



1251375

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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 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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BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

1-65-18W

FIELD SERVICE TICKET
1718 12061 A

DATE _____ TICKET NO. _____

DATE OF JOB: 3-7-2015		DISTRICT: Prstrokes		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: LD Drilling, Inc.				LEASE: Betty				WELL NO: 3-1	
ADDRESS:				COUNTY: Rooks		STATE: KS			
CITY:		STATE:		SERVICE CREW: Darrin, Ed, Boschay					
AUTHORIZED BY:				JOB TYPE: CNW/8 5/8 SURFACE					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27463	1/2						3-6	AM	3:00
19862	1/4						3-6	AM	8:00
							3-7	AM	3:30
							3-7	PM	4:00
							3-7	AM	5:00
						MILES FROM STATION TO WELL	163		

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	
CP103	60140 P02	SK	300		3,600 00	
CC102	CELLULOSE	Lb	75		277 50	
CC109	Calcium Chloride	Lb	774		812 70	
E100	Unit Milsse Chsrse - pickups, SHUT USAR + CRJ	m/	100		450 00	
E101	Hesux Equipment + Milsse	m/	200		1500 00	
E113	Proppsat Sna Bulic Delivery chsrse PER 1000 m/	Th/n	1290		3225 00	
CF200	Depon Chsrse 10:500	4 hr	1		1,000 00	
CF240	Blending & mixing Service Chsrse	SK	300		420 00	
S003	Service SUPERVISOR, first 8 hrs on loc.	ES	1		175 00	
					SUB TOTAL	11,460 20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
		D.S. count	TOTAL 7,449 13

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.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>LD Drilling Inc</i>	Lease No.	Date <i>3-7-2015</i>
Lease <i>Berry</i>	Well # <i>3-1</i>	
Field Order # <i>2061</i>	Station <i>PR9 H, 1CS</i>	Casing <i>8 5/8</i>
Type Job <i>CNU 8 5/8 SURFACE</i>	Depth <i>350</i>	County <i>ROCKS</i>
	Formation <i>TD-350</i>	State <i>KS</i>
		Legal Description <i>1-63-18W</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>							
Depth <i>350</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>75</i>	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 <i>370</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>LICK</i>	Station Manager <i>Kevin Goleley</i>	Treater <i>Dsrin Frsnick</i>
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Service Units	<i>27283</i>	<i>27463</i>	<i>19960</i>	<i>19862</i>				
Driver Names	<i>Dsrin</i>	<i>Ed</i>	<i>Besch</i>	<i>Bosch</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:00pm</i>					<i>on location / safety meetings</i>
					<i>350' 8 5/8 casing</i>
					<i>300 sk 60/40 po2, 3%cc, 1/4 # cell flsk</i>
					<i>14.8 pps, 1.21 vclib, 5.18 water</i>
<i>3-7</i>					
<i>3:50pm</i>	<i>200</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>200</i>		<i>65</i>	<i>5</i>	<i>mix 300sk cement</i>
	<i>200</i>		<i>17</i>	<i>3</i>	<i>Displace</i>
<i>4:00</i>					<i>Shut in</i>
					<i>Cement die Circulate</i>
					<i>Job complete / Dsrin & crew</i>
					<i>Thank you!!!</i>



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 11512 A

DATE _____ TICKET NO. _____

DATE OF JOB: 03-14-15		DISTRICT: PA4H		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.O. Dady				LEASE: Betty 3/1				WELL NO.:			
ADDRESS:				COUNTY: Rooks		STATE: KS					
CITY:				SERVICE CREW: Sullivan, Eppind, Beachy, S. Smith		JOB TYPE: CWV 5 1/2 L.S.					
AUTHORIZED BY:				EQUIPMENT#		HRS		EQUIPMENT#		HRS	
20920		95						TRUCK CALLED		DATE: 3-13-15 AM 4:30	
19862		20						ARRIVED AT JOB		DATE: 3-13-15 AM 11:00	
19860		35						START OPERATION		DATE: 3-14-15 AM 12:55	
								FINISH OPERATION		PM 3:45	
								RELEASED		PM 4:30	
								MILES FROM STATION TO WELL		100	

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: Rob W. L.
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 cmt	SK	150		2,550.00
CP 101	A-con - Blend - cmt	SK	215		3,870.00
CP 103	60/40 per cmt	SK	50		600.00
CC 102	cell fake	lb	38		140.60
CC 171	SALT	lb	816		408.00
CC 113	Gypsum	lb	705		528.75
CC 129	ZnA-322	lb	113		847.50
CC 201	Dil sulfate	lb	900		603.00
CC 102	cell fake	lb	54		199.80
CC 109	calum chloride	lb	605		639.45
CF 401	Two Stage cmt collar 5 1/2	SA	1		4,100.00
CF 601	Latex down 4 1/2 - 8 1/2	SA	1		550.00
CF 1251	Auto 5 1/2 Hook Shoe	SA	1		360.00
CF 1051	Turbidometer	SA	4		460.00
CF 1901	Basket	SA	3		270.00
CC 151	MUD Flok	gal	4,000		1,500.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <u>Robert J. L.</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Rob W. L.</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>L.O. Drilling</i>	Lease No. <i>3-1</i>	Date <i>03-14-15</i>
Lease <i>Betty</i>	Well # <i>3-1</i>	
Field Order # <i>11512</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>
		Depth <i>3328</i>
Type Job <i>CNW 5 1/2 Two Stage</i>	Formation	County <i>ROOKS</i>
		State <i>KS</i>
		Legal Description <i>1-6-18</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shot/El		Acid		RATE	PRESS	ISIP
<i>5 1/2</i>	<i>5 1/2</i>	<i>OV TOOL</i>		Pre Pad	Max			5 Min.
Depth <i>3328</i>	Depth <i>1363</i>	From	To	Pad	Min			10 Min.
Volume <i>19</i>	Volume <i>32</i>	From	To	Frac	Avg			15 Min.
Max Press <i>2500</i>	Max Press	From	To					
Well Connection <i>P.C</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>3315</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
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Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19903</i>	<i>19860</i>	<i>19960</i>	<i>19862</i>				
Driver Names	<i>Sullivan</i>	<i>Egan</i>		<i>S. mtd</i>		<i>Beachy</i>					

Time	Casing Pressure	Tubing Pressure	Bbts. Pumped	Rate	Service Log
<i>11:00 AM</i>					<i>on loc</i>
					<i>OV TOOL @ 1363'</i>
					<i>Run 5 1/2 csg. w/ Two stage Tool</i>
					<i>CASING on bottom</i>
<i>11:50</i>					<i>Hook Dip circ csg</i>
<i>12:55</i>			<i>24</i>	<i>3</i>	<i>St mud Hub</i>
			<i>7</i>		<i>At SPACER</i>
				<i>4.5</i>	<i>mix cont 150 sk AA-2 cont @ 14.8 pps</i>
			<i>35</i>		<i>cont mixed shut down, wash pump, Live</i>
					<i>Release Plug</i>
			<i>50</i>	<i>5</i>	<i>St Dip w/ H₂O</i>
			<i>29</i>		<i>ST MUD DIL</i>
				<i>3.5</i>	<i>Left</i>
<i>2:15</i>	<i>1500</i>		<i>29</i>		<i>Plug down</i>
					<i>Return Psi Check Heart</i>
<i>2:20</i>					<i>DROP DV OPENING TOOL</i>
<i>2:35</i>	<i>800</i>				<i>OPEN DV TOOL</i>
			<i>7</i>		<i>Plug Ret</i>
					<i>Run circ csg</i>

BASIC

energy services, L.P.

TREATMENT REPORT

TOP STAGE

Customer <i>L.O. Only</i>	Lease No.	Date
Lease <i>Beth</i>	Well # <i>3-1</i>	<i>03-14-15</i>
Field Order # <i>1512</i>	Station <i>Pratt 4</i>	Casing <i>5 1/2</i>
Type Job <i>CNW 5 1/2 Lg</i>	Depth <i>1363'</i>	County <i>Rooks</i>
	Formation	Legal Description <i>1-3-18</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>5 1/2</i>				Pre Pad	Max		5 Min.
Depth <i>1363</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>32</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>2,500</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth	Packer Depth	From	To				

Customer Representative	Station Manager <i>Dave Smith</i>	Treater <i>Robert Jullian</i>
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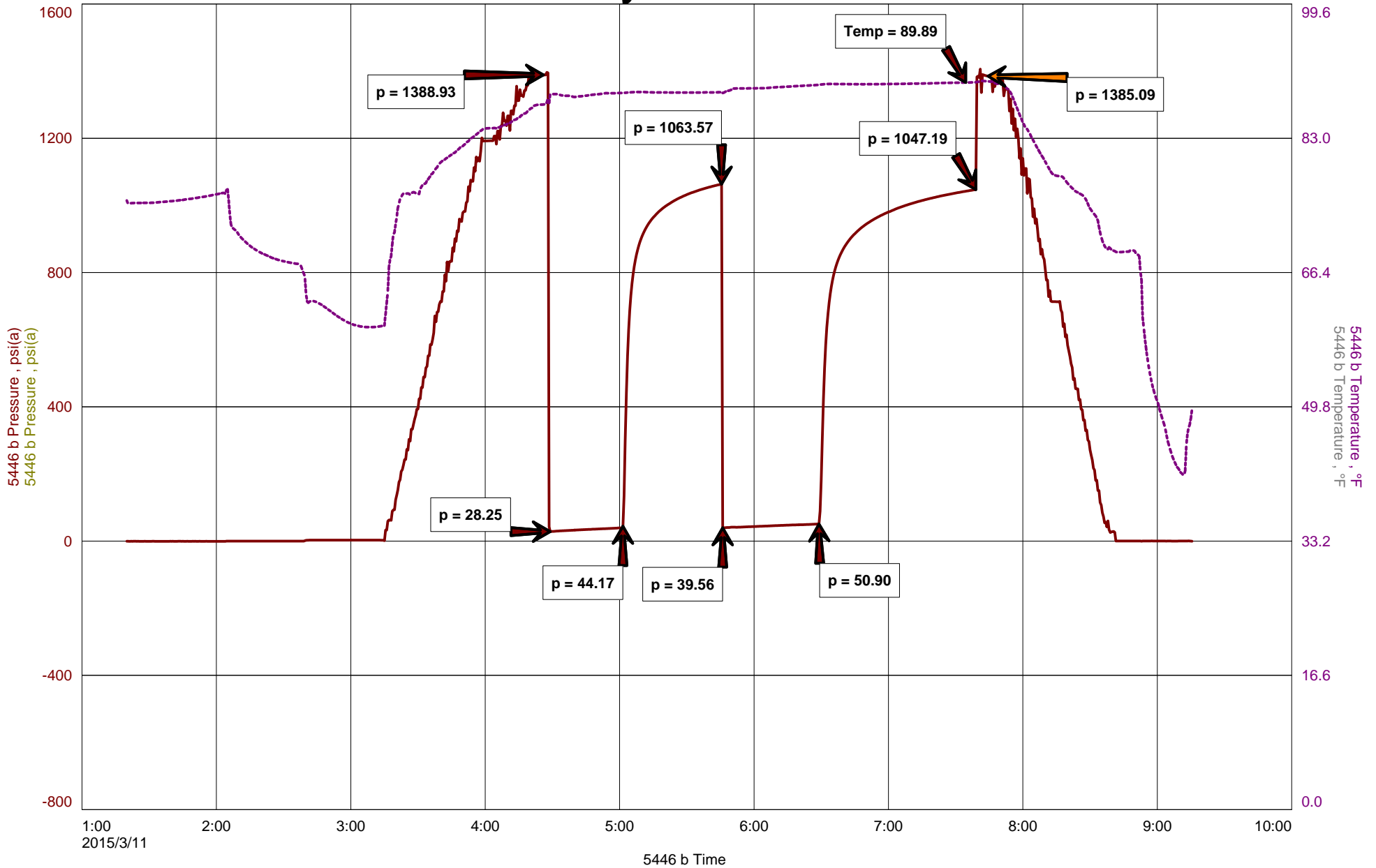
Service Units							
Driver Names							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:10</i>			<i>104</i>	<i>4.5</i>	<i>St mixing cont</i>
					<i>cont mixed shut down</i>
					<i>wash pump, line</i>
					<i>Release Plug</i>
			<i>32</i>	<i>4.5</i>	<i>St Dump</i>
					<i>plug down</i>
	<i>1350</i>				<i>Close DV Tool</i>
<i>3:45</i>	<i>1700</i>				<i>Check close - TRACE of cement</i>
					<i>circ @ 800 cont pit IN CELLAR</i>
					<i>SOB Complete TRACE cont Cellar</i>
					<i>Thank you</i>

LD Drilling
DST 1 Lower Topeka 2934-3004
Start Test Date: 2015/03/11
Final Test Date: 2015/03/11

Betty 3-1
Formation: Lower Topeka
Job Number: W174

Betty 3-1 DST 1





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name LD Drilling

Contact

Well Name

Unique Well ID

Surface Location

Field

Kim Shoemaker **Job Number**

W174

Betty 3-1 **Representative**

Wilbur Steinbeck

DST 1 Lower Topeka 2934-3004 **Well Operator**

LD

1-6s-18w Rooks/Kans **Report Date**

2015/03/11

Wildcat **Prepared By**

Wilbur Steinbeck

Qualified By

Kim Shoemaker

Test Information

Test Type

Conventional

Formation

Lower Topeka

Well Fluid Type

01 Oil

Test Purpose (AEUB)

Initial Test

Start Test Date

2015/03/11 **Start Test Time**

01:20:00

Final Test Date

2015/03/11 **Final Test Time**

09:20:00

Test Recovery

Recovery

75' Mud

75' Total Fluid

Tool Sample **Mud**

15' of fill in hole



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Betty 3-1 DST 1

TIME ON: 1:20
TIME OFF: 9:20

Company LD Drilling Lease & Well No. Betty
Contractor LD Charge to LD Drilling
Elevation 1872 KB Formation Lower Topeka Effective Pay _____ Ft. Ticket No. W174
Date 3-11-15 Sec. 1 Twp. 6 S Range 18 W County Rooks State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Wilbur Steinbeck

Formation Test No. 1 Interval Tested from 2934 ft. to 3004 ft. Total Depth 3004 ft.

Packer Depth 2929 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 2934 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2920 ft. Recorder Number 5446 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 2935 ft. Recorder Number 5965 Cap. 5,000 P.S.I.

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

Mud Type Chem Viscosity 60 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.6 Water Loss 5.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 400 P.P.M. Drill Pipe Length 2901 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? Yes Reversed Out No Anchor Length 70 ft. Size 4 1/2-FH in.

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

Blow: 1st Open: Built to 2" No Return

2nd Open: Built to 2 1/2" No Return

Recovered 75 ft. of Mud

Recovered 75 ft. of Total Fluid

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Tool Sample Mud

15' of fill in hole

Time Set Packer(s) 4:35 A.M. P.M. Time Started Off Bottom 7:35 A.M. P.M. Maximum Temperature 90

Initial Hydrostatic Pressure..... (A) 1389 P.S.I.

Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 44 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 1064 P.S.I.

Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 51 P.S.I.

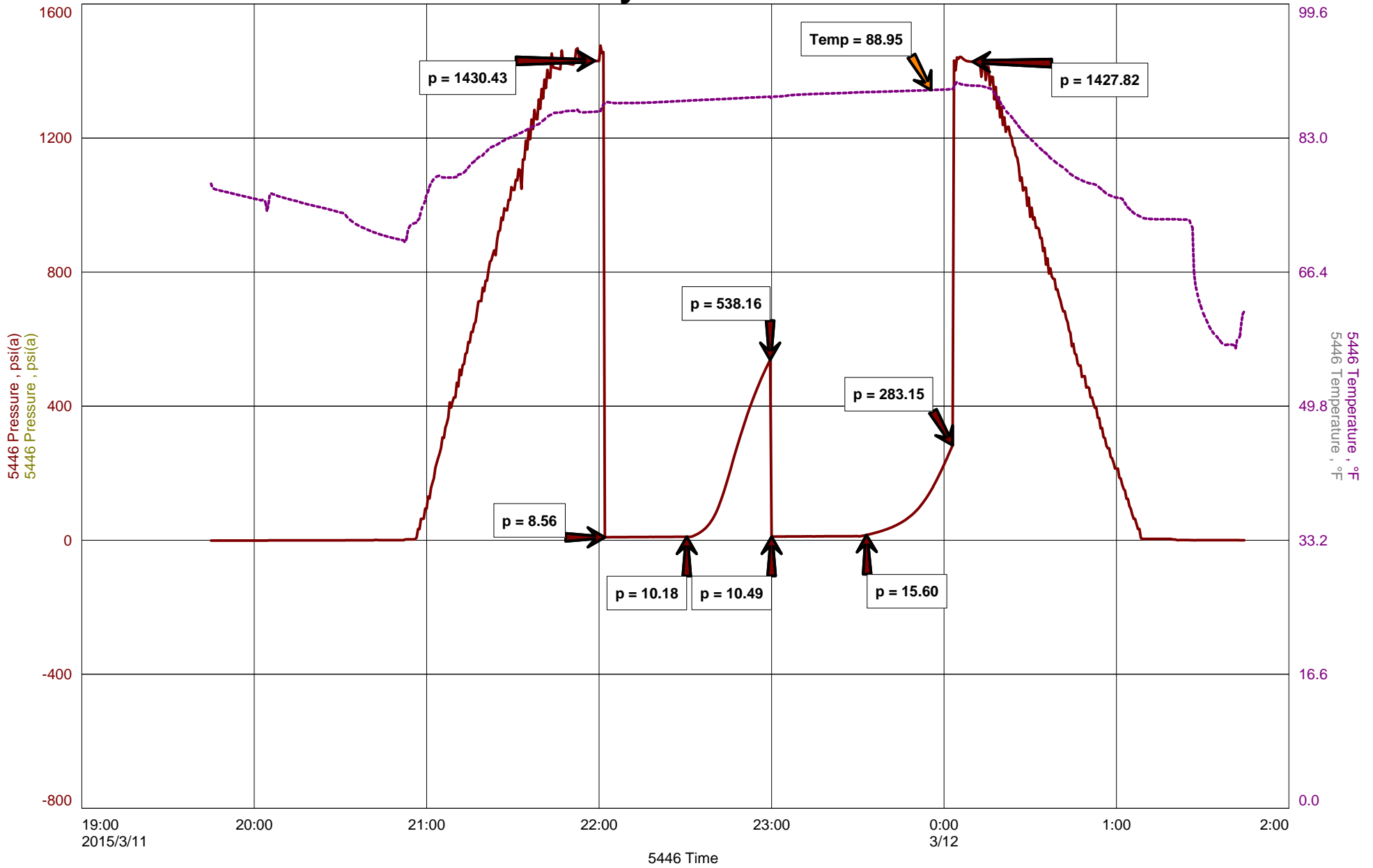
Final Closed In Period..... Minutes 60 (G) 1047 P.S.I.

Final Hydrostatic Pressure..... (H) 1385 P.S.I.

Remarks: Tool Sample <u>Mud</u> <u>15'</u> of fill in hole	Price Job
	Other Charges <u>216 Miles RT</u>
	Insurance
	Total

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.

Betty 3-1 DST 2





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W175
Contact		Betty 3-1	Representative	Wilbur Steinbeck
Well Name		DST 2 Lan A&B 3037-3099	Well Operator	LD
Unique Well ID		1-6s-18w Rooks/Kans	Report Date	2015/03/11
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional		
Formation	Lan A&B		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/03/11	Start Test Time	19:45:00
Final Test Date	2015/03/12	Final Test Time	01:45:00

Test Recovery

Recovery 5' Mud
 5' Total Fluid

Tool Sample Mud



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Betty 3-1 DST 2

TIME ON: 19:45
TIME OFF: 1:45

Company LD Drilling Lease & Well No. Betty 3-1
Contractor LD Charge to LD Drilling
Elevation 1872 KB Formation _____ Lan A&B Effective Pay _____ Ft. Ticket No. W175
Date 3-11-15 Sec. 1 Twp. _____ 6 S Range _____ 18 W County _____ Rooks State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 2 Interval Tested from 3037 ft. to 3099 ft. Total Depth 3099 ft.
Packer Depth 3032 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3037 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3023 ft. Recorder Number 5446 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3038 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 3004 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 62 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Built to 1/2" No Return
2nd Open: No Blow No Return

Recovered 5 ft. of Mud
Recovered 5 ft. of Total Fluid
Recovered _____ ft. of _____
Recovered _____ ft. of _____

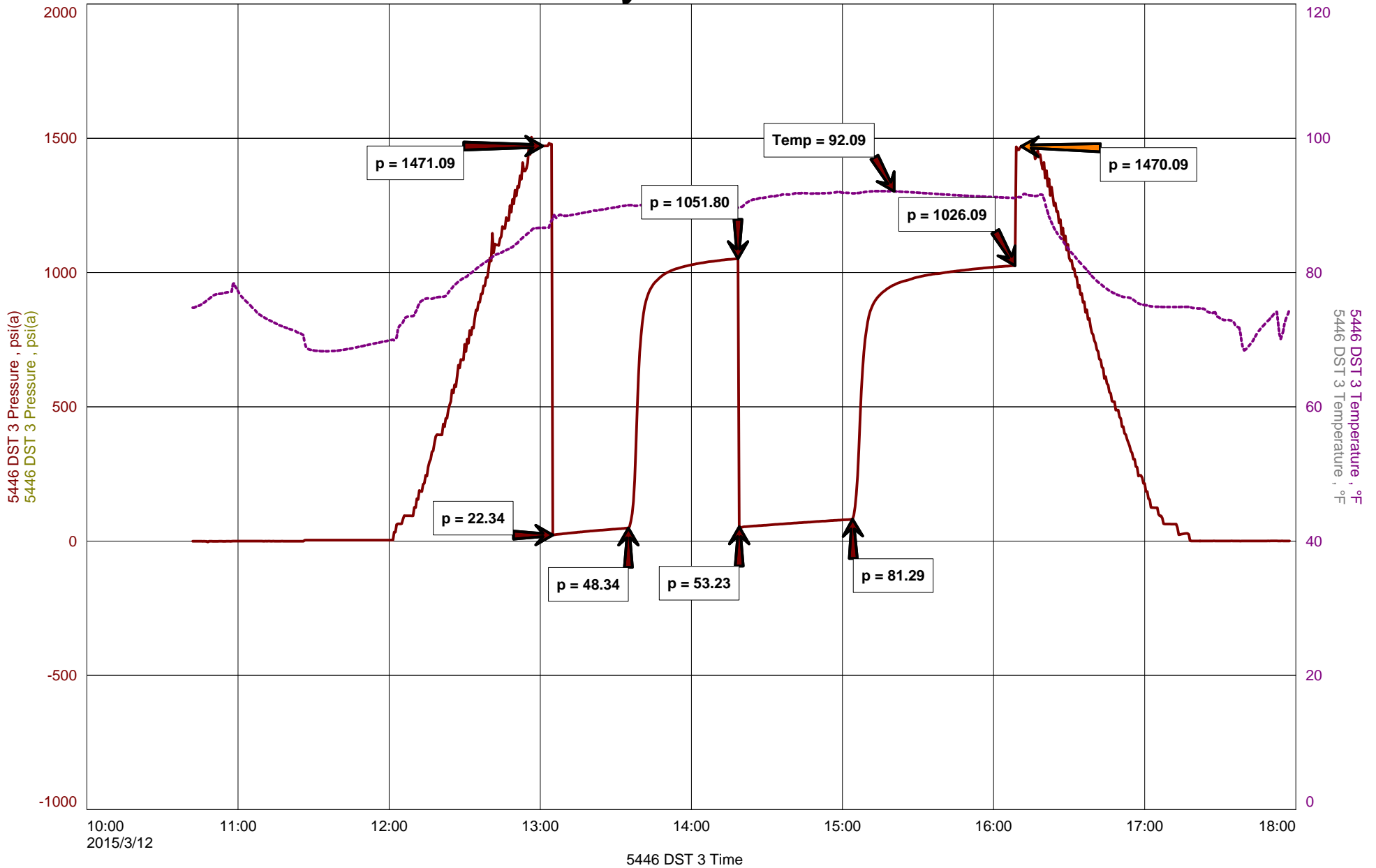
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	Total
Tool Sample <u>Mud</u>	

Time Set Packer(s) 22:00 A.M. P.M. Time Started Off Bottom 00:00 A.M. P.M. Maximum Temperature 89

Initial Hydrostatic Pressure..... (A) 1430 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 538 P.S.I.
Final Flow Period..... Minutes 30 (E) 10 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 30 (G) 283 P.S.I.
Final Hydrostatic Pressure..... (H) 1428 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.

Betty 3-1 DST 3





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W176
Contact		Betty 3-1	Representative	Wilbur Steinbeck
Well Name		DST 3 Lan D-G 3097-3163	Well Operator	LD
Unique Well ID		1-6s-18w Rooks/Kans	Report Date	2015/03/12
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional		
Formation	Lan D-G		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/03/12	Start Test Time	10:42:00
Final Test Date	2015/03/12	Final Test Time	18:00:00

Test Recovery

Recovery 30' Gassy Free Oil
 135' GMCO 20%G 35%M 45%O
 165' Total Fluid
 120' G.I.P

Tool Sample GMCO 15%G 40%M 45%O

Corrected Gravity=36.8



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Betty 3-1 DST 3

TIME ON: 10:42
TIME OFF: 18:00

Company LD Drilling Lease & Well No. Betty 3-1
Contractor LD Charge to LD Drilling
Elevation 1872 KB Formation _____ Lan D-G Effective Pay _____ Ft. Ticket No. W176
Date 3-12-15 Sec. 1 Twp. _____ 6 S Range _____ 18 W County _____ Rooks State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 3 Interval Tested from 3097 ft. to 3163 ft. Total Depth 3163 ft.
Packer Depth 3092 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3097 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3082 ft. Recorder Number 5446 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3098 ft. Recorder Number 5965 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 54 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 3064 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 66 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB in 30 min Built to 1 1/2"
2nd Open: BOB in 25 min Built to 1/2

Recovered 30 ft. of Gassy Free Oil
Recovered 135 ft. of GMCO 20%G 35%M 45%O
Recovered 165 ft. of Total Fluid
Recovered 120 ft. of GIP

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample <u>GMCO 15%G 40%M 45%O</u>	
Corrected Gravity= <u>36.8</u>	Total

Time Set Packer(s) 13:05 A.M. P.M. Time Started Off Bottom 16:05 A.M. P.M. Maximum Temperature 92

Initial Hydrostatic Pressure..... (A) 1471 P.S.I.
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1052 P.S.I.
Final Flow Period..... Minutes 45 (E) 53 P.S.I. to (F) 81 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1026 P.S.I.
Final Hydrostatic Pressure..... (H) 1470 P.S.I.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

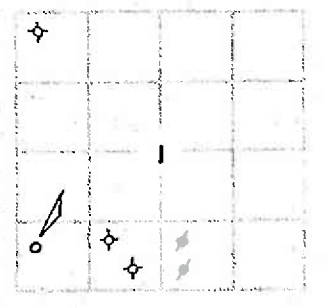
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE * 3-1 BETTY
 FIELD FAUBION
 LOCATION 708' FSL & 330' FWL
 SEC 1 TWP 6s RGE 18w
 COUNTY ROOKS STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 3-6-15 COMP 3-13-15
 RTD 3332 LTD 3325
 MUD UP 2814 TYPE MUD CHEMICAL

ELEVATIONS
 KB 1872
 DF _____
 GL 1867 *
 Measurements Are All From 1872' KB
 CASING SURFACE 85/8" @ 387'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
DUAL IND., DENS-AI.

SAMPLES SAVED FROM 2700 TO 3332
 DRILLING TIME KEPT FROM 2700 TO 3332
 SAMPLES EXAMINED FROM 2700 TO 3332
 GEOLOGICAL SUPERVISION FROM 2900 TO 3332
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1338+534	
B/ANH.	1345+527	
TOPEKA	2800-928	2802-930
HEEBNER	3002-1430	3004-1132
LANSING	3044-1172	3046-1174
B/KC	3275-1403	3275-1403



REMARKS

API: 15-163-21285

* : Location was lowered 2' El. WPS 1869 GL - 2' 1867.6L 1872 KB

3-6-15 5900
 3-7 @ 390'
 3-8 @ 623'
 3-9 @ 2000'
 3-10 @ 2787'
 3-11 @ 3004'
 3-12 @ 3135'
 3-13 @ 3332'

LEGEND

- Dolomite
- Gneiss
- Dol. Lime
- Limestone
- Carb. sh.
- Sandstone
- Salt
- Anhydrite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Inconsistent

DEPTH 1300

LITHOLOGY



SAMPLE DESCRIPTIONS

REMARKS

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Tool Sample: Mud

ES. 41g. Dm. V.S.T. Chlly

MEENER 3004-1152

WT 90
WT 191

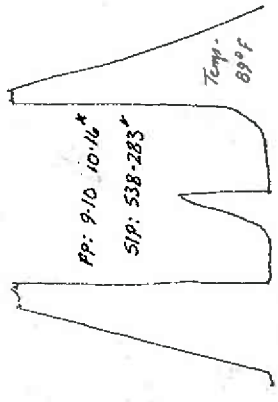
TORONTO

LANSTING

30916-1174

DST (2) 3037-3039

1st OPEN: 1/2" Blow
2nd OPEN: No Blow
30-30-30-30
Rec. 5' Mud



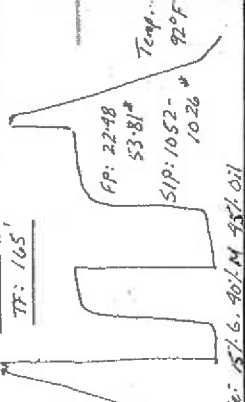
Tool Sample: Mud

DST (3) 3097-3163

1st OPEN: Bottom bucket 30mint.
2nd OPEN: " " 25 "

30-95-45-60
Rec. 120' G.I.P.

30' CO. 30.8 Grav.
135' GMD (20' G. 35' M. 75' D)



Tool Sample: 57.6. 90/1 M. 95% Oil

3000

5100

3200

3300

DST (2)

DST (3)

MT 51
MT 91
MT 60
CAL 700

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

LS. wt. V.S.T. Foss. Sili. Chlly

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

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SH. ALCA

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

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SH. ALCA

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

SH. ALCA

LS. wt. V.S.T. Foss. Sili. Chlly

B/KC 3275-1403

SH. ALCA

SH. ALCA

SH. ALCA

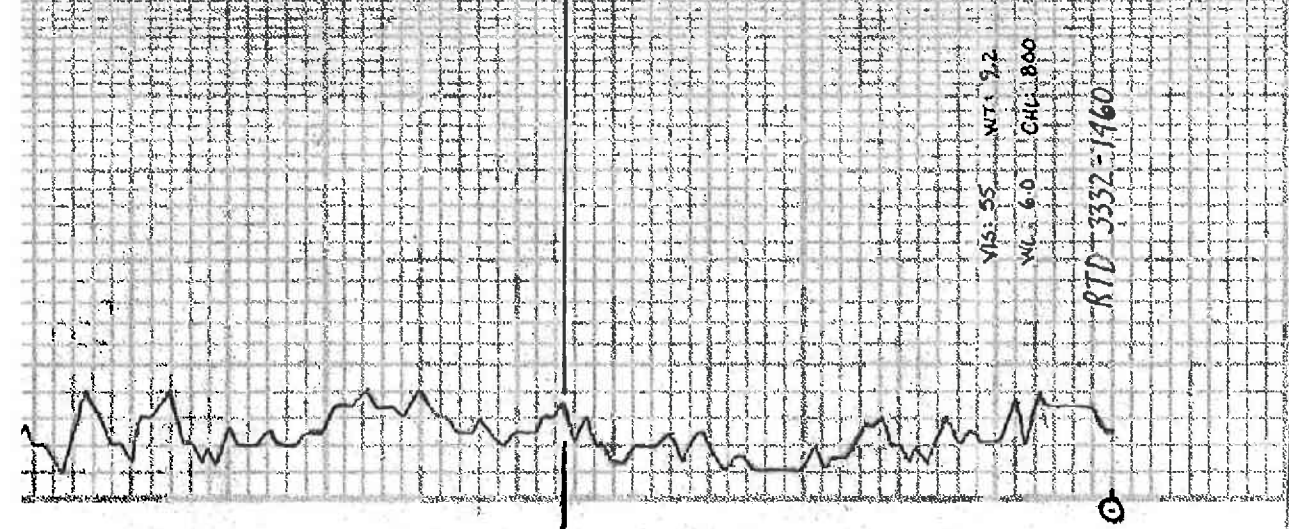
SH. ALCA

WT 55
WT 92

WT 60
CAL 800

LS. wt. V.S.T. Foss. Sili. Chlly

Sh. City
 CS. 501 Ely St. 1888. SA. City.
 Sh. Bk.
 Sh. P.C.
 CS. 501 Ely St. 1888. SA. City. P. 1/2 p.
 SW. R. St. 1888. SW. R. St. 1888. No. 000.
 Sh. C. P.
 CS. 501 Ely St. 1888. SA. City. P. 1/2 p.
 SW. R. St. 1888. SW. R. St. 1888. No. 000.
 B/KC 3275-1403
 Sh. City.
 Sh. R. 1/4.
 Sh. R. 1/4.
 Sh. R. 1/4. Purple
 CS. 501 Ely St. 1888. SA. City.
 Sh. City.
 Sh. City R.
 CS. 501 Ely St. 1888. SA. City.
 Sh. City R.



VS: 55 WT: 9.2
 VC: 6.0 CHL: 800
 RTD: 3352-1460

3300

