



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 # \_\_\_\_\_

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: \_\_\_\_\_



1050050

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  Yes  No  
*(Attach Additional Sheets)*

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No  
*(If no, Submit Copy)*

List All E. Logs Run:

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum

CASING RECORD  New  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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<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"/> Commingled <i>(Submit ACO-4)</i> _____ _____

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

Name	Top	Datum
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**  
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 8-29-10 DISTRICT Pratt		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 STEFKES WELL NO. 4							
ADDRESS		COUNTY Stafford STATE KS							
CITY STATE		SERVICE CREW Orlando, Veatch, Wright							
AUTHORIZED BY		JOB TYPE: CNW - Sulfur							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27383	1/2						8-28-10	PM	10:30
27463	1/2					ARRIVED AT JOB	8-29-10	AM	12:00
17959-21010	1/2					START OPERATION		AM	2:30
						FINISH OPERATION		AM	3:00
						RELEASED		AM	3:30
						MILES FROM STATION TO WELL	45		

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. Jacobs  
(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	Collar Pipe	Lb	94		347.80
CC109	Calcium Chloride	Lb	1059		1111.95
CC200	Cement Gel	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	Fm	774		1370.80
CF200	Depth Charge U-SUD	ea	1		1000.00
CF240	Cement Service Charge	SK	375		525.00
CF504	Plug Container	ea	1		250.00
S003	Service Supervisor	ea	1		175.00

SUB TOTAL 7694.90

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <u>Steve Orland</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Lee B. Jacobs</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Injection 3 NT to 170' 1/2 w 5 into

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer L.D. Drilling	Lease No.	Date 8-27-10	
Lease SLEKOS	Well # 4		
Field Order # 2177	Station Pratt	Casing 2 7/8	Depth 312
Type Job CNW Surface		County Seward	State KS
Formation		Legal Description 27-21-12	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 2 7/8	Tubing Size	Shots/Ft 375		Acid	RATE	PRESS	ISIP	
Depth 312	Depth	From	To	Pre Pad 1-364-14	Max		5 Min.	
Volume 22	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 312	Packer Depth	From	To	Flush 21	Gas Volume		Total Load	

Customer Representative	Station Manager Dawn Smith	Treater Steve G. Smith
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Service Units	27033	27A63	19957	01010					
Driver Names	Oliver	Vatch	Wright						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00					Orientation - Safety Meeting
					Run 850 2 7/8 casing
					Casing connections
					Prepad Casing w/ 11
2:00	200		28	5	Max 375 shots per min @ 15"/ft
					Shot down below plug
	0		0	11	Start Day 2
2:30	250		6	11	Cased to surface
3:00	250		31	11	Plug down
					Job complete
					Thanks Steve



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

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

0010326151

FIELD SERVICE TICKET  
1718 02654 A

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

DATE OF JOB <b>9-4-10</b> DISTRICT <b>PRATT, Ks.</b>		NEW <input checked="" type="checkbox"/> WELL / OLD <input type="checkbox"/> WELL		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, PAYE</b>						
AUTHORIZED BY		JOB TYPE: <b>CALL - 5 1/2 L.S.</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<b>19870</b>	<b>1</b>						<b>9-4-10</b>			<b>4:30</b>
<b>27463</b>	<b>1</b>					ARRIVED AT JOB				<b>8:00</b>
<b>19959/21010</b>	<b>1</b>					START OPERATION				<b>11:20</b>
						FINISH OPERATION				<b>11:57</b>
						RELEASED				<b>12:30</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: **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		105.00
CF 251	GUIDE SHOE, 5 1/2"	EA	1		250.00
CF 451	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	MI	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	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	155		217.00
CE 504	PLUG CONTAINER UTILIZATION CHARGE	XCB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL **6,005.14**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: **Debra Lesley** 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. \_\_\_\_\_

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 1/2</b>
		Depth <b>3700'</b>
Type Job <b>CNW - 5 1/2 L.S.</b>	Formation	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 1/2</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>@ 1.18 COFT<sup>3</sup></b>	Max		5 Min.	
Volume <b>10 BBBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>1.1</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3684'</b>	Packer Depth	From	To	Flush <b>90 BBBL 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>
Service Units <b>19870 27463 19959 21010</b>		
Driver Names <b>LESLEY VEATCH PHYE</b>		

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





LITH	0	DRILL TIME (MIN/FT)	10	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
		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	
					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	
					Same	
					wy sct Sh: blk, carb	
					Ls: brn, micro xln, dns Sh: gry-red-some grn & brn	HEEBNER 3114' (-1269) E Log 3112' (-1267)
					Ls: crm-brn-lt gry, fn xln, part dns, part chlky, sli foss, pr vis por, ns	
					Sh: lt gry-grn	
					Sh: gry-lt gry-trc grn	
					Sh: as above, sli mica in part	
					Sh: gry-grn, calc in part	
					Sh: lt gry-grn	
					Sh: gry-grn, mica & silty in part	
					Same	
					Sh: gry-grn, mica & silty in part	
					Same	
					Sh: gry-grn, mica & silty in part	
					Same	
					Sh: gry-grn, mica & silty in part	BROWN LIME 3247' (-1402)

**LANSTING 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#

3300

DST # 1

DST # 1 3289' to 3335'  
30"-30"-10"-out  
IF: Blow Built to 1/4"  
FF: Weak Surface Blow  
RECOVERY: 5' VSOGM (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.

3350

3400

DST # 2

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#

3450

**BKC 3487' (-1642)**

E Log 3484' (-1639)

3500

**VIOLA 3510' (-1665)**

E Log 3508' (-1663)

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, chlky in part, sli foss, pr vis por, ns

Ls: as above w/ Sh: gry

Ls: crm-lt brn, fn xln, dns, sli chlky, 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 sprd 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, subchlky, part dns, few pcs subool, pr vis por, ns

Sh: gry

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

Sh: gry

Ls: crm-lt brn, fn xln, subchlky, 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, subchlky, 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

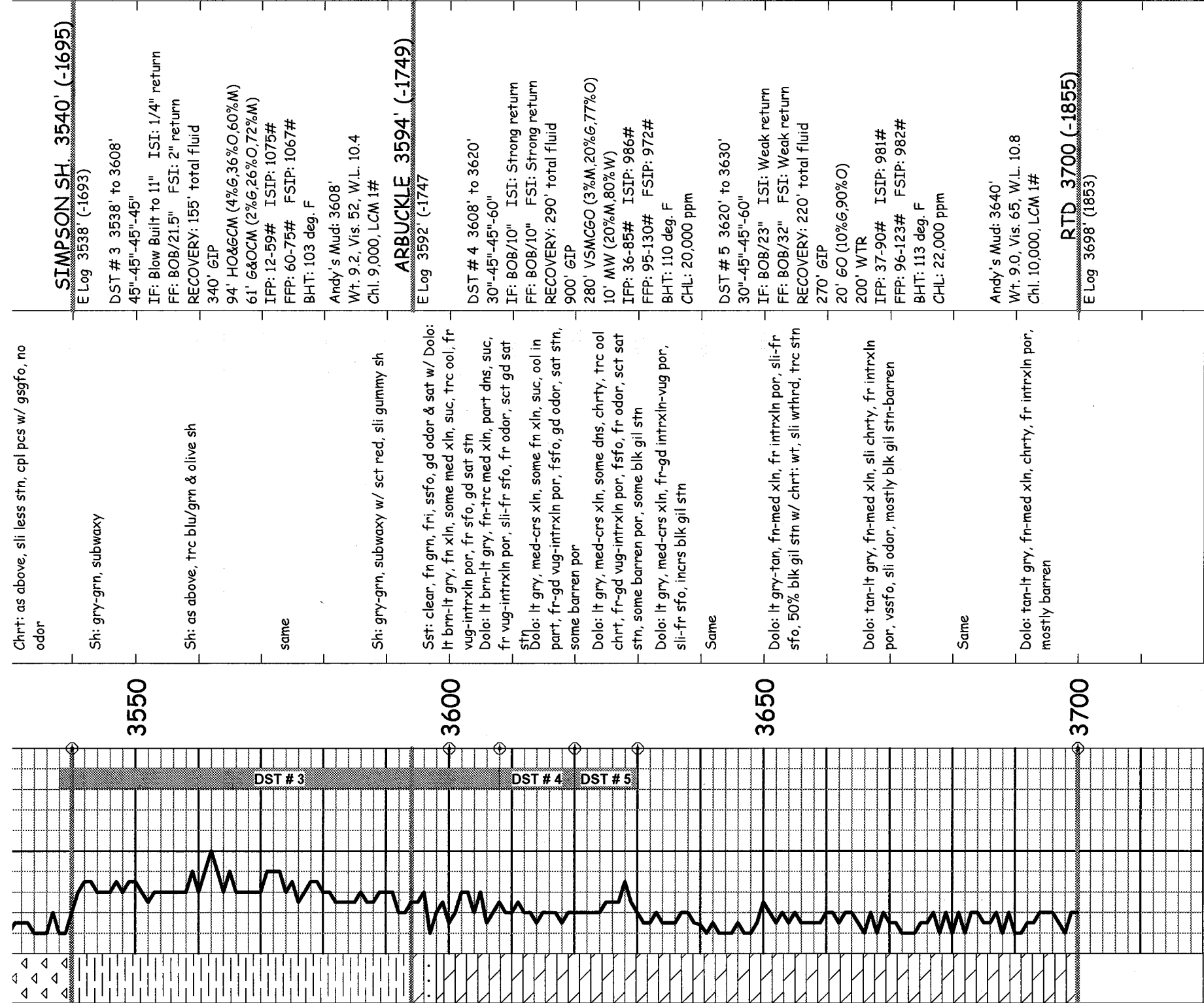
Sh: gry-grn-red

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

Sh: gry-grn-red

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

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



Chrt: 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 chrt, 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-tan, fr-med xln, fr intrxn por, sli-fr sfo, 50% blk gil stn w/ chrt: wt, sli wrhd, trc stn

Dolo: tan-lt gry, fr-med xln, sli chrty, fr intrxn por, vsfo, sli odor, mostly blk gil strn-barren

Same

Dolo: tan-lt gry, fr-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. 9.0, 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'

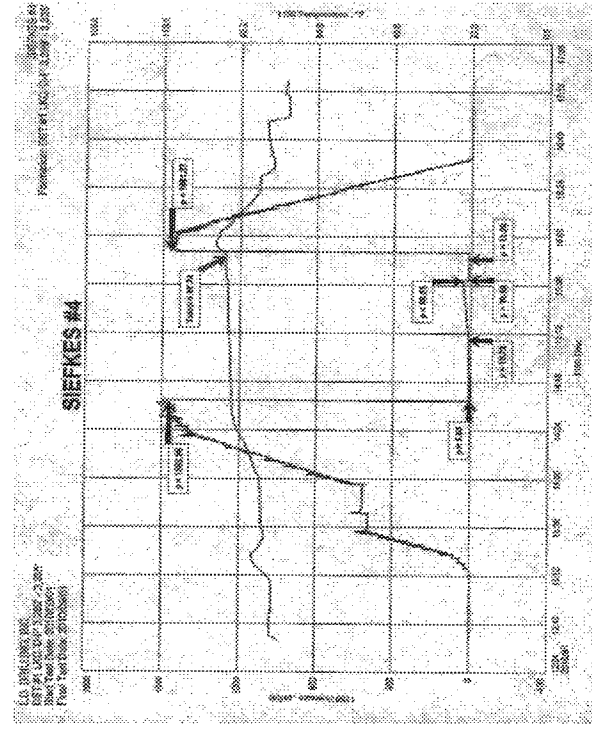
Wt. 9.0, Vis. 65, W.L. 10.8

Chl. 10,000, LCM 1#

**RTD 3700 (-1855)**

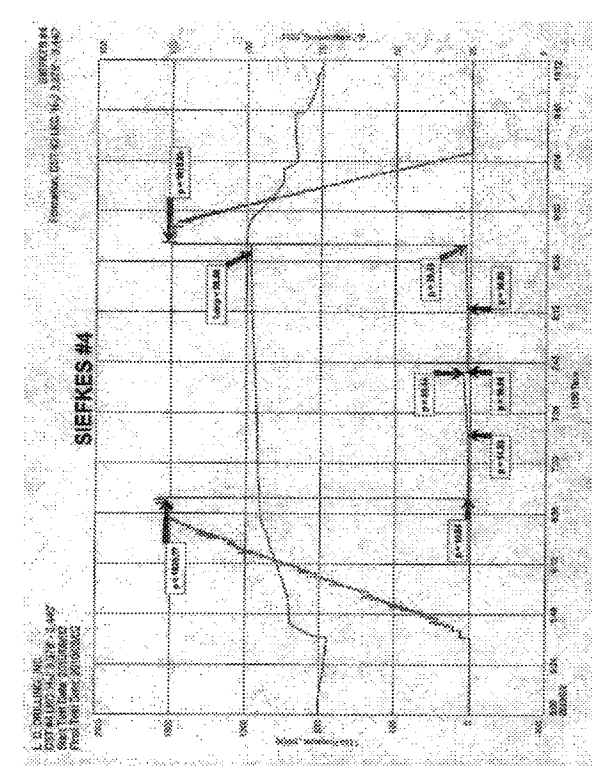
E Log 3698 (1853)

**Drill Stem Test Charts**



L.S. DRILLING, INC.  
 507 W. ARBUCKLE ST., YORK  
 PA 17404  
 Phone: (717) 765-1100  
 Fax: (717) 765-1101

SIEFKES #4  
 Formation: CCM, ARBUCKLE, SAT, S&B  
 DST # 4  
 Summary: 3594' to 3620'  
 Test Interval: 3608' to 3620'



L.S. DRILLING, INC.  
 507 W. ARBUCKLE ST., YORK  
 PA 17404  
 Phone: (717) 765-1100  
 Fax: (717) 765-1101

SIEFKES #4  
 Formation: CCM, ARBUCKLE, SAT, S&B  
 DST # 4  
 Summary: 3594' to 3620'  
 Test Interval: 3608' to 3620'



# Diamond Testing

## General information Report

### General Information

**Company Name** L.D. DRILLING, INC.

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

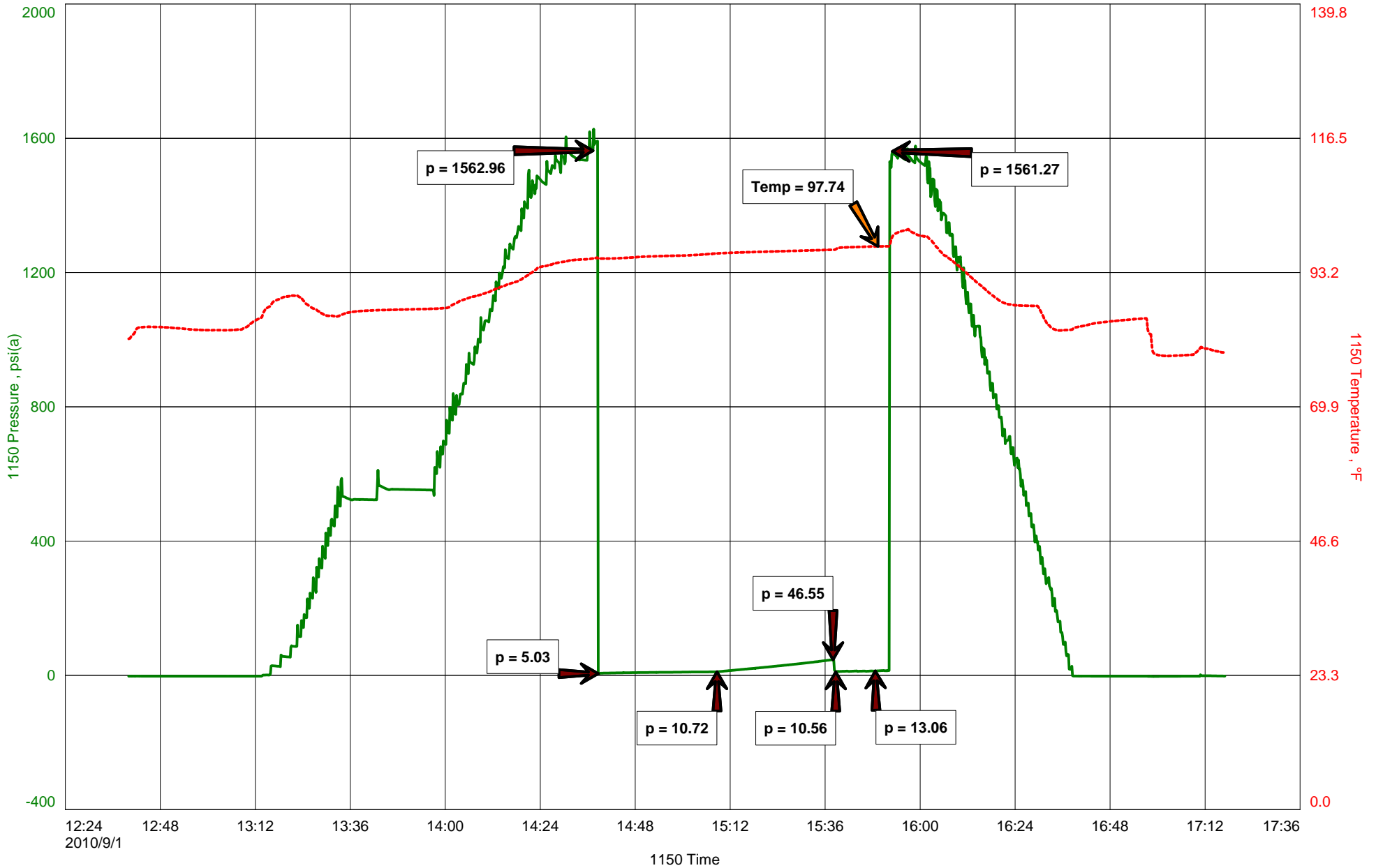
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #1 LKC 'D-F' 3,289' - 3,335'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	12:40:00
		<b>Final Test Time</b>	17:17:00
<b>Start Test Date</b>	2010/09/01		
<b>Final Test Date</b>	2010/09/01		
<b>Gauge Name</b>	1150		
<b>Gauge Serial Number</b>			

### Test Results

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

TOOL SAMPLE: 100% DM - FEW FREE OIOL SPOTS

# SIEFKES #4







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

**DRILL -STEM TEST TICKET**

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 ROGER D. FRIEDLY

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ 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 BOWEN 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 \_\_\_\_\_

Remarks: _____ _____	Price Job
	Other Charges
	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

**Company Name** L. D. DRILLING, INC.

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

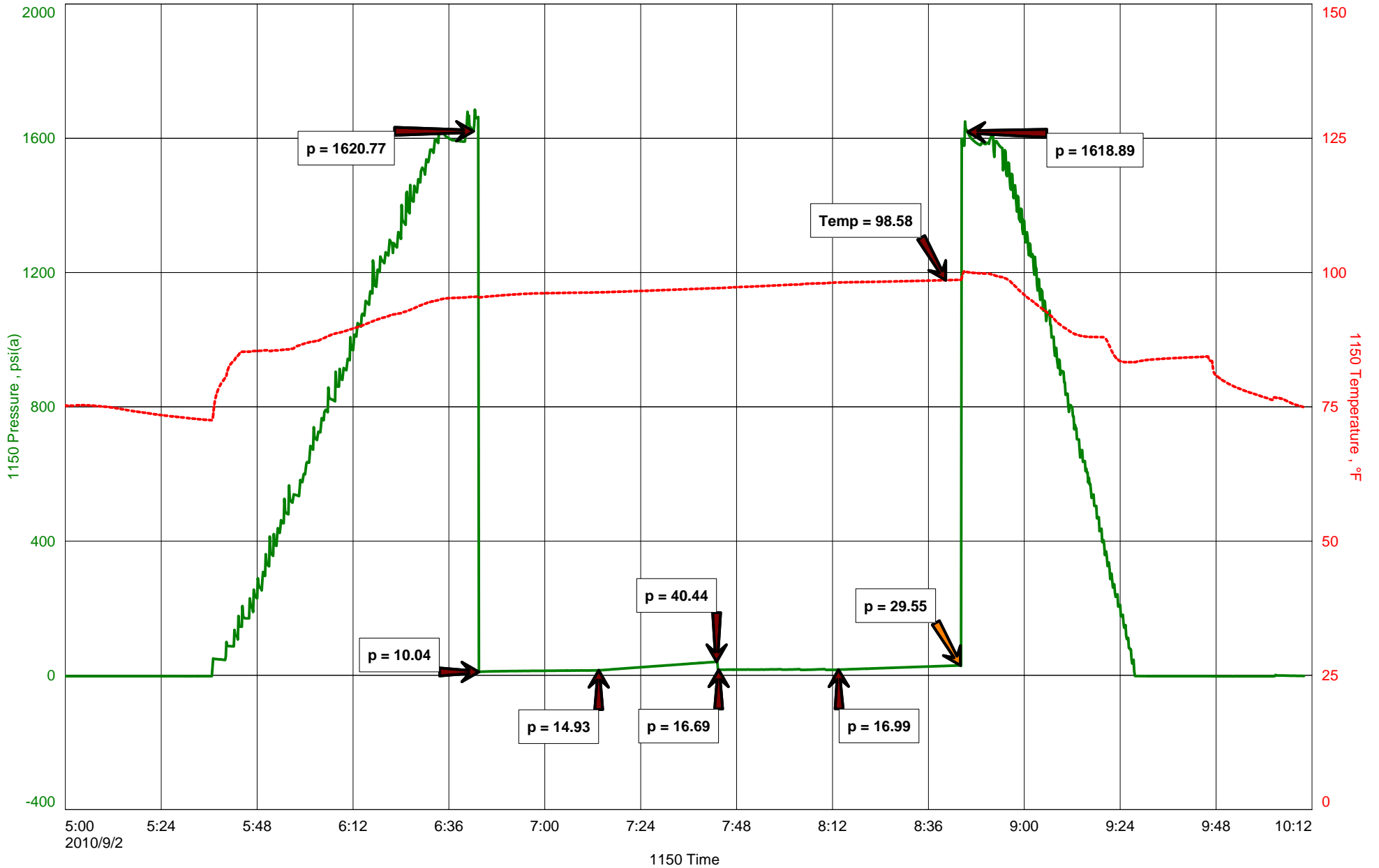
<b>Test Type</b>	CONVENTIONAL	<b>Start Test Time</b>	05:00:00
<b>Formation</b>	DST #2 LKC 'H-J' 3,378' - 3,440'	<b>Final Test Time</b>	10:10:00
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2010/09/02		
<b>Final Test Date</b>	2010/09/02		
<b>Gauge Name</b>	1150		
<b>Gauge Serial Number</b>			

### Test Results

RECOVERED: 10' DM 100% MUD

TOOL SAMPLE: 100% MUD - GOOD OIL SPECKS

# SIEFKES #4





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

**DRILL -STEM TEST TICKET**

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 ROGER D. FRIEDLY

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ 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 BOWEN 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 \_\_\_\_\_  
Remarks: \_\_\_\_\_

	Price Job
	Other Charges
	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

**Company Name** L. D. DRILLING, INC.

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

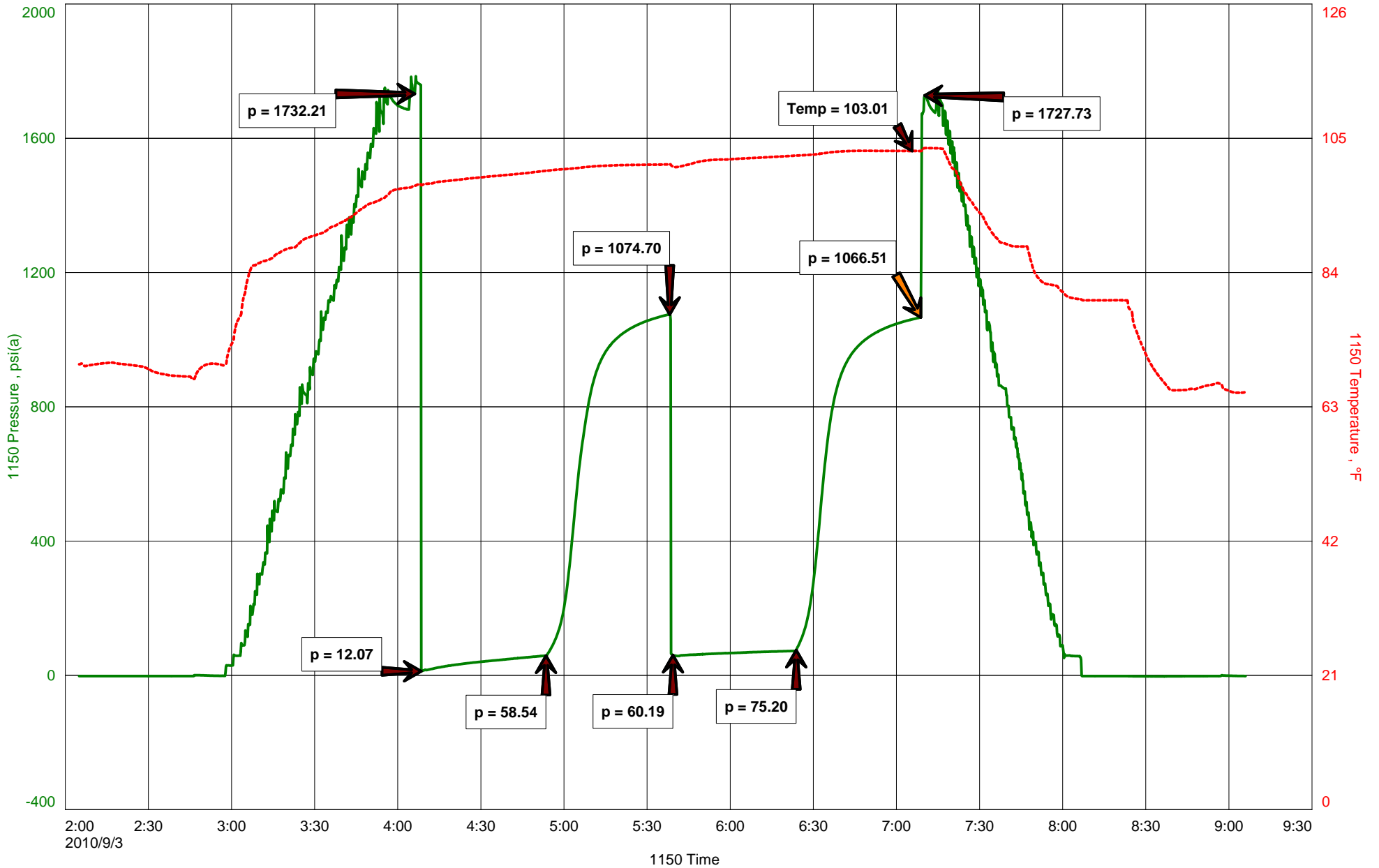
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #3 ARBUCKLE 3,538' - 3,608'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	02:05:00
		<b>Final Test Time</b>	09:06:00
<b>Start Test Date</b>	2010/09/03		
<b>Final Test Date</b>	2010/09/03		
<b>Gauge Name</b>	1150		
<b>Gauge Serial Number</b>			

### 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**

# SIEFKES #4





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

**DRILL -STEM TEST TICKET**

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 ROGER D. FRIEDLY

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ 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 BOWEN 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 \_\_\_\_\_

Remarks: _____ _____ _____	Price Job
	Other Charges
	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

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. 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 3,468 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 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) 1790 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 36 P.S.I. to (C) 85 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 986 P.S.I.

Final Flow Period ..... Minutes 45 (E) 95 P.S.I. to (F) 130 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 972 P.S.I.

Final Hydrostatic Pressure ..... (H) 1718 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:

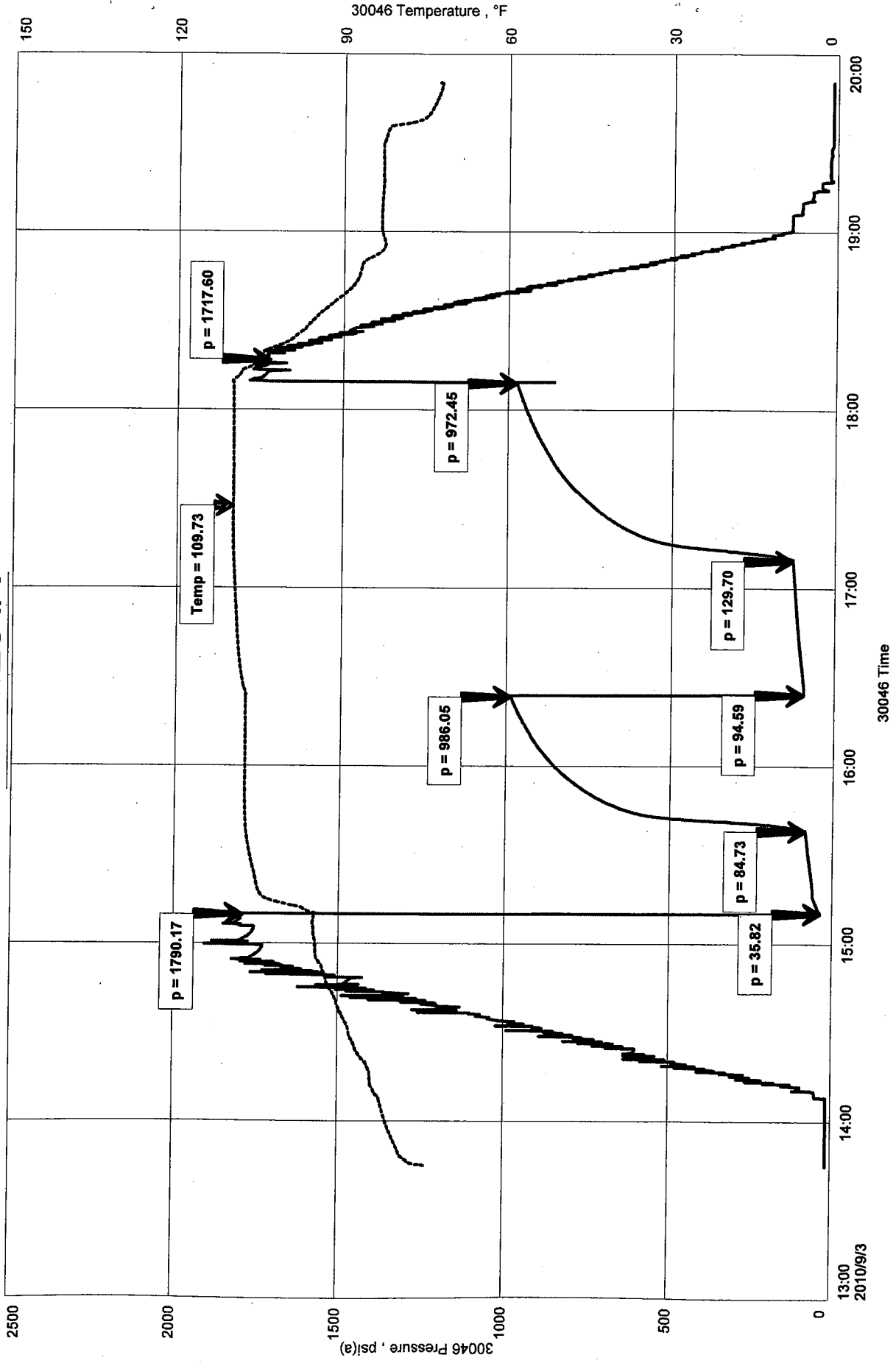
Qualified By: JEFF CHRISTIAN

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



# SIEFKES #4

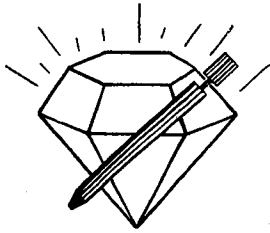
Start Test Date: 2010/09/03  
Final Test Date: 2010/09/03



2500  
2000  
1500  
1000  
500  
0

13:00  
2010/9/3

14:00  
15:00  
16:00  
17:00  
18:00  
19:00  
20:00



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 A.M. Time Started Off Bottom 5:20 A.M. 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:

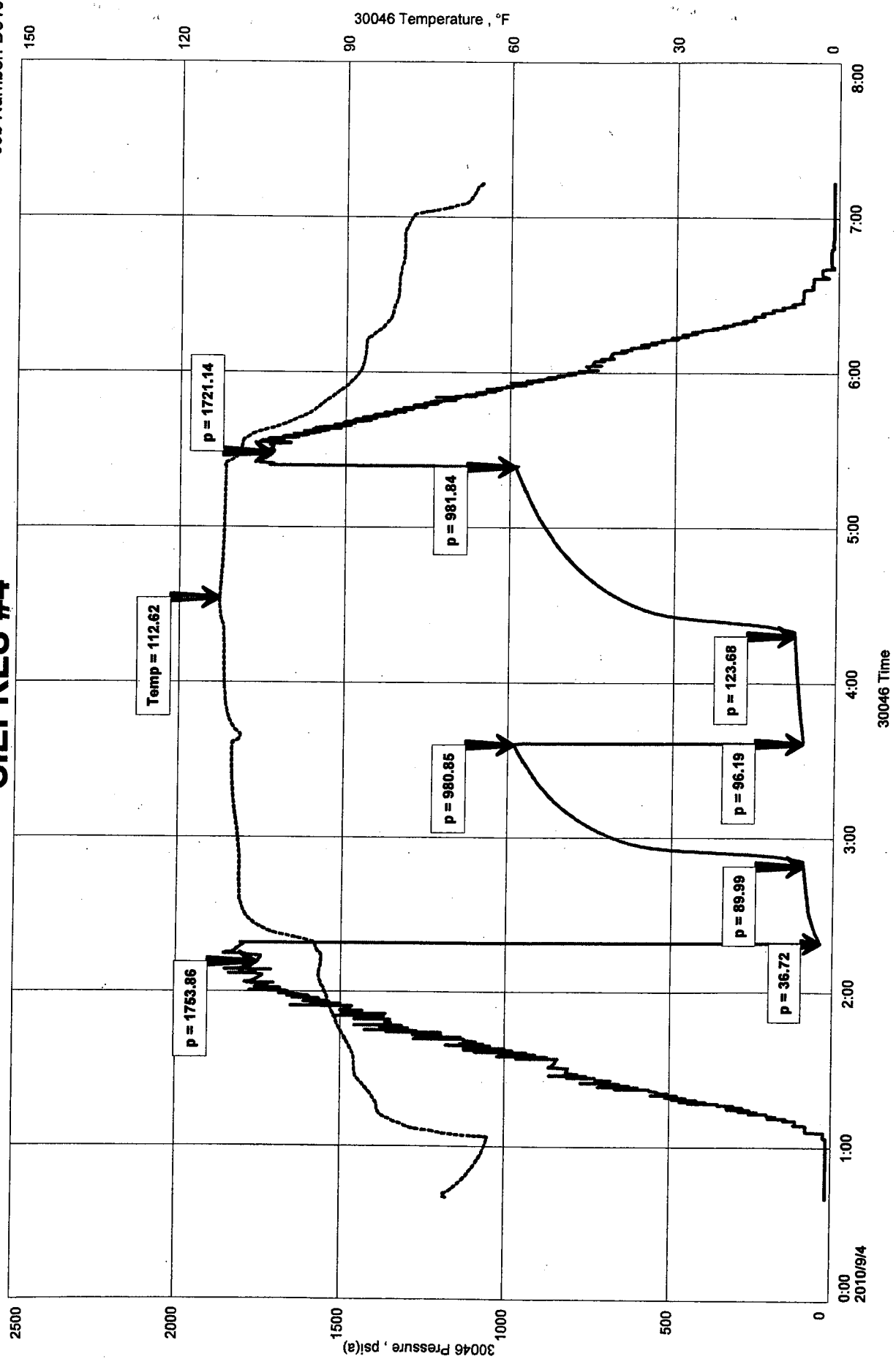
Qualified By: JEFF CHRISTIAN

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

SIEFKES #4  
Formation: ARBUCKLE  
Job Number: D810

# SIEFKES #4

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



30046 Temperature, °F

30046 Pressure, psi(a)

30046 Time