. 27 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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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
SURFACE	12.25	8.625	23	338	COMMON	375	3%CC, 1/4#FloSeal
PRODUCTION	7.875	5.5	14	3689	60/40 POZMIX	155	

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
2	3610 - 3612	500 Gal 20% HCL NE FE Acid	
		1000 Gal 28% JC: NE FE Acid	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3672</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>09/13/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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)</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	SIEFKES 4
Doc ID	1050050

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SIEFKES 4
Doc ID	1050050

Tops

BASE ANHYDRITE	649	+1196
HEEBNER	3112	-1267
BROWN LIME	3245	-1400
LANSING	3258	-1413
BASE KANSAS CITY	3484	-1639
VIOLA	3508	-1663
SIMPSON SHALE	3538	-1693
ARBUCKLE	3592	-1747
LTD	3698	-1853



**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 02199 A**

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

DATE OF JOB <b>8-29-10</b> DISTRICT <b>Pratt</b>		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 <b>L.D. Drilling</b>		LEASE <b>STEFKES</b>		WELL NO. <b>4</b>		
ADDRESS		COUNTY <b>Stafford</b>		STATE <b>Ks</b>		
CITY STATE		SERVICE CREW <b>Orlando, Vontch, Wright</b>				
AUTHORIZED BY		JOB TYPE: <b>CNW - Finish</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>8-28-10</b> DATE AM PM TIME <b>10:30</b>
<b>27283</b>	<b>1/2</b>					ARRIVED AT JOB <b>8-29-10</b> AM PM TIME <b>10:00</b>
<b>27463</b>	<b>1/2</b>					START OPERATION <b>8-29-10</b> AM PM TIME <b>2:30</b>
<b>17959-21010</b>	<b>1/2</b>					FINISH OPERATION <b>8-29-10</b> AM PM TIME <b>3:00</b>
						RELEASED <b>8-29-10</b> AM PM TIME <b>3:50</b>
						MILES FROM STATION TO WELL <b>45</b>

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: Lee B. Bracola  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100	Common	SK	375		6000 00
CC102	cellulose	Lb	94		347 80
CC109	Calcium Chloride	Lb	1059		1111 95
CC200	Cement/bel	Lb	706		176 50
CF153	Wooden Cement Plug	ea	1		160 00
E100	Pickup Mileage	mi	45		191 25
E101	Heavy Equipment Mileage	mi	90		630 00
E113	Bulk Delivery	ton	774		1370 80
CE200	Depth Charge U-SUD	ea	1		1000 00
CE240	Cement Service Charge	SK	375		525 00
CE504	Plug Container	ea	1		250 00
5003	Service Supervisor	ea	1		175 00

SUB TOTAL

**7694 90**

CHEMICAL / ACID DATA:			

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

**DLS**

SERVICE REPRESENTATIVE Steve Orlando

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Lee B. Bracola

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

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

Fracture 3NTO 170' 1/2 W S INTO

## TREATMENT REPORT

Customer L.D. Drilling	Lease No.	Date 8-09-10	
Lease STERKOS	Well # 41		
Field Order # 2177	Station Pratt	Casing 2 7/8	Depth 312
Type Job CNOV Surface	Formation	County Sibley	State KS
		Legal Description 07-21-12	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 7.875	Tubing Size	Shots/Ft 375		Acid		RATE	PRESS	ISIP
Depth 312	Depth	From	To	Pre Pad 1.364-14	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 39	Packer Depth	From	To	Flush 21	Gas Volume			Total Load

Customer Representative	Station Manager Drew Smith	Treater Jim Collins
Service Units 07033 07463 19959 01010		
Driver Names Ollie Veach		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:00					(Intermittent - Safety Meeting)
					Run 850 2 7/8 casing
					Casing can pull in
					Pressure can w/d
1:00	200		78	5	Max 375 shots (commenced 15' / 10')
2:00	0		0	11	Start Acid Water plug
3:00	200		6	11	Start Displacement
3:10	250		21	11	Commenced Surface plug down
					Plug down
					Job complete
					Thank you

FIELD SERVICE TICKET

1718 02654 A



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

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

DATE OF JOB <b>9-4-10</b> DISTRICT <b>Pratt, Ks.</b>		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 <b>L.D. DRILLING, INC.</b>		LEASE <b>SIEFKES</b> WELL NO. <b>4</b>							
ADDRESS		COUNTY <b>STAFFORD</b> STATE <b>Ks.</b>							
CITY STATE		SERVICE CREW <b>LESLEY, VEATCH, PAINE</b>							
AUTHORIZED BY		JOB TYPE: <b>CALL - 5 1/2 L.S.</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
11870	1						9-4-10	PM	4:30
27463	1					ARRIVED AT JOB		PM	8:00
19959/2010	1					START OPERATION		PM	11:20
						FINISH OPERATION		PM	11:57
						RELEASED		PM	12:30
						MILES FROM STATION TO WELL <b>45</b>			

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: L.D. Davis  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POZ	SK	125		1,500.00
CP 103	60/40 POZ	SK	30		360.00
CC 111	SALT	lb	1,119		559.50
CC 112	CEMENT FRICTION REDUCER	lb	54		324.00
CC 201	GILSONITE	lb	625		418.75
CF 103	TOP RUBBER CEMENT PLUG, 5 1/2"	EA	1		1050.00
CF 251	GUIDE SHOE 5 1/2"	EA	1		250.00
CF 1461	FLAPPER TYPE INSERT FLOAT VALVE	EA	1		215.00
CF 1651	TURBOLIZER	EA	6		660.00
C 704	CS-14, KCl SUBSTITUTE	GAL	1		35.00
CC 151	MUD FLUSH	GAL	500		430.00
E 100	PICKUP MILEAGE	MILE	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MILE	90		630.00
E 113	BULK DELIVERY CHARGE	TM	302		482.40
CE 204	DEPTH CHARGE; 3001-4000'	HRS	1-4		2,160.00
CE 240	BLENDING SERVICE CHARGE	SK	1.55		217.00
CE 504	PLUG CONTAINER UTILIZATION CHARGE	CB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
SUB TOTAL					<b>6,005.14</b>

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: L.D. Davis By DL Smith  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>LD DRILLING, INC.</b>	Lease No.	Date <b>9-4-10</b>
Lease <b>SIEFKES</b>	Well # <b>#4</b>	
Field Order # <b>2654</b>	Station <b>PRATT, Ks.</b>	Casing <b>5/8</b>
Type Job <b>CNW - 5/8 L.S.</b>	Formation	Depth <b>3700'</b>
		County <b>STAFFORD</b>
		State <b>Ks.</b>
		Legal Description <b>27-21-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5/8</b>	Tubing Size	Shots/Ft	<b>CNT-</b>	Acid <b>125SK 60/40 Poz</b>	RATE	PRESS	ISIP	
Depth <b>3689'</b>	Depth	From	To	Pre Pad <b>(2) 1.8CUFT<sup>3</sup></b>	Max		5 Min.	
Volume <b>90BBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>7500</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3689'</b>	Packer Depth	From	To	Flush <b>90BBL H<sub>2</sub>O</b>	Gas Volume		Total Load	

Customer Representative <b>LD DAVIS</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
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Service Units	<b>19870</b>	<b>27463</b>	<b>19959</b>	<b>21010</b>					
Driver Names	<b>LESLEY</b>	<b>VEATCH</b>	<b>PHYE</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00PM					ON LOCATION - SAFETY MEETING
8:50PM					RUN 187 JTS. 5 1/2" x 14" # INSERT AT 3684'
9:10PM					CENT. - 1, 3, 5, 7, 9, 11
9:15PM					CSG. ON BOTTOM
10:20PM					HOOUP TO CSG. - BREAK CIRC. W/ RIG
11:20PM	300		20	6	2% KCL AHEAD
11:24PM	200		12	6	MUD FLUSH
11:26PM	200		3	6	H <sub>2</sub> O SPACER
11:27PM	150		26	6	125SK 60/40 Poz @ 15.4#/GAL
11:31PM					WASH PUMP & LINE CLEAN
11:34PM					DROP TOP RUBBER PLUG
11:35PM	160		0	7	START DISPLACEMENT
11:45PM	300		71	6	LIFT PRESSURE
11:47PM	500		80	5	SLOW RATE
11:57PM	1000		90	4	PLUG DOWN! - HELD
					PLUG R.H. w/ 30SK-60/40 Poz
					JOB COMPLETE,
					THANKS - KEEVEN



# Jeff Christian

PETROLEUM GEOLOGIST  
Wichita, Kansas

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR L. D. DRILLING, INC.  
LEASE SIEFKES # 4  
LOCATION 1250' FNL & 2225' FEL  
SEC. 27 TWSP 21 S RNG 12 W  
COUNTY STAFFORD STATE KANSAS  
FIELD MAX NORTH  
API 15-185-23631

CONTRACTOR PETROMARK RIG NO. 2  
DRILLING STARTED 8/28/10 COMPLETED 9/04/10  
MUD DISPLACED 2761' MUD TYPE CHEMICAL  
DRILLING TIME KEPT FROM 3000' TO RTD  
SAMPLES SAVED FROM 3000' TO RTD  
SAMPLES EXAMINED FROM 3000' TO RTD  
GEOLOGICAL SUPERVISION FROM 3105' TO RTD

FORMATION NAME	LOG		SAMPLE	
	TOP	DATUM	TOP	DATUM
BASE ANHYDRITE	649'	(+1196)	651'	(+1194)
HEEBNER	3112'	(-1267)	3113'	(-1268)
BROWN LIME	3245'	(-1400)	3247'	(-1402)
LANSING	3258'	(-1413)	3260'	(-1415)
BKC	3484'	(-1639)	3487'	(-1642)
VIOLA	3508'	(-1663)	3510'	(-1665)
SIMPSON SH.	3538'	(-1693)	3540'	(-1695)
ARBUCKLE	3592'	(-1747)	3596'	(-1751)
TOTAL DEPTH	3698'	(-1853)	3700'	(-1855)

### ELEVATIONS

KB 1845'  
GL 1840'

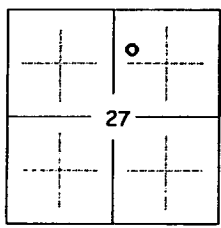
MEASUREMENTS FROM K.B

### CASING RECORD

Conductor NONE  
Surface 8 5/8" @ 338'  
W/ 375 SX  
Production 5 1/2"

### ELECTRICAL SURVEYS:

LOG TECH\* INC:  
DIL  
CDL/CNL  
MEL  
SONIC



DATE	7:00 AM DEPTH	REMARKS
8/28/10	MIRT	SPUD 8:15 pm
8/29/10	342'	WOC dev. 3/4 deg.
8/30/10	1790'	DRLG.
8/31/10	2635'	DRLG.
9/01/10	3320'	DRLG.
9/02/10	3540'	DST # 2
9/03/10	3608'	TOH w/ DST # 3
9/04/10	3630'	TOH W/ DST # 5 RTD 3700' @ 10:50 am dev. 1/4 deg.

### Remarks

5 1/2" production casing run to further test the Arbuckle formation. The Viola formation should be considered prior to abandonment.

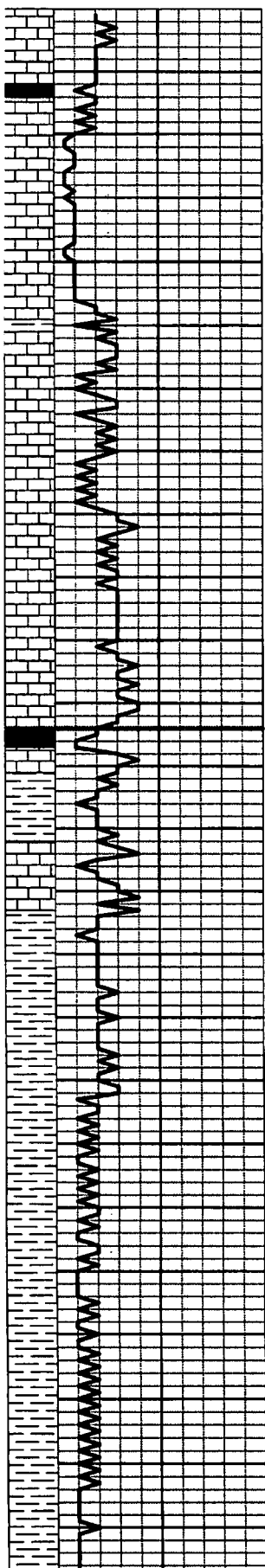
Electric log measurements correlate about 2' high compared to rotary measurements.

Samples deposited at the Kansas Geological Survey.

Respectfully Submitted,

*Jeff Christian*  
Jeff Christian

LITH	0	DRILL TIME (MIN/FT)	10	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
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3000

Ls: lt brn-lt gry, fn xln, dns, foss in part, sct por, ns

trc Sh: blk, carb

Ls: crm-lt brn-lt gry, fn xln, gran, foss-sli ool, sct chrt, fr-gd intrxln-vug por, ns

Same

3050

Ls: lt brn-lt gry, fn xln, dns, sli foss, pr vis por, ns

Ls: lt brn-lt gry, fn xln, gran, sli dolo, foss, fr intrxln-vug por, ns

Ls: crm-lt brn-lt gry, fn xln, part dns, sli foss, pr vis por, ns

3100

Same

vy sct Sh: blk, carb

Ls: brn, micro xln, dns

Sh: gry-red-some grn & brn

Ls: crm-brn-lt gry, fn xln, part dns, part chlky, sli foss, pr vis por, ns

3150

Sh: lt gry-grn

Sh: gry-lt gry-trc grn

Sh: as above, sli mica in part

Sh: gry-grn, calc in part

3200

Sh: gry-grn, mica & silty in part

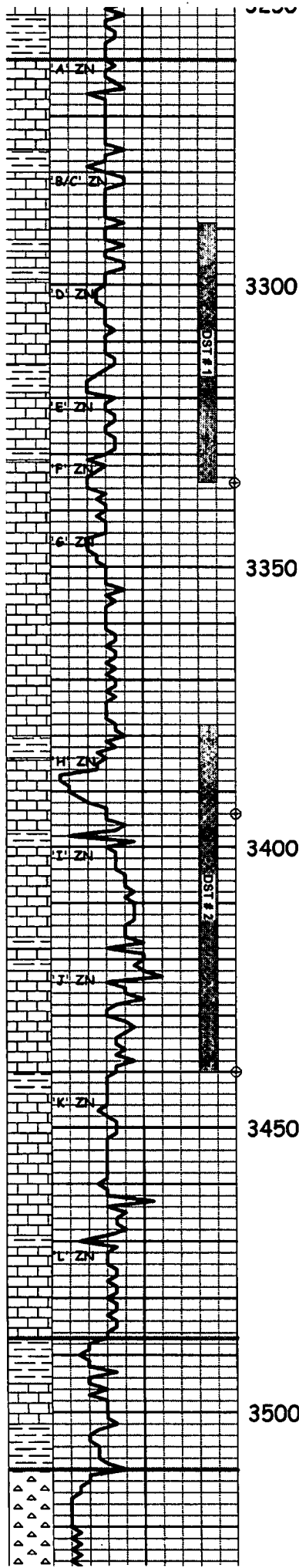
Same

Sh: gry-grn, mica & silty in part

HEEBNER 3114' (-1269)

E Log 3112' (-1267)

BROWN LIME 3247' (-1402)



Sh: gry

Ls: crm-lt brn, fn xln, dns, few pcs sli foss-ool, pr vis por, ns

Same

Ls: crm-lt brn-lt gry, fn xln, dns, chky in part, sli foss, pr vis por, ns

Ls: as above w/ Sh: gry

Ls: crm-lt brn, fn xln, dns, sli chky, trc vug por, trc dead stn, nsfo, no odor

Ls: as above, cpl pcs w/ hvy, tarry oil, sli odor

Sh: gry

Ls: lt brn-lt gry, fn xln, dns, sli foss, trc pr pp-vug por, trc stn, nsfo, no odor

Ls: lt brn-lt gry, fn xln, ool-sli foss in part w/ pr-fr pp-vug-intrpart por, ssfo, sli-fr odor, drk brn-blk sptd stn

Ls: crm-lt brn-lt gry, fn xln, part dns, sli foss, shly, pr vis por, ns w/sct pcs as above

Ls: crm-lt brn-lt gry, fn xln, dns, sli foss, pr vis por, ns

Ls: crm-lt brn, fn xln, subchky, part dns, few pcs subool, pr vis por, ns

Sh: gry

Ls: crm-lt gry, fn xln, ool-oolmd, fr-gd oolmd por, 1 pc w/ sli stn, nsfo, ? fnt odor

Sh: gry

Ls: crm-lt brn, fn xln, subchky, part dns, ool in part, vy sct introol-vug por w/ sli stn, nsfo, no odor

Ls: lt brn-lt gry, fn xln, dns, sli foss, pr vis por, ns

Ls: crm-lt brn, fn xln, subchky, ool-sli foss in part, pr-trc fr pp-vug-intrpart por, vssfo, sli odor, sct drk brn-blk sptd stn

Ls: crm-lt brn-lt gry, fn xln, dns, sli foss, no vis por, ns

Sh: gry-some grn

Ls: crm-lt brn, fn xln, ool in part, pr vug-introol por, sli show hvy, tarry oil, no odor, drk brn-blk sptd stn

Ls: lt brn-lt gry, fn xln, dns, sli foss, pr vis por, ns

Sh: drk gry-gry-grn

Ls: crm-lt brn-lt gry, fn xln, dns, ool in part, pr introol-vug por, vy sct dead oil stn, nsfo, no odor

Sh: gry-grn-red

Ls: lt gry, fn xln, dns, sli foss, sli chrty, pr vis por, ns

Sh: gry-grn-red

Chrt: wt-crm-tan, fresh-some withrd, vy sct brn sptd-sat stn w/ sli-fr sfo&g, no odor, some blk gil stn

Chrt: as above, 10% withrd w/ sptd-sat stn & sli-fr sgfo, 10% blk gil stn, 80% fresh w/ trc stn

**LANSING 3260' (-1415)**

E Log 3258' (-1413)

Andy's Mud: 3334'  
Wt. 8.8, Vis. 60, W.L. 10.8  
Chl. 3,000, LCM 1/4#

DST # 1 3289' to 3335'  
30"-30"-10"-out  
IF: Blow Built to 1/4"  
FF: Weak Surface Blow  
RECOVERY: 5' VSOCM (1%O,99%M)  
IFP: 5-11# ISIP: 47#  
FFP: 10-11# FSIP: NT  
BHT: 98 deg. F

DST CHARTS BELOW

Pipe Strap @ 3335': 1.07' long to board dev. 7/8 deg.

DST # 2 3378' to 3440'  
30"-30"-30"-30"  
IF: Blow Built to 1/4"  
FF: Surface Blow Throughout  
RECOVERY: 10' Mud w/ Oil Spks in tool  
IFP: 10-15# ISIP: 403#  
FFP: 17-17# FSIP: 30#  
BHT: 99 deg. F

Andy's Mud: 3440'  
Wt. 9.2, Vis. 53, W.L. 11.2  
Chl. 6,000, LCM 1/2#

**BKC 3487' (-1642)**

E Log 3484' (-1639)

**VIOLA 3510' (-1665)**

E Log 3508' (-1663)

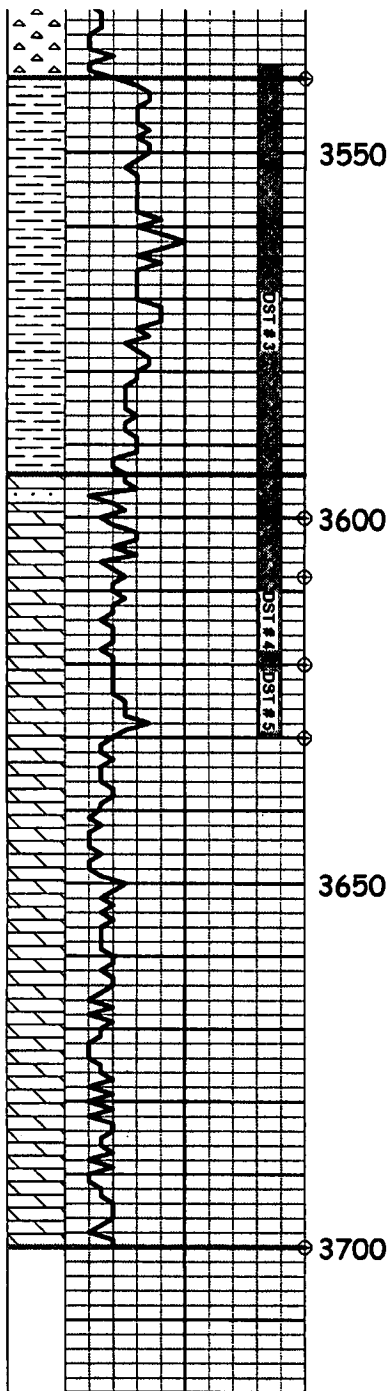


Chart: as above, sli less stn, cpl pcs w/ gsgfo, no odor

Sh: gry-grn, subwaxy

Sh: as above, trc blu/grn & olive sh

same

Sh: gry-grn, subwaxy w/ sct red, sli gummy sh

Sst: clear, fn grn, fri, ssfo, gd odor & sat w/ Dolo:  
 It brn-lt gry, fn xln, some med xln, suc, trc ool, fr vug-intrxn por, fr sfo, gd sat stn  
 Dolo: It brn-lt gry, fn-trc med xln, part dns, suc, fr vug-intrxn por, sli-fr sfo, fr odor, sct gd sat stn  
 Dolo: It gry, med-crs xln, some fn xln, suc, ool in part, fr-gd vug-intrxn por, fsfo, gd odor, sat stn, some barren por  
 Dolo: It gry, med-crs xln, some dns, chrty, trc ool chrty, fr-gd vug-intrxn por, fsfo, fr odor, sct sat stn, some barren por, some blk gil stn  
 Dolo: It gry, med-crs xln, fr-gd intrxn-vug por, sli-fr sfo, incrs blk gil stn

Same

Dolo: It gry-ton, fn-med xln, fr intrxn por, sli-fr sfo, 50% blk gil stn w/ chrt: wt, sli wthrd, trc stn

Dolo: tan-lt gry, fn-med xln, sli chrty, fr intrxn por, vssfo, sli odor, mostly blk gil stn-barren

Same

Dolo: tan-lt gry, fn-med xln, chrty, fr intrxn por, mostly barren

**SIMPSON SH. 3540' (-1695)**

E Log 3538' (-1693)

DST # 3 3538' to 3608'  
 45"-45"-45"-45"  
 IF: Blow Built to 11" ISI: 1/4" return  
 FF: BOB/21.5" FSI: 2" return  
 RECOVERY: 155' total fluid  
 340' GIP  
 94' HO&GCM (4%G,36%O,60%M)  
 61' G&OCM (2%G,26%O,72%M)  
 IFP: 12-59# ISIP: 1075#  
 FFP: 60-75# FSIP: 1067#  
 BHT: 103 deg. F  
 Andy's Mud: 3608'  
 Wt. 9.2, Vis. 52, W.L. 10.4  
 Chl. 9,000, LCM 1#

**ARBUCKLE 3594' (-1749)**

E Log 3592' (-1747)

DST # 4 3608' to 3620'  
 30"-45"-45"-60"  
 IF: BOB/10" ISI: Strong return  
 FF: BOB/10" FSI: Strong return  
 RECOVERY: 290' total fluid  
 900' GIP  
 280' VSMCGO (3%M,20%G,77%O)  
 10' MW (20%M,80%W)  
 IFP: 36-85# ISIP: 986#  
 FFP: 95-130# FSIP: 972#  
 BHT: 110 deg. F  
 CHL: 20,000 ppm

DST # 5 3620' to 3630'  
 30"-45"-45"-60"  
 IF: BOB/23" ISI: Weak return  
 FF: BOB/32" FSI: Weak return  
 RECOVERY: 220' total fluid  
 270' GIP  
 20' GO (10%G,90%O)  
 200' WTR  
 IFP: 37-90# ISIP: 981#  
 FFP: 96-123# FSIP: 982#  
 BHT: 113 deg. F  
 CHL: 22,000 ppm

Andy's Mud: 3640'  
 Wt. 9.0, Vis. 65, W.L. 10.8  
 Chl. 10,000, LCM 1#

**RTD 3700 (-1855)**

E Log 3698' (1853)

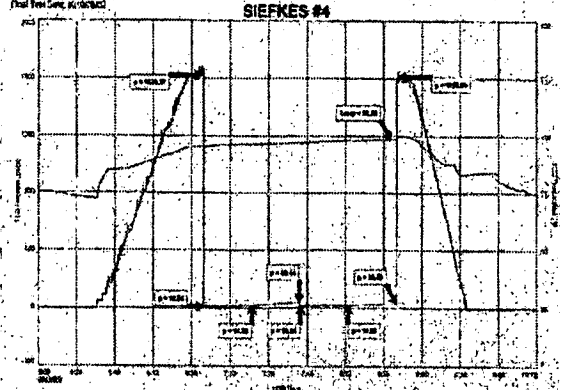
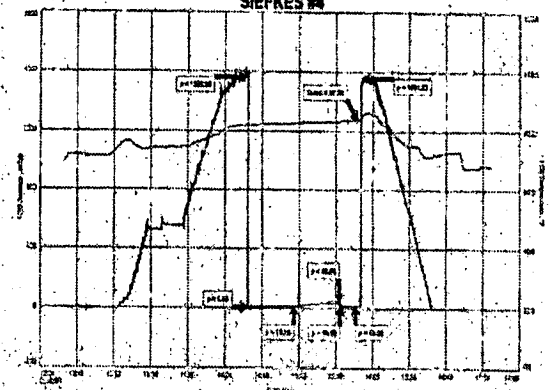
**Drill Stem Test Charts**

L. D. DRILLING, INC.  
 DST # 3 SIMPSON SH. 3540' (-1695)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83

Formation: DST # 3  
 DST # 3  
 Plot Test Date: 08/20/83

L. D. DRILLING, INC.  
 DST # 4 ARBUCKLE 3594' (-1749)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83

L. D. DRILLING, INC.  
 DST # 5 ARBUCKLE 3594' (-1749)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83



L. D. DRILLING, INC.  
 DST # 4 ARBUCKLE 3594' (-1749)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83

Formation: DST # 4  
 DST # 4  
 Plot Test Date: 08/20/83

L. D. DRILLING, INC.  
 DST # 5 ARBUCKLE 3594' (-1749)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83

L. D. DRILLING, INC.  
 DST # 5 ARBUCKLE 3594' (-1749)  
 Well Test Date: 07/20/83  
 Plot Test Date: 08/20/83



# Diamond Testing

## General information Report

### General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	SIEFKES #4	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 LKC 'D-F' 3,289' - 3,335'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 27-21S-12W STAFFORD COUNTY, KS	Report Date	2010/09/01
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL		
Formation	DST #1 LKC 'D-F' 3,289' - 3,335'		
Well Fluid Type	01 Oil	Start Test Time	12:40:00
		Final Test Time	17:17:00
Start Test Date	2010/09/01		
Final Test Date	2010/09/01		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

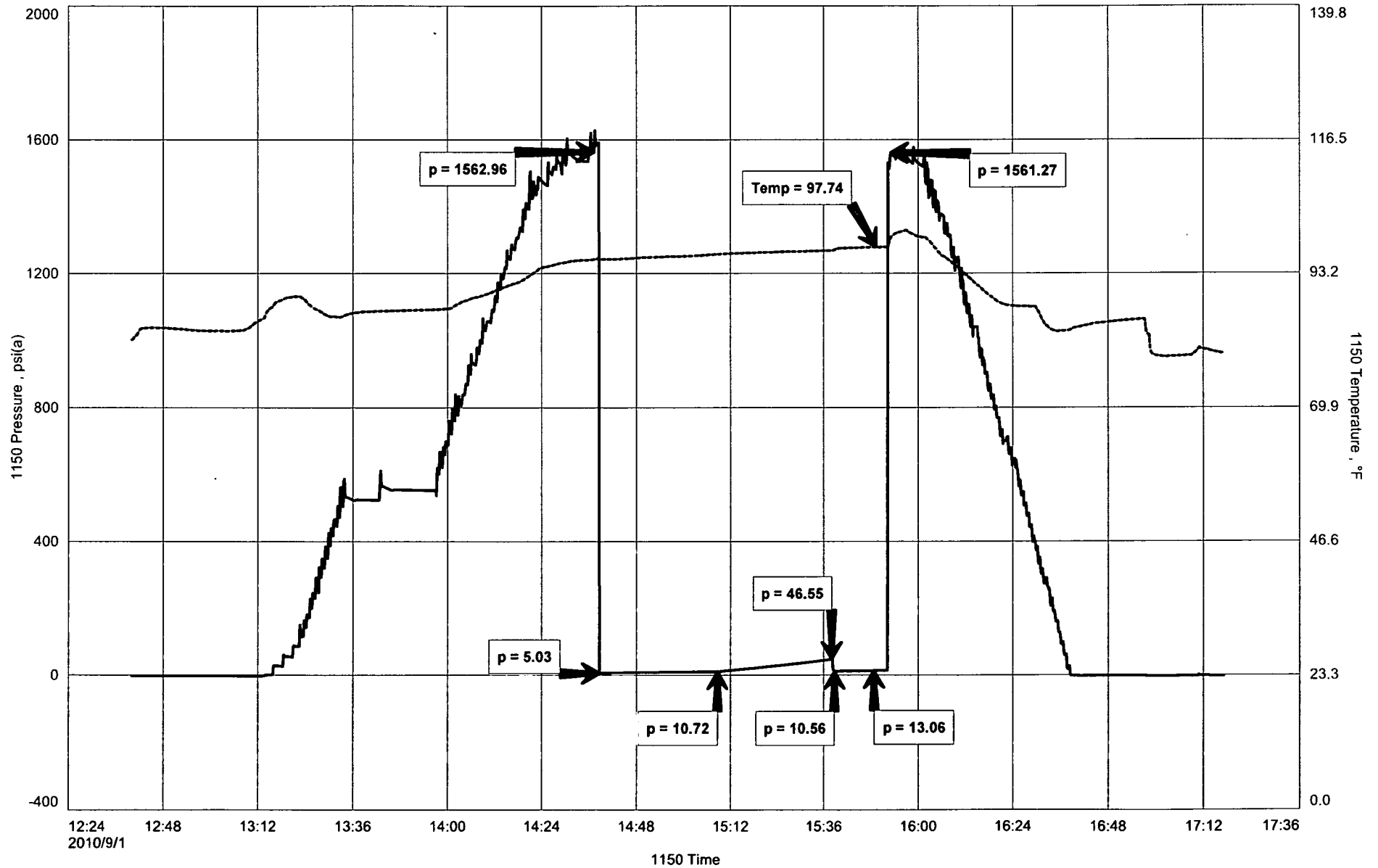
RECOVERED: 5' SLTOSDM 1% OIL, 99% MUD

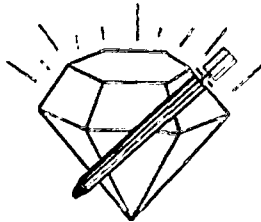
TOOL SAMPLE: 100% DM - FEW FREE OIOL SPOTS

L.D. DRILLING, INC.  
DST #1 LKC 'D-F' 3,289' - 3,335'  
Start Test Date: 2010/09/01  
Final Test Date: 2010/09/01

SIEFKES #4  
Formation: DST #1 LKC 'D-F' 3,289' - 3,335'

# SIEFKES #4





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

CLOCK ON: 12:40

CLOCK OFF: 17:17

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. SIEFKES #1  
Contractor PETROMARK #2 Charge to L.D. DRILLING, INC.  
Elevation 1,845 Formation LKC 'D-F' Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date 9.1.10 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS

Test Approved By JEFF CHRISTIAN Diamond Representative ROGER D. FRIEDLY

Formation Test No. 1 Interval Tested from 3,289 ft. to 3,335 ft. Total Depth 3,335 ft.  
Packer Depth 3,284 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,289 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3,277 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3,332 ft. Recorder Number 3815 Cap. 5,700 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 60 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,000 P.P.M. Drill Pipe Length 3,142 ft. I.D. 3 1/2 in.  
Jars: Make BOWEN 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 46 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31" DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW INCREASING TO 1/4" (NObb)  
2nd Open: WEAK SURFACE BLOW (NObb)

Recovered 5 ft. of SLTOSDM 1% OIL, 99% MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% DM FEW FREE OIL SPOTS	Total

Time Set Packer(s) 2:39 P.M. A.M. P.M. Time Started Off Bottom 3:49 P.M. A.M. P.M. Maximum Temperature 98  
Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1,563 P.S.I.  
Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 5 P.S.I. to (C) 11 P.S.I.  
Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 47 P.S.I.  
Final Flow Period \_\_\_\_\_ Minutes 10 (E) 11 P.S.I. to (F) 13 P.S.I.  
Final Closed In Period \_\_\_\_\_ Minutes 0 (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure \_\_\_\_\_ (H) 1,561 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

Company Name L. D. DRILLING, INC.

Contact	L. D. DAVIS	Job Number	
Well Name	SIEFKES #4	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #4 LKC 'H-J' 3,378' - 3,440'	Well Operator	L. D. DRILLING, INC.
Surface Location	SEC 27-21S-12W STAFFORD COUNTY, KS	Report Date	2010/09/02
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL		
Formation	DST #2 LKC 'H-J' 3,378' - 3,440'		
Well Fluid Type	01 Oil	Start Test Time	05:00:00
		Final Test Time	10:10:00
Start Test Date	2010/09/02		
Final Test Date	2010/09/02		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

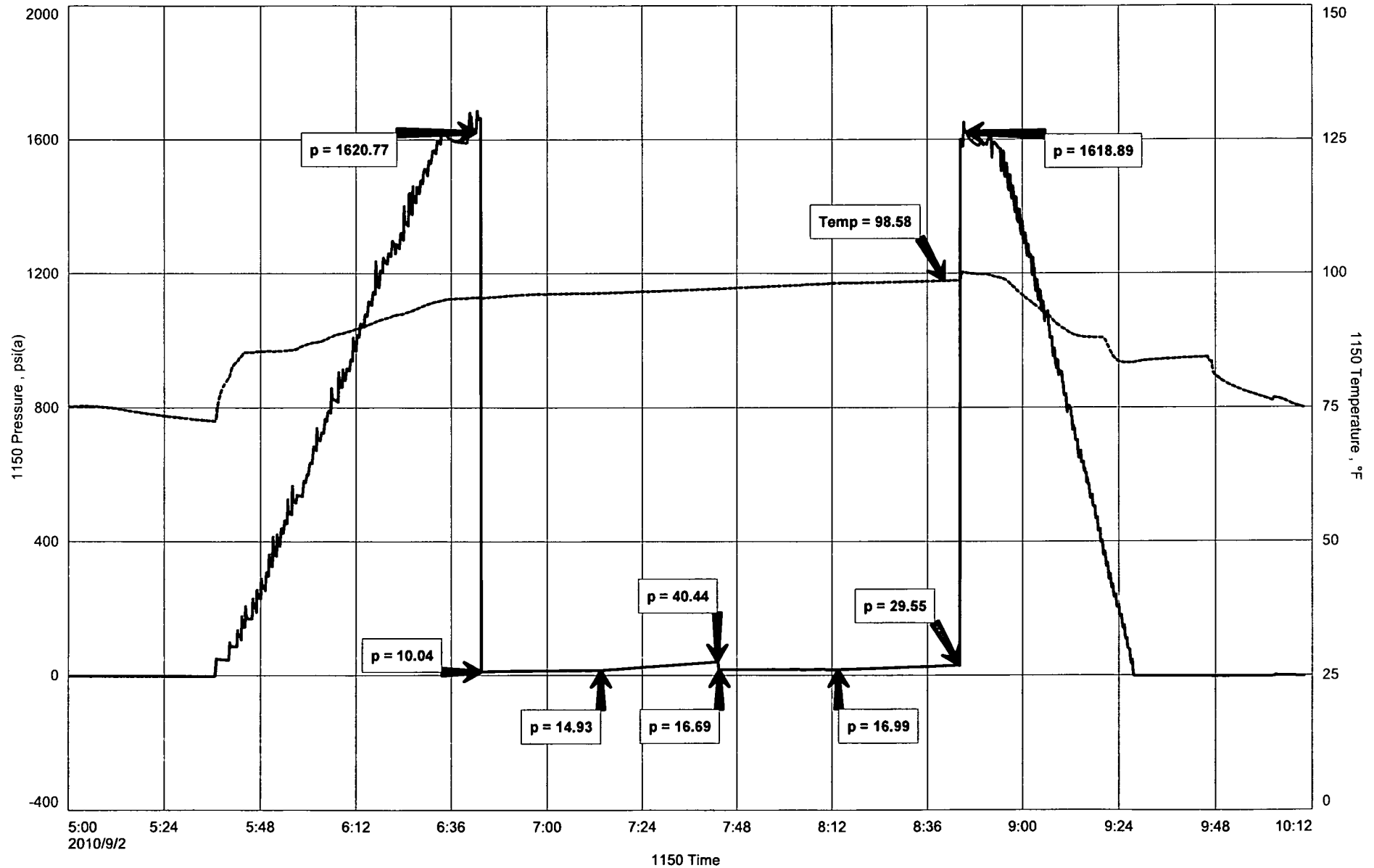
RECOVERED: 10' DM 100% MUD

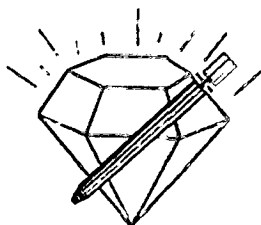
TOOL SAMPLE: 100% MUD - GOOD OIL SPECKS

L. D. DRILLING, INC.  
DST #4 LKC 'H-J' 3,378' - 3,440'  
Start Test Date: 2010/09/02  
Final Test Date: 2010/09/02

SIEFKES #4  
Formation: DST #2 LKC 'H-J' 3,378' - 3,440'

# SIEFKES #4





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

CLOCK ON: 05:00

CLOCK OFF: 10:10

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. SIEFKES #1  
Contractor PETROMARK #2 Charge to L.D. DRILLING, INC.  
Elevation 1,845 KB Formation LKC 'H-J' Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date 9.2.10 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS

Test Approved By JEFF CHRISTIAN Diamond Representative ROGER D. FRIEDLY

Formation Test No. 2 Interval Tested from 3,378 ft. to 3,440 ft. Total Depth 3,440 ft.  
Packer Depth 3,373 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,378 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3,366 ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3,437 ft. Recorder Number 3815 Cap. 5,700 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 60 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,000 P.P.M. Drill Pipe Length 3,231 ft. I.D. 3 1/2 in.  
Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-1F in.  
Did Well Flow? NO Reversed Out NO Anchor Length 62 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31" DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW INCREASING TO 1/4" - DECREASING IN 19 MIN - 1/8" @ END (NObb)  
2nd Open: WEAK SURFACE BLOW THRU-OUT (NObb)

Recovered 10 ft. of DM 100% MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

	Price Job
	Other Charges
	Insurance
	Total

TOOL SAMPLE: 100% DM GOOD OIL SPECKS

Time Set Packer(s) 6:42 A.M. A.M. Time Started Off Bottom 8:42 A.M. A.M. Maximum Temperature 99  
P.M. P.M.

Initial Hydrostatic Pressure ..... (A) 1,621 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) 40 P.S.I.  
Final Flow Period ..... Minutes 30 (E) 17 P.S.I. to (F) 17 P.S.I.  
Final Closed In Period ..... Minutes 30 (G) 30 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1,619 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

Company Name L. D. DRILLING, INC.

Contact	L. D. DAVIS	Job Number	
Well Name	SIEFKES #4	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #3 ARBUCKLE 3,538' - 3,608'	Well Operator	L. D. DRILLING, INC.
Surface Location	SEC 27-21S-12W STAFFORD COUNTY, KS	Report Date	2010/09/03
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL	Start Test Time	02:05:00
Formation	DST #3 ARBUCKLE 3,538' - 3,608'	Final Test Time	09:06:00
Well Fluid Type	01 Oil		
Start Test Date	2010/09/03		
Final Test Date	2010/09/03		
Gauge Name	1150		
Gauge Serial Number			

### Test Results

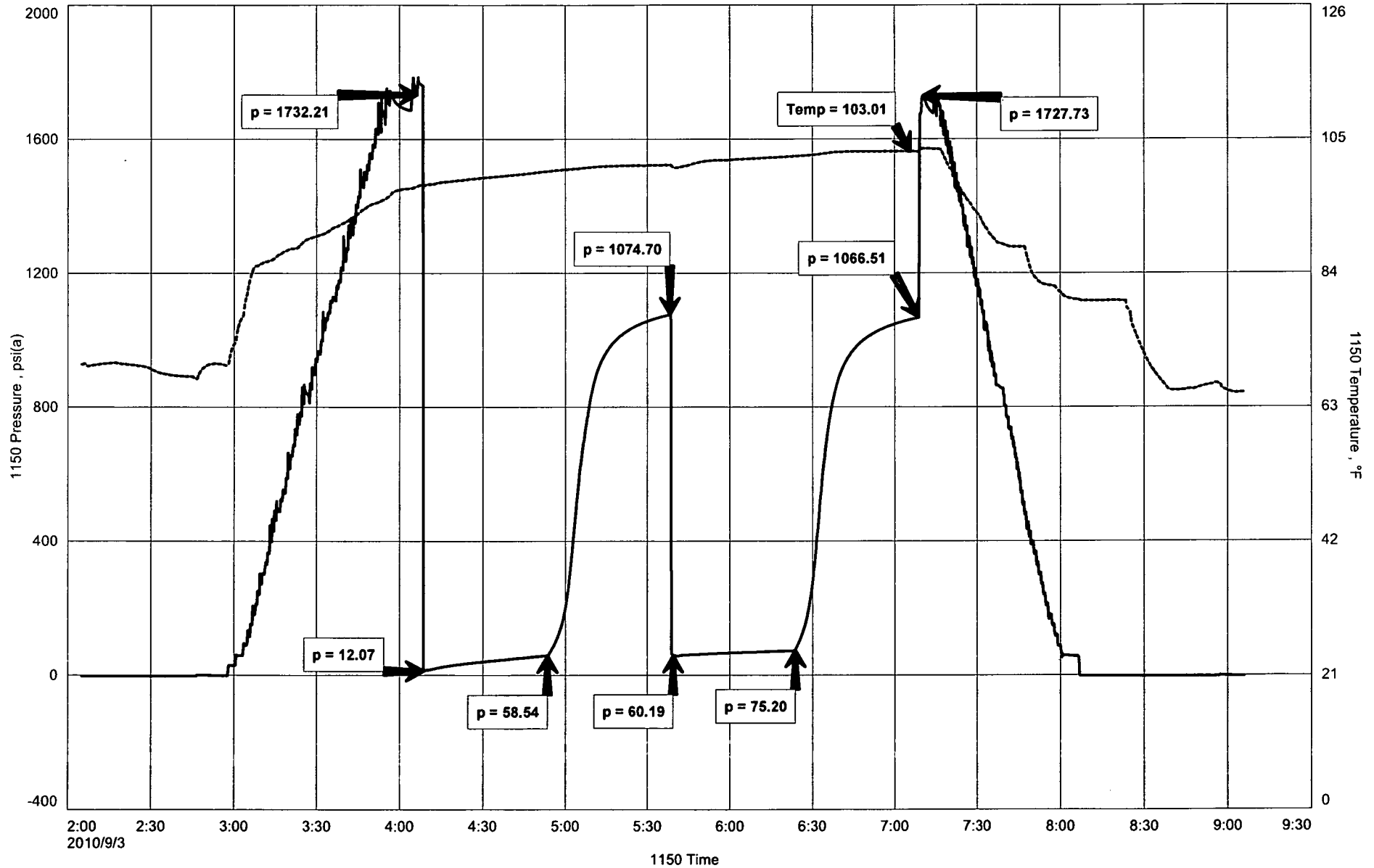
**RECOVERED:** 340' GAS IN PIPE  
94' HG&OCM 4% GAS, 36% OIL, 60% MUD  
61' HG&OCM 2% GAS, 26% OIL, 72% MUD  
155' TOTAL FLUID

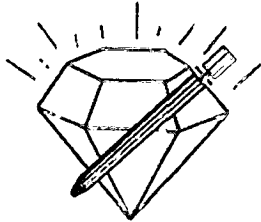
**TOOL SAMPLE:** 2% GAS, 44% OIL, 54% MUD

L. D. DRILLING, INC.  
DST #3 ARBUCKLE 3,538' - 3,608'  
Start Test Date: 2010/09/03  
Final Test Date: 2010/09/03

SIEFKES #4  
Formation: DST #3 ARBUCKLE 3,538' - 3,608'

# SIEFKES #4





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

CLOCK ON: 02:05  
 CLOCK OFF: 09:06

**DRILL-STEM TEST TICKET**

Company L.D. DRILLING, INC. Lease & Well No. SIEFKES #1  
 Contractor PETROMARK #2 Charge to L.D. DRILLING, INC.  
 Elevation 1,845 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
 Date 9.3.10 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS  
 Test Approved By JEFF CHRISTIAN Diamond Representative ROGER D. FRIEDLY

Formation Test No. 3 Interval Tested from 3,538 ft. to 3,608 ft. Total Depth 3,608 ft.  
 Packer Depth 3,533 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 3,538 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number 1150 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number 3815 Cap. 5,700 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 53 Drill Collar Length 121 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 6,000 P.P.M. Drill Pipe Length 3,391 ft. I.D. 3 1/2 in.  
 Jars: Make BOWEN Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-1F in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 70 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31" DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/8" BLOW INCREASING TO 11" (W1/4"bb)  
 2nd Open: WEAK 1/4" BLOW INCREASING TO BOTTOM OF BUCKET IN 21 1/2 MIN (F2"bb)

Recovered 340 ft. of GAS IN PIPE  
 Recovered 94 ft. of G&HOCM 4% GAS, 36% OIL, 60% MUD  
 Recovered 61 ft. of G&HOCM 2% GAS, 36% OIL, 72% MUD  
 Recovered 155 ft. of TOTAL FLUID

Remarks:	Price Job
	Other Charges
	Insurance
	Total

TOOL SAMPLE: 2% GAS, 44% OIL, 54% MUD

Time Set Packer(s) 4:08 A.M. A.M. Time Started Off Bottom 7:08 A.M. A.M. Maximum Temperature 103  
P.M. P.M.  
 Initial Hydrostatic Pressure ..... (A) 1,732 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 12 P.S.I. to (C) 59 P.S.I.  
 Initial Closed In Period ..... Minutes 45 (D) 1,075 P.S.I.  
 Final Flow Period ..... Minutes 45 (E) 60 P.S.I. to (F) 75 P.S.I.  
 Final Closed In Period ..... Minutes 45 (G) 1,067 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1,728 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

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 30046.D809

Company L. D. Drilling, Inc. Lease & Well No. Siefkes No. 4

Elevation 1845 KB Formation Arbuckle Effective Pay      -- ft. Ticket No. J2601

Date 9-3-10 Sec. 27 Twp. 21S Range 12W County Stafford State Kansas

Test Approved By Jeff Christian Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,608 ft. to 3,620 ft. Total Depth 3,620 ft.

Packer Depth 3,603 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.

Packer Depth 3,608 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,611 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,617 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. ID. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length      -- ft. ID.      -- in.

Weight 9.2 Water Loss 10.4 cc. Drill Pipe Length 3,468 ft. ID. 3 1/2 in.

Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 12 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 10 mins. Strong blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 10 mins. Strong blow back during shut-in.

Recovered 900 ft. of gas in pipe

Recovered 280 ft. of very slightly mud cut gassy oil = 2.960300 bbls. (Grind out: 3%-mud; 20%-gas; 77%-oil)

Recovered 10 ft. of muddy water = .049200 bbls. (Grind out: 20%-mud; 80%-water) Chlorides: 20,000 Ppm Gravity: 37 @ 60°

Recovered 290 ft. of TOTAL FLUID = 3.009500 bbls.

Recovered      ft. of     

Remarks     

Time Set Packer(s) 3:10 AM P.M. Time Started Off Bottom 6:10 AM P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure	(A)	<u>1790</u>	P.S.I.
Initial Flow Period	Minutes	<u>30</u>	(B) <u>36</u> P.S.I. to (C) <u>85</u> P.S.I.
Initial Closed In Period	Minutes	<u>45</u>	(D) <u>986</u> P.S.I.
Final Flow Period	Minutes	<u>45</u>	(E) <u>95</u> P.S.I. to (F) <u>130</u> P.S.I.
Final Closed In Period	Minutes	<u>60</u>	(G) <u>972</u> P.S.I.
Final Hydrostatic Pressure	(H)	<u>1718</u>	P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JEFF CHRISTIAN

Phone: Fax: e-mail:

### Well Information:

Name: SIEFKES #4

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface:

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JEFF CHISTIAN

Test Type: CONVENTIONAL

Job Number: D809

Test Unit:

Start Date: 2010/09/03

Start Time: 13:45:00

End Date: 2010/09/03

End Time: 19:40:00

Report Date: 2010/09/03

Prepared By: JOHN RIEDL

### Remarks:

Qualified By: JEFF CHRISTIAN

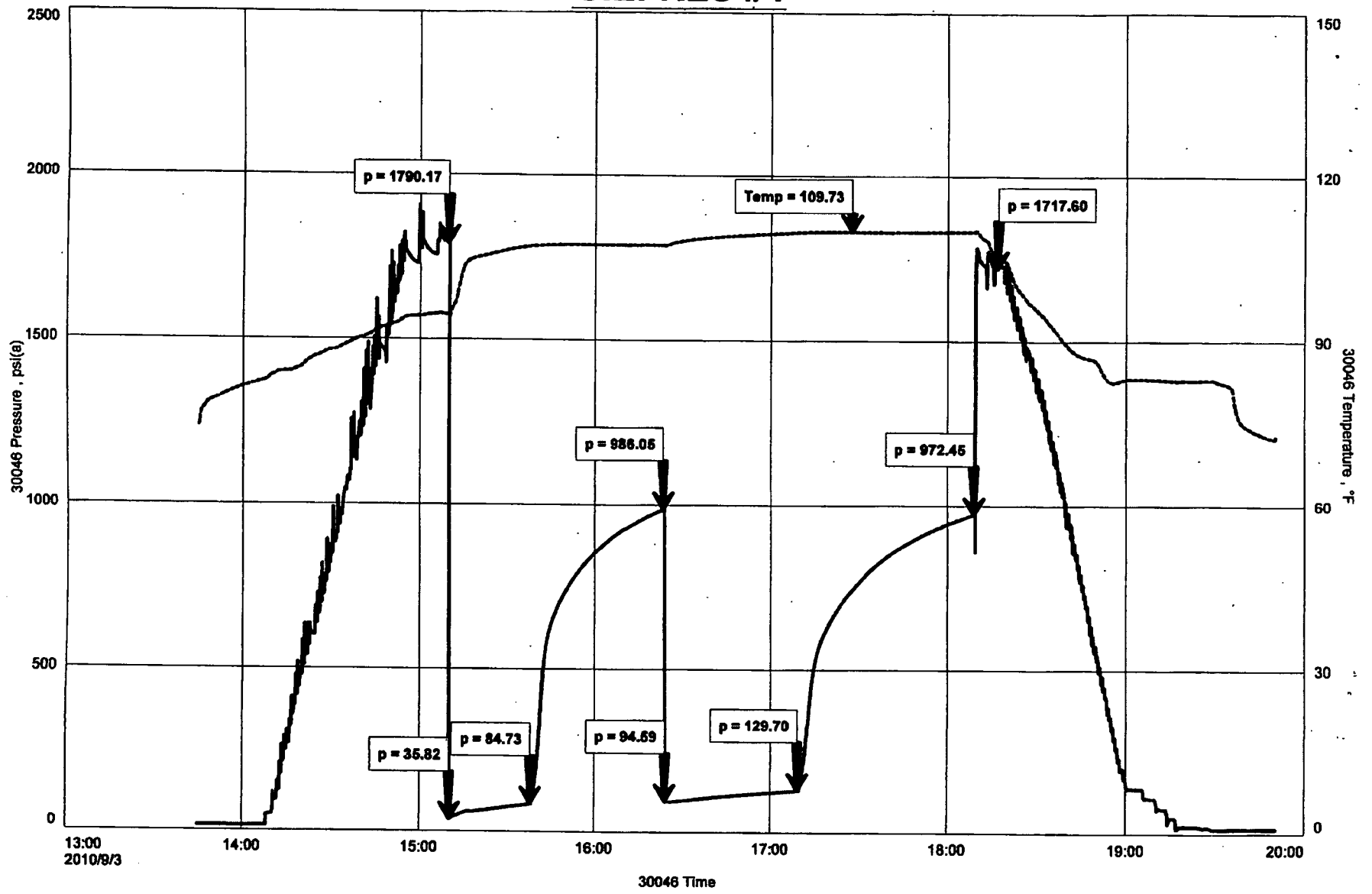
RECOVERY: 900 GIP, 280' SLIGHTLY MUD CUT GASSY OIL  
10' MUDDY WATER

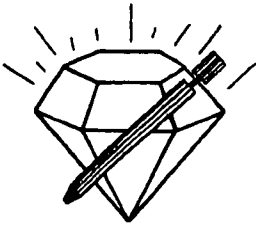


Start Test Date: 2010/09/03  
Final Test Date: 2010/09/03

# SIEFKES #4

SIEFKES #  
Formation: ARBUCKLE  
Job Number: D80!





# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 30046.D810

Company L. D. Drilling, Inc. Lease & Well No. Siefkes No. 4

Elevation 1845 KB Formation Arbuckle Effective Pay      -- Ft. Ticket No. J2602

Date 9-4-10 Sec. 27 Twp. 21S Range 12W County Stafford State Kansas

Test Approved By Jeff Christian Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,620 ft. to 3,630 ft. Total Depth 3,630 ft.

Packer Depth 3,615 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.

Packer Depth 3,620 ft. Size 6 3/4 in. Packer Depth      -- ft. Size      -- in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,623 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,627 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length      -- ft. I.D.      -- in.

Weight 9.2 Water Loss 10.4 cc. Drill Pipe Length 3,480 ft. I.D. 3 1/2 in.

Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 10 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 23 mins. Weak blow back during shut-in.  
2nd Open: Strong blow. Off bottom of bucket in 30 mins. Weak blow back during shut-in.

Recovered 270 ft. of gas in pipe

Recovered 20 ft. of gassy oil = .284600 bbls. (Grind out: 10%-gas; 90%-oil)

Recovered 200 ft. of water = 1.728800 bbls. (Chlorides: 22,000 Ppm)

Recovered 220 ft. of TOTAL FLUID = 2.013400 bbls.

Recovered      ft. of     

Remarks     

Time Set Packer(s) 2:20 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 5:20 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 113°

Initial Hydrostatic Pressure ..... (A) 1754 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 90 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 981 P.S.I.

Final Flow Period ..... Minutes 45 (E) 96 P.S.I. to (F) 124 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 982 P.S.I.

Final Hydrostatic Pressure ..... (H) 1721 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JEFF CHRISTIAN

Phone: Fax: e-mail:

### Well Information:

Name: SIEFKES #4

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: SEC 27/21S/12W STAFFORD CTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JEFF CHRISTIAN

Test Type: CONVENTIONAL

Job Number: D810

Test Unit:

Start Date: 2010/09/04

Start Time: 00:40:00

End Date: 2010/09/04

End Time: 07:10:00

Report Date: 2010/09/04

Prepared By: JOHN RIEDL

### Remarks:

Qualified By: JEFF CHRISTIAN

RECOVERY: 270' GAS IN PIPE, 20' FREE OIL  
200' WATER

Start Test Date: 2010/09/04  
Final Test Date: 2010/09/04

# SIEFKES #4

SIEFKES #4  
Formation: ARBUCKLE  
Job Number: D810

