



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1238178  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1238178

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
--	---

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CHANCE 1-16
Doc ID	1238178

Tops

Name	Top	Datum
ANHYDRITE	2708	+302
BASE ANHYDRITE	2799	+261
TOPEKA	3765	-755
HEEBNER	3932	-922
LANSING	3978	-968
BASE KANSAS CITY	4218	-1208
PAWNEE	4336	-1326
FORT SCOTT	4376	-1366
CHEROKEE	4388	-1378



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

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

FIELD SERVICE TICKET  
1718 11473 A

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

DATE OF JOB <u>10-31-14</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: _____							
CUSTOMER <u>LD Drilling, Inc</u>		LEASE <u>Chance</u>		WELL NO. <u>1-16</u>					
ADDRESS _____		COUNTY <u>Raukus</u>		STATE <u>KS</u>					
CITY _____ STATE _____		SERVICE CREW <u>Scott, Shawn, Aaron</u>							
AUTHORIZED BY <u>LD Davis</u>		JOB TYPE: <u>8 5/8 Surface Pipe Casing</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<u>38970</u>	<u>3</u>								
<u>01721</u>	<u>3</u>								
<u>19943</u>	<u>3</u>								
<u>19960</u>	<u>3</u>								
						ARRIVED AT JOB	<u>10-30-14</u>	AM PM	<u>11:45</u>
						START OPERATION	<u>10-31-14</u>	AM PM	<u>1:20</u>
						FINISH OPERATION	<u>10-31-14</u>	AM PM	<u>1:36</u>
						RELEASED	<u>10-31-14</u>	AM PM	<u>2:30</u>
						MILES FROM STATION TO WELL			

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: Michael A Brown  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP 103	601410 P02	SK	300		3600.00	
CC 102	Calcilake	lb	75		277.50	
CC 109	Calcium Chloride	lb	774		817.70	
E 100	Unit Mileage Pickups, Small vans	MI	190		855.00	
E 101	Heavy Equipment Mileage	MI	380		2950.00	
E 113	Pump & Bulk Delivery per ton mile	Ton	2451		6127.50	
CF 200	Depth Charge 0-500'	4hr	1		1000.00	
CF 240	Blending & Mixing Service Charge	SK	300		470.00	
SOA 3	Service Supervisor Fuel 8.45 gal/hr	Gal	1		175.00	
					SUB TOTAL	16,117.70

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
-TOTAL		12,410.53
Discounted Total		12,410.53

SERVICE REPRESENTATIVE: [Signature]  
FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Michael A Brown  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>LD Drilling, Inc</i>	Lease No.	Date <i>10-31-14</i>	
Lease <i>Chance</i>	Well # <i>1-16</i>		
Field Order # <i>11473A</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>	Depth <i>326</i>
Type Job <i>8 5/8 Surface Pipe</i>	Formation <i>CNW</i>	County <i>Rawlins</i>	State <i>KS</i>
		Legal Description <i>16-55-32W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>							5 Min.	
Depth <i>326</i>	Depth	From	To	Pre Pad	Max		10 Min.	
Volume <i>20.99</i>	Volume	From	To	Pad	Min		15 Min.	
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		Annulus Pressure	
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To		HHP Used		Total Load	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			

Customer Representative	Station Manager <i>Kevin Crowley</i>	Treater <i>Scott Grouves</i>
Service Units <i>35970</i>	<i>84981</i>	<i>19460</i>
Driver Names <i>Scott</i>	<i>195113</i>	<i>19460</i>
	<i>Adrian</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:40</i>					<i>Rig up Safety meeting</i>
<i>1:10</i>					<i>Circulate on bottom</i>
<i>1:20</i>	<i>U</i>		<i>3</i>	<i>5.5</i>	<i>Pump spacer H<sub>2</sub>O</i>
<i>1:21</i>	<i>300</i>			<i>5.8</i>	<i>Mix 300stk 60/10 POZ 145ppg</i>
<i>1:32</i>	<i>250</i>		<i>64.7</i>	<i>5.7</i>	<i>Start Displacement</i>
<i>1:56</i>	<i>200</i>		<i>20</i>		<i>Displacement complete</i>
			<del><i>20</i></del>		<i>Shut down</i>
					<i>Job complete</i>
					<i>Cement circulated to surface</i>



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

1700 S. Country Estates Rd.  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET  
1717 05078 A

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

DATE OF JOB <b>11-7-14</b>	DISTRICT <b>1717</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>LD Drilling</b>	LEASE <b>Chance #1-16</b>		WELL NO.						
ADDRESS		COUNTY <b>Rawlins</b>	STATE <b>KS</b>						
CITY	STATE	SERVICE CREW <b>E. Mendoza, Charles</b>							
AUTHORIZED BY <b>J Bennett</b>		JOB TYPE: <b>241- DTA</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>31726</b>	<b>8</b>						<b>11-7-14</b>	<b>AM</b>	<b>4:00</b>
<b>27462</b>	<b>8</b>					ARRIVED AT JOB		<b>AM</b>	<b>8:00</b>
<b>19829</b>	<b>8</b>					START OPERATION		<b>AM</b>	<b>9:00</b>
<b>37547</b>	<b>8</b>					FINISH OPERATION		<b>PM</b>	<b>2:00</b>
						RELEASED		<b>PM</b>	<b>3:00</b>
						MILES FROM STATION TO WELL	<b>175 mi</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, material 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: *Rick Wiker*

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>CL103</b>	<b>60/40 Poz</b>	<b>sk</b>	<b>240</b>		<b>2880</b> <b>Q</b>
<b>CC200</b>	<b>Cement Gral</b>	<b>lb</b>	<b>414</b>		<b>103</b> <b>5</b>
<b>CC102</b>	<b>Cellulose</b>	<b>lb</b>	<b>61</b>		<b>225</b> <b>72</b>
<b>E101</b>	<b>Heavy Equipment Mleage</b>	<b>mi</b>	<b>350</b>		<b>2450</b> <b>Q</b>
<b>CE240</b>	<b>Blend Mt Mixture Service</b>	<b>sk</b>	<b>240</b>		<b>336</b> <b>Q</b>
<b>E113</b>	<b>Proppant + Bulk Delivery</b>	<b>ton/yr</b>	<b>1811</b>		<b>4528</b> <b>1</b>
<b>CE203</b>	<b>Pump Supply 2001-3000'</b>	<b>unit</b>	<b>1</b>		<b>1800</b> <b>Q</b>
<b>E100</b>	<b>Unit Mleage</b>	<b>mi</b>	<b>175</b>		<b>743</b> <b>72</b>
<b>5003</b>	<b>Service Supervisor</b>	<b>ea</b>	<b>1</b>		<b>175</b> <b>Q</b>
				SUB TOTAL	<b>9,269.5</b>

CHEMICAL / ACID DATA:


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

SERVICE REPRESENTATIVE

*Deel Swana*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

*Rick Wiker*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
Liberal, Kansas

### Cement Report

Customer	LD Drilling	Lease No.		Date	11-7-14
Lease	Chance	Well #	146	Service Receipt	05078
Casing		County	Rawlins	State	KS
Job Type	241-DTA	Formation		Legal Description	16-5-32

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size	Shots/Ft		Lead
Depth	Depth	From	To	Tail in 240 SK 60/40 POZ
Volume	Volume	From	To	
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					on loc-site assessment spot trucks-rig up safety meeting-JSA pressure test 4000# circ @ 2720'
8:30			13.4	4	mix & pump 50 sk 60/40 poz @ 13.5# - 1.51 ft <sup>3</sup> /sk - 7.50 gal/sk
			35	4	disp balanced plug w/ mud
9:30					circ @ 1800'
			26.9	4	mix & pump 100 sk 60/40 poz
			19.5	4	disp balanced plug w/ mud
11:30					circ @ 375'
			13.4	3	mix & pump 50 sk 60/40 poz
			2	3	disp balanced plug w/ H <sub>2</sub> O
12:30					circ @ 40'
			2.7	2	mix & pump 10 sk 60/40 poz
					circ cont to surface
1:00			8		plug rat hole w/ 30 sk 60/40 po
					job complete

Service Units	3422B	27462	19827-37847	
Driver Names	A Owen	E Mendoza	Charles	

R Wilson

J Bennett

A Owen



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Chance1-16Dst1

TIME ON: 0615  
TIME OFF: 1325

Company L.D. Drilling Inc Lease & Well No. Chance #1-16  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3010KB Formation LKC 'J' Effective Pay \_\_\_\_\_ Ft. Ticket No. P0014  
Date 11-05-14 Sec. 16 Twp. \_\_\_\_\_ 5 S Range \_\_\_\_\_ 32 W County \_\_\_\_\_ Rawlins State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative \_\_\_\_\_ Michael Carroll

Formation Test No. 1 Interval Tested from 4120 ft. to 4160 ft. Total Depth 4160 ft.  
Packer Depth 4115 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4120 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4102 ft. Recorder Number 0063 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4157 ft. Recorder Number 6884 Cap. 6275 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 8.7 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 1500 P.P.M. Drill Pipe Length 4088 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 40 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: 2 3/4" BLOW-DIMINISHING TO 1" IN 30MINS NOBB  
2nd Open: NO BLOW-BUILT TO WSB IN 45MINS NOBB

Recovered <u>35</u> ft. of <u>MUD 100%M</u>	Price Job Other Charges Insurance Total
Recovered <u>35</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>TOOL SLID 8' TO BOTTOM</u>	
<u>TOOL SAMPLE: 100%M</u>	

Time Set Packer(s) 8:37A.M. A.M. P.M. Time Started Off Bottom 11:37A.M. A.M. P.M. Maximum Temperature 120  
Initial Hydrostatic Pressure..... (A) 1962 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 21 P.S.I. to (C) 23 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1156 P.S.I.  
Final Flow Period..... Minutes 45 (E) 23 P.S.I. to (F) 26 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1141 P.S.I.  
Final Hydrostatic Pressure..... (H) 1953 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.





**Hoisington, Kansas**

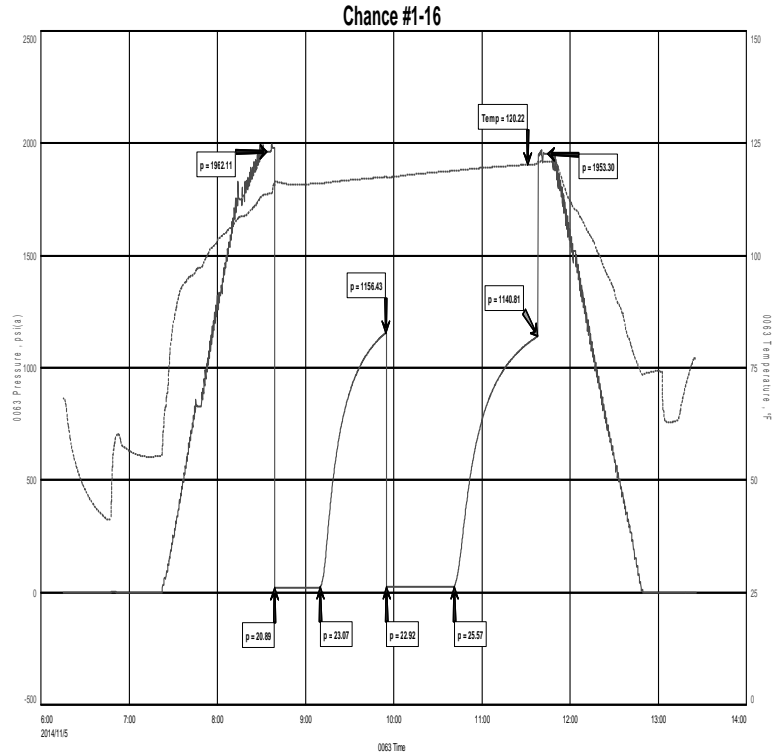
**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

Company Name **L.D. Drilling**

Contact	<b>L.D. Davis</b>
Well Name	<b>Chance #1-16</b>
Unique Well ID	<b>Dst #1 L/KC "J" 4120-4160'</b>
Surface Location	<b>Sec16-5s-32w Rawlins County</b>
Field	<b>NA</b>
Well Type	<b>Vertical</b>
Test Type	<b>Drill Stem Test</b>
Well Operator	<b>L.D. Drilling</b>

Formation	<b>Dst #1 L/KC "J" 4120-4160'</b>
Well Fluid Type	<b>01 Oil</b>
Test Purpose	<b>Initial Test</b>
Start Test Date	<b>2014/11/05</b>
Start Test Time	<b>06:15:00</b>
Final Test Time	<b>13:25:00</b>
Job Number	<b>P0014</b>
Report Date	<b>2014/11/05</b>
Prepared By	<b>Michael Carroll</b>



**TEST RECOVERY**

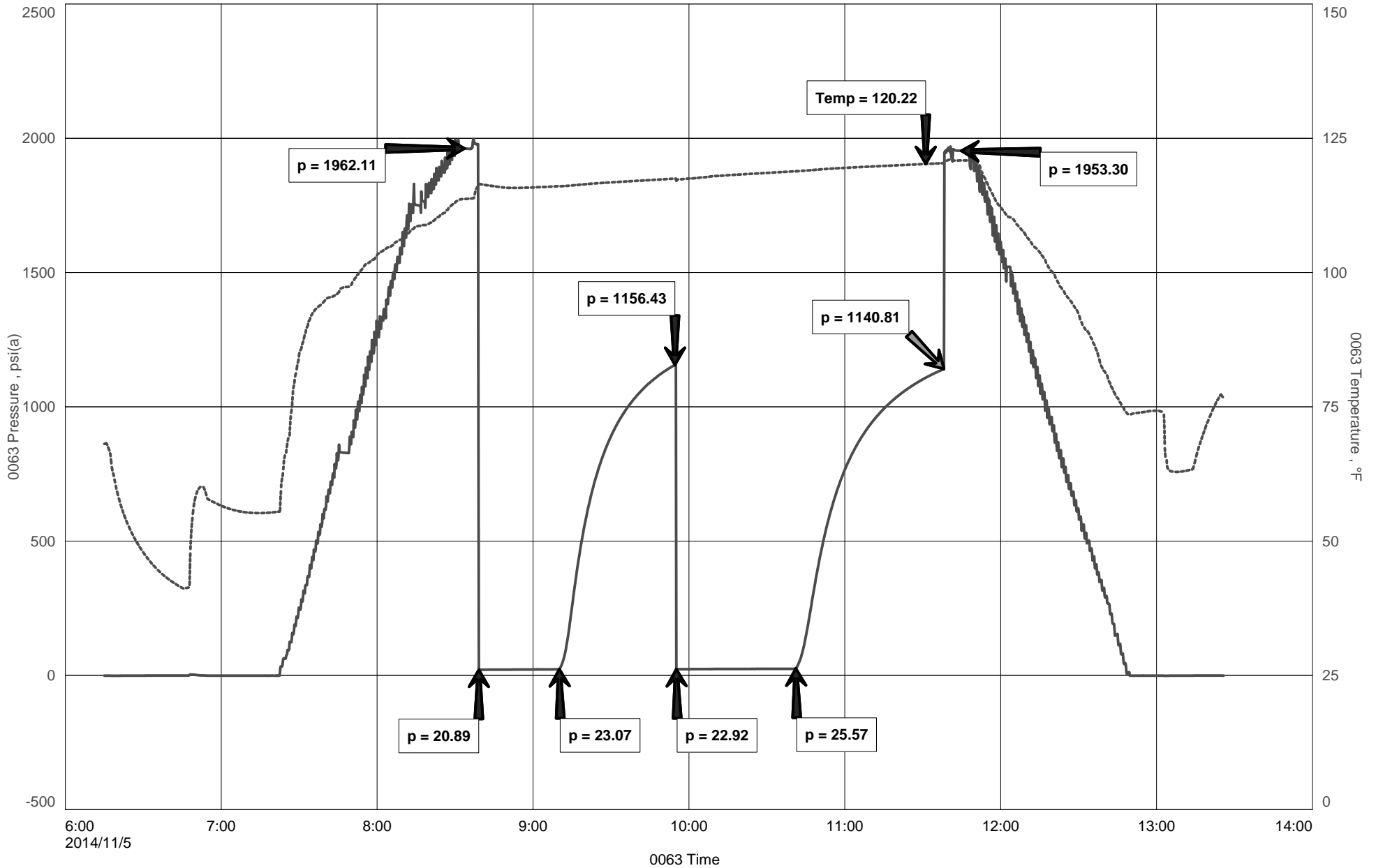
Remarks Recovery:  
 35' Mud **100%M**  
 Total Fluid **35'**

Tool Sample:  
**100%M**

L.D. Drilling  
Dst #1 L/KC "J" 4120-4160'  
Start Test Date: 2014/11/05  
Final Test Date: 2014/11/05

Chance #1-16  
Formation: Dst #1 L/KC "J" 4120-4160'  
Pool: WC  
Job Number: P0014

# Chance #1-16



**KIM B. SHOEMAKER**  
 CONSULTING GEOLOGIST  
 316-684-9709 \* WICHITA, KS

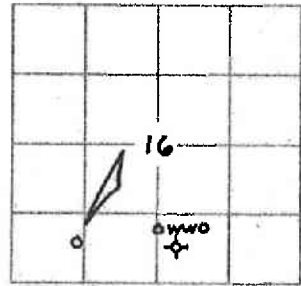
**GEOLOGIST'S REPORT**  
 DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE # 1-16 CHANCE  
 FIELD WILDCAT  
 LOCATION 690' ESL & 1290' FWL  
 SEC 16 TWP 5s RGE 32w  
 COUNTY RAWLINS STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 10-30-14 COMP 11-6-14  
 RTD 4470 LTD \_\_\_\_\_  
 MUD UP 3575 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 3010  
 DF \_\_\_\_\_  
 GL 3005  
 Measurements Are All  
 From 3010 KB  
 CASING  
 SURFACE 8.5/8" @ 326'  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
None

SAMPLES SAVED FROM 3600 TO 4470  
 DRILLING TIME KEPT FROM 3500 TO 4470  
 SAMPLES EXAMINED FROM 3600 TO 4470  
 GEOLOGICAL SUPERVISION FROM 3700 TO 4470  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		2708 + 302
B/ANH.		2749 + 261
TOPEKA		3765 - 755
HEEBNER		3932 - 922
LANSING		3978 - 968
B/KC		4218 - 1208
PAWNEE		4336 - 1326
FORT SCOTT		4376 - 1366
CHEROKEE		4388 - 1378
RTD		4470 - 1460



REMARKS

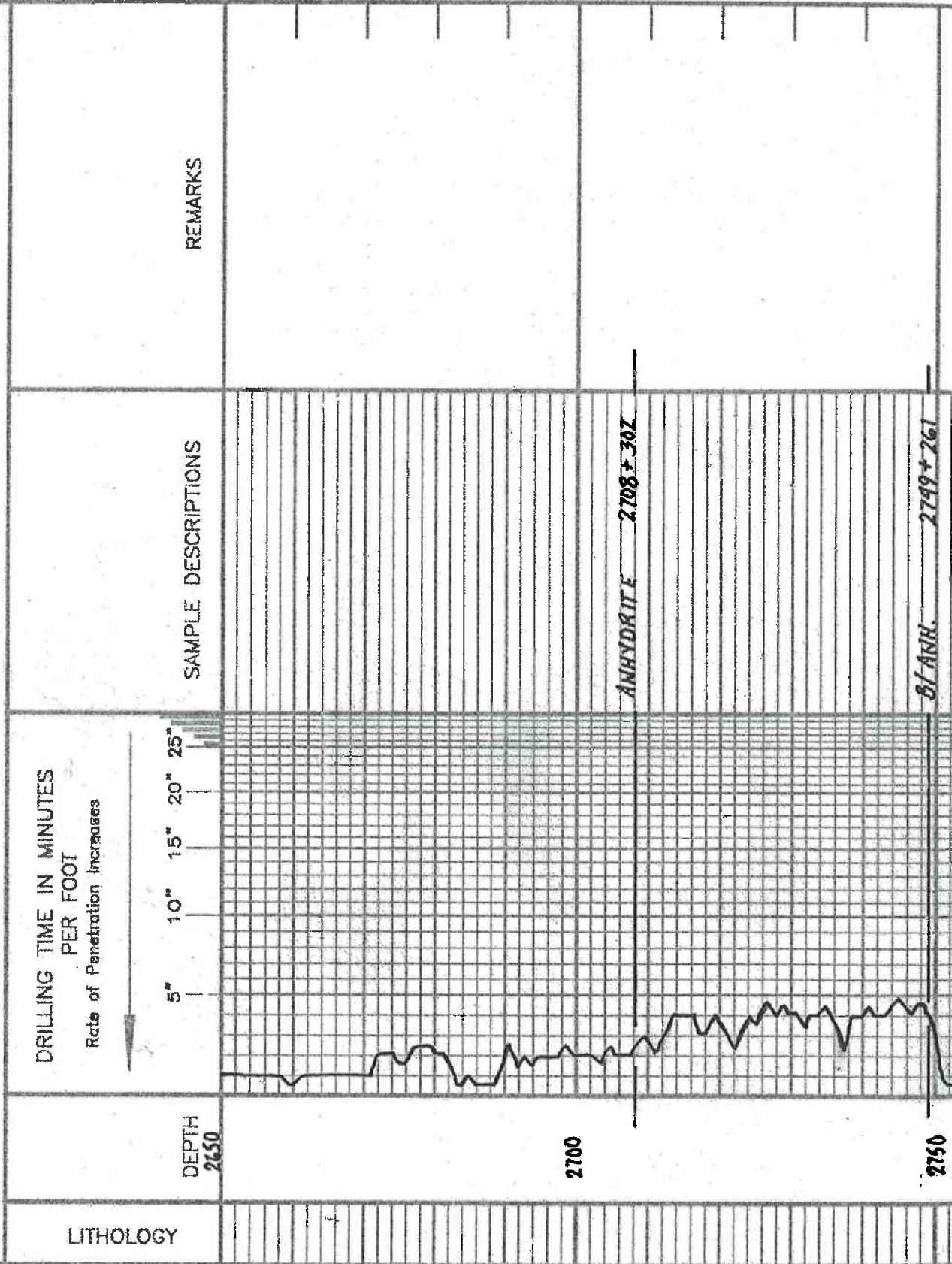
10-30-14 SPUD  
 10-31 @ 329' WOC  
 11-1 @ 1035'  
 11-2 @ 2512'  
 11-3 @ 3450'  
 11-4 @ 3810'  
 11-5 @ 4160'  
 11-6 @ 4370'

API: 15-153-21068

LEGEND

- Dolomite
- Chert
- Cal. Lime
- Limestone
- Carb sh
- Shale
- Sandstone
- Salt
- Anhydrite

SHOE01-06



REMARKS

SAMPLE DESCRIPTIONS

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration Increases

5" 10" 15" 20" 25"  
 2650 2700 2750

LITHOLOGY

ANHYDRITE 2708 + 302

B/ANH. 2749 + 261

2800

3500

3600

3700

Samples are lagged

65. 70. 150. 150. 150.

Sh. Pl.

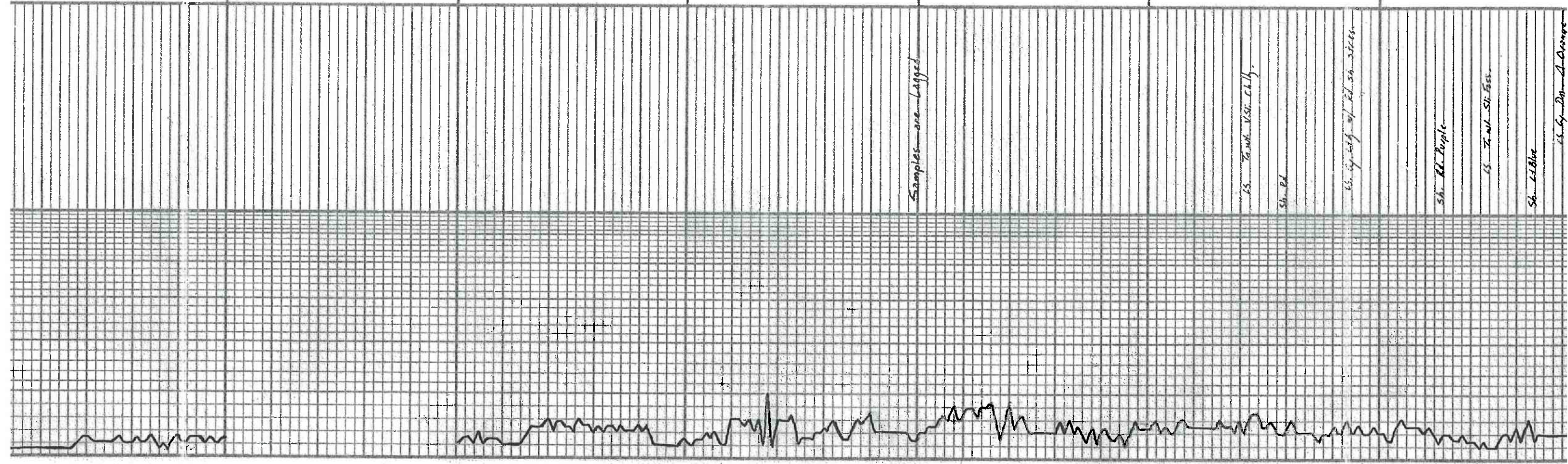
65. 70. 150. 150. 150.

Sh. Red Purple

65. 70. 150. 150. 150.

Sh. 1.1.1.1.1.

65. 70. 150. 150. 150.



U.S. Div. of Orange

Sh. 664

TOPEKA 3765-755

LS. wt. 114 St. Bass

LS. wt. St. Bass base St. Chlg.

Sh. 61

LS. wt. St. Bass St. Chlg.

LS. City Dam

Sh. 6166

LS. City St. Bass P. of DE to Bedford St. No. 1000 (3300)

LS. To St. Bass vs. A

Sh. 61

LS. wt. 114 St. Bass w/ To-Ghner St. 214

LS. wt. Y Chlg.

LS. wt. and St. Bass Chlg.

HEEBNER 3932-922

Sh. 6166

LS. A. G. St. Bass

Sh. 6166

Sh. 61

LS. wt. St. Bass P. of DE to Bedford St. No. 1000 (3300)

LANSING 3978-968

Sh. To Park St. N.S.

Sh. 61

LS. wt. St. Bass w/ Bedford St. to base (3000)

Sh. 6166

LS. wt. 114 St. Bass

Sh. 6166

LS. City vs. A

Sh. 6166

LS. To St. Bass

Sh. 6166

LS. To St. Bass P. of DE to Bedford St. No. 1000 (3300)

Sh. 61

LS. wt. St. Bass P. of DE to Bedford St. No. 1000 (3300)

Sh. 6166

LS. To St. Bass P. of DE to Bedford St. No. 1000 (3300)

VS: 50  
VF: 87  
VZ: 64  
CAL: 1500

3800

3900

4000

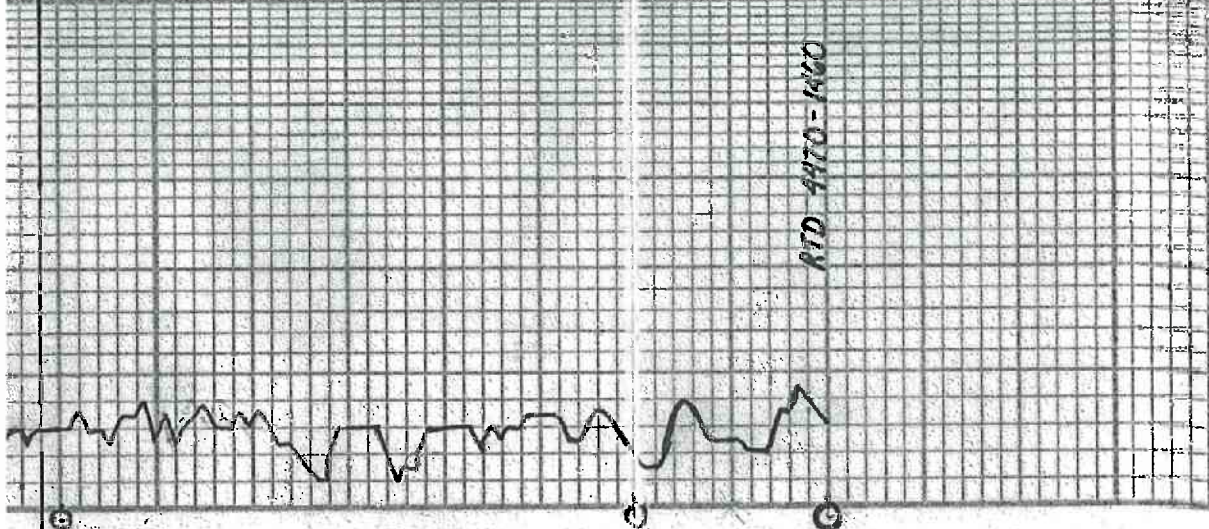
TORONTO



CHE ROKEE 4388 - 7378

Sh. blk. dk. g.  
 Sh. Bl. Br. Gy.  
 Sh. Bl. Br. Gy. Dr.  
 Bl. blk. dk. g. v. ss. - base - sil. cherty  
 Sh. Purple Bl. Blue.  
 Bl. blk. dk. g. sh.  
 Sh. Purple Bl. Blue.  
 sil. cherty. blk. dk. g. of A. Foss.  
 Bl. blk. dk. g. - base - sil. cherty.  
 Sh. dk. g. Br. g.  
 sil. cherty. blk. dk. g. Bl. blk. dk. g. Bl. blk. dk. g.  
 Sh. Bl. Br. g. Silty - shaly.

RTD 4470 - 4480



4400

4500

