



KANSAS CORPORATION COMMISSION 1051676
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: MV 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>11/10/2010</u>	<u>11/18/2010</u>	<u>12/01/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23647-00-00
Spot Description: _____
NW SE SW SE Sec. 23 Twp. 21 S. R. 12 East West
590 Feet from North / South Line of Section
1,840 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: Bernice Well #: 2-23
Field Name: WIDENER
Producing Formation: ARBUCKLE
Elevation: Ground: 1831 Kelly Bushing: 1833
Total Depth: 3715 Plug Back Total Depth: 3696
Amount of Surface Pipe Set and Cemented at: 339 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 crmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 18000 ppm Fluid volume: 640 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: BOB'S OIL SERVICE, INC.
Lease Name: TEICHMAN License #: 32408
Quarter SW Sec. 16 Twp. 22 S. R. 12 East West
County: STAFFORD Permit #: D23722

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: 3/04/2011



1051676

Operator Name: L. D. Drilling, Inc. Lease Name: Bernice Well #: 2-23
 Sec. 23 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 checked="" type="checkbox"/> Yes <input 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: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Attached Top Attached Datum 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
<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	3618 - 3622'	500 gal 20% NE FE HCL ACID	
4	3586 - 3590'; 3593 - 3597'		
4	3600 - 3604'		

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3694</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>12/02/2010</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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	Bernice 2-23
Doc ID	1051676

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	Bernice 2-23
Doc ID	1051676

Tops

ANHYDRITE	598	+1235
BASE ANHYDRITE	620	+1213
HEEBNER	3094	-1261
TORONTO	3111	-1278
DOUGLAS	3124	-1291
BROWN LIME	3220	-1385
LANSING	3238	-1405
BASE KANSAS CITY	3474	-1641
CONGLOMERATE	3483	-1650
VIOLA	3510	-1677
ARBUCKLE	3578	-1745

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	Bernice 2-23
Doc ID	1051676

Casing

SURFACE	12.25	8.625	24	339	A-CON	175	3%CC & .25#CF
SURFACE CONT	12.25	8.625	24	339	COMMON	200	3%CC,2% Gel,.25#CF
TOP OFF SURFACE	12.25	8.625	24	339	COMMON	50	3%CC
PRODUCTION	7.875	5.5	15.5	3714	60/40 POZMIX	180	18%Salt,.5%CFR,5# Gil,.25#CF



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 03101 A

23-215-12W

DATE _____ TICKET NO. _____

DATE OF JOB <u>11-11-10</u> DISTRICT <u>Pratt, 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.D. Drilling, Incorporated</u>		LEASE <u>Bernice</u> WELL NO. <u>2-23</u>							
ADDRESS _____		COUNTY <u>Stafford</u> STATE <u>Kansas</u>							
CITY _____ STATE _____		SERVICE CREW <u>C. Messick: M. Mattal: L. Wisner</u>							
AUTHORIZED BY _____		JOB TYPE: <u>C.N.W. - Surface</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19,866</u>	<u>.5</u>						<u>11-10-10</u>	<u>PM</u>	<u>9:00</u>
						ARRIVED AT JOB	<u>11-10-10</u>	<u>PM</u>	<u>11:00</u>
<u>19,903-19,905</u>	<u>.5</u>					START OPERATION	<u>11-11-10</u>	<u>PM</u>	<u>2:30</u>
						FINISH OPERATION	<u>11-11-10</u>	<u>PM</u>	<u>1:00</u>
<u>19,831-19,862</u>	<u>.5</u>					RELEASED	<u>11-11-10</u>	<u>PM</u>	<u>1:30</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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P CP 101	A-Con Blend Cement	sk	175		\$ 3,150 00
P CP 100	Common Cement	sk	200		\$ 3,200 00
P CC 102	Cellflake	Lb	94		\$ 347 80
P CC 109	Calcium Chloride	Lb	1,059		\$ 1,111 95
P CC 200	Cement Gel	Lb	376		\$ 94 00
P CF 153	Wooden Plug, 8 5/8"	ea	1		\$ 160 00
P E 100	Pickup Mileage	mi	45		\$ 191 25
P E 101	Heavy Equipment Mileage	mi	90		\$ 630 00
P E 113	Bulk Delivery	tm	79.4		\$ 1,270 80
P CE 200	Cement Pump: 0 Feet To 500 Feet	hrs	4		\$ 1,000 00
P CE 240	Blending and Mixing Service	Sk	375		\$ 525 00
P CE 504	Plug Container	Job	1		\$ 250 00
P S 003	Service Supervisor	Job	1		\$ 175 00

CHEMICAL / ACID DATA:			

SUB TOTAL
DLS \$ 8,474 06

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

SERVICE REPRESENTATIVE: <u>Arlene R. Messick</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>St. Clark</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer L.L. Drilling, Incorporated	Lease No. Bernice	Date 11-11-10
Lease Bernice	Well # 2-23	
Field Order # 310	Station Pratt, Kansas	Casing 8 5/8" 24" Depth 340'
Type Job C.N.W. - Surface	Formation	County Stafford State Kansas
		Legal Description 23-25-12W

PIPE DATA		PERFORATING DATA		MATERIALS USED		TREATMENT RESUME		
Casing Size 8 5/8" 24" I.D.	Tubing Size 2 1/2" I.D.	Shots/Ft	175 sacks ACOW with	3% Calcium Chloride	RATE	PRESS	ISIP	25 Lb/st. cell plate
Depth 310 Feet	Depth	From	to 2.6 Lb./Gal., 11.89 Gal.	15 ft., 2.12 CU.F.T./	Max		5 Min.	
Volume 2.6 Bbl.	Volume	From	200 sacks Common with 3%	Calcium Chloride, 28 Gal.	Min		19 Min.	25 Lb/st. cell plate
Max Press. 350 P.S.I.	Max Press	From	To 15 Lb./Gal., 6.13 Gal.	Avg			15 Min.	
Well Connection Hug. container	Annulus Vol	From	To	HHP Used				Annulus Pressure
Plug Depth 225 Feet	Packer Depth	From	To	Flush 21 Bbl. Fresh Water	Gas Volume			Total Load

Customer Representative Tom Michol	Station Manager David Scott	Treater Clarence R. Messich
Service Units 19,866	19,903	19,905
19,831	19,862	
Driver Names Messich	Mattal	Wiser

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30					Cement and Float Equipment on location.
11:00					Trucks on location and hold safety meeting.
11:35					Petronart Drilling start to run 8 Joints new 24 Lb./Ft. 8 5/8" casing.
12:25					Casing in well Circulate for 5 minutes.
12:33	250			5	Start fresh water pre-flush.
	250		10	5	Start mixing 175 sacks ACOW cement.
	150		16	5	Start mixing 200 sacks Common Cement.
	-0-		24		Stop pumping. Shut in well. Release wooden Plug. Open Well.
12:54	100			5	Start Fresh Water Displacement.
1:00	350		21		Plug down. Shut in well.
					Circulated cement to the top of 6' cellar.
					Wash up pump truck.
					Job Complete.
					Thank You.
					Clarence, Mike, Lucas

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energy services, llc

TREATMENT REPORT

Customer L.D. DRUMMOND	Lease No.	Date 11-16-10
Lease BERNICE	Well # 2-23	
Field Order # 2757	Station PRATT, KS	Casing
Type Job CNW - TOP OFF SURFACE	Formation	Legal Description 23-21-12
	Depth	County SIXTOWN State KS

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

Customer Representative LD	Station Manager SCOTT	Treater GEORGEY
Service Units 19900	19889-19842	19960-19918
Driver Names AG	J.A.	BUDS

Time	Casing Pressure	Tubing Pressure	Bbfs. Pumped	Rate	Service Log
0800					ON LOCATION
					AFTER 8 1/2 minutes
					CEMENT FELL BACK 10' BELOW
					BOTTOM OF CELLAR
					RUN 1 JT. 1" TBG - TAG
					CEMENT - PULL JT. OUT -
					CEMENT FELL DN BOTTOM OF
					TBG - CLEAN OUT PUC -
					RUN 1" TO 10' BELOW CELLAR
					20' FROM KB
0845	100	10	1		MIX 50SK COMMON 3% CC
					FELL CELLAR TO JUST
					ABOVE 8 1/2' COLLAR
					WAIT 30 MINUTES
					JET CELLAR CLEAN
0930					JOB COMPLETE - Home

FIELD SERVICE TICKET
1718 03127 A



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

PRESSURE PUMPING & WIRELINE

DATE _____ TICKET NO. _____

DATE OF JOB: 11/19/10	DISTRICT: PRATT, KS	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: BERNICE		WELL NO: 2-28					
ADDRESS:		COUNTY: STAFFORD	STATE: KS						
CITY:		SERVICE CREW: KC, KC, WEAVER, RJ.							
AUTHORIZED BY:		JOB TYPE: O/W - LOW STRONG							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19907		19960	1/2				11-18	PM	2:10
		19918					11-18	PM	2:40
19889	1/2						11-19	AM	6:40
19842								AM	0:50
								AM	0:53
						MILES FROM STATION TO WELL	43		

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 PIZ	SK	150		1,800.00
CP103	60/40 PIZ	SK	30		360.00
CC102	CELL FIBRE	lb.	38		140.60
CC111	SITE	lb.	1334		667.00
CC112	CFR	lb.	65		390.00
CC201	GILSONITE	lb.	750		502.50
CF103	5/16 TOP RUBBER PLUG	EA	1		105.00
CF251	5/16 GUNNIE SHOE	EA	1		250.00
CF1451	5/16 AFR INSULATED FRONT	EA	1		215.00
CF1651	5/16 TURBULENCE	EA	5		550.00
CF704	15-16 HCL	gal.	1		35.00
CC151	MUD PULSH	gal.	500		430.00
E100	PERMAN MILE	mi	45		191.25
E101	THICK MILE	mi	40		130.00
E113	BULK DERRICK	TW	349		558.00
CE204	PUMP CHARGE	EA	1		2160.00
CE240	BLENDED CHARGE	SK	180		252.00
CE504	PLUG CONTAINER	EA	1		250.00
5003	SEALING SUPERVISOR	EA	1		175.00
SUB TOTAL					

CHEMICAL / ACID DATA:			

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

TOTAL 6473.10
DLS

SERVICE REPRESENTATIVE: K Conkey	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

TREATMENT REPORT

Customer: LD DRILLING	Lease No.:	Date: 11 - 10
Lease: BERNICE	Well #: 2-23	
Field Order #: 3127	Station: PRATT, KS	Casing: 5 1/2
Type Job: CNW-LOWCSTRENG	Depth: 3712	County: STAFFORD
	Formation: TD-3715'	State: Ks
		Legal Description: 23-21-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 3 1/2	Tubing Size:	Shots/Ft:		Acid:	RATE:	PRESS:	ISIP:
Depth: 3712	Depth:	From:	To:	Pre Pad:	Max:		5 Min.:
Volume:	Volume:	From:	To:	Pad:	Min:		10 Min.:
Max Press:	Max Press:	From:	To:	Frac:	Avg:		15 Min.:
Well Connection:	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure:
Plug Depth: 3679	Packer Depth:	From:	To:	Flush:	Gas Volume:		Total Load:

Customer Representative:	Station Manager:	Treater:
Service Units:		
Driver Names:		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0000					ON LOCATION RUN 88 JTS 5 1/2 15.5" CSG-3708 RUN GUIDESHOE INSIDE DWI STAFFORD CENT-1-3-5-7-9
0300					TRAC BOTTOM - DROP BALL - C.F.P. SET 5 1/2 AT 3712' WITH COLLAR BELOW GROUND LEVEL
0400	250		20	6	PUMP 20 bbl 2% KCL H ₂ O
	250		12	6	PUMP 12 bbl MUD FLUSH
	250		3	6	PUMP 3 bbl H ₂ O
	200		31	6	PUMP 150 SK. 6 3/4 POZ 18% SALT 1/2% C.F.P. 5" GASONITE 1/4" CELLFIBRE AT 15.4 PDG STOP - MASH LEVE - DROP PLUG
0			0	6 1/2	START DESP
200			68	6 1/2	LEFT CEMENT
500			80	3	SLOW RATE
1000			88	3	PLUG DOWN - NOT
700					SHUT IN CASING WITH 700# HOLD PLUG RAT HOLE - 30 SK 6 3/4 POZ
0530					JOB COMPLETE - KEVIN



James C. Magrove
Petroleum Geologist

Office (520) 593-4256 212 Main St. P.O. Box 215 Chaffin, KS 67526 Home (620) 587-3444

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. Drilling, Inc.
 WELLS Bernice #2-23
 FIELD Widener
 LOCATION Nw-Se-Sw-Se (590 FSL, #1840 FEL)
 EC. 23 TWSF 21 RGE 12
 COUNTY Stafford STATE Kansas
 CONTRACTOR Petramack Drilling (ris #2)
 PUD 11-10-2010 COMP. 11-18-2010
 TO 3715 LTD. 3714
 WELLS UP 2823 TYPE MUD Chemical Displaced

ELEVATIONS
 KB 1833
 DF _____
 CL 1828
 Measurements Are All From KB
 CASING SURFACE 856" @ 339
 PRODUCTION 5 1/2" e
 ELECTRICAL SURVEYS

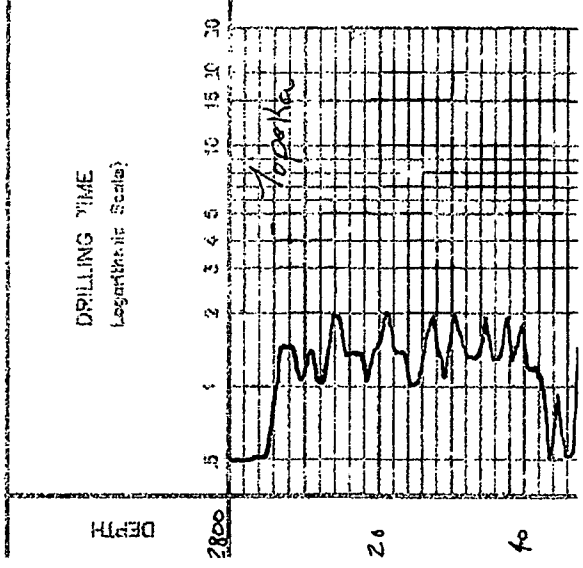
AMPLES SAVED FROM 2800 TO 3715
 DRILLING TIME KEPT FROM 2800 TO 3715
 AMPLES EXAMINED FROM 2800 TO 3715
 GEOLOGICAL SUPERVISION FROM 3000 TO 3715
 GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
anhydrite	598 +1235	Petramack 3578-1745
base anhydrite	620 +1213	RTP 3715 -1822
leakner	3094 -1261	LTP 3714 -1821
Toronto	3111 -1278	
Douglas	3124 -1291	
Brown lime	3220 -1385	
Wensing	3238 -1405	
base Kansas Ctn	3474 -1641	

5 1/2" production casing was set and cemented at 3714'.
 Respectfully submitted,
 Joshua R. Austin
 Petroleum Geologist

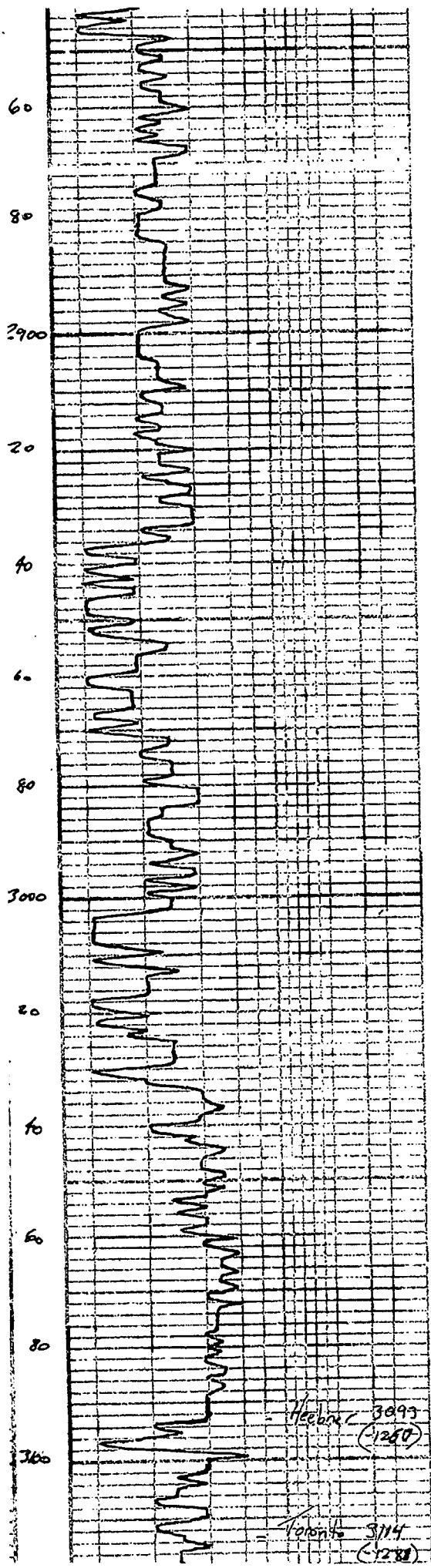
LEGEND

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



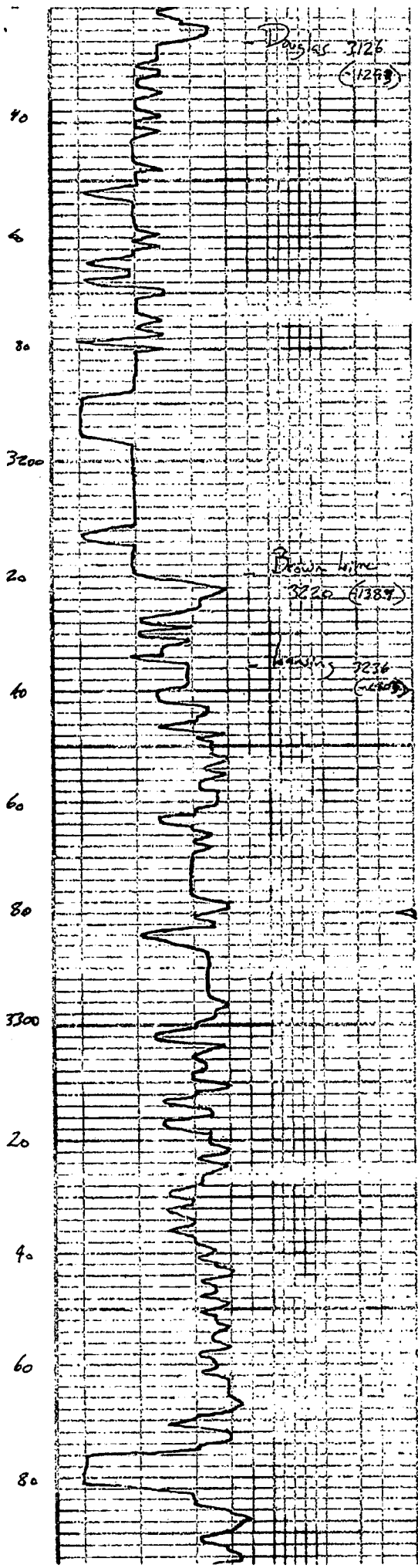
DEPTH	SAMPLE DESCRIPTIONS	REMARKS
2800		
20		
15		
10		
5		
40		

Handwritten notes in the SAMPLE DESCRIPTIONS column:
 5' - 10' - 15' - 20' - 25' - 30' - 35' - 40' - 45' - 50' - 55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100' - 105' - 110' - 115' - 120' - 125' - 130' - 135' - 140' - 145' - 150' - 155' - 160' - 165' - 170' - 175' - 180' - 185' - 190' - 195' - 200' - 205' - 210' - 215' - 220' - 225' - 230' - 235' - 240' - 245' - 250' - 255' - 260' - 265' - 270' - 275' - 280' - 285' - 290' - 295' - 300' - 305' - 310' - 315' - 320' - 325' - 330' - 335' - 340' - 345' - 350' - 355' - 360' - 365' - 370' - 375' - 380' - 385' - 390' - 395' - 400' - 405' - 410' - 415' - 420' - 425' - 430' - 435' - 440' - 445' - 450' - 455' - 460' - 465' - 470' - 475' - 480' - 485' - 490' - 495' - 500' - 505' - 510' - 515' - 520' - 525' - 530' - 535' - 540' - 545' - 550' - 555' - 560' - 565' - 570' - 575' - 580' - 585' - 590' - 595' - 600' - 605' - 610' - 615' - 620' - 625' - 630' - 635' - 640' - 645' - 650' - 655' - 660' - 665' - 670' - 675' - 680' - 685' - 690' - 695' - 700' - 705' - 710' - 715' - 720' - 725' - 730' - 735' - 740' - 745' - 750' - 755' - 760' - 765' - 770' - 775' - 780' - 785' - 790' - 795' - 800' - 805' - 810' - 815' - 820' - 825' - 830' - 835' - 840' - 845' - 850' - 855' - 860' - 865' - 870' - 875' - 880' - 885' - 890' - 895' - 900' - 905' - 910' - 915' - 920' - 925' - 930' - 935' - 940' - 945' - 950' - 955' - 960' - 965' - 970' - 975' - 980' - 985' - 990' - 995' - 1000'



50- tan. buff
 & white-cream. &
 - at above
 45- grey- tan. buff. low
 50- tan. buff. low. Slightly dy. N/S
 45- tan. buff. low. low
 N/S
 40- tan. buff. low. low
 Slightly dolomite. S. N/S
 N/S
 }
 40- tan. buff. low. low
 Slightly dolomite. low. low
 N/S
 }
 blk carb sh.
 45- cream. buff. chalky. low
 From - first. est. (horiz)
 45- cream. buff. dolomite. N/S
 45- tan. buff. low. low. low
 Slightly dolomite. N/S
 45- cream. buff. low. low
 }
 blk carb sh.
 grey- greenish- green sh.
 ...

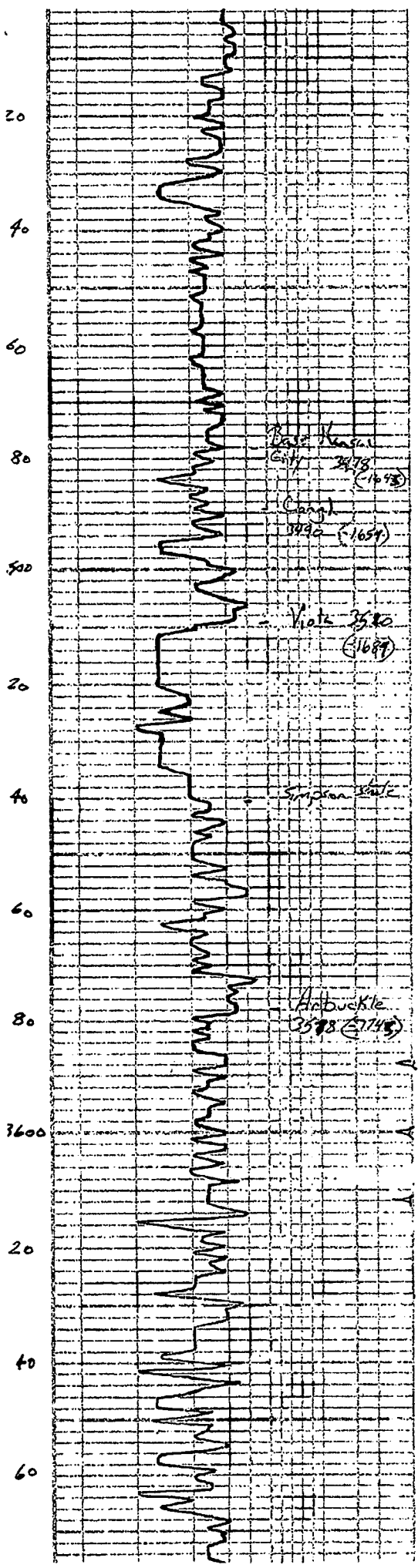
KB 1833



1/2 brnstr NFA No. 1
 Grey mic - greyish green sh.
 }
 grey tan green silty mic sh.
 brown sand, grey v. sh. sub. sand
 sub to fine mic. 1/2
 Silty, sub. as above
 Grey - greyish green shale
 }
 Ls. tan fine chert
 slightly porous
 Ls. crin. sh. grey
 Poor vis. chert
 Ls. tan crin. fine chert
 Poor vis. slightly porous
 NFA No. 1
 Ls. tan fine chert
 brnstr. to fine chert
 Ls. tan grey fine chert
 NFA No. 1
 Ls. crin. fine chert
 chert fine calc. type NFA
 Poorly dev. sh.
 Ls. tan crin. fine chert
 Poor vis. sh.
 grey blk sh.
 Ls. tan porous chert good
 Poor vis. type - seo. good brn
 Str. sand

DST #1 3224-3314
 30-45-45-60
 Blow Strong GTS in 10 min
 1" blow back
 Blow Strong GTS in 3 min
 OBB blowback
 Recovery 171 GOSM
 (82% gas 2% oil 1% water 75% ml)
 126' GHOCM
 (80% gas 9% oil 11% water 7% ml)
 120' GMO
 (20% gas 53% oil 13% water 8% ml)
 900 gauged as follows
 initial flow
 22 min 59,200 CF/D
 30 min 97,800 CF/D
 Final flow
 3 min 108,000 CF/D
 15 " 103,000 "
 25 " 101,000 "
 35 " 88,200 "
 45 " 81,800 "
 Pressure ISIP 940 PSI
 ESIP 920 "
 IFP 70-43 "
 FFP 125-142 "
 HSH-1547 "
 -1538 "

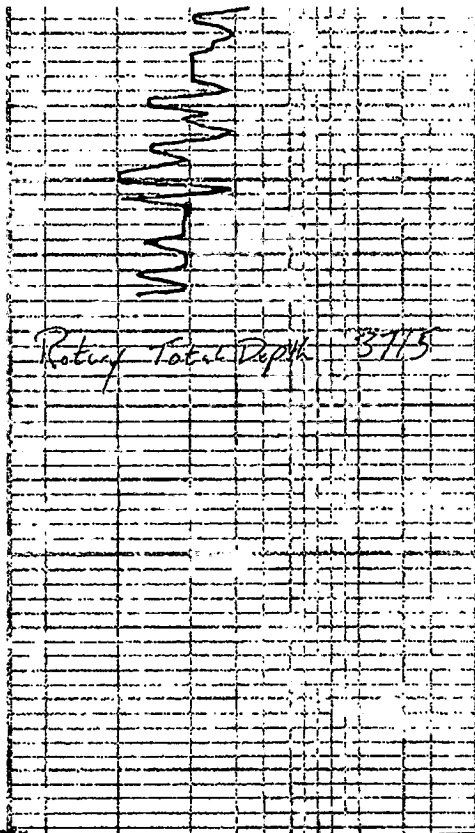
DST #2 3367-3403
 70-95-45-60
 Blow Strong OBB in 10 min
 GTS in 20 min
 No blow back
 Blow Strong OBB in 20 min
 Weak blowback
 Recovery 68' MO
 (9% oil 3% water 7% ml)



25' ten-cm fine dense fr	35 MO (93% oil 3% water 4% mud)
poorly sorted - blk. to brown sh. to fo	as gaged as follows
	Final flow
	5 min 41,000 CF/D
25' ten-cm grey fxl clay	41,000 "
input poorly sorted to ten fxl	41,000 "
sh. to fo. sh. above	41,000 "
	Pressure ISIP 807 PSI
	FSIP 807 "
	FFP 24-62 "
	FFP 35-56 "
	HSI 1602 "
	-1576 "
25' ten-cm grey fxl base	DST #3 3910-3971
2' poor 1/2 s	30-30-30-30
	Blow weak - none
	Recovery 1.5' mud fr
	oil specks
greyish green-grey shale	Pressure ISIP 57 PSI
micro in part	FSIP 56 "
	IFP 8-21 "
	FFP 29-36 "
	HSI 1639 "
	-1620 "
10' blk sh. to fo. fxl	DST #4 3473-3530
1/2' chert soft Mar-grey sh	30-30-30-30
to sand; chert - poorly sorted	Blow weak 3 1/2 "
	Recovery 5' mud
	Pressure ISIP 36 PSI
	FSIP 27 "
	FFP 10-14 "
	FFP 15-17 "
	HSI 1657 "
	-1657 "
chert 1/2' grey crin base	DST #5 3546-3588
semi-trip blk sh. to fo. sh. above	30-45-45-60
	Blow strong OBB in basin
	8" blowback
	Final; OBB in 6 1/2 min
	OBB blowback
	Recovery; 107' GIP
	63' CO
	387 MO
shaly grey-green micro in part	Pressure ISIP 962 PSI
face shaly crin. base - ten fxl sh. to fo	FSIP 955 "
side rounded sh. to 1 1/2' blk sh. to fo	IFP 30-89 "
sh. above	FFP 110-170 "
	HSI 1644 "
	-1659 "
shaly grey-green micro in part	DST #6 3588-3600
face shaly crin. base - ten fxl sh. to fo	70-45-45-60
side rounded sh. to 1 1/2' blk sh. to fo	Blow strong OBB in basin
sh. above	11" blowback
	Final strong OBB in 2 1/2 min
	bob blowback, 975
	Recovery; 1134' GIP
	120' GIP
	Pressure ISIP 785 PSI
	FSIP 820 "
	IFP 149-284 "
	FFP 326-447 "
	HSI 1712 "
	-1710 "
dolomite grey crin. base	DST #7 3600-3612
poorly sorted dense 1/2 s shale	70-45-45-60

80

700



Co. 4 G.F. - W.M. 00000

20 - 70 1"

dist. - 1/2 in - 1/2 in - 1/2 in - 1/2 in
suc. drive for 1/2 in (bore)

Blow - Strong OBB in 30 sec
BOS blowback

fish - grey A

Final OBB in 3 1/2 min
4" blowback

detonite - aa 1/3

Recovery 1600' G.P.
660' C.G.
120' G.M.A.

Pressure: ISIP 520 PSI
FSIP 621 "
1st FF 117-218 "
FFP 231-287 "
HSH 7714 "
-1716

DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact

L.D. DAVIS

Well Name

BERNICE 2-23

Unique Well ID

DST#1 3224-3314 LANS. A-F

Surface Location

SEC.23-21S-12W STAFFORD CO. KS.

Field

WILDCAT

Well Type

Vertical

Job Number

M049

Representative

MIKE COCHRAN

Well Operator

L.D. DRLG

Report Date

2010/11/14

Prepared By

MIKE COCHRAN

Test Information

Test Type

CONVENTIONAL

Formation

DST#1 3224-3314 LANS. A-F

Well Fluid Type

01 Oil

Test Purpose (AEUB)

Start Test Time

Final Test Time

07:52:00

Start Test Date

Final Test Date

2010/11/14

Gauge Name

30037

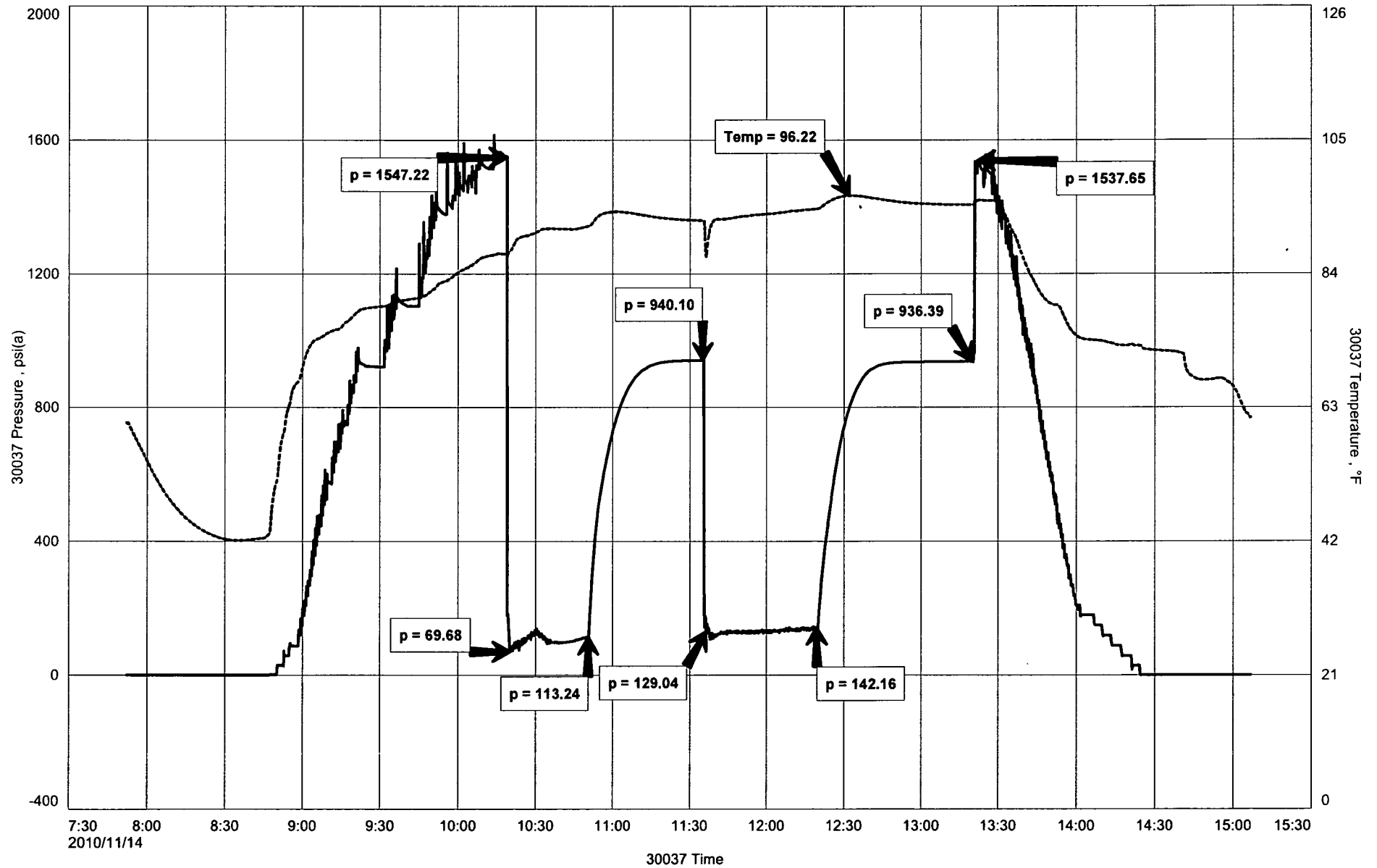
Test Type Name

Test Results

RECOVERED: 171' GOSM 22% GAS, 2% OIL SCUM, 1% WTR, 75% MUD
126' GHOCM 20% GAS, 48% OIL, 20 % WTR, 12% MUD
120' GMCO 26% GAS, 53% OIL, 13% WTR, 8% MUD
417' TOTAL FLUID

TOOL SAMPLE: GAS

BERNICE 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-15DST1

TIME ON: 07:52
TIME OFF: 15:07

Company L.D. DRLG Lease & Well No. BERNICE 2-23
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1831 GL EST Formation LANS. A-F Effective Pay _____ Ft. Ticket No. M049
Date 11-14-2010 Sec. 23 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 3224 ft. to 3314 ft. Total Depth 3314 ft.
Packer Depth 3219 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3224 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3213 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3311 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 60 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3079 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 90 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: BOB RIGHT AWAY, GTS 10 MIN GAS BURNED NICELY (1"BB)
2nd Open: BOB RIGHT AWAY (BOB BB)

Recovered 171 ft. of GOSM, 22% GAS, 2% OIL SCUM, 1% WTR, 75% MUD
Recovered 126 ft. of GHOCM, 20% GAS, 48% OIL, 20% WTR, 12% MUD
Recovered 120 ft. of GMCO, 26% GAS, 53% OIL, 13% WTR, 8% MUD
Recovered 417 ft. of TOTAL FLUID

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

Time Set Packer(s) 10:20 A.M. P.M. Time Started Off Bottom 1:20 P.M. A.M. P.M. Maximum Temperature 96
Initial Hydrostatic Pressure..... (A) 1547 P.S.I.
Initial Flow Period..... Minutes 30 (B) 70 P.S.I. to (C) 113 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 940 P.S.I.
Final Flow Period..... Minutes 45 (E) 129 P.S.I. to (F) 142 P.S.I.
Final Closed In Period..... Minutes 60 (G) 936 P.S.I.
Final Hydrostatic Pressure..... (H) 1538 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact L.D. DAVIS
Well Name BERNICE 2-23
Unique Well ID DST#2 3367-3403 LANS H
Surface Location SEC.23-21S-12W STAFFORD CO. KS.
Field WILDCAT
Well Type Vertical

Job Number M050
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/11/15
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#2 3367-3403 LANS H
Well Fluid Type 01 Oil
Test Purpose (AEUB)

Start Test Time 23:32:00
Final Test Time 07:03:00

Start Test Date 2010/11/14
Final Test Date 2010/11/15

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 68' MO 90% OIL, 3% WTR, 7% MUD
85' GMCO 6% GAS, 56% OIL, 4% WTR, 34% MUD
35' MO 93% OIL, 3% WTR, 4% MUD
188' TOTAL FLUID

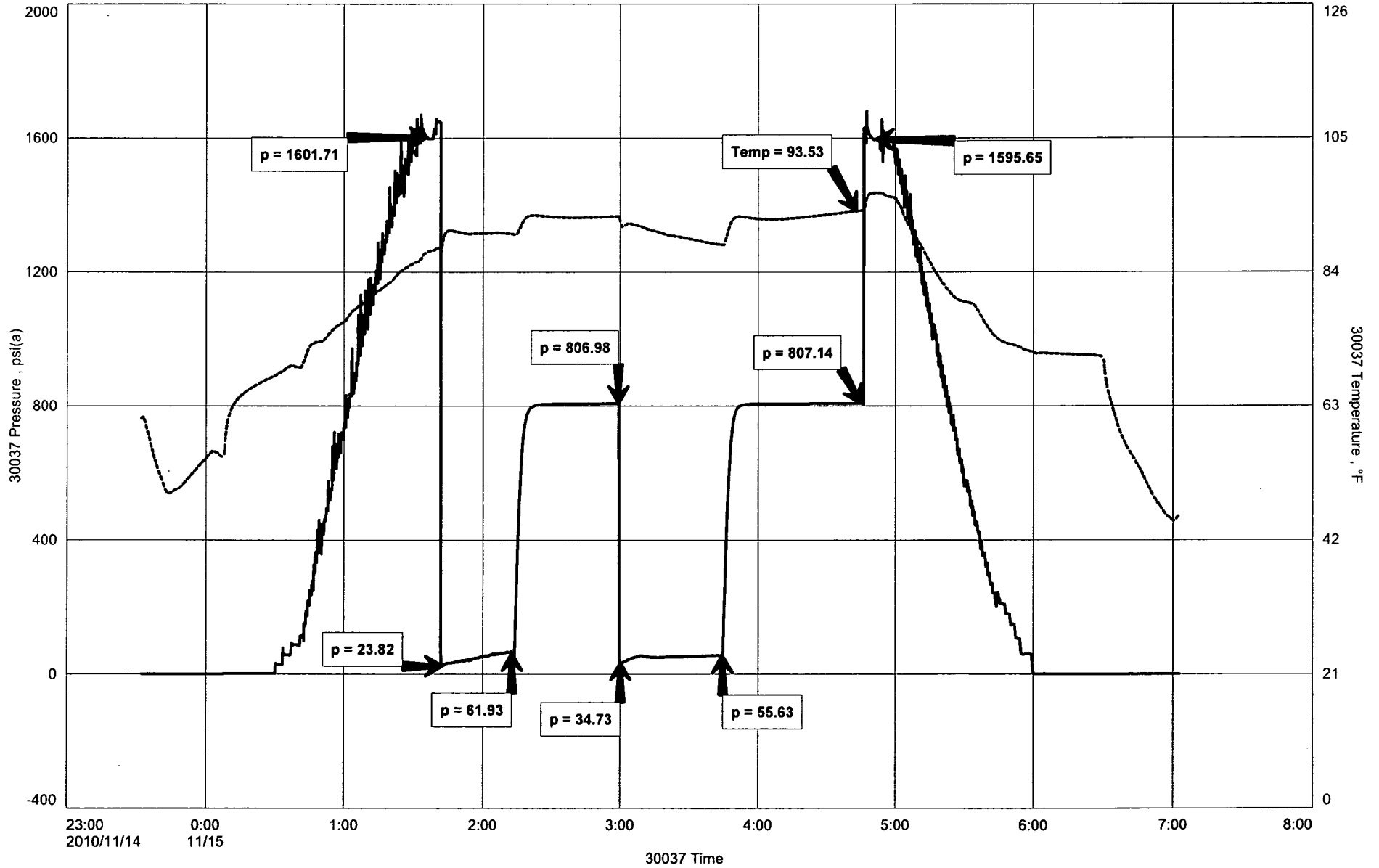
GRAVITY 33.6 @ 60 DEG

TOOL SAMPLE: GAS

L.D. DRLG
DST#2 3367-3403 LANS H
Start Test Date: 2010/11/14
Final Test Date: 2010/11/15

BERNICE 2-23
Formation: DST#2 3367-3403 LANS H
Pool: WILDCAT
Job Number: M050

BERNICE 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-15DST2

TIME ON: 23:32 (11-14)
TIME OFF: 07:03 (11-15)

Company L.D. DRLG Lease & Well No. BERNICE 2-23
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1831 GL EST Formation LANS. H Effective Pay _____ Ft. Ticket No. M050
Date 11-15-2010 Sec. 23 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 3367 ft. to 3403 ft. Total Depth 3403 ft.
Packer Depth 3362 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3367 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3356 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 60 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3222 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 36 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: WSB, BOB 1 MIN. GTS 20 MIN. (NO BB)
2nd Open: SSB, BOB 30 SEC. (WEAK BB)

Recovered 68 ft. of MO 90% OIL, 3% WTR, 7% MUD
Recovered 85 ft. of GMCO 6% GAS, 56% OIL, 4% WTR, 34% MUD
Recovered 35 ft. of MO 93% CLEAN OIL, 3% WTR, 4% MUD
Recovered 188 ft. of TOTAL FLUID

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

Time Set Packer(s) 1:40 A.M. A.M. P.M. Time Started Off Bottom 4:40 A.M. A.M. P.M. Maximum Temperature 94
Initial Hydrostatic Pressure..... (A) 1602 P.S.I.
Initial Flow Period..... Minutes 30 (B) 24 P.S.I. to (C) 62 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 807 P.S.I.
Final Flow Period..... Minutes 45 (E) 35 P.S.I. to (F) 56 P.S.I.
Final Closed In Period..... Minutes 60 (G) 807 P.S.I.
Final Hydrostatic Pressure..... (H) 1596 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact

L.D. DAVIS

Well Name

BERNICE 2-23

Unique Well ID

DST#3 3410-3471 LKC I,J,K

Surface Location

SEC.23-21S-12W STAFFORD CO. KS.

Field

WILDCAT

Well Type

Vertical

Job Number

M051

Representative MIKE COCHRAN

Well Operator L.D. DRLG

Report Date 2010/11/15

Prepared By MIKE COCHRAN

Test Information

Test Type

CONVENTIONAL

Formation

DST#3 3410-3471 LKC I,J,K

Well Fluid Type

01 Oil

Test Purpose (AEUB)

Start Test Time 15:56:00

Final Test Time 21:44:00

Start Test Date

2010/11/15

Final Test Date

2010/11/15

Gauge Name

30037

Test Type Name

Test Results

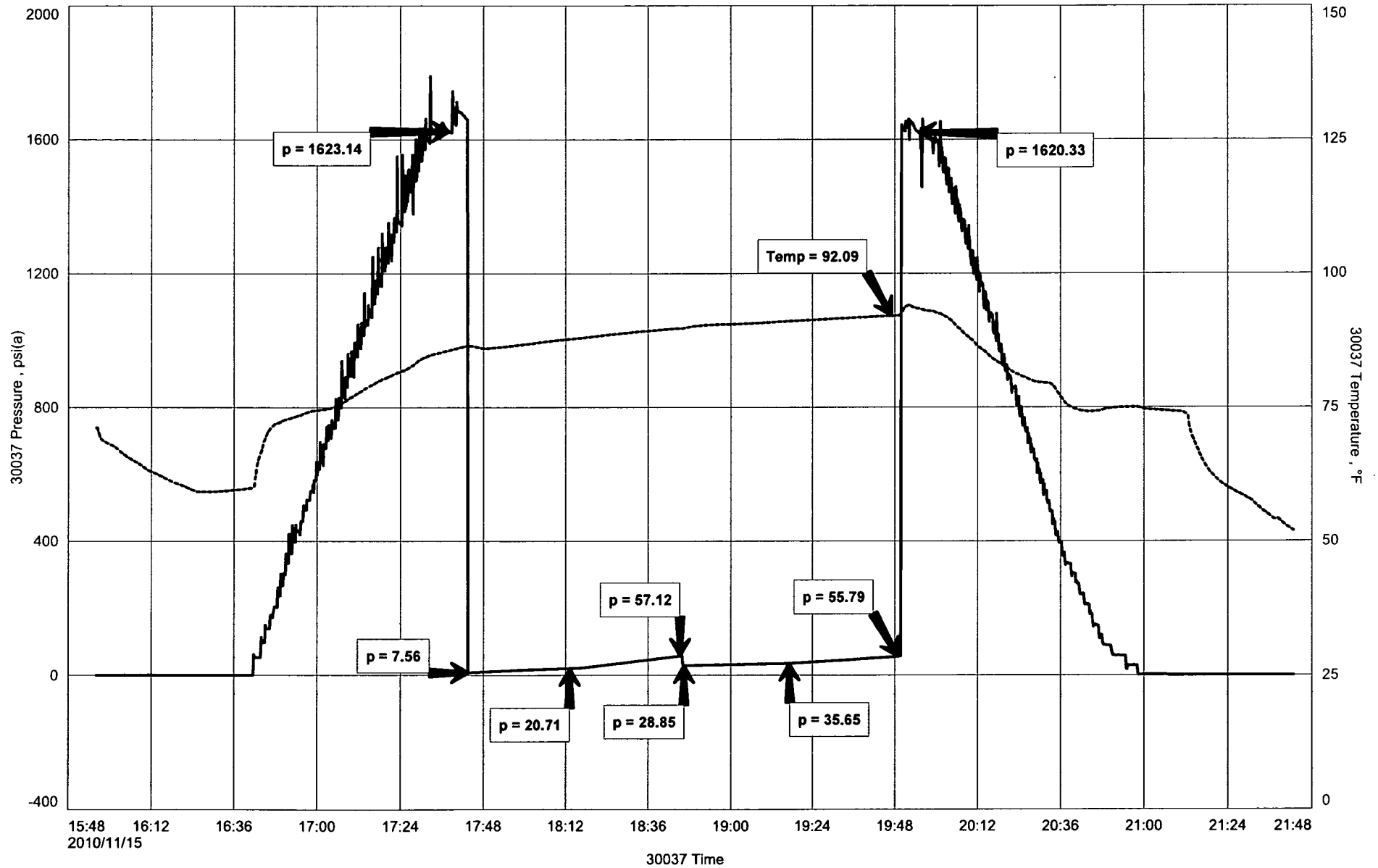
RECOVERED: 15' DRLG MUD W/ FEW OIL SPECKS
15' TOTAL FLUID

TOOL SAMPLE: DRLG MUD W/ OIL SPOTS

L.D. DRLG
DST#3 3410-3471 LKC I,J,K
Start Test Date: 2010/11/15
Final Test Date: 2010/11/15

BERNICE 2-23
Formation: DST#3 3410-3471 LKC I,J,K
Pool: WILDCAT
Job Number: M051

BERNICE 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-15DST3

TIME ON: 15:56

TIME OFF: 21:44

Company L.D. DRLG Lease & Well No. BERNICE 2-23

Contractor PETROMARK RIG 2 Charge to L.D. DRLG

Elevation 1876 KB Formation LKC I,J,K Effective Pay _____ Ft. Ticket No. MO51

Date 11-15-2010 Sec. 23 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 3410 ft. to 3471 ft. Total Depth 3471 ft.

Packer Depth 3405 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3410 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3399 ft. Recorder Number 30037 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3468 ft. Recorder Number 13386 Cap. 3,875 P.S.I.

Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 6,000 P.P.M. Drill Pipe Length 3265 ft. I.D. 3 1/2 in.

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

Did Well Flow? NO Reversed Out NO Anchor Length 61 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: WSB, BUILT TO 1 1/2" (NOBB)

2nd Open: NO BLOW (NO BB)

Recovered 15 ft. of DRLG MUD W/ FEW OIL SPECKS

Recovered 15 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: DRLG MUD W/ OIL SPOTS

Time Set Packer(s) 5:45 P.M. A.M. P.M. Time Started Off Bottom 7:45 P.M. A.M. P.M. Maximum Temperature 92

Initial Hydrostatic Pressure..... (A) 1623 P.S.I.

Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 57 P.S.I.

Final Flow Period..... Minutes 30 (E) 29 P.S.I. to (F) 36 P.S.I.

Final Closed In Period..... Minutes 30 (G) 56 P.S.I.

Final Hydrostatic Pressure..... (H) 1620 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
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-15DST4

TIME ON: 04:36

TIME OFF: _____

Company L.D. DRLG Lease & Well No. BERNICE 2-23
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1876 KB Formation _____ Effective Pay _____ Ft. Ticket No. MO52
Date 11-16-2010 Sec. 23 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 3473 ft. to 3530 ft. Total Depth 3530 ft.

Packer Depth 3468 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3473 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3462 ft. Recorder Number 30037 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3527 ft. Recorder Number 13386 Cap. 3,875 P.S.I.

Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 6,000 P.P.M. Drill Pipe Length 3328 ft. I.D. 3 1/2 in.

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

Did Well Flow? NO Reversed Out NO Anchor Length 57 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: WSB, BUILD TO 3/4" (NO BB)

2nd Open: WSB, MAINTAINED 1/4" BLOW

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: _____ Total _____

Time Set Packer(s) 6:45 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 8:45 A.M. ^{A.M.}/_{P.M.} Maximum Temperature _____

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

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

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

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

Final Closed In Period..... Minutes 30 (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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact L.D. DAVIS
Well Name BERNICE 2-23
Unique Well ID DST#4 3473-3530 CONGL-VIOLA
Surface Location SEC.23-21S-12W STAFFORD CO. KS.
Field WILDCAT
Well Type Vertical

Job Number M052
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/11/16
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#4 3473-3530 CONGL-VIOLA
Well Fluid Type 01 Oil
Test Purpose (AEUB)

Start Test Time 04:36:00
Final Test Time 10:41:00

Start Test Date 2010/11/16
Final Test Date 2010/11/16

Gauge Name 30037
Test Type Name

Test Results

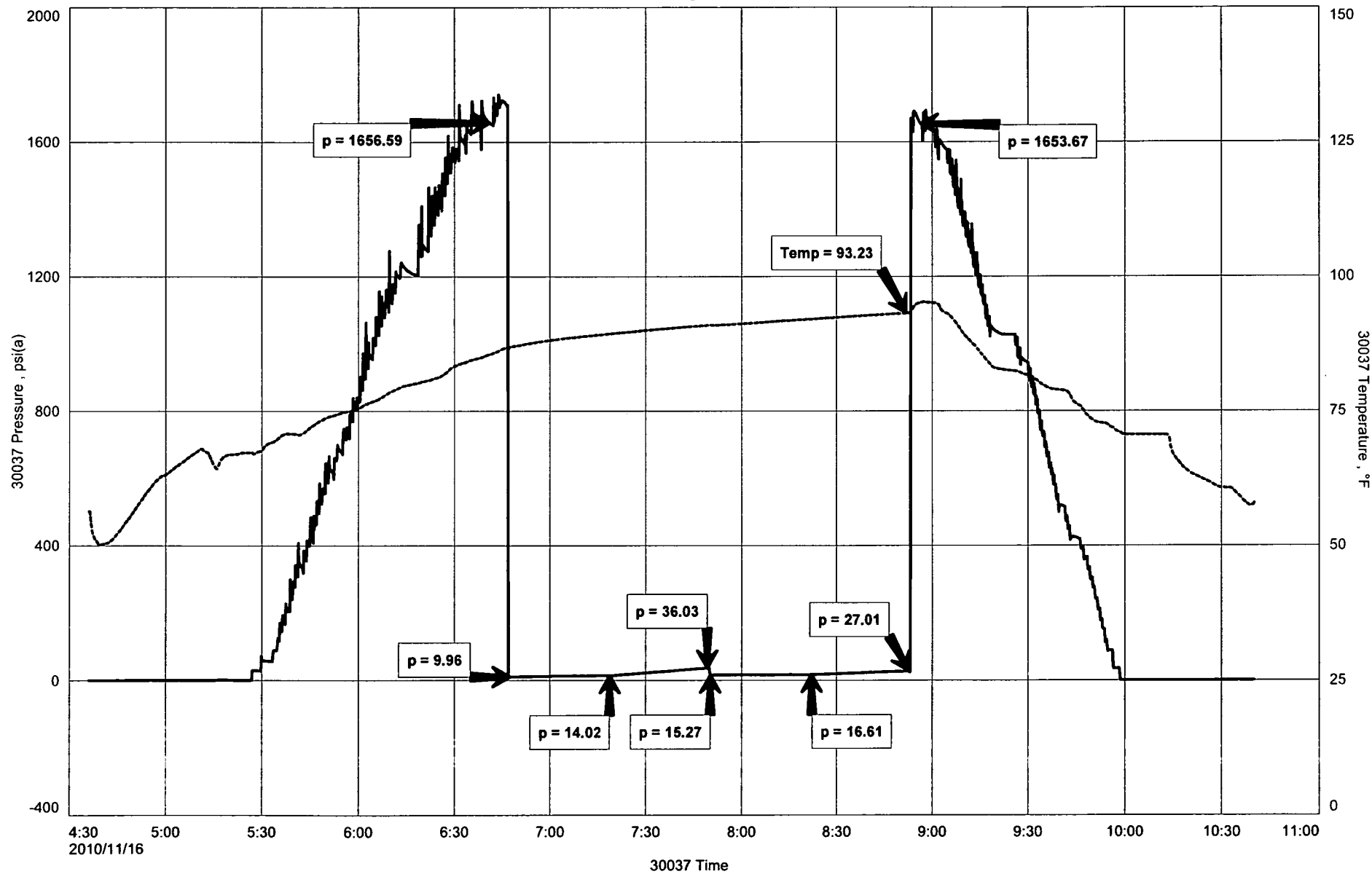
RECOVERED: 5' DRLG MUD
5' TOTAL FLUID

TOOL SAMPLE: DRLG MUD W/ VERY FEW SPECKS OF OIL

L.D. DRLG
DST#4 3473-3530 CONGL-VIOLA
Start Test Date: 2010/11/16
Final Test Date: 2010/11/16

BERNICE 2-23
Formation: DST#4 3473-3530 CONGL-VIOLA
Pool: WILDCAT
Job Number: M052

BERNICE 2-23





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: BRNCE2-23DST5

TIME ON: 18:51 (11-16)
 TIME OFF: 02:07 (11-17)

Company L.D. DRLG Lease & Well No. BERNICE 2-23
 Contractor PETROMARK RIG 2 Charge to L.D. DRLG
 Elevation 1876 KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. MO53
 Date 11-16-2010 Sec. 23 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 3540 ft. to 3588 ft. Total Depth 3588 ft.
 Packer Depth 3535 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3540 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3529 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3585 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
 Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
 Mud Type CHEMICAL Viscosity 61 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 9.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 8,400 P.P.M. Drill Pipe Length 3395 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 48 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 6 MIN. (8" BB)
 2nd Open: GSB, BOB 6 1/2 MIN (BOB BB)

Recovered 1071 ft. of G.I.P.
 Recovered 63 ft. of CLEAN OIL
 Recovered 267 ft. of GMO 6% GAS, 80% OIL, 14% MUD
 Recovered 120 ft. of GMO 4% GAS, 82% OIL, 14% MUD

Recovered <u>450</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE:	Total

Time Set Packer(s) 8:30 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 11:30 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 105
 Initial Hydrostatic Pressure..... (A) 1694 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 30 P.S.I. to (C) 99 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 962 P.S.I.
 Final Flow Period..... Minutes 45 (E) 110 P.S.I. to (F) 170 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 955 P.S.I.
 Final Hydrostatic Pressure..... (H) 1689 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact L.D. DAVIS
Well Name BERNICE 2-23
Unique Well ID DST#5 3540-3588 ARB
Surface Location SEC.23-21S-12W STAFFORD CO. KS.
Field WILDCAT
Well Type Vertical

Job Number M053
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/11/17
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#5 3540-3588 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB)

Start Test Time 18:51:00
Final Test Time 02:07:00

Start Test Date 2010/11/16
Final Test Date 2010/11/14

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 1071' G.I.P.
63' CO
267' GMO 6% GAS, 80% OIL, 14% MUD
120' GMO 4% GAS, 82% OIL, 14% MUD

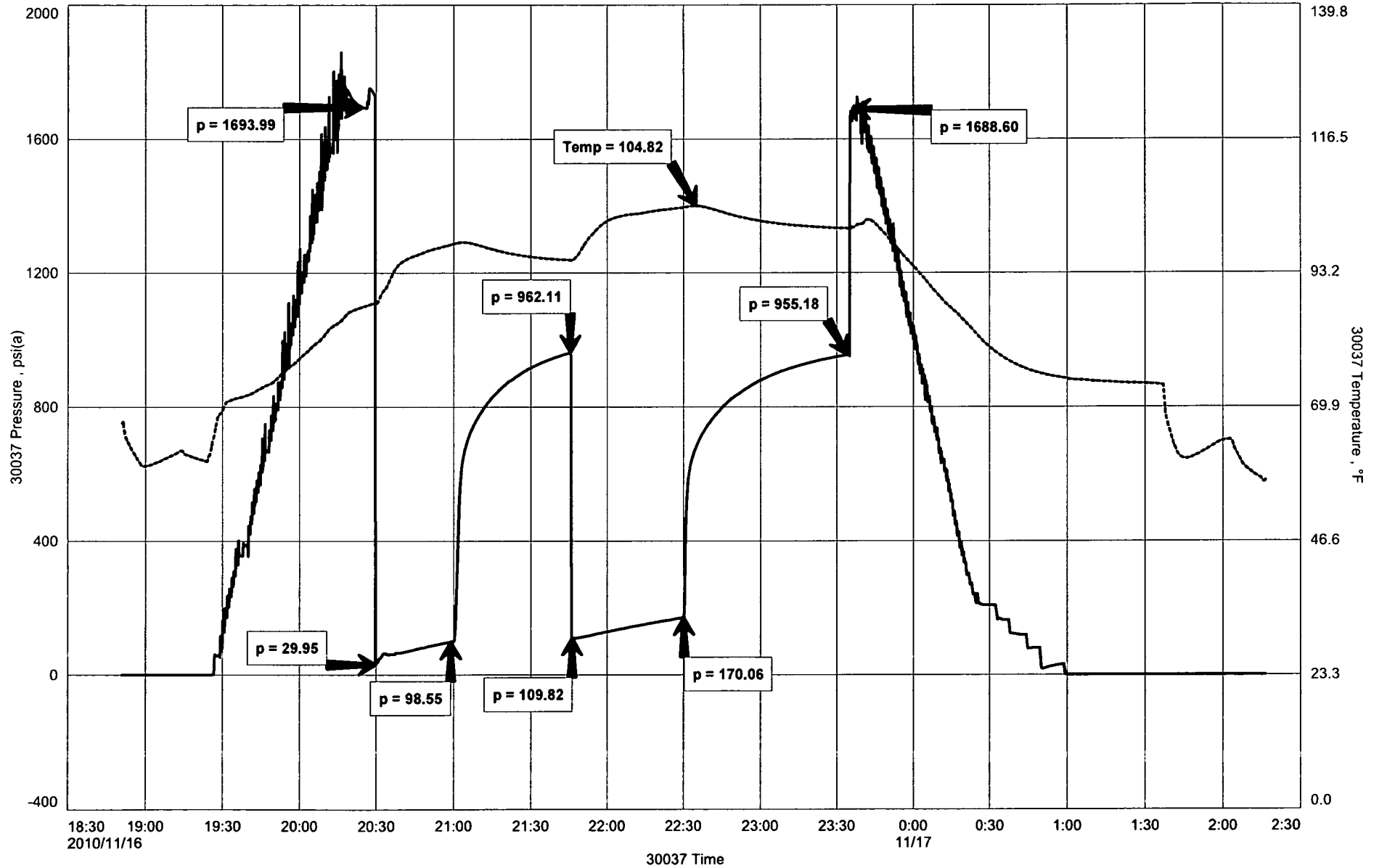
GRAVITY: 41.0 @ 60 DEG

TOOL SAMPLE: 100% CLEAN OIL

L.D. DRLG
DST#5 3540-3588 ARB
Start Test Date: 2010/11/16
Final Test Date: 2010/11/14

BERNICE 2-23
Formation: DST#5 3540-3588 ARB
Pool: WILDCAT
Job Number: M053

BERNICE 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-23DST6

TIME ON: 07:48

TIME OFF: 15:02

Company L.D. DRLG Lease & Well No. BERNICE 2-23

Contractor PETROMARK RIG 2 Charge to L.D. DRLG

Elevation 1876 KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. MO54

Date 11-17-2010 Sec. 23 Twp. 21 S Range 12 W County STAFFORD State KANSAS

Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 6 Interval Tested from 3588 ft. to 3600 ft. Total Depth 3600 ft.

Packer Depth 3583 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3588 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3577 ft. Recorder Number 30037 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3597 ft. Recorder Number 13386 Cap. 3,875 P.S.I.

Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

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

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

Chlorides _____ P.P.M. Drill Pipe Length 3443 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number NA 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. (11" BB)

2nd Open: GSB, BOB 2 1/2 MIN GTS ON SHUT-IN (BOB BB)

Recovered 1134 ft. of GFO 2% GAS, 98% OIL

Recovered 120 ft. of GMO 6% GAS, 80% OIL, 14% MUD

Recovered 1254 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 100% GASSY OIL

Time Set Packer(s) 9:25 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 12:25 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 110

Initial Hydrostatic Pressure..... (A) 1712 P.S.I.

Initial Flow Period..... Minutes 30 (B) 149 P.S.I. to (C) 284 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 785 P.S.I.

Final Flow Period..... Minutes 45 (E) 326 P.S.I. to (F) 447 P.S.I.

Final Closed In Period..... Minutes 60 (G) 820 P.S.I.

Final Hydrostatic Pressure..... (H) 1710 P.S.I.

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DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact L.D. DAVIS
Well Name BERNICE 2-23
Unique Well ID DST#6 3588-3600 ARB
Surface Location SEC.23-21S-12W STAFFORD CO. KS.
Field WILDCAT
Well Type Vertical

Job Number M050
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/11/17
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#6 3588-3600 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB)

Start Test Time 07:48:00
Final Test Time 15:02:00

Start Test Date 2010/11/17
Final Test Date 2010/11/17

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 1134' GFO 2% GAS, 98% OIL
120' GMO 6% GAS, 80% OIL, 14% MUD
1254' TOTAL FLUID

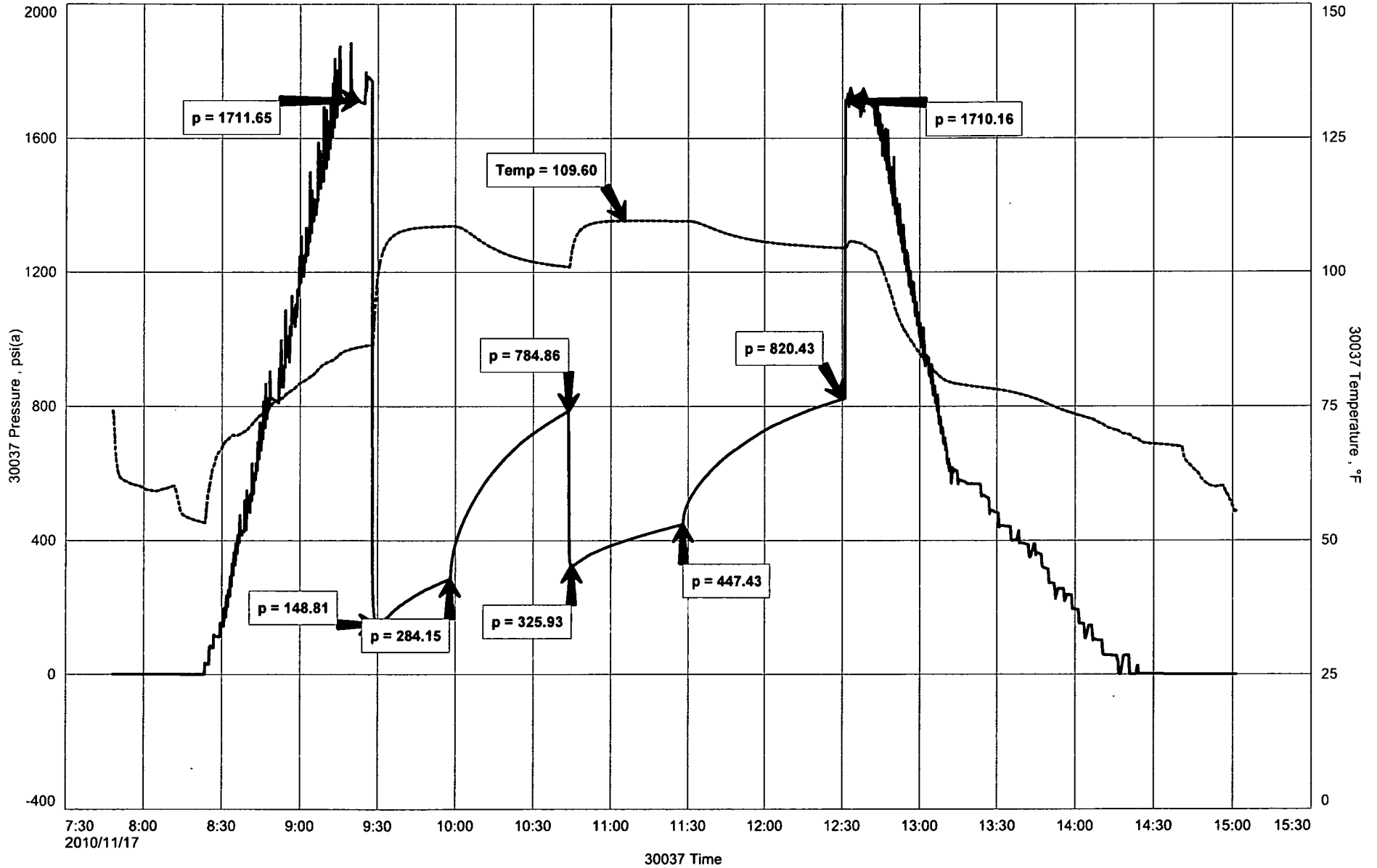
GRAVITY: 39.8 @ 60 DEG.

TOOL SAMPLE: 100% GASSY OIL

L.D. DRLG
DST#6 3588-3600 ARB
Start Test Date: 2010/11/17
Final Test Date: 2010/11/17

BERNICE 2-23
Formation: DST#6 3588-3600 ARB
Pool: WILDCAT
Job Number: M050

BERNICE 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BRNCE2-23DST7

TIME ON: 20:09 (11-17)
TIME OFF: 05:07 (11-18)

Company L.D. DRLG Lease & Well No. BERNICE 2-23
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1876 KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. MO55
Date 11-17-2010 Sec. 23 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 7 Interval Tested from 3600 ft. to 3612 ft. Total Depth 3612 ft.
Packer Depth 3595 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3600 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3589 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3609 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 70 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.0 Water Loss 12.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 18,000 P.P.M. Drill Pipe Length 3455 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NA 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 1/2 MIN (BOB BB)
2nd Open: GSB, BOB 3 1/2 MIN (4" BB)

Recovered 1606 ft. of G.I.P.
Recovered 660 ft. of GFO 2% GAS, 98% OIL
Recovered 120 ft. of GMO 6% GAS, 80% OIL, 14% MUD
Recovered 780 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>GRAVITY: 40.0 @ 60 DEG</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: GASSY OIL</u>	Total

Time Set Packer(s) 9:45 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 12:45 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 106
Initial Hydrostatic Pressure..... (A) 1719 P.S.I.
Initial Flow Period..... Minutes 30 (B) 117 P.S.I. to (C) 218 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 520 P.S.I.
Final Flow Period..... Minutes 45 (E) 231 P.S.I. to (F) 287 P.S.I.
Final Closed In Period..... Minutes 60 (G) 627 P.S.I.
Final Hydrostatic Pressure..... (H) 1716 P.S.I.

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DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact L.D. DAVIS
Well Name BERNICE 2-23
Unique Well ID DST#7 3600-3612ARB
Surface Location SEC.23-21S-12W STAFFORD CO. KS.
Field WILDCAT
Well Type Vertical

Job Number M050
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/11/17
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#7 3600-3612ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB)

Start Test Time 20:09:00
Final Test Time 05:07:00

Start Test Date 2010/11/17
Final Test Date 2010/11/18

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 1606 G.I.P
660' GFO 2% GAS, 98% OIL
120' GMO 6% GAS, 80% OIL, 14% MUD
780' TOTAL FLUID

GRAVITY: 40.0 @ 60 DEG

TOOL SAMPLE: GASSY OIL

L.D. DRLG
DST#7 3600-3612ARB
Start Test Date: 2010/11/17
Final Test Date: 2010/11/18

BERNICE 2-23
Formation: DST#7 3600-3612ARB
Pool: WILDCAT
Job Number: M050

BERNICE 2-23

