



KANSAS CORPORATION COMMISSION 1073361  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
12/10/2011    12/16/2011    12/27/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-185-23715-00-00  
Spot Description: \_\_\_\_\_  
S2 NW NW NE Sec. 27 Twp. 21 S. R. 12  East  West  
400 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Stafford  
Lease Name: SIEFKES Well #: 5-27  
Field Name: MAX NORTH  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1841 Kelly Bushing: 1845  
Total Depth: 3718 Plug Back Total Depth: 3690  
Amount of Surface Pipe Set and Cemented at: 411 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 cm.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 14000 ppm Fluid volume: 240 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: 02/06/2012



1073361

Operator Name: L. D. Drilling, Inc. Lease Name: SIEFKES Well #: 5-27  
 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:  DUAL COMPENSATED POROSITY LOG DUAL INDUCTION LOG MICRORESISTIVITY LOG	<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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3602 3612'; 3594 - 3598';	1500 gal 28% NE FE Acidq	
4	3586 - 3590'		

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3687</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>01/01/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>
Estimated Production Per 24 Hours	Oil Bbls. 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) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SIEFKES 5-27
Doc ID	1073361

Tops

Name	Top	Datum
TOPEKA	2821	-976
HEEBNER	3112	-1267
TORONTO	3129	-1284
DOUGLAS	3140	-1295
BROWN LIME	3244	-1399
LANSING	3258	-1413
BASE KANSAS CITY	3482	-1637
VIOLA	3504	-1659
SIMPSON SHALE	3536	-1691
ARBUCKLE	3582	-1737

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SIEFKES 5-27
Doc ID	1073361

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	23	411	COMMON	200	
SURFACE CONT	12.25	8.625	23	411	A-CONN	200	
PRODUC TION	7.875	5.5	14	3710	COMMON	150	
RATHOLE	7.875	5.5	14	3710	60/40 POZMIX	30	



**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 05494 A

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

DATE OF JOB	12-11-11	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	Siefkes			WELL NO. 527	
ADDRESS				COUNTY	Stafford			STATE KS	
CITY				STATE					
AUTHORIZED BY				SERVICE CREW	Orlando, Mitchell, Youngs				
				JOB TYPE:	CNS - 8 5/8 Surface				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
27283	40						12-10-11	AM	8:20
27463	71					ARRIVED AT JOB	12-10-11	AM	10:00
19831-19862	1/2					START OPERATION	12-11-11	AM	12:00
						FINISH OPERATION		PM	12:30
						RELEASED		AM	1:00
						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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	Alcon Blend	SK	200		3600.00
CP100	Common	SK	200		3200.00
CC102	Cellflake	Lb	100		320.00
CC109	Calcium Chloride	Lb	940		982.00
CE153	Wooden Cement Plugs	ea	1		160.00
E100	Pickup mileage	Mi	45		191.25
E101	Heavy Equipment Mileage	Mi	90		630.00
E113	Bulk Delivery	Tim	846		1353.60
CE200	Depth Charge D-500	ea	1		1000.00
CE240	Bleeding & Mixing Charge	SK	400		5600.00
CE504	Plug Container	ea	1		2500.00
S003	Service Supervisor	ea	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		DLS	9856.71
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE Steve Orlando THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: J. J. Mills  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer: <b>LD Drilling</b>	Lease No.	Date: <b>12-11-11</b>
Lease: <b>Siefkas</b>	Well #: <b>5-27</b>	
Field Order #: <b>5494</b>	Station: <b>Pratt</b>	Casing: <b>8 5/8</b>
		Depth: <b>401</b>
Type Job: <b>CNW-8 5/8 Surface</b>	Formation	County: <b>Stafford</b>
		State: <b>KS</b>
		Legal Description: <b>27-21-15</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid Blend	RATE	PRESS	ISIP	
2 7/8				Acid Blend				
Depth: <b>410</b>	Depth	From	To: <b>20056</b>	Pre Pad: <b>2-12 yield</b>	Max		5 Min.	
Volume: <b>26.1</b>	Volume	From	To: <b>Common</b>	Pad: <b>12 yield</b>	Min		10 Min.	
Max Press: <b>500</b>	Max Press	From	To: <b>20095</b>	Frac	Avg		15 Min.	
Well Connection: <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth: <b>410</b>	Packer Depth	From	To	Flush: <b>25.4</b>	Gas Volume		Total Load	

Customer Representative: <b>Jim</b>	Station Manager: <b>Dave Scott</b>	Treater: <b>Steve Okewo</b>
Service Units: <b>27283 27463 19831 19862</b>		
Driver Names: <b>Okewo M. Hill Youngs</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00					On location Safety meeting
					Run 10 Jts 8 5/8 casing
					Casing on Bottom
					Break Circ w/ris
12:00	300		75.5	45	Mix 20056s Acid Blend
12:15	250		43	45	Mix 20056s Common
					Shot Down - Clear Pump Pit
12:24	0		0	4	Start H2O Displacement
12:28	250		15	4	Connect to Surface
12:30	300		25.4	4	Plug Down
					circulation thru 50s
					circulated 10 bbl connect top it
					Job Complete
					Thanks Steve



**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 05509 A

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

DATE OF JOB <u>12-17-2011</u> DISTRICT <u>PRATT, Ks.</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:				
CUSTOMER <u>LD DRILLING, INC.</u>		LEASE <u>SIEFKES</u> WELL NO. <u>527</u>				
ADDRESS		COUNTY <u>STAFFORD</u> STATE <u>Ks.</u>				
CITY STATE		SERVICE CREW <u>LESLEY, LAWRENCE, MCGRAW</u>				
AUTHORIZED BY		JOB TYPE: <u>CNW - 5 1/2" L.S.</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED - <u>12-17-11</u> DATE AM <u>12:00</u> TIME
<u>37586</u>	<u>1.5</u>					ARRIVED AT JOB AM <u>12:30</u>
<u>33708-20920</u>	<u>1.5</u>					START OPERATION AM <u>9:30</u>
<u>19826-19860</u>	<u>1.5</u>					FINISH OPERATION AM <u>11:10</u>
						RELEASED AM <u>11:45</u>
						MILES FROM STATION TO WELL <u>45</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
PP 100	COMMON	SK	150		2,400.00
PP 103	60/40 PDZ	SK	30		360.00
CC 102	CELLFLAKE	lb	38		140.60
CC 112	CEMENT FRICTION REDUCER	lb	43		258.00
CC 113	CAL-SET	lb	705		528.75
CC 200	CEMENT GEL	lb	282		70.50
CE 103	TOP RUBBER PLUG, 5 1/2"	EA	1		105.00
CE 251	GUIDE SHOE - REGULAR, 5 1/2"	EA	1		250.00
CE 145	FLAPPER TYPE INSERT FLOAT VALVE, 5 1/2"	EA	1		215.00
CE 165	TURBOLIZER, 5 1/2"	EA	6		660.00
CC 151	MUD FLUSH	GAL	1000		860.00
E 100	PICKUP MILEAGE	MI	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	90		630.00
E 113	BULK DELIVERY CHARGE	TM	3.76		601.20
CE 204	DEPTH CHARGE, 3001'-4000'	HRS	1-4		2,160.00
CE 240	BLENDING SERVICE CHARGE	SK	180		252.00
CE 504	PLUG CONTAINER CHARGE	JOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 16 7,984.77

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: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

Customer: LD DRILLING	Lease No.:	Date:
Lease: SIEFKES	Well #: 5-27	12-17-2011
Field Order #: 05509	Station: PRATT, KS.	Casing: 5 1/2" x 14"
Type Job: CNW - 5 1/2" L.S.	Formation: TD - 3713'	County: STAFFORD State: KS.
		Legal Description: 27-21-12

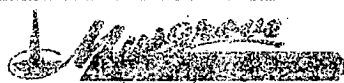
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: 5 1/2" x 14.250	Tubing Size: 3 1/2"	Shots/Ft: CNT-	Acid: 150SK Common	Pre.Pad: @ 1.43 CU FT	Rate:	Press:	ISIP:	
Depth: 3710'	Depth:	From:	To:	Pad:	Max:		5 Min.	
Volume: 10.52 BBL	Volume:	From:	To:	Frac:	Min:		10 Min.	
Max Press: 1500	Max Press:	From:	To:		Avg:		15 Min.	
Well Connection: 1 1/2"	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure:	
Plug Depth: 31047'	Packer Depth:	From:	To:	Flush: 90.2 BBL	Gas Volume:		Total Load:	

Customer Representative: LD DAVIS	Station Manager: D. SCOTT	Treater: K. LESLEY
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Service Units:	37586	33708	20920	19826	19860					
Driver Names:	LESLEY	LAWRENCE		MCGRAW						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:30 AM					ON LOCATION - SAFETY MEETING
1:15 AM					RUN JTS. 5 1/2" x 14" # CSG.
AS					TURBO - 1, 3, 5, 7, 9, 11
9:20 AM					CSG. ON BOTTOM.
9:30 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
10:30 AM	300		24	5	MUD FLUSH
10:35 AM	300		5	5	H2O SPALER
10:42 AM	200		38	5	MIX 150SK <del>CSG</del> COMMON @ 14.76 PPG
10:45 AM					CLEAR PUMP LINE / DROP T.R. PLUG
10:50 AM	0		0	4.5	START DISPLACEMENT
11:04 AM	500		65	4	LIFT PRESSURE
11:08 AM	600		80	3.5	SLOW RATE
11:10 AM	1100		90	3.0	PLUG DOWN - HELD
					CIRC. THRU JOB
			6		PLUG RATHOLE
JOB COMPLETE					
THANKS -					
KEVEN LESLEY					





James C. Wiegman  
Petroleum Geologist  
Office (920) 578-4350 • 212 Main St. • P.O. Box 215 • Clarita, AZ 87025 • Home (920) 587-3414

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Co  
LEASE Siefkes #5-27  
FIELD Max North  
LOCATION Nw-Nw-Ne (400' FNL & 2310 FEL)  
SEC. 27 TWP. Z1 RGE. 12  
COUNTY Stafford STATE Kansas  
CONTRACTOR Petromark Drilling (Cry#2)  
SPUD 12-10-2011 COMP. 12-17-2011  
RTO 3718 LTD 3718  
MUD UP 2788 TYPE MUD Chemical Dispersed

ELEVATIONS  
KB 1845  
DF \_\_\_\_\_  
GL 1840  
Measurements Are All From KB  
CASING SURFACE 3/4" @ 491  
PRODUCT LOG \_\_\_\_\_  
ELECTRICAL SURVEYS  
BY Log-Tech  
CDL-CDL DIL MAN.

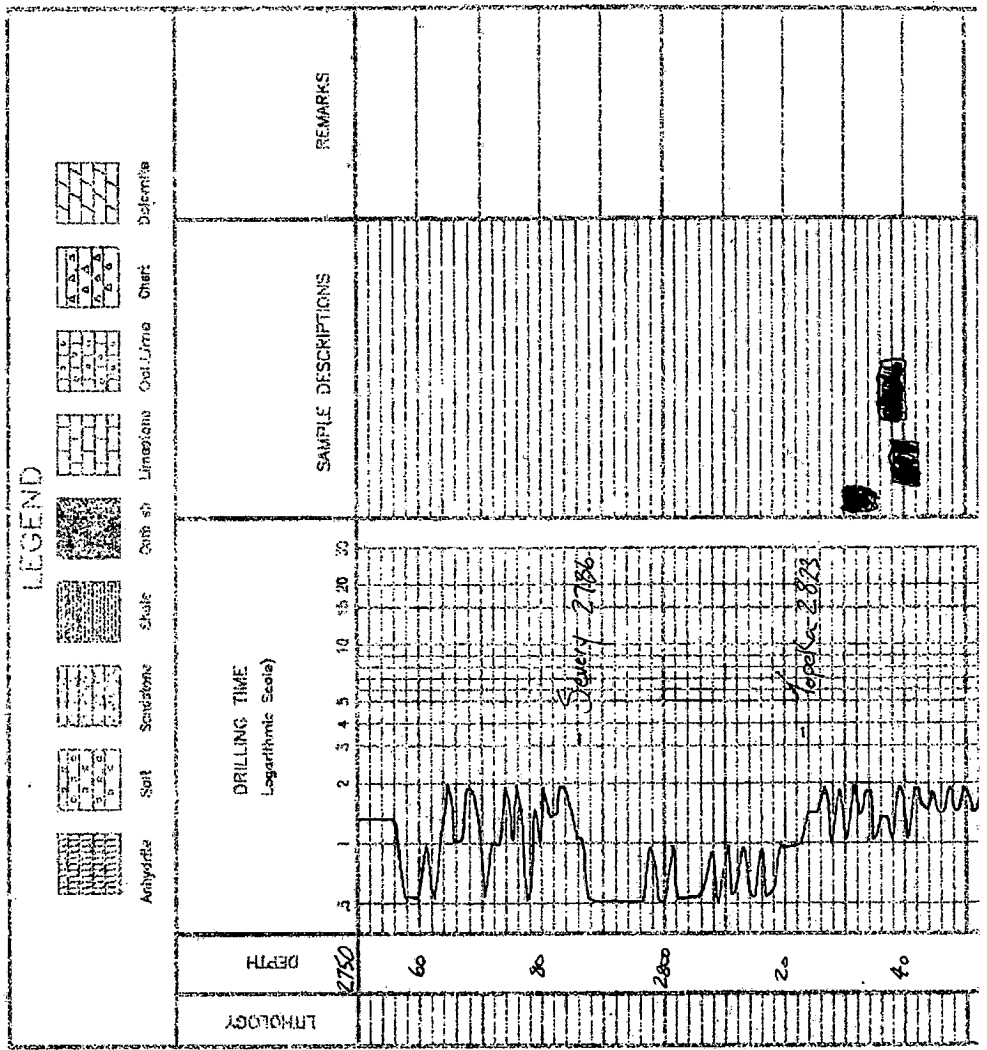
SAMPLED SAVED FROM 2900 TO 3718  
DRILLING TIME KEPT FROM 2750 TO 3718  
SAMPLES EXAMINED FROM 2900 TO 3718  
GEOLOGICAL SUPERVISION FROM 2920 TO 3718  
GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
Topoka	2821 - 976	
Heebner	3112 - 1267	
Toronto	3129 - 1284	
Dawley	3140 - 1293	
Brown Lime	3244 - 1399	
Crofting	3258 - 1413	
Base Kansas City	3482 - 1657	
Kala	3504 - 1659	
Simpson Shale	3536 - 1691	
Arbuckle	3582 - 1737	
RTP	3718 - 1873	
LTD	3718 - 1873	

27					
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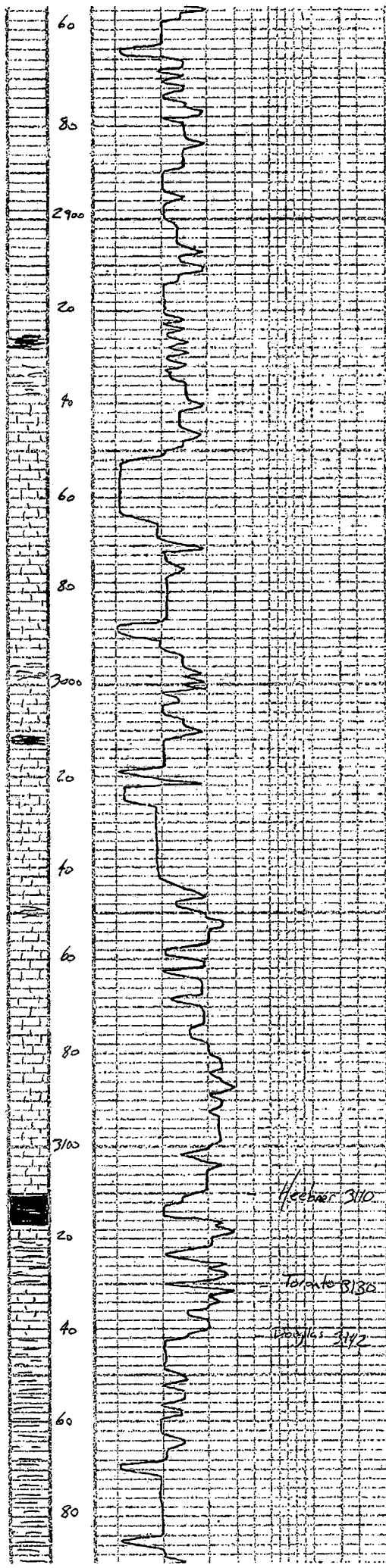
REMARKS  
5 1/2" production casing was set and cemented.

Report fully submitted,  
by Josh Austin,  
Petromark geologist.



7908

LOG 7702



1/2 s. cream grey fine sil. sh. clay  
 chky in part gran  
 sl. few poor sil's n/s

blk carb shale

1/2 s. cream wh. sil. chky. (dls)  
 + grey bossy A

1/2 s. grey cream fine chky  
 soft fossiliferous type  
 n/s grey bossy A

1/2 s. grey cream fine/oolite  
 chky fine good fossiliferous  
 (barren)

blk carb sh

1/2 s. cream buff grey fossiliferous  
 gran in part sl. fossiliferous  
 sl. detritus in part n/s

1/2 s. cream buff sil. sec detritus  
 in part chky + dark grey A

1/2 s. cream grey sil. chky  
 fine poorly dev. + wh. chky  
 + grey bossy A n/s

1/2 s. cream tan sil. dense  
 chky in part n/s  
 Poor

blk carb shale

grey-green mic shale

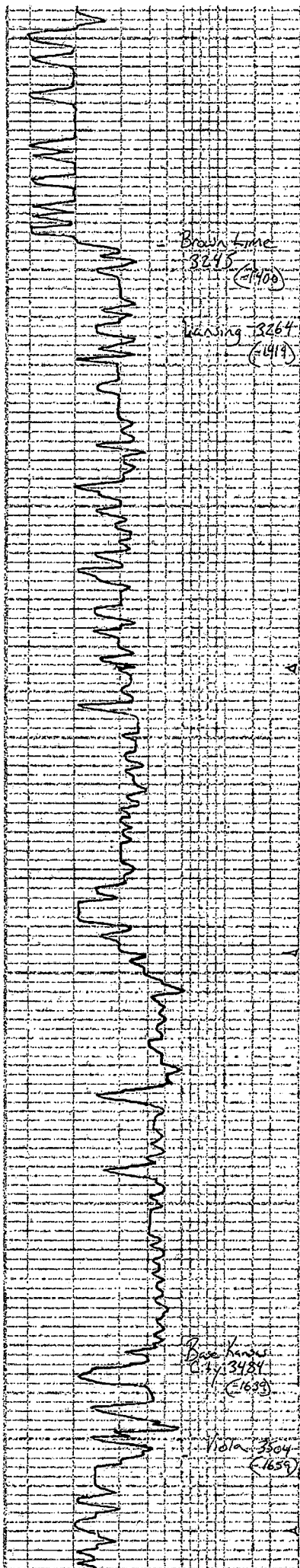
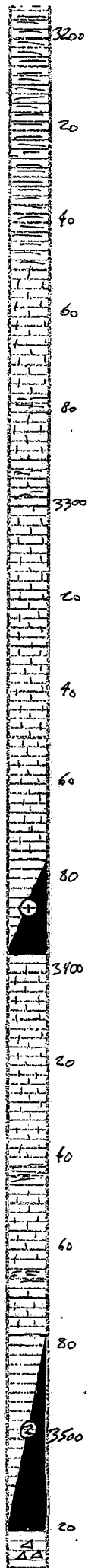
1/2 s. wh. sim. sil. chky. dense

grey-green mic sh

grey-green green  
 soft silty mic sh

shale as silty

Heebner 3110  
 Toronto 3130  
 Poole 3112



Brain time  
3245 (1400)

Waning 3264  
(1419)

Base time  
3484 (1639)

Volcanic  
3504 (1659)

Silty grey mica shale

shale or soft silty

ls tan brn tan sl fine dark  
fay in part

grey-green shale

ls crm. fxc chky. fxc  
poor v. s. sh

ls. grey. crm. fxc chky. fxc  
sh

ls. crm. grey. fxc chky  
few ool. v. s. sh

ls. grey. crm. fxc. fxc. ool.  
chky in part. few s. sh

ls. crm. fxc chky. fxc. fxc. ool.  
f. ool. in part. v. s. sh. ool. sh.

ls. wh. crm. fxc chky  
poorly dev. few s. sh. ool. sh.  
f. sh. v. s. sh. ool. sh.

ls. grey. buff. fxc. fxc.  
sl. by poor v. s. sh

dark grey shale

ls. grey. crm. ool. crm. chky.  
f. ool. f. s. sh. v. s. sh. ool. sh.

ls. crm. buff. grey. fxc. fxc.  
poor v. s. sh. sl. by sh

ls. grey. buff. sh

ls. crm. chky. fxc. fxc. sh  
sl. by sh. v. s. sh.

blk. carb. shale

ls. crm. tan. fxc. ool. sh. fxc.  
f. ool. v. s. sh. ool. sh.

ls. tan. crm. buff. light. ool. gran.  
f. ool. f. s. sh. v. s. sh. ool. sh.

dark grey blk. shale

grey. grey. green shale

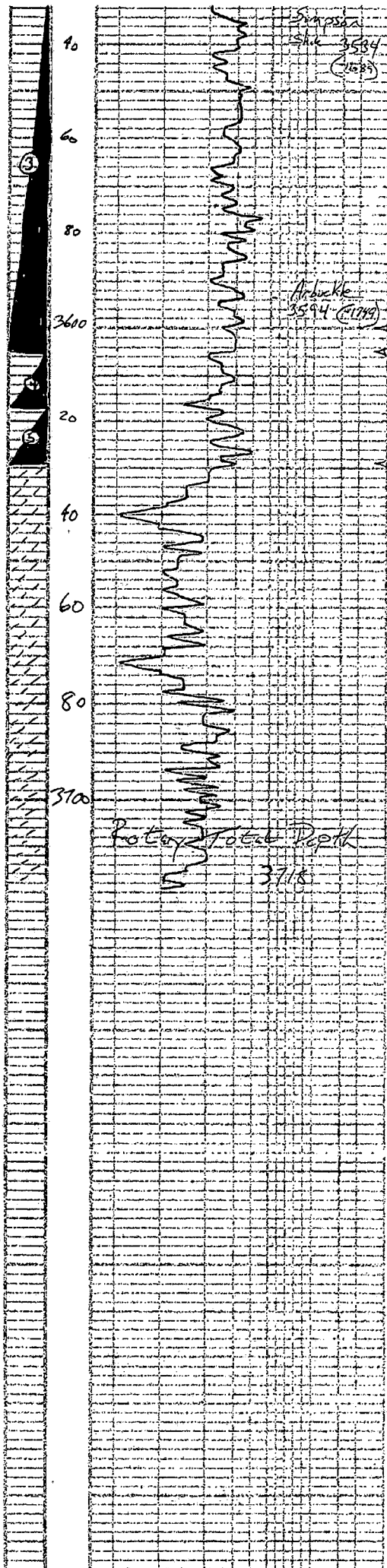
fine. silty. v. s. sh. fxc. ool. sh.  
sub rounded. f. ool. v. s. sh. ool. sh.

cherty. wh. crm. buff. semi. fxc.  
f. blk. sh. grey. sh.

ls. wh. crm. buff. few s. sh.

DST #1 3376-3396  
30-30-30-30  
Blow weak  
Recovery 1' sl. grey. sh.  
Pressure 1513  
FIP 10  
IFP 4-6  
FFP 20-20  
HSH 1575  
-1546

DST #2 3478-3520  
30-30-30-30  
Blow weak  
Recovery 2' and  
Pressure 1513 6  
FIP 6  
IFP 6-6  
FFP 6-6  
HSH 1689  
-1684



grey - olive green clay  
 fine sand - olive grey v.f. +  
 silty grey - green sand shale  
 SS  
 Sandy br. - grey fine sand dolomite  
 bluish - grey - fine sand  
 shale - grey - green + sand ss  
 Sand - fine dolomite - fine sand  
 - brash - s.p.o. - fine sand  
 Dolomite - cream buff - fine  
 sand - in part - bluish - green - ss  
 - fine sand  
 dolomite - cream buff - fine sand  
 - fine sand - bluish - green - ss  
 dolomite - grey - cream - buff - fine sand  
 - olive - green - v.f. - fine sand - s.p.o.  
 Dolomite - medium - coarse - ss  
 bluish - green - fine sand - s.p.o.  
 Dolomite - grey - cream - buff - fine sand  
 - fine sand - bluish - green - ss  
 dolomite - tan - grey - fine sand  
 - fine sand - bluish - green - ss  
 shale - tan - white - grey - sandy - d  
 dolomite - grey - white - fine sand - fine  
 sand - bluish - green - ss  
 + white - grey - d  
 SS

DST # 3 3528-3605  
 30-45-45-60  
 Blow BOB in 1 min  
 20' blow back  
 BOB in 5 min  
 5' blow back  
 Recovery 1575 GIP  
 70' CO  
 353 GPM CW  
 (8% gas 88% oil 7% water 10% mud)  
 100 muddy oil  
 Total Fluid 543  
 Pressure 1519 575  
 FSP 562  
 IEP 119-159  
 FFP 174-205  
 HSH 1686  
 -1675  
 DST # 4 3605-3617  
 30-45-45-60  
 Blow BOB in 30 sec  
 BOB blow back  
 Final BOB in 6 min  
 5' blow back  
 Recovery 1827 GIP  
 466 CO  
 30' MO  
 Pressure 1519 548  
 FSP 569  
 IEP 54-118  
 FFP 132-180  
 HSH 1638  
 -1635  
 DST # 5 3617-3629  
 30-30-30-30  
 Blow Strong BOB in 30 sec  
 Blow back 2"  
 Final BOB 9 min  
 Blow back 4"  
 Recovery 1025 GIP  
 225 CO  
 140 GPM CW  
 (6% gas 60% oil 21% water 9% mud)  
 10' G50C MW  
 (4% gas 81% oil 76% water 12% mud)  
 Pressure 1519 532  
 FSP 515  
 IEP 40-88  
 FFP 97-121  
 HSH 1700  
 -1664

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M251
Well Name	SIEFKES #5-27	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3376-3396 L/KC H	Well Operator	L.D. DRLG
Surface Location	SEC.27-21S-12W STAFFORD CO.KS.	Report Date	2011/12/14
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOSH AUSTIN
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3376-3396 L/KC H		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/12/13	Start Test Time	21:00:00
Final Test Date	2011/12/14	Final Test Time	02:35:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

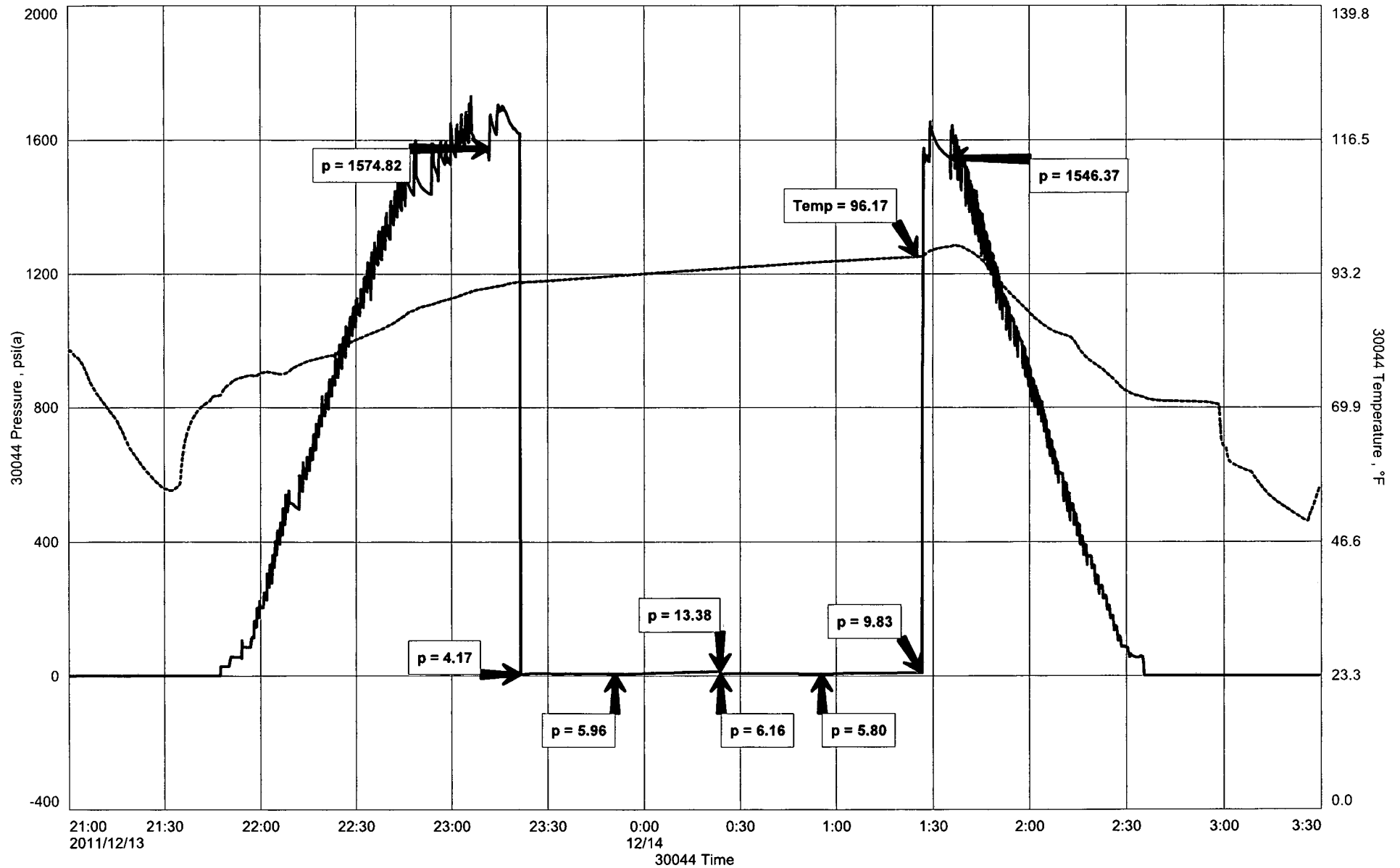
RECOVERED:  
1' DM 100% MUD  
1' TOTAL FLUID

TOOL SAMPLE: DM W/ A SLIGHT GASSY ODOR

L.D. DRLG  
DST#1 3376-3396 L/KC H  
Start Test Date: 2011/12/13  
Final Test Date: 2011/12/14

SIEFKES #5-27  
Formation: DST#1 3376-3396 L/KC H  
Pool: WILDCAT  
Job Number: M251

# SIEFKES #5-27





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SFKS5-27DST1

TIME ON: 2100 (12/13)  
TIME OFF: 0235 (12/14)

Company L.D. DRLG Lease & Well No. SIEFKES #5-27  
Contractor PETROMARK RIG 2 Charge to L.D. DRLG  
Elevation 1845 KB Formation \_\_\_\_\_ L/KC H Effective Pay \_\_\_\_\_ Ft. Ticket No. M251  
Date 12/13/2011 Sec. 27 Twp. \_\_\_\_\_ 21 S Range \_\_\_\_\_ 12 W County STAFFORD State KANSAS  
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3376 ft. to 3396 ft. Total Depth 3396 ft.  
Packer Depth 3371 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Packer Depth 3376 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3365 ft. Recorder Number 30044 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3393 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEM Viscosity 78 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 8.6 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,600 P.P.M. Drill Pipe Length 3351 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VWSB, INC. TO 1/2" IN 30 MIN (NO BB)  
2nd Open: MAINTAINED A VWSB (NO BB)

Recovered 1 ft. of DM 100% MUD  
Recovered 1 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>DM W/ A SLIGHT GASSY ODOR</u>	Total

Time Set Packer(s) 11:30 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 1:30 A.M. <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 96

Initial Hydrostatic Pressure..... (A) 1575 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 4 P.S.I. to (C) 6 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 13 P.S.I.  
Final Flow Period..... Minutes 30 (E) 6 P.S.I. to (F) 6 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 10 P.S.I.  
Final Hydrostatic Pressure..... (H) 1546 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.

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No Electronic Chart At This Time. There may be one after recorder repairs.



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M252
Well Name	SIEFKES #5-27	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3478-3520 CONGL./VIOLA	Well Operator	L.D. DRLG
Surface Location	SEC.27-21S-12W STAFFORD CO.KS.	Report Date	2011/12/14
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOSH AUSTIN
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 3478-3520 CONGL./VIOLA		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/12/14	Start Test Time	15:50:00
Final Test Date	2011/12/14	Final Test Time	21:25:00
		Well Fluid Type	01 Oil

### Test Results

#### Remarks

RECOVERED:  
2' DM  
2' TOTAL FLUID

TOOL SAMPLE: DRLG MUD, LIGHTGASSY ODOR



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SFKS5-27DST2

TIME ON: 1550  
TIME OFF: 2125

Company L.D. DRLG Lease & Well No. SIEFKES #5-27  
Contractor PETROMARK RIG 2 Charge to L.D. DRLG  
Elevation 1845 KB Formation CONGL/VIOLA Effective Pay \_\_\_\_\_ Ft. Ticket No. M252  
Date 12/14/2011 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS  
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3478 ft. to 3520 ft. Total Depth 3520 ft.  
Packer Depth 3473 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Packer Depth 3478 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3467 ft. Recorder Number 30044 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3517 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEM Viscosity 76 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5,000 P.P.M. Drill Pipe Length 3333 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, INC TO 1" IN 15MIN THEN MAINTAINED AN INTERMITTENT 1" BLOW (NOBB)  
2nd Open: VWSB, BUILT TO A 1/4" DIMINISHING BLOW THAT DIED @ 20 MIN. (NO BB)

Recovered 2 ft. of DM  
Recovered 2 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks: PRESSURES FROM MANUAL RECORDER  
TOOL SAMPLE: DM, LIGHT GASSY ODOR

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 5:30 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 7:30 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature ---  
Initial Hydrostatic Pressure..... (A) 1689 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 6 P.S.I. to (C) 6 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 6 P.S.I.  
Final Flow Period..... Minutes 30 (E) 6 P.S.I. to (F) 6 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 6 P.S.I.  
Final Hydrostatic Pressure..... (H) 1684 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

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M253
Well Name	SIEFKES #5-27	Representative	MIKE COCHRAN
Unique Well ID	DST#3 3528-3605 ARBUCKLE	Well Operator	L.D. DRLG
Surface Location	SEC.27-21S-12W STAFFORD CO.KS.	Report Date	2011/12/15
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOSH AUSTIN
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 3528-3605 ARBUCKLE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/12/15	Start Test Time	07:43:00
Final Test Date	2011/12/15	Final Test Time	14:53:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
1575' GIP  
70' CO  
353' GHMCWO 18% GAS, 19% CO, 46% EMULSIFIED OIL, 7% WTR, 10% MUD  
120' MO 90% OIL, 10% MUD  
543' TOTAL FLUID

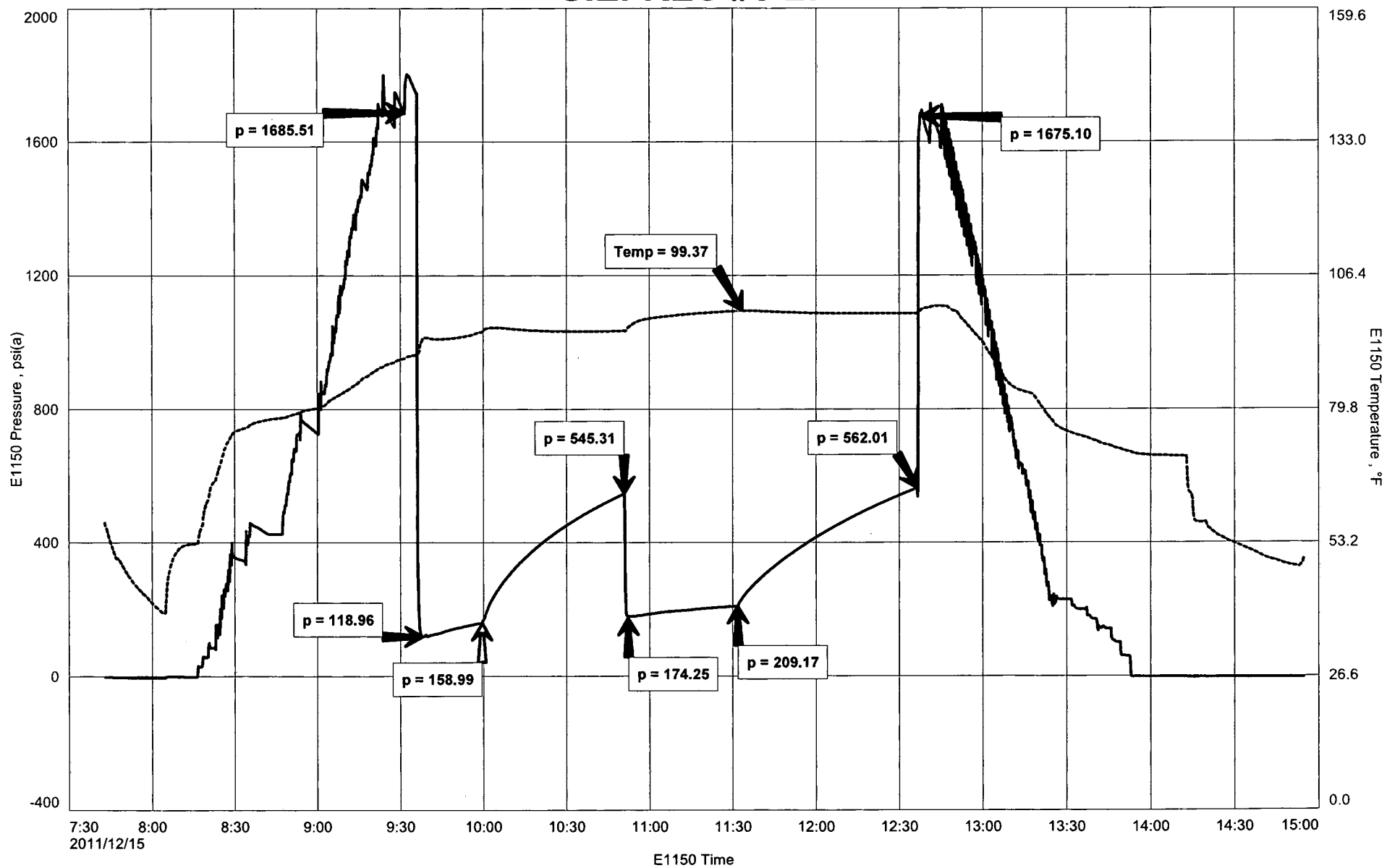
GRAVITY: 37.2 @ 60

TOOL SAMPLE: 100% OIL

L.D. DRLG  
DST#3 3528-3605 ARBUCKLE  
Start Test Date: 2011/12/15  
Final Test Date: 2011/12/15

SIEFKES #5-27  
Formation: DST#3 3528-3605 ARBUCKLE  
Pool: WILDCAT  
Job Number: M253

# SIEFKES #5-27





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SFKS5-27DST3

TIME ON: 0743  
TIME OFF: 1453

Company L.D. DRLG Lease & Well No. SIEFKES #5-27  
Contractor PETROMARK RIG 2 Charge to L.D. DRLG  
Elevation 1845 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. M253  
Date 12/15/2011 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS  
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 3528 ft. to 3605 ft. Total Depth 3605 ft.  
Packer Depth 3523 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Packer Depth 3528 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3517 ft. Recorder Number 30044 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3602 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 56 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5,000 P.P.M. Drill Pipe Length 3383 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 77 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (63'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GSB, BOB 1 MIN (5" BB)  
2nd Open: GSB, BOB 5 MIN (4" BB)

Recovered 1575 ft. of GIP  
Recovered 70 ft. of CO GRAVITY: 37.2 @ 60°  
Recovered 353 ft. of GHMCWO 18% GAS, 19% CO, 46% EMULSIFIED OIL, 7% WTR, 10% MUD  
Recovered 120 ft. of MO 90% OIL, 10% MUD  
Recovered 543 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Remarks: _____	Other Charges
TOOL SAMPLE: <u>100% OIL</u>	Insurance
	Total

Time Set Packer(s) 9:30 A.M. A.M. P.M. Time Started Off Bottom 12:30 P.M. A.M. P.M. Maximum Temperature 99

Initial Hydrostatic Pressure..... (A) 1686 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 119 P.S.I. to (C) 159 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 545 P.S.I.  
Final Flow Period..... Minutes 45 (E) 174 P.S.I. to (F) 209 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 567 P.S.I.  
Final Hydrostatic Pressure..... (H) 1675 P.S.I.

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# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M254
Well Name	SIEFKES #5-27	Representative	MIKE COCHRAN
Unique Well ID	DST#4 3605-3617 ARBUCKLE	Well Operator	L.D. DRLG
Surface Location	SEC.27-21S-12W STAFFORD CO.KS.	Report Date	2011/12/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOSH AUSTIN
	Test Unit		NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 3605-3617 ARBUCKLE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/12/15	Start Test Time	20:20:00
Final Test Date	2011/12/16	Final Test Time	04:00:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

##### RECOVERED:

1827' GIP  
468' CO 100% OIL (378'DP, 90'DC)  
30' MO 80% OIL, 20% MUD  
498' TOTAL FLUID

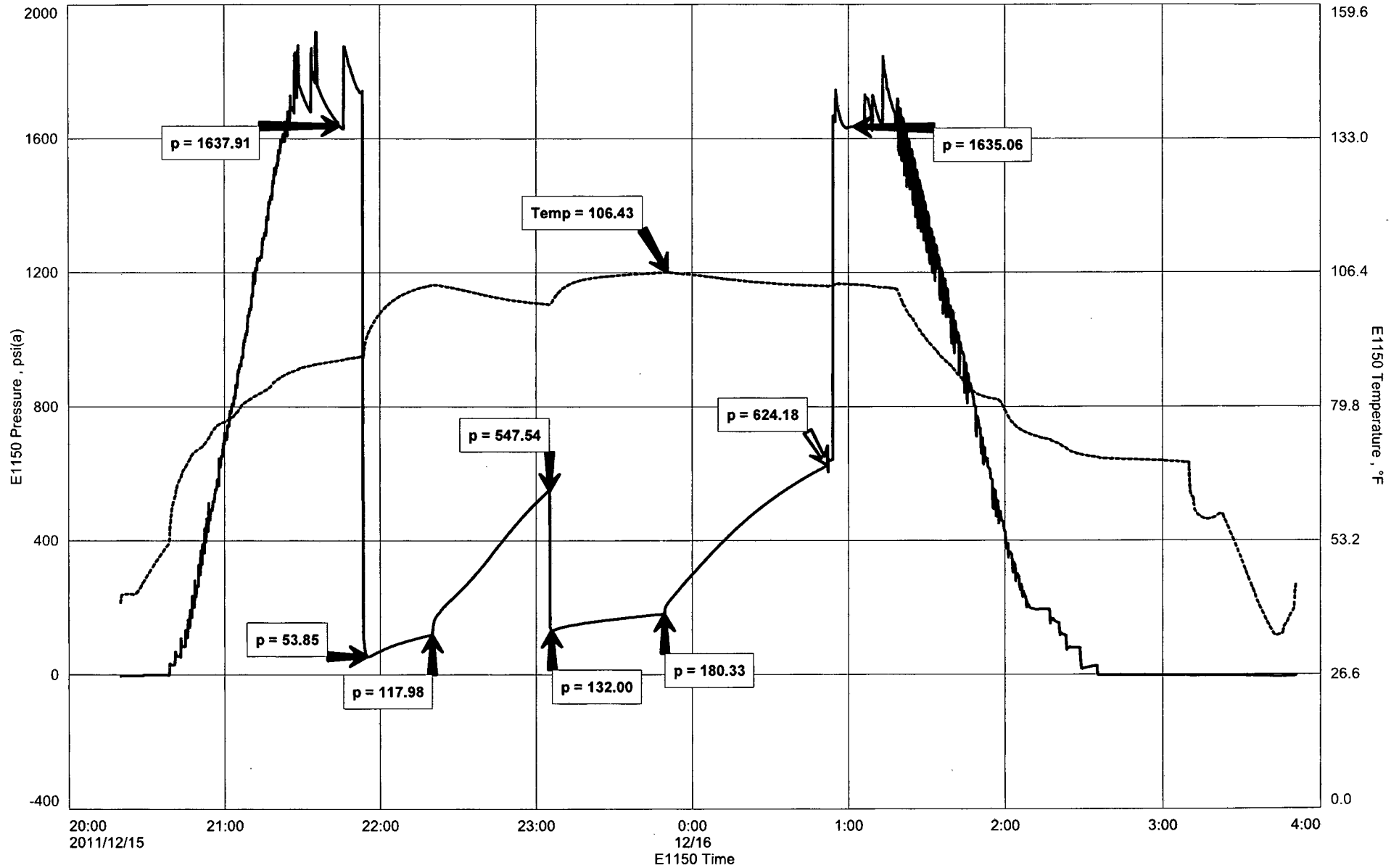
GRAVITY: 38.0 @ 60

TOOL SAMPLE: 90% OIL, 10% MUD

L.D. DRLG  
DST#4 3605-3617 ARBUCKLE  
Start Test Date: 2011/12/15  
Final Test Date: 2011/12/16

SIEFKES #5-27  
Formation: DST#4 3605-3617 ARBUCKLE  
Pool: WILDCAT  
Job Number: M253

# SIEFKES #5-27





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SFKS5-27DST4

TIME ON: 2020 (12/15)  
TIME OFF: 0400 (12/16)

Company L.D. DRLG Lease & Well No. SIEFKES #5-27  
Contractor PETROMARK RIG 2 Charge to L.D. DRLG  
Elevation 1845 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. M254  
Date 12/15/2011 Sec. 27 Twp. \_\_\_\_\_ 21 S Range \_\_\_\_\_ 12 W County STAFFORD State KANSAS  
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 3605 ft. to 3617 ft. Total Depth 3617 ft.  
Packer Depth 3600 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.  
Packer Depth 3605 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3594 ft. Recorder Number 30044 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3614 ft. Recorder Number 11029 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEM Viscosity 56 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5,000 P.P.M. Drill Pipe Length 3460 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 12 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GSB, BOB 30 SEC. (BOB BB)  
2nd Open: GSB, BOB 6 MIN (BOB BB)

Recovered 1827 ft. of GIP  
Recovered 468 ft. of CO 100% OIL (378'DP, 90'DC) GRAVITY: 38.0 @ 60°  
Recovered 30 ft. of MO 80% OIL, 20% MUD  
Recovered 498 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 90% OIL, 10% MUD	Total

Time Set Packer(s) 10:00 P.M. <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 1:00 A.M. <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 106  
Initial Hydrostatic Pressure..... (A) 1638 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 54 P.S.I. to (C) 118 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 548 P.S.I.  
Final Flow Period..... Minutes 45 (E) 132 P.S.I. to (F) 180 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 624 P.S.I.  
Final Hydrostatic Pressure..... (H) 1635 P.S.I.

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# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M255
Well Name	SIEFKES #5-27	Representative	MIKE COCHRAN
Unique Well ID	DST#5 3617-3629 ARBUCKLE	Well Operator	L.D. DRLG
Surface Location	SEC.27-21S-12W STAFFORD CO.KS.	Report Date	2011/12/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOSH AUSTIN
	Test Unit		NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 3617-3629 ARBUCKLE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/12/16	Start Test Time	09:05:00
Final Test Date	2011/12/16	Final Test Time	15:10:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

##### RECOVERED:

1005' GIP  
225' CO 100% OIL  
140' GMCWO 10% GAS, 60% OIL, 21% WTR, 9% MUD  
10' GSOCMW 44% GAS, 8% OIL, 36% WTR, 12% MUD  
375' TOTAL FLUID

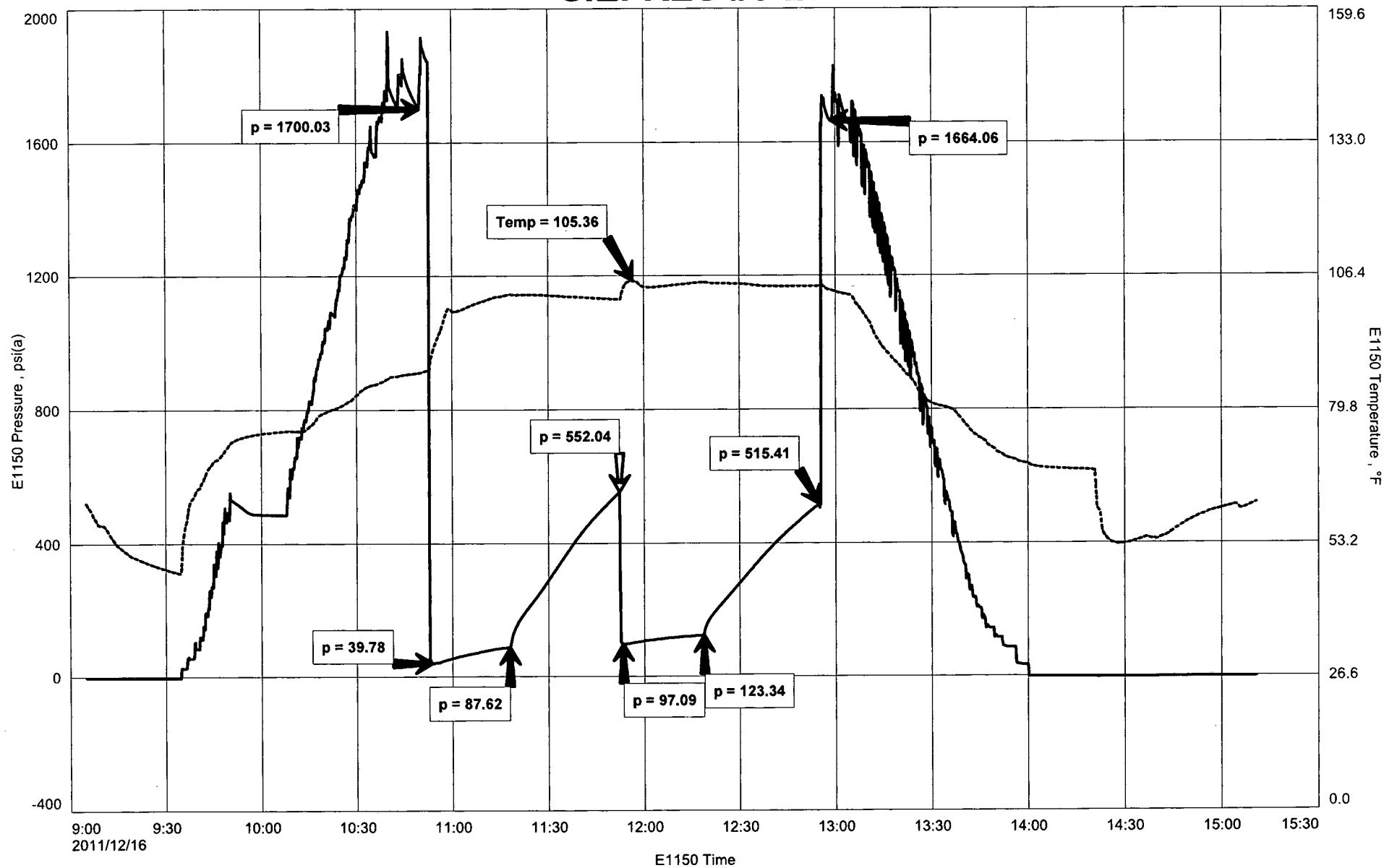
CHLOR: 18,000 PPM  
PH: 7.0  
RW: .50 @ 50DEG  
GRAVITY: 37.2 @ 60

TOOL SAMPLE: 3% GAS, 59% OIL, 31% WTR, 7% MUD

L.D. DRLG  
DST#5 3617-3629 ARBUCKLE  
Start Test Date: 2011/12/16  
Final Test Date: 2011/12/16

SIEFKES #5-27  
Formation: DST#5 3617-3629 ARBUCKLE  
Pool: WILDCAT  
Job Number: M255

# SIEFKES #5-27





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SFKS5-27DST5

TIME ON: 0905  
TIME OFF: 1510

Company L.D. DRLG Lease & Well No. SIEFKES #5-27  
Contractor PETROMARK RIG 2 Charge to L.D. DRLG  
Elevation 1845 KB Formation ARBUCKLE Effective Pay \_\_\_\_\_ Ft. Ticket No. M255  
Date 12/16/2011 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS  
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 5 Interval Tested from 3617 ft. to 3629 ft. Total Depth 3629 ft.

Packer Depth 3612 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3617 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3606 ft. Recorder Number E1150 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3626 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 65 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 10.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 14,000 P.P.M. Drill Pipe Length 3472 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 12 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GSB, BOB 40 SEC. (2" BB)

2nd Open: GSB, BOB 9 MIN (LOOSE HEAD) (4"BB)

Recovered 1005 ft. of GIP

Recovered 225 ft. of CO 100% OIL GRAVITY: 37.2 @ 60°

Recovered 140 ft. of GMCWO 10% GAS, 60% OIL, 21% WTR, 9% MUD

Recovered 10 ft. of GSOCMW 44% GAS, 8% OIL, 36% WTR, 12% MUD

Recovered 375 ft. of TOTAL FLUID

Recovered \_\_\_\_\_ ft. of CHLOR: 18,000 PPM

Remarks: PH:7.0

RW: .50 @ 50°

TOOL SAMPLE: 3% GAS, 59% OIL, 31% WTR, 7% MUD

Time Set Packer(s) 10:45 A.M. A.M. P.M. Time Started Off Bottom 12:45 P.M. A.M. P.M. Maximum Temperature 105

Initial Hydrostatic Pressure..... (A) 1700 P.S.I.

Initial Flow Period..... Minutes 30 (B) 40 P.S.I. to (C) 88 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 552 P.S.I.

Final Flow Period..... Minutes 30 (E) 97 P.S.I. to (F) 123 P.S.I.

Final Closed In Period..... Minutes 30 (G) 515 P.S.I.

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

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.