



KANSAS CORPORATION COMMISSION 1048487  
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 # 33905  
Name: Royal Drilling Inc  
Wellsite Geologist: RANDALL KILIAN  
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 #: \_\_\_\_\_

<u>05/04/2010</u>	<u>05/10/2010</u>	<u>05/14/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-167-23624-00-00  
Spot Description: \_\_\_\_\_  
SW NE SW SE Sec. 33 Twp. 15 S. R. 12  East  West  
840 Feet from  North /  South Line of Section  
1,790 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Russell  
Lease Name: KAUFMAN Well #: 1-33  
Field Name: BEAVER NORTH  
Producing Formation: LANSING KANSAS CITY, ARBUCKLE  
Elevation: Ground: 1877 Kelly Bushing: 1886  
Total Depth: 3401 Plug Back Total Depth: 3373  
Amount of Surface Pipe Set and Cemented at: 427 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: 5000 ppm Fluid volume: 000 bbls  
Dewatering method used: Evaporated  
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: Deanna Garrison Date: 12/23/2010

*Deanna Garrison*



1048487

Operator Name: L.D. Drilling, Inc. Lease Name: KAUFMAN Well #: 1-33  
 Sec. 33 Twp. 15 S. R. 12  East  West County: Russell

**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	8.875	24	427	60/40 POZMIX	285	CC & CellFlake
PRODUCTION	7.875	5.5	14	3400	60/40 POZMIX	200	Salt, Friction Reducer, Gilsontite

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
4	3214 - 3220	750 gal 20% HCl NE FE ACID	
4	3336 - 3340		

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3370</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>05/15/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
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) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L.D. Drilling, Inc.
Well Name	KAUFMAN 1-33
Doc ID	1048487

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	L.D. Drilling, Inc.
Well Name	KAUFMAN 1-33
Doc ID	1048487

Tops

ANHYDRITE	814	+1073
BASE	840	+1049
TOPEKA	2680	-793
HEEBNER SHALE	2962	-1075
TORONTO	2977	-1093
BROWN LIME	3050	-1163
LANSING	3061	-1174
BASE KANSAS CITY	3309	-1425
ARBUCKLE	3336	-1452
RTD	3401	-1517
LTD	3400	-1516



**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 1890 A

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

DATE OF JOB <b>5-4-10</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</b>		LEASE <b>KAUFMAN</b> WELL NO. <b>1-33</b>							
ADDRESS		COUNTY <b>RUSSELL</b> STATE <b>Ks.</b>							
CITY STATE		SERVICE CREW <b>LESLEY, J. ANTHONY, McGRAW</b>							
AUTHORIZED BY		JOB TYPE: <b>CNW - 8 5/8 S.P.</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	ARR PM	TIME
<b>27283</b>	<b>.5</b>						<b>5-4-10</b>		<b>4:00</b>
<b>27463</b>	<b>.5</b>					ARRIVED AT JOB		ARR PM	<b>7:00</b>
<b>19832/21010</b>	<b>.5</b>					START OPERATION		ARR PM	<b>10:38</b>
						FINISH OPERATION		ARR PM	<b>11:04</b>
						RELEASED		ARR PM	<b>11:30</b>
						MILES FROM STATION TO WELL			<b>80</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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>CP 103</b>	<b>600/40 POZ</b>	<b>SK</b>	<b>285</b>		<b>3,420 00</b>
<b>PC 102</b>	<b>CELL-FLAKE</b>	<b>lb</b>	<b>78</b>		<b>266 40</b>
<b>PC 109</b>	<b>CALCIUM CHLORIDE</b>	<b>lb</b>	<b>738</b>		<b>774 90</b>
<b>CF 153</b>	<b>WOODEN CEMENT PLUG, 8 5/8"</b>	<b>EA</b>	<b>1</b>		<b>160 00</b>
<b>E 100</b>	<b>PICKUP MILEAGE CHARGE</b>	<b>MI</b>	<b>80</b>		<b>340 00</b>
<b>E 101</b>	<b>HEAVY EQUIPMENT MILEAGE</b>	<b>MI</b>	<b>160</b>		<b>1,120 00</b>
<b>E 113</b>	<b>BULK DELIVERY CHARGE</b>	<b>TM</b>	<b>984</b>		<b>1,574 40</b>
<b>PE 200</b>	<b>DEPTH CHARGE, 0-500'</b>	<b>HRS</b>	<b>1-4</b>		<b>1,000 00</b>
<b>PE 240</b>	<b>BLENDING SERVICE CHARGE</b>	<b>SK</b>	<b>285</b>		<b>399 00</b>
<b>PE 504</b>	<b>PLUG CONTAINER UTILIZATION CHARGE</b>	<b>JOB</b>	<b>1</b>		<b>250 00</b>
<b>S 003</b>	<b>SERVICE SUPERVISOR</b>	<b>EA</b>	<b>1</b>		<b>175 00</b>

SUB TOTAL **5,782 62**

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE **J. Lesley** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **Carl E. Janner**  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>L.D. DRILLING</b>	Lease No.	Date <b>5-4-10</b>	
Lease <b>KAUFMAN</b>	Well # <b>1-33</b>		
Field Order # <b>1890</b>	Station <b>PRATT, KS.</b>	Casing <b>5/8</b>	Depth <b>427</b>
Type Job <b>CNW-5/8 S.P.</b>	Formation	County <b>RUSSELL</b>	State <b>KS.</b>
		Legal Description <b>33-15-12</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5/8</b>	Tubing Size	Shots/Ft	<b>CMT</b>	Acid <b>255SK W/40P2</b>	RATE	PRESS	ISIP	
Depth <b>427'</b>	Depth	From	To	Pre Pad <b>@ 1.23 CUFF</b>	Max		5 Min.	
Volume <b>25.5</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>200</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>407'</b>	Packer Depth	From	To	Flush <b>25.5 H<sub>2</sub>O</b>	Gas Volume		Total Load	

Customer Representative <b>DOUG</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
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Service Units	27283	27463	19832	21010					
Driver Names	LESLEY	J. ANTHONY	MCPHAW						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00 PM					ON LOCATION - SAFETY MEETING
8:00 PM					RUN CSG. 5/8" X 24' = 3 STS.
9:54 PM					CSG. ON BOTTOM
10:10 PM					HOOK UP TO CSG. - BREAK CIRC. W/ RIG
10:38 PM	250		5	5	H <sub>2</sub> O AHEAD
10:40 PM	200		62	6	MIX 255SKS @ 14.7#/GAL
10:50 PM					SHUT DOWN - RELEASE PLUG
10:55 PM	100		0	5	START DISPLACEMENT
11:01 PM	200		25.5	4	PLUG DOWN - CLOSED IN AT HEAD
					CIRCULATION THRU JOB
					CIRCULATED 10 BBL TO PIT
					JOB COMPLETE,
					THANKS - KEEVEN LESLEY



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ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

00-10120705  
**FIELD SERVICE TICKET**

1718 1724 A

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

DATE OF JOB <u>5-10-10</u> DISTRICT <u>KANSAS</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>L.O. Drilling Inc.</u>		LEASE <u>Kaufman</u> 1-33 WELL NO.							
ADDRESS		COUNTY <u>Russell 33-15-12</u> STATE <u>KANS.</u>							
CITY STATE		SERVICE CREW <u>A. Wenth, J. Melson, D. Pyle</u>							
AUTHORIZED BY		JOB TYPE: <u>5 1/2" L.S.</u> <u>CNW</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>28443 P.U.</u>	<u>1</u>					<u>5-10-10</u>	<u>5-10-10</u>	<u>8:30</u>	<u>3:00</u>
<u>9959-20920</u>	<u>1</u>					ARRIVED AT JOB	<u>5-10-10</u>	<u>8:30</u>	<u>5:30</u>
<u>9960-19918</u>	<u>1</u>					START OPERATION	<u>5-10-10</u>	<u>9:00</u>	<u>9:00</u>
						FINISH OPERATION	<u>5-10-10</u>	<u>10:00</u>	<u>10:00</u>
						RELEASED	<u>5-10-10</u>	<u>11:00</u>	<u>11:00</u>
						MILES FROM STATION TO WELL <u>80-miles</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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 Poz		150-SK		\$ 1800.00
CP103	60/40 Poz		50-SK		\$ 600.00
CC111	SALT (FINE)		<del>1334#</del>		\$ 667.00
CC112	Cement Friction Reducer		65-lb		\$ 390.00
CC201	Gilsonite		750-lb		\$ 502.50
CF103	Top Rubber cement Plug 5 1/2"		1-en		\$ 105.00
CF251	Guide Shoe - Regular 5 1/2" (Blue)		1-en		\$ 250.00
CF1451	Flapper Type Insert Float valve 5 1/2"		1-en		\$ 215.00
CF1651	Turbolizer 5 1/2" (Blue)		6-en		\$ 660.00
CF04	CS-1L KCL Sub.		1-9M		\$ 35.00
CC151	mud Flush		500-9M		\$ 430.00
E100	unit mileage charge Pickup		80-mi		\$ 340.00
E101	Heavy Equip. mileage		160-mi		\$ 1120.00
E113	Bulk Delivery Charge		688-Tm		\$ 1100.80
CE204	Depth Charge 3001-4000'		1-4hrs		\$ 2160.00
CE240	Blending & mixing Service chg.		200-SK		\$ 280.00
CE504	Plug container utilization chg.		1-Job		\$ 250.00
S003	Service Supervisor first 8hrs on loc.		1-en		\$ 175.00
SUB TOTAL					
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
TOTAL					<u>\$6,758.98</u>

SERVICE REPRESENTATIVE Allen F. Wenth THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Clay Buey  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

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

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>L.D. Drilling Inc.</b>		Lease No.		Date <b>5-10-10</b>	
Lease <b>Kaufman</b>		Well # <b>1-33</b>			
Field Order # <b>1718124A</b>	Station <b>Pratt KS</b>	Casing <b>5 1/2"</b>	Depth <b>3400'</b>	County <b>Russell</b>	State <b>Ks.</b>
Type Job <b>5 1/2" L.S.</b>	Formation <b>CNW</b>	Legal Description <b>3401 TD - "RTO"</b>		<b>33-15-12</b>	

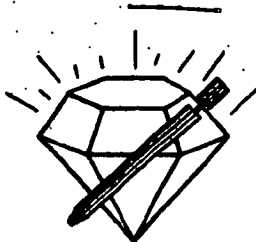
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2"			20 BBL	2% KCL			5 Min.	
Depth 3400	Depth	From	To 12 BBL	Pre Pad mud Flush	Max		10 Min.	
Volume 82.6 BBL	Volume	From	To 150 SK	Pad 60/40 Poz	Min		15 Min.	
Max Press 1000 #	Max Press	From	To 50 SK	Frac 60/40 Poz	Avg		Annulus Pressure	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Total Load	
Plug Depth 3386	Packer Depth	From	To	Flush D.sp. Fresh water	Gas Volume			

Customer Representative <b>D. G. - Toolpusher</b>	Station Manager <b>scotty</b>	Treater <b>Allen F. Worth</b>
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Service Units	28443	19959	20920	19960	19918				
Driver Names	Worth Joe	Melson Dale	Phye						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	
5:30 PM					D+S csg. crews Service Log Royal #2
					on Loc. Discuss Safety, Setup, Plan Job
					Rig Laying down Drill pipe
5:53					out of Hole, Lay down Kelly + Rig up
					To Run 5 1/2" casing 14'
7:00					Start 5 1/2" casing Shoe Joint 14'
					w/Reg. Guide Shoe, + Auto fill insert in collar
					Cent-1-3-5-7-9-11
8:10					Tag Bottom @ 3401' - Pickup to 3400'
					+ CIR w/ Rig.
9:15	200 #		20	5 1/2	start Pumping 20 BBL 2% KCL
			12	5 1/2	Pump 12 BBL mud Flush
			3	5 1/2	Pump 3 BBL H <sub>2</sub> O
					Mix 150 SKS 60/40 Poz @ 15.4 #
			3 1/2		Finish mix - washout Pump Line
9:33				6 1/2	Drop Top Rubber Plug - Start Disp.
	400 #			5	Caught 6 ft PST w/ 62 BBL out
9:45	1000 #		82 1/2	4	Plug down
	0 #				Release PST 0 #
					Plug Rat Hole w/ 30 SKS 60/40 Poz
					Plug Mouse Hole w/ 20 SKS 60/40 Poz
					Washup + Rackup Equip.
11:00					Job complete + Thanks Allen, Top Dale





# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(820) 653-7550 • (800) 542-7313  
STC 30037.D094

Company L. D. Drilling, Inc. Lease & Well No. Kaufman No. 1-33

Elevation 1886 KB Formation Lansing/Kansas City "A" "C" Effective Pay -- Ft. Ticket No. R094

Date 5-8-10 Sec. 33 Twp. 15S Range 12W County Russell State Kansas

Test Approved By Randall K. Kilian Diamond Representative Randy Williams

Formation Test No. 1 Interval Tested from 3,059 ft. to 3,110 ft. Total Depth 3,110 ft.

Packer Depth 3,054 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,059 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,049 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,107 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Royal Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 56 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 8.8 cc. Drill Pipe Length 3,033 ft. I.D. 3 1/2 in.

Chlorides 2,800 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 20' perf. w/ 31' drill pipe 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: Weak blow, building to 1 in. in 5 mins. No blow back during shut-in.

2nd Open: Weak blow, building to 1 1/2 ins. in 30 mins. No blow back during shut-in.

Recovered 15 ft. of oil specked mud = .213450 bbls. (Grind out: 2%-oil; 98%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: 6%-oil; 94%-mud

Time Set Packer(s) 9:15 A.M. Time Started Off Bottom 11:20 A.M. Maximum Temperature 104°

Initial Hydrostatic Pressure ..... (A) 1437 P.S.I.

Initial Flow Period ..... Minutes 5 (B) 9 P.S.I. to (C) 13 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 550 P.S.I.

Final Flow Period ..... Minutes 30 (E) 19 P.S.I. to (F) 20 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 58 P.S.I.

Final Hydrostatic Pressure ..... (H) 1435 P.S.I.

# DIAMOND TESTING

Page 2 of 2 Pages

## Drill Test Report

### General Information

Company Name L.D.DRILLING, INC

Contact L.D. DAVIS  
Well Name KAUFMAN # 1-33  
Unique Well ID DST # 1 LKC A-C 3059-3110  
Surface Location SEC 33-15S-12W RUSSELL COUNTY  
Field WILDCAT  
Well Type Vertical

Job Number R094  
Representative RANDY WILLIAMS  
Well Operator L.D.DRILLING, INC  
Report Date 2010/05/08  
Prepared By RANDY WILLIAMS

### Test Information

Test Type Drill Stem Test  
Formation DST # 1 LKC A-C 3059-3110  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 07:35:00  
Final Test Time 12:32:00

Start Test Date 2010/05/08  
Final Test Date 2010/05/08

Gauge Name 30037  
Test Type Name

### Test Results

RECOVERED: 15' OIL SPECED MUD, 2% OIL, 98% MUD

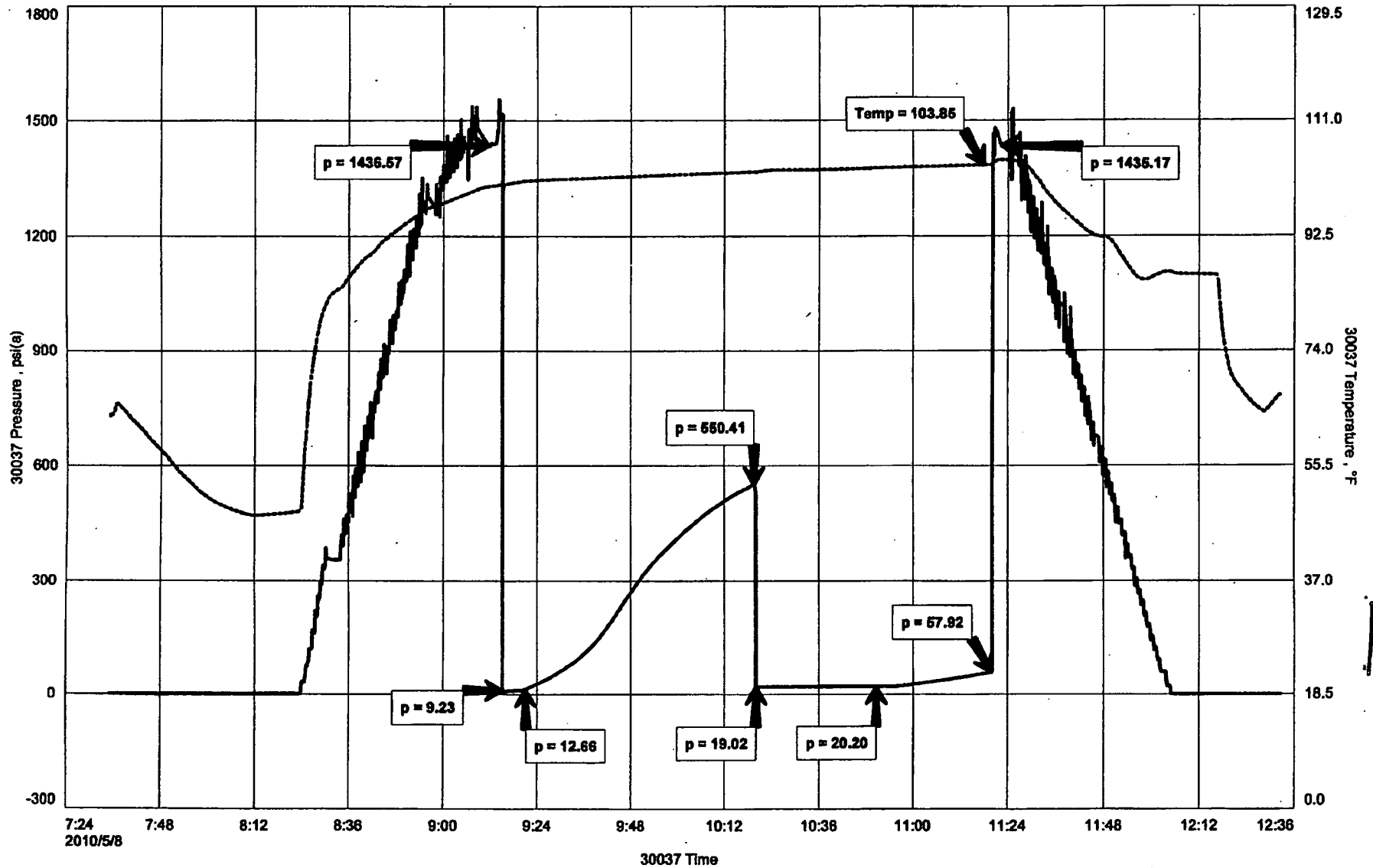
TOTAL FLUID: 15'

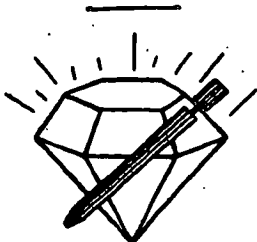
TOOL SAMPLE: 6% OIL, 94% MUD

L.D.DRILLING, INC  
DST # 1 LKC A-C 3059-3110  
Start Test Date: 2010/05/08  
Final Test Date: 2010/05/08

Formation: DST # 1 LKC  
KAUFMAN # 1-33  
A-C 3059-3110  
Pool: WILDCAT  
Job Number: R094

# KAUFMAN # 1-33





# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 30037.D095

Company L. D. Drilling, Inc. Lease & Well No. Kaufman No. 1-33

Elevation 1886 KB Formation Lansing/Kansas City "I" - "J" Effective Pay -- Ft. Ticket No. R095

Date 5-9-10 Sec. 33 Twp. 15S Range 12W County Russell State Kansas

Test Approved By Randall K. Kilian Diamond Representative Randy Williams

Formation Test No. 2 Interval Tested from 3,207 ft. to 3,250 ft. Total Depth 3,250 ft.

Packer Depth 3,202 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,207 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,196 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,247 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Royal Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 9.6 cc. Drill Pipe Length 3,181 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 43 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, building. Off bottom of bucket in 2 1/2 mins. No blow back during shut-in.

2nd Open: Strong blow, building. Off bottom of bucket in 1 min. No blow back during shut-in.

Recovered 2,108 ft. of gas in pipe

Recovered 310 ft. of gassy mud cut oil = 4.411300 bbls. (Grind out: 10%-gas; 25%-mud; 65%-oil)

Recovered 310 ft. of TOTAL FLUID = 4.411300 bbls.

Recovered          ft. of         

Recovered          ft. of         

Remarks Tool Sample Grind Out: 65%-oil; 20%-water; 15%-mud

Time Set Packer(s) 1:19 A.M. RM Time Started Off Bottom 4:54 A.M. RM Maximum Temperature 111°

Initial Hydrostatic Pressure ..... (A) 1512 P.S.I.

Initial Flow Period ..... Minutes 5 (B) 12 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 744 P.S.I.

Final Flow Period ..... Minutes 60 (E) 27 P.S.I. to (F) 121 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 720 P.S.I.

Final Hydrostatic Pressure ..... (H) 1511 P.S.I.

# DIAMOND TESTING

Page 2 of 2 Pages  
Drill Test Report

## General Information

Company Name L.D.DRILLING, INC

Contact L.D. DAVIS  
Well Name KAUFMAN # 1-33  
Unique Well ID DST # 2 LKC I-J 3207-3250  
Surface Location SEC 33-15S-12W RUSSELL COUNTY  
Field WILDCAT  
Well Type Vertical

Job Number R095  
Representative RANDY WILLIAMS  
Well Operator L.D.DRILLING, INC  
Report Date 2010/05/09  
Prepared By RANDY WILLIAMS

## Test Information

Test Type Drill Stem Test  
Formation DST # 2 LKC I-J 3207-3250  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Time 00:10:00  
Final Test Time 06:30:00

Start Test Date 2010/05/09  
Final Test Date 2010/05/09

Gauge Name 30037  
Test Type Name

## Test Results

RECOVERED: 2108' GAS IN PIPE  
310' GMCO, 10% GAS, 65% OIL, 25% MUD

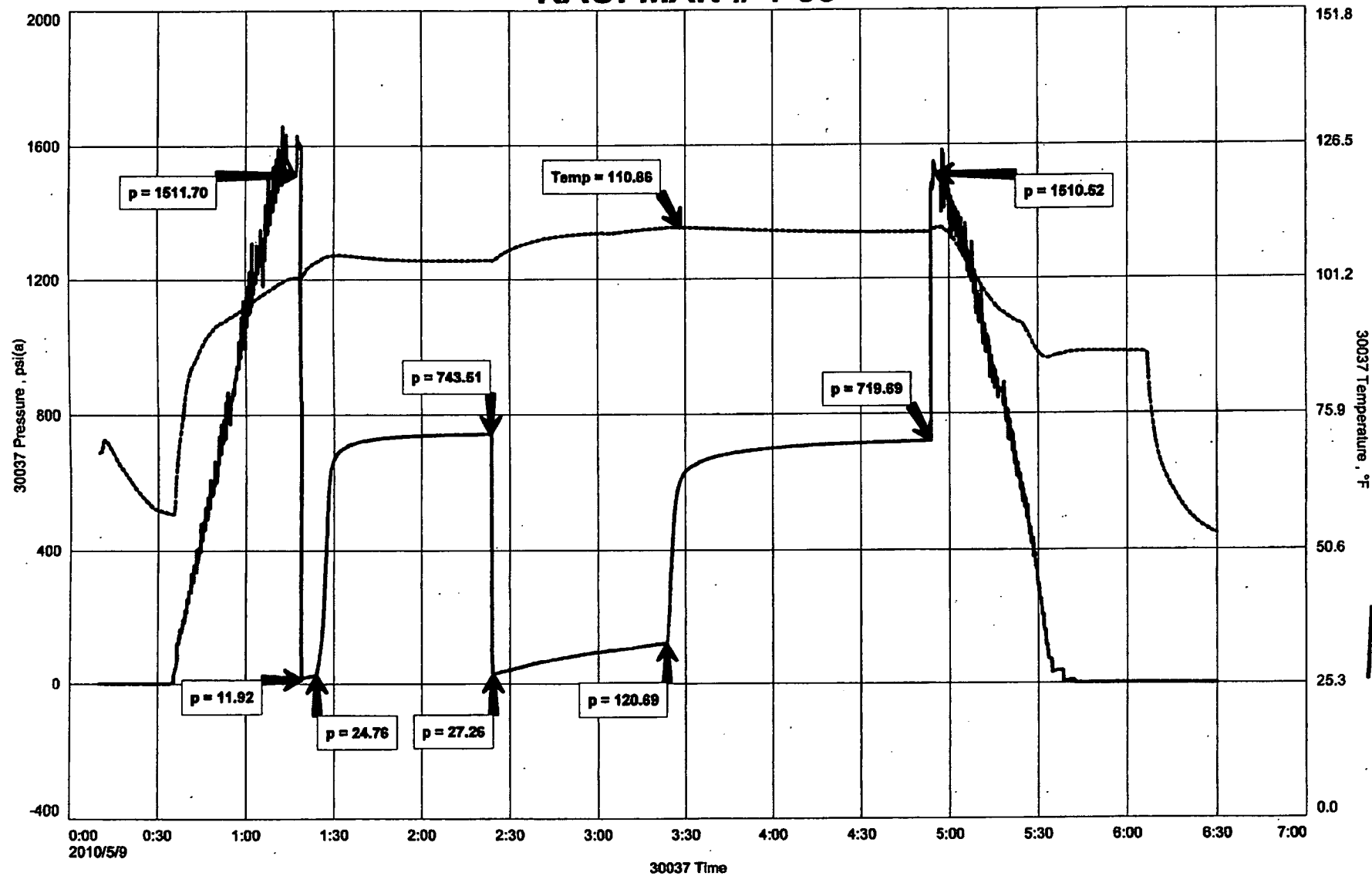
TOTAL FLUID: 310'

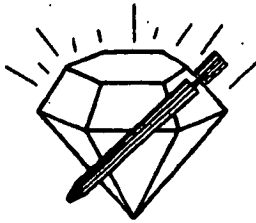
TOOL SAMPLE: 65% OIL, 20% WATER, 15% MUD

L.D.DRILLING, INC  
DST #2 LKC I-J 3207-3250  
Start Test Date: 2010/05/09  
Final Test Date: 2010/05/09

Formation: DST #2 LKC I-J 3207-3250  
Pool: WILDCAT  
Job Number: R095

# KAUFMAN # 1-33





# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 30037.D096

Company L. D. Drilling, Inc. Lease & Well No. Kaufman No. 1-33

Elevation 1886 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. R096

Date 5-9-10 Sec. 33 Twp. 15S Range 12W County Russell State Kansas

Test Approved By Randall K. Kilian Diamond Representative Randy Williams

Formation Test No. 3 Interval Tested from 3,280 ft. to 3,343 ft. Total Depth 3,343 ft.

Packer Depth 3,275 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,280 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 3,269 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,340 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Royal Drilling, Inc. - Rig 2 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 61 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,254 ft. I.D. 3 1/2 in.

Chlorides 5,000 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 32' perf. w/ 31' drill pipe 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: Fair blow, building to 7 ins. in 5 mins. No blow back during shut-in.

2nd Open: Fair blow. Off bottom of bucket in 9 1/2 mins. Gas to surface (too small to measure). No blow back during shut-in.

Recovered 331 ft. of clean oil = 4.710130 bbls. (Grind out: 20%-gas; 80%-oil) Gravity: 42 @ 60°

Recovered 180 ft. of gassy mud cut oil = 2.561400 bbls. (Grind out: 20%-gas; 35%-mud; 45%-oil)

Recovered 511 ft. of TOTAL FLUID = 7.271530 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Remarks Tool Sample Grind Out: 30%-oil; 70%-mud

Time Set Packer(s)	<u>7:38</u>	<u>K.M.</u> P.M.	Time Started Off Bottom	<u>11:13</u>	<u>K.M.</u> P.M.	Maximum Temperature	<u>111°</u>
Initial Hydrostatic Pressure			(A)	<u>1541</u>			P.S.I.
Initial Flow Period	Minutes	<u>5</u>	(B)	<u>13</u>	P.S.I. to (C)	<u>37</u>	P.S.I.
Initial Closed In Period	Minutes	<u>60</u>	(D)	<u>1064</u>			P.S.I.
Final Flow Period	Minutes	<u>60</u>	(E)	<u>42</u>	P.S.I. to (F)	<u>204</u>	P.S.I.
Final Closed In Period	Minutes	<u>90</u>	(G)	<u>1053</u>			P.S.I.
Final Hydrostatic Pressure			(H)	<u>1537</u>			P.S.I.

# DIAMOND TESTING

Page 2 of 2 Pages  
Drill Test Report

## General Information

Company Name L.D.DRILLING, INC

Contact L.D. DAVIS  
Well Name KAUFMAN # 1-33  
Unique Well ID DST # 3 ARBUCKLE 3280-3343  
Surface Location SEC 33-15S-12W RUSSELL COUNTY  
Field WILDCAT  
Well Type Vertical

Job Number R096  
Representative RANDY WILLIAMS  
Well Operator L.D.DRILLING, INC  
Report Date 2010/05/10  
Prepared By RANDY WILLIAMS

## Test Information

Test Type Drill Stem Test  
Formation DST # 3 ARBUCKLE 3280-3343  
Well Fluid Type 01 Oil  
Test Purpose (AEUB) Initial Test

Start Test Date 2010/05/09  
Final Test Date 2010/05/10  
Start Test Time 18:10:00  
Final Test Time 01:00:00

Gauge Name 30037  
Test Type Name

## Test Results

RECOVERED: 331' CLEAN OIL, 20% GAS, 80% OIL API- 42 @ 60 DEG  
180' GMCO, 20% GAS, 45% OIL, 35% MUD

TOTAL FLUID: 511'

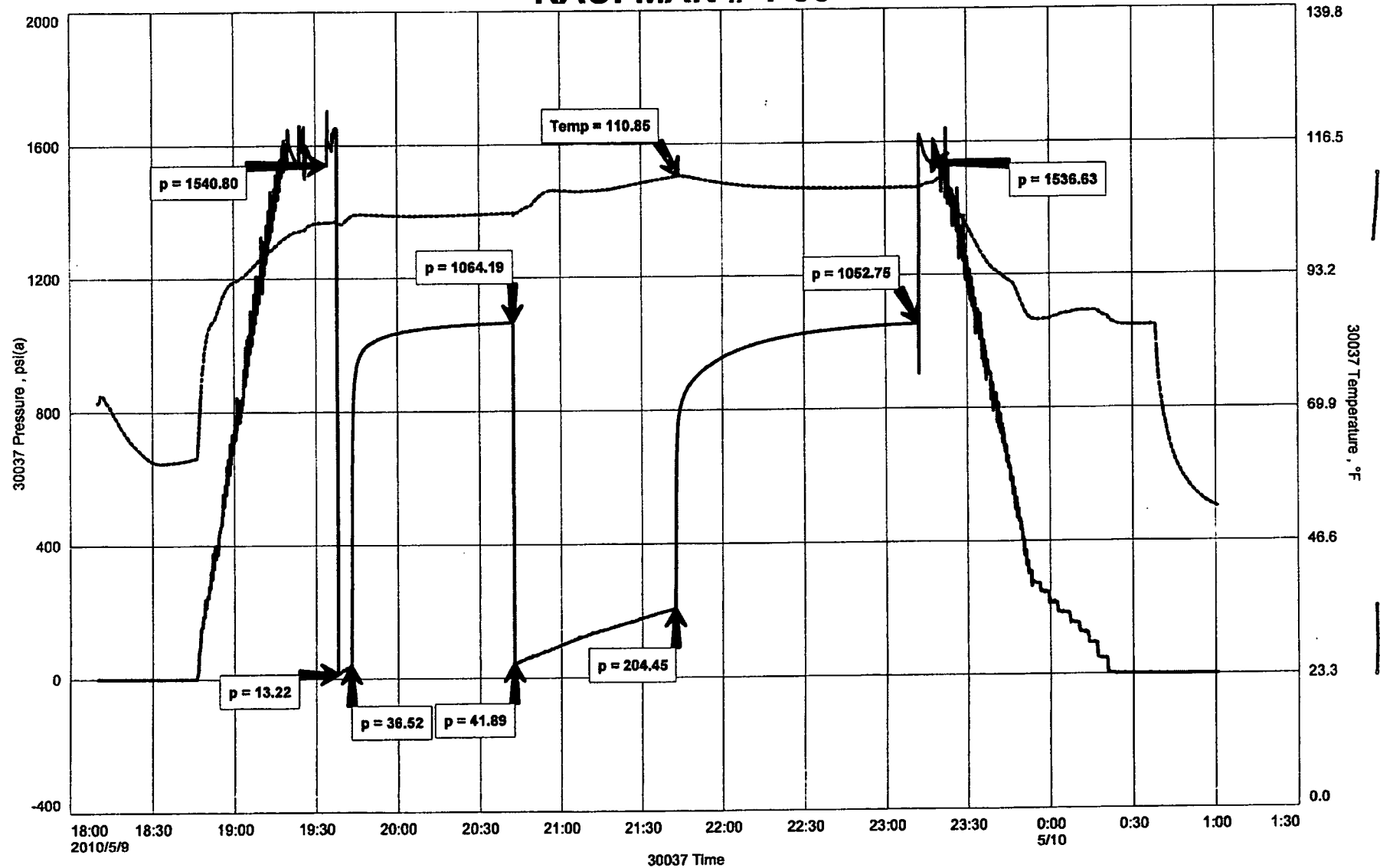
TOOL SAMPLE: 30% OIL, 70% MUD



L.D.DRILLING, INC  
DST # 3 ARBUCKLE 3280-3343  
Start Test Date: 2010/05/09  
Final Test Date: 2010/05/10

Formation: DST # 3 KAUFMAN # 1-33  
ARBUCKLE 3280-3343  
Pool: WILDCAT  
Job Number: R096

# KAUFMAN # 1-33



Randall Kilian Corporation  
Geologist



**Certified Petroleum  
Geologist #3351  
License #224**

P.O. Box 26  
Hays, Kansas 67601-0026  
Phone: 785-628-6061  
Cell: 785-635-1349

## GEOLOGIST'S WELL REPORT

COMPANY L.D. DRILLING, INC. (6039)

WELL Kaufman #1-33

FIELD Beaver North

LOCATION (legal) Ap. SW NE SW SE  
(840' FSL & 1790' FEL)

Section 33 TWP 15S RGE 12W

(Map) 4 1/2 mi N. of Beaver, Ks.

COUNTY Russell STATE Kansas

ELEVATION: 1886' K.B., 1879' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-167-23624

GEOLOGY BY Randall Kilian

## PERTINENT WELL DATA

CONTRACTOR Royal Drilling Co. (33905)

RIG #2 HYDRAULICS D-375 6x14x60  
(Doug Budig TP)

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" x 2 1/2" 14 (435')

CASING: SURFACE 8 5/8" @ 427' w/ 285 sx 60/40 Poz

PRODUCTION 5 1/2" @ 3398' w/ 150 sx Common

DRILLING FLUID: COMPANY Andy's Mud & Chemical Co.  
(Dennis Rector)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY Diamond Testing  
(Randy Williams)

NUMBER OF TESTS Three (3)

ELECTIC LOGS: COMPANY Pioneer-Log Tech Inc.

DETAIL (5") 2600' - RTD

TYPE DI. Comp N-D, Micro

DRILLING TIME FROM 2600' TO RTD

SAMPLE TIME FROM 2600' TO RTD

SUPERVISION FROM 2600' TO RTD

VERTICAL DEVIATION 1° @ 427', 1 1/2° @ 3110', 1° @ 3401'

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

RESERVE PIT 800 bbls., Ch1. 68.000

DATE:

5-4-10

5-5-10

5-6-10

5-7-10

5-8-10

5-9-10

5-10-10

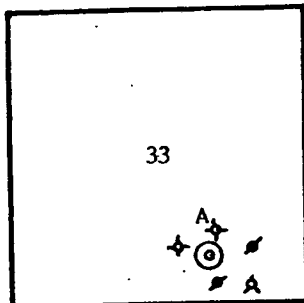


# FORMATION TOPS & STRUCTURAL GEOLOGY

R 12 W

REFERRED TO:

A: NORSTAR PETROLEUM INC.  
Kaufman #1-33 Ap. E $\frac{1}{2}$  W $\frac{1}{2}$  SE 33  
 B: \_\_\_\_\_  
 C: \_\_\_\_\_  
 D: \_\_\_\_\_  
 E: \_\_\_\_\_



STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION					
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	815'	814'	+1072	+1073				
Base	840'	840'	+1046	+1049				
Topeka	2680'	2680'	- 794	- 793				
Heeb. Sh.	2964'	2962'	-1076	-1075				
Toronto	2978'	2977'	-1091	-1093				
Brown lm.	3051'	3050'	-1164	-1163				
Lansing	3062'	3061'	-1175	-1174				
BKc.	3307'	3309'	-1423	-1425				
Arbuckle	3333'	3336'	-1450	-				
TD.	3401'	3400'	-1514	-1473				

Pipe strap .77' short.

## SUMMARY

The Kaufman #1-33 well was drilled with Royal Drilling Co. tools rig #2 beginning 5-4-10 and drilling was completed 5-10-10.

The drillsite was located via a 3-D seismic survey. The drillsite was a development location.

The well ran a bit low to nearby producers and a bit low to seismic expectations. However, two (2) commercial DST's were run.

Based upon all data, 5 $\frac{1}{2}$ " casing was set and cemented to further test and produce the well.

Recommended perfs: Arb. (Sd?) 3337-40', LKc J 3231-36', LKc I 3215-20'.

Respectfully,

*Randy*  
 Randall Kilian

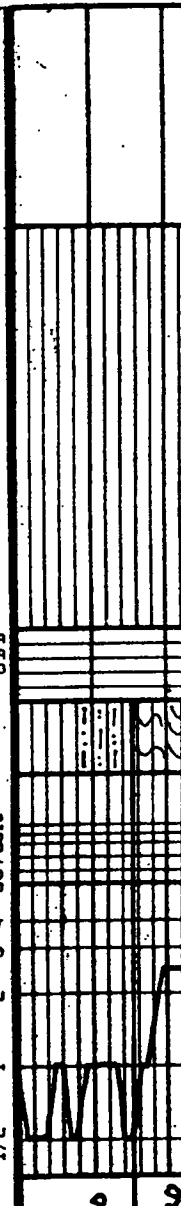
REMARKS

LITHOLOGY (LAGGED)

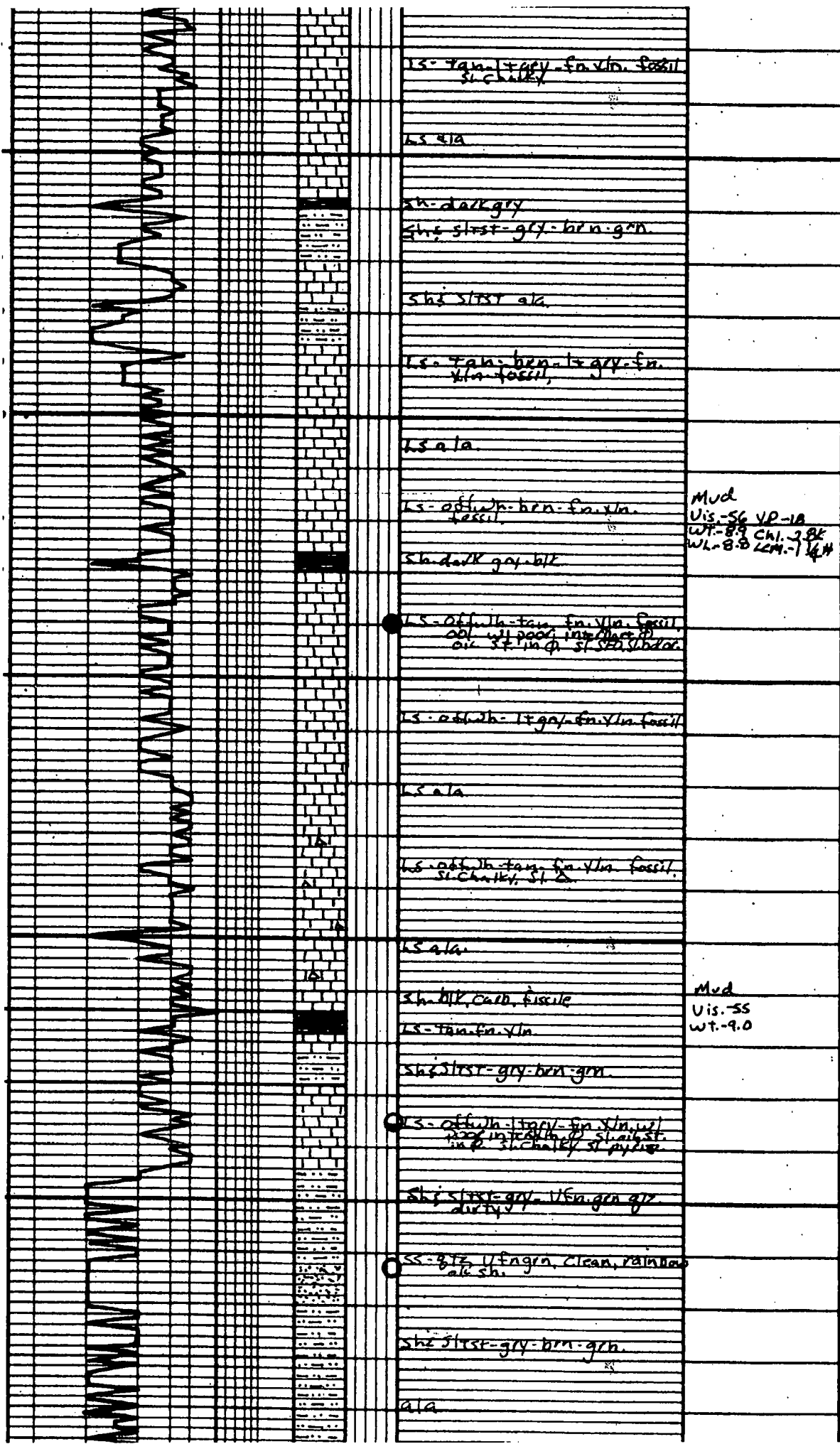
# & SHOWS  
 # OF  
 85158  
 DST

DRILLING TIME (min/ft)

1/2 1 2 3 4 5678910







ls - tan + grey - fn. vln. fossil  
sl. chalky

ls a1a

sh - dark grey  
sh. sltst - grey - brn - grn.

sh sltst a1a

ls - tan - brn - lg grey - fn.  
vln - fossil,

ls a1a

ls - off wh - brn - fn. vln.  
fossil.

Mud  
Vis - 56 VP - 1A  
WT - 8.9 CH - 2.84  
WL - 8.8 LCM - 1.44

sh - dark grey - blk

ls - off wh - tan - fn. vln. fossil  
obl. w/ pool. in part of  
air st in q. st. sub. bed.

ls - off wh - lg grey - fn. vln. fossil

ls a1a

ls - off wh - tan - fn. vln. fossil.  
sl. chalky, sl. a.

ls a1a

sh - blk, carb. fissile

Mud  
Vis - 55  
WT - 9.0

ls - tan - fn. vln

sh sltst - grey - brn - grn.

ls - off wh - lg grey - fn. vln. w/ pool in part of air st. in q. sl. chalky st. pyrite

sh sltst - grey - vln. grn. qtz.  
dirty

ss - gr. / fn. grn. clean, rounded  
alc sh.

sh sltst - grey - brn - grn.

a1a

