



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

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

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

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

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

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

Total 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**

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



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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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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

FIELD SERVICE TICKET  
1718 07714 A

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

DATE OF JOB 01-20-13 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.A. Drilling		LEASE NICKERSON 1-23		WELL NO.					
ADDRESS		COUNTY LOGAN		STATE KS					
CITY STATE		SERVICE CREW Sullivan, Wright, Phyc							
AUTHORIZED BY		JOB TYPE: C/W 8 5/8							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
3708-20920	25	no					01-19-13	AM	5:30
20959-19918	25	no				ARRIVED AT JOB	01-19-13	AM	10:30
37900						START OPERATION	01-20-13	AM	12:20
						FINISH OPERATION		AM	12:45
						RELEASED		AM	1:30
						MILES FROM STATION TO WELL			175

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: Robt W. Sullivan  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
OP 103	40/40 102 cut	SK	240		2,880.00
OC 102	cellulose	lb	60		222.00
OC 109	Calcium chloride	lb	621		652.05
OC 100	water mix	mi	175		743.75
OC 101	Heavy Eggst mix	mi	350		2,450.00
OC 113	Bulk Oiling	tm	1811		2,898.00
OE 200	Depth change	SK	1		1,000.00
OE 240	Bleeding Liming	SK	240		336.00
OS 003	Serviced Supervision	SK	1		175.00

SUB TOTAL 8,517.40

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>8,517.40</u>

*Thank you*

SERVICE REPRESENTATIVE Robert Sullivan

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Robt W. Sullivan

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

# BASIC

energy services, llc

## TREATMENT REPORT

Customer <i>L.O. Drilling</i>	Lease No. <i>NICHOLSON</i>	Date <i>01-20-13</i>
Lease <i>NICHOLSON</i>	Well # <i>1-23</i>	
Field Order # <i>7794</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>
		Depth <i>342'</i>
Type Job <i>CN W 8 5/8 Surface</i>	Formation	Legal Description <i>23-11-33</i>
		County <i>LOGAN</i>
		State <i>KS</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	Depth	From	To	Pre Pad	Max		5 Min.
<i>342'</i>							
Volume	Volume	From	To	Pad	Min		10 Min.
<i>20</i>							
Max Press	Max Press	From	To	Frac	Avg		15 Min.
<i>300</i>							
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
<i>2 1/2"</i>							
Packer Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load
<i>342'</i>							

Customer Representative	Station Manager <i>Dan Scott</i>	Treater <i>Robert Jellison</i>
Service Units <i>37900</i>	<i>27463</i>	<i>70989</i>
Driver <i>Sullivan</i>	<i>CO Right</i>	<i>Phy 2</i>
		<i>19916</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:30 AM</i>					<i>on loc safety meeting</i>
					<i>Run 8 sts 8 5/8 csg.</i>
<i>12:10</i>					<i>CASING ON BOTTOM</i>
<i>12:15</i>					<i>hook rig circ.</i>
<i>12:20</i>	<i>150</i>		<i>3</i>	<i>4</i>	<i>1st spacer</i>
				<i>4.5</i>	<i>mix cmt 240 st 60/40 per 3% ca 1/4 cf.</i>
			<i>51</i>		<i>cmt mixed</i>
				<i>3</i>	<i>1st disp</i>
<i>12:45</i>	<i>150</i>		<i>20</i>		<i>plug down</i>
					<i>circ to 336 cmt PIT</i>
					<i>JOB Complete</i>
					<i>Thank you</i>



**CONSOLIDATED**  
Oil Well Services, LLC

256371

TICKET NUMBER 37295

LOCATION Oakley KS

FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
1-29-13	4979	Nicholson 1-23	23	115	33W	Logan												
CUSTOMER L D Drils Inc			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>Cory D</td> <td></td> <td></td> </tr> <tr> <td>693</td> <td>Phil K</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Cory D			693	Phil K		
TRUCK #	DRIVER	TRUCK #					DRIVER											
463	Cory D																	
693	Phil K																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE																

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.1 SLURRY VOL 1.40 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on L D Drils Ris up and plus as ordered  
259SKS @ 2645' 205SKS 60/40 pos 492501, 1 1/4" #1 closed  
100SKS @ 1321'  
40SKS @ 400'  
10SKS @ 40' w/plus  
30SKS in RH

Thanks Fuzzy + crew

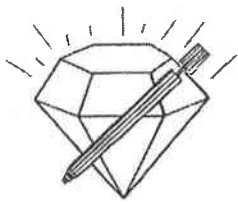
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1325 <sup>00</sup>	1325 <sup>00</sup>
5406	10	MILEAGE	5 <sup>00</sup>	50 <sup>00</sup>
5407	8.8 down	Tow mileage Delivery (min)	410 <sup>00</sup>	410 <sup>00</sup>
1131	205SKS	60/40 pos	15 <sup>10</sup>	3095 <sup>50</sup>
1118 B	705 #	Bentonite	.25	176 <sup>25</sup>
1107	51 #	Flow-seal	2 <sup>83</sup>	143 <sup>83</sup>
4432	1	8 5/8 plug	96 <sup>00</sup>	96 <sup>00</sup>
		subtotal		5296 <sup>57</sup>
		less 10 <sup>90</sup>		529.64
				4766.91

**Completed**

SALES TAX 246.52  
ESTIMATED TOTAL 5013.43

AUTHORIZATION RW TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
nick1-23DST1

Company L. D. Drilling, Inc. Lease & Well No. Nickelson No. 1-23  
Elevation 3125 KB Formation Toronto Effective Pay \_\_\_\_\_ Ft. Ticket No. S0269  
Date 1-25-13 Sec. 23 Twp. 11S Range 33W County Logan State Kansas  
Test Approved By Kim B. Shoemaker Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 4,047 ft. to 4,075 ft. Total Depth 4,075 ft.  
Packer Depth 4,042 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 4,047 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 4,032 ft. Recorder Number 30035 Cap. 10,000 psi.  
Bottom Recorder Depth (Outside) 4,072 ft. Recorder Number 3851 Cap. 5,700 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 48 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.0 Water Loss 8.0 cc. Drill Pipe Length 4,018 ft I.D. 3 1/4 in.  
Chlorides 1,000 P.P.M. Test Tool Length 29 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 28 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1 in. blow increasing. Off bottom of bucket in 8 1/2 mins. No blow back during shut-in.  
2nd Open: Weak, 1/2 in. blow increasing. Off bottom of bucket in 9 1/2 mins. No blow back during shut-in.

Recovered 176 ft. of oil specked, heavy mud cut water = 1.805760 bbls. (Grind out: Trace-oil; 57%-water; 43%-mud)  
Recovered 504 ft. of oil specked, slightly mud cut water = 5.171040 bbls. (Grind out: Trace-oil; 98%-water; 2%-mud) Chlorides: 43,000 Ppm PH: 7.0 RW: .20 @ 52°  
Recovered 680 ft. of TOTAL FLUID = 6.976800 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 1%-oil; 98%-water; 1%-mud  
Diesel in bucket.

Time Set Packer(s) 3:16 A.M. Time Started off Bottom 6:16 A.M. Maximum Temperature 120°  
Initial Hydrostatic Pressure.....(A) 1930 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 146 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 1181 P.S.I.  
Final Flow Period.....Minutes 45 (E) 152 P.S.I. to (F) 322 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 1178 P.S.I.  
Final Hydrostatic Pressure.....(H) 1930 P.S.I.

# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling Inc

Contact	L.D. Davis	Job Number	S0269
Well Name	Nickelson #1-23	Representative	Jacob McCallie
Unique Well ID	DST #1 Toronto 4047-4075'	Well Operator	LD Drilling Inc.
Surface Location	SEC 23-11S-33W Logan County	Report Date	2013/01/25
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 Toronto 4047-4075'	Start Test Time	00:48:00
Well Fluid Type	06 Water	Final Test Time	08:54:00
Start Test Date	2013/01/25		
Final Test Date	2013/01/25		
Gauge Name	30035		
Gauge Serial Number			

### Test Results

#### RECOVERED:

176'	OSHMCW	Trace Oil 57% W 43% M
504'	OSSLMCW	Trace Oil 98% W 2% M
680'	TOTAL FLUID	

PH: 7

RW: .2 @ 52 degrees F

Chlorides: 43,000 ppm

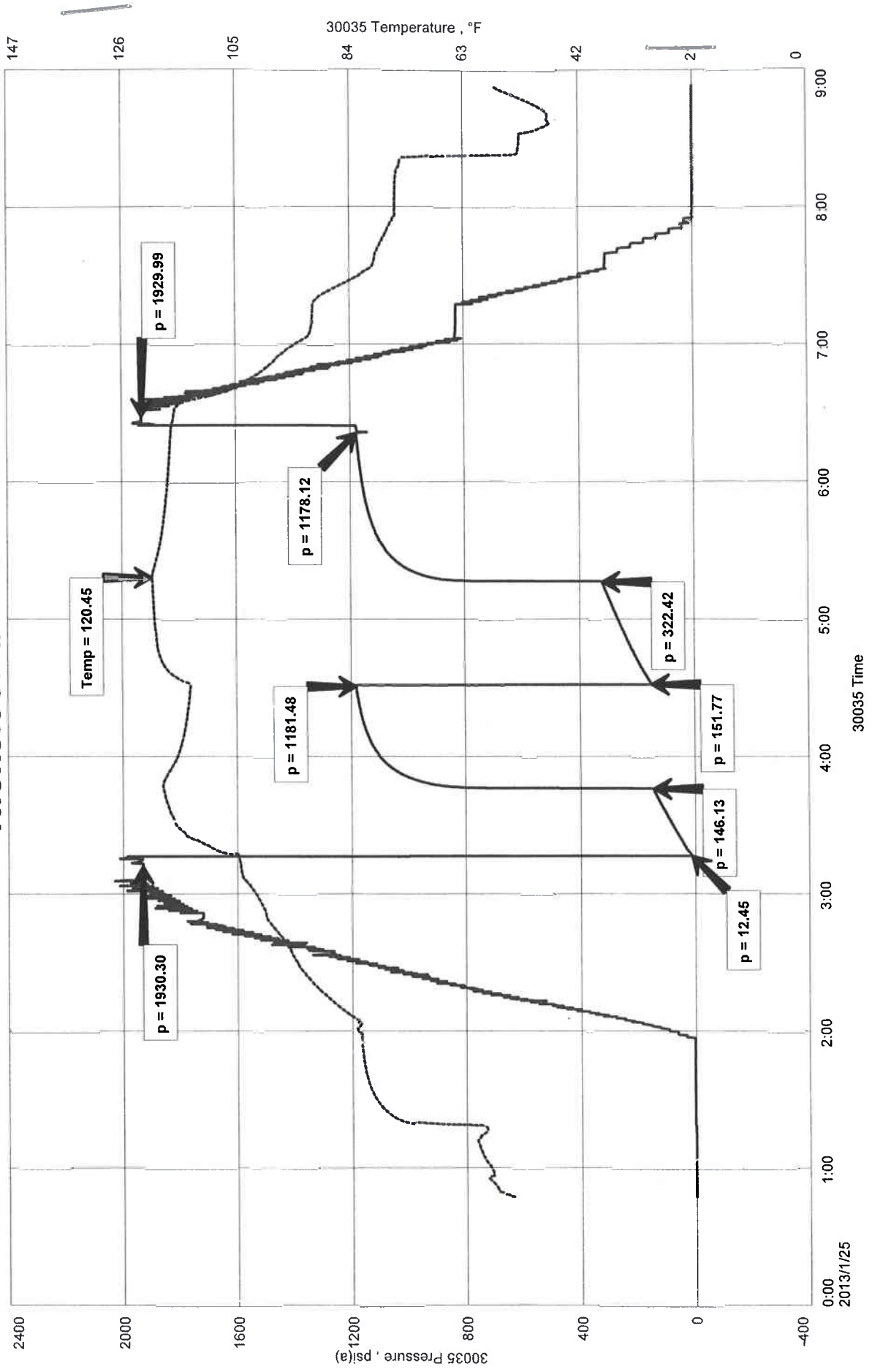
#### TOOL SAMPLE:

1% O 98% W 1% M

Nickelson #1-23  
Formation: DST #1 Toronto 4047-4075'  
Pool: Wildcat  
Job Number: S0269

LD Drilling Inc  
DST #1 Toronto 4047-4075'  
Start Test Date: 2013/01/25  
Final Test Date: 2013/01/25

# Nickelson #1-23







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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ 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: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

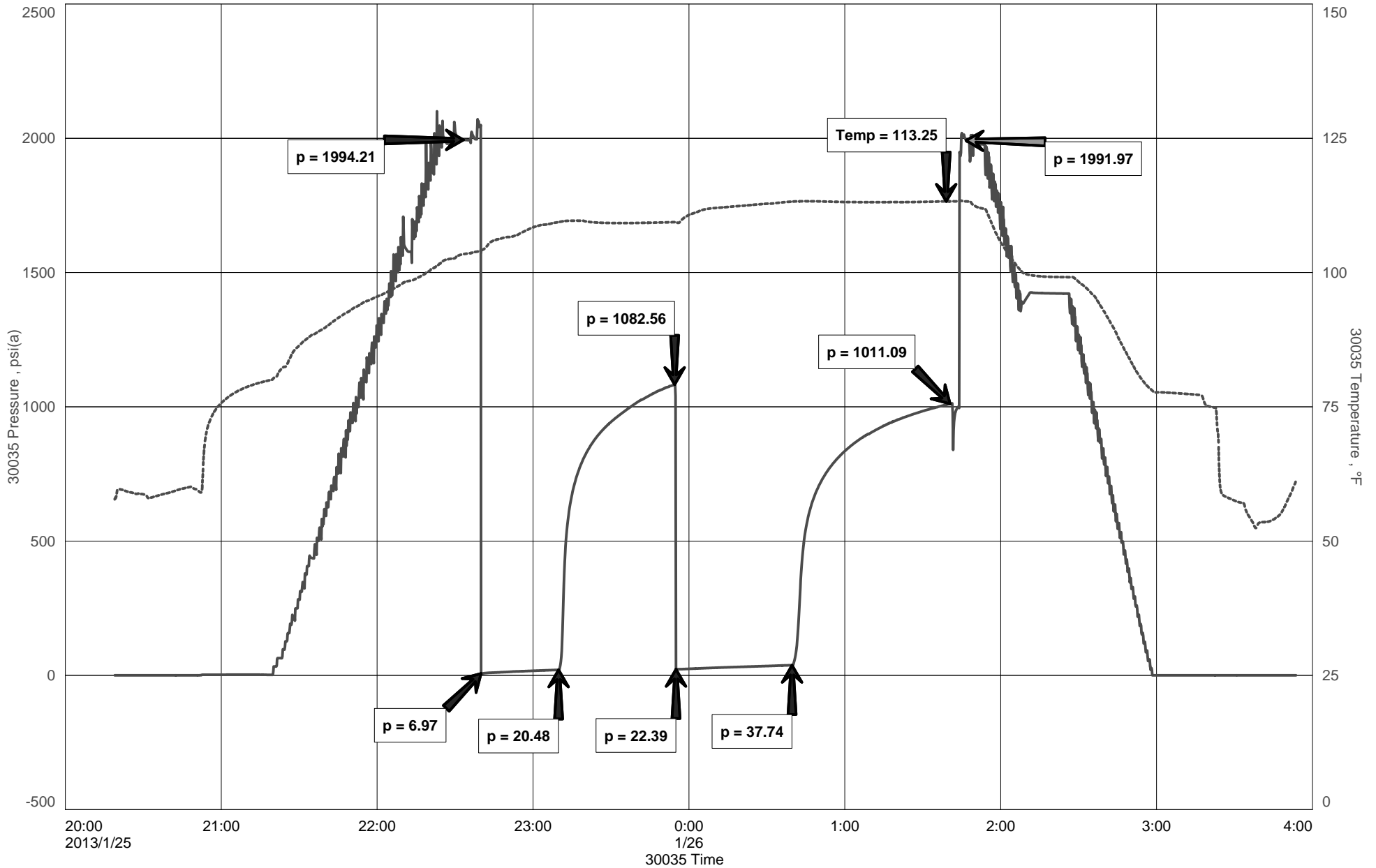
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (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.

LD Drilling Inc.  
DST #2 L/KC "E" 4148-4170'  
Start Test Date: 2013/01/25  
Final Test Date: 2013/01/26

Nickelson #1-23  
Formation: DST #2 L/KC "E" 4148-4170'  
Pool: Wildcat  
Job Number: S0270

# Nickelson #1-23



# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling Inc.

Contact	LD Davis	Job Number	S0270
Well Name	Nickelson #1-23	Representative	Jacob McCallie
Unique Well ID	DST #2 L/KC "E" 4148-4170'	Well Operator	LD Drilling Inc.
Surface Location	SEC 23-11S-33W Logan County	Report Date	2013/01/26
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	20:19:00
Formation	DST #2 L/KC "E" 4148-4170'	Final Test Time	03:55:00
Well Fluid Type	06 Water		
Start Test Date	2013/01/25		
Final Test Date	2013/01/26		
Gauge Name	30035		
Gauge Serial Number			

### Test Results

RECOVERED:  
68' SLOSHMCW 51% W 49% M

PH: 9  
RW: .35 @ 50 degrees F  
Chlorides: 26,000 ppm

TOOL SAMPLE:  
42% W 58% M



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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ 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: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

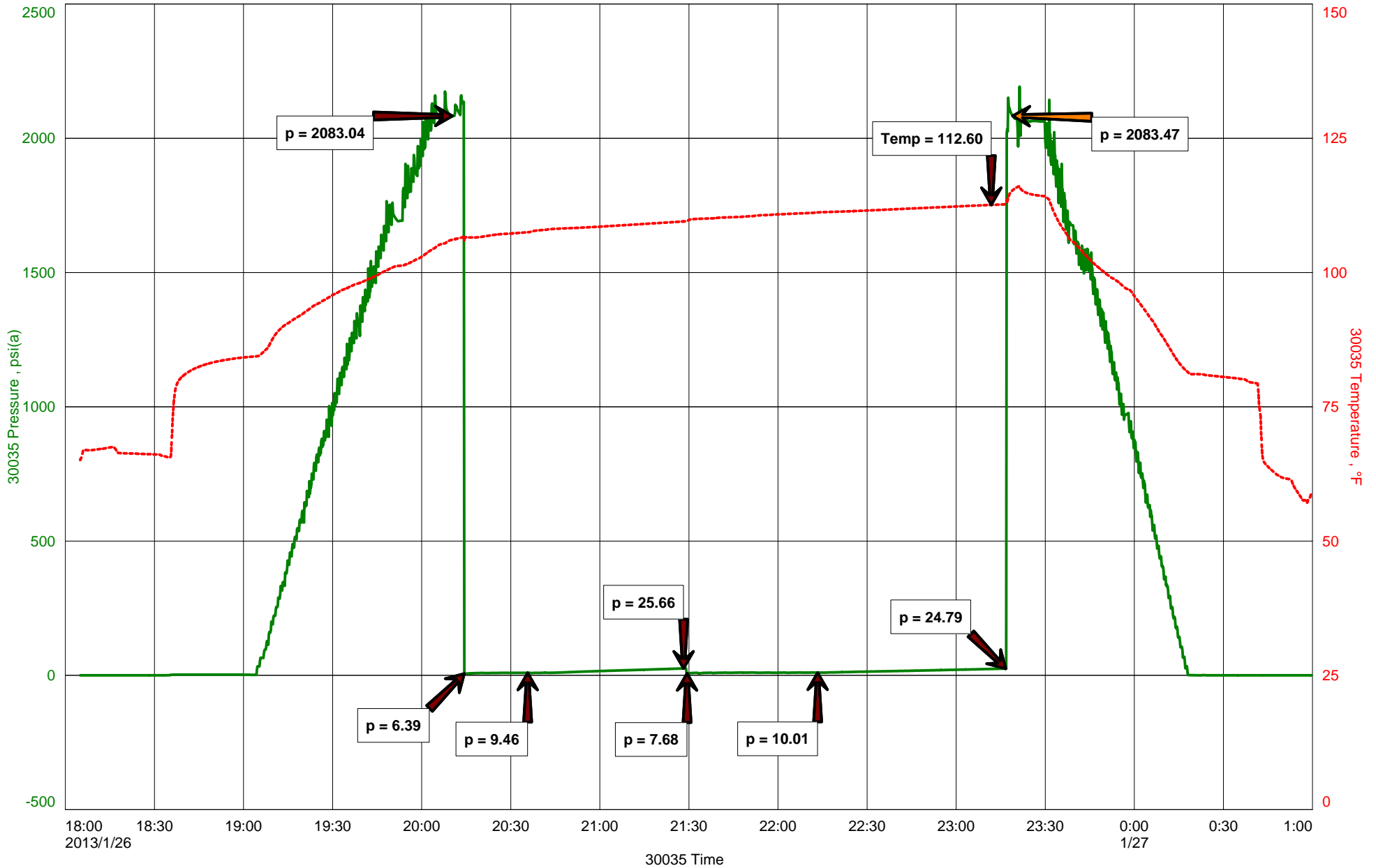
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (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.

LD Drilling, Inc.  
DST #3 L/KC "J" 4267-4295'  
Start Test Date: 2013/01/26  
Final Test Date: 2013/01/26

Nickelson #1-23  
Formation: DST #3 L/KC "J" 4267-4295'  
Pool: Wildcat  
Job Number: S0271

# Nickelson #1-23



# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling, Inc.

Contact	LD Davis	Job Number	S0271
Well Name	Nickelson #1-23	Representative	Jacob McCallie
Unique Well ID	DST #3 L/KC "J" 4267-4295'	Well Operator	LD Drilling, Inc.
Surface Location	SEC 23-11S-33W Logan County	Report Date	2013/01/26
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	18:05:00
Formation	DST #3 L/KC "J" 4267-4295'	Final Test Time	01:00:00
Well Fluid Type	01 Oil		
Start Test Date	2013/01/26		
Final Test Date	2013/01/26		
Gauge Name	30035		
Gauge Serial Number			

### Test Results

RECOVERED:  
5' SLOCM 5% O 95% M

TOOL SAMPLE:  
4% O 96% M



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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ 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: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

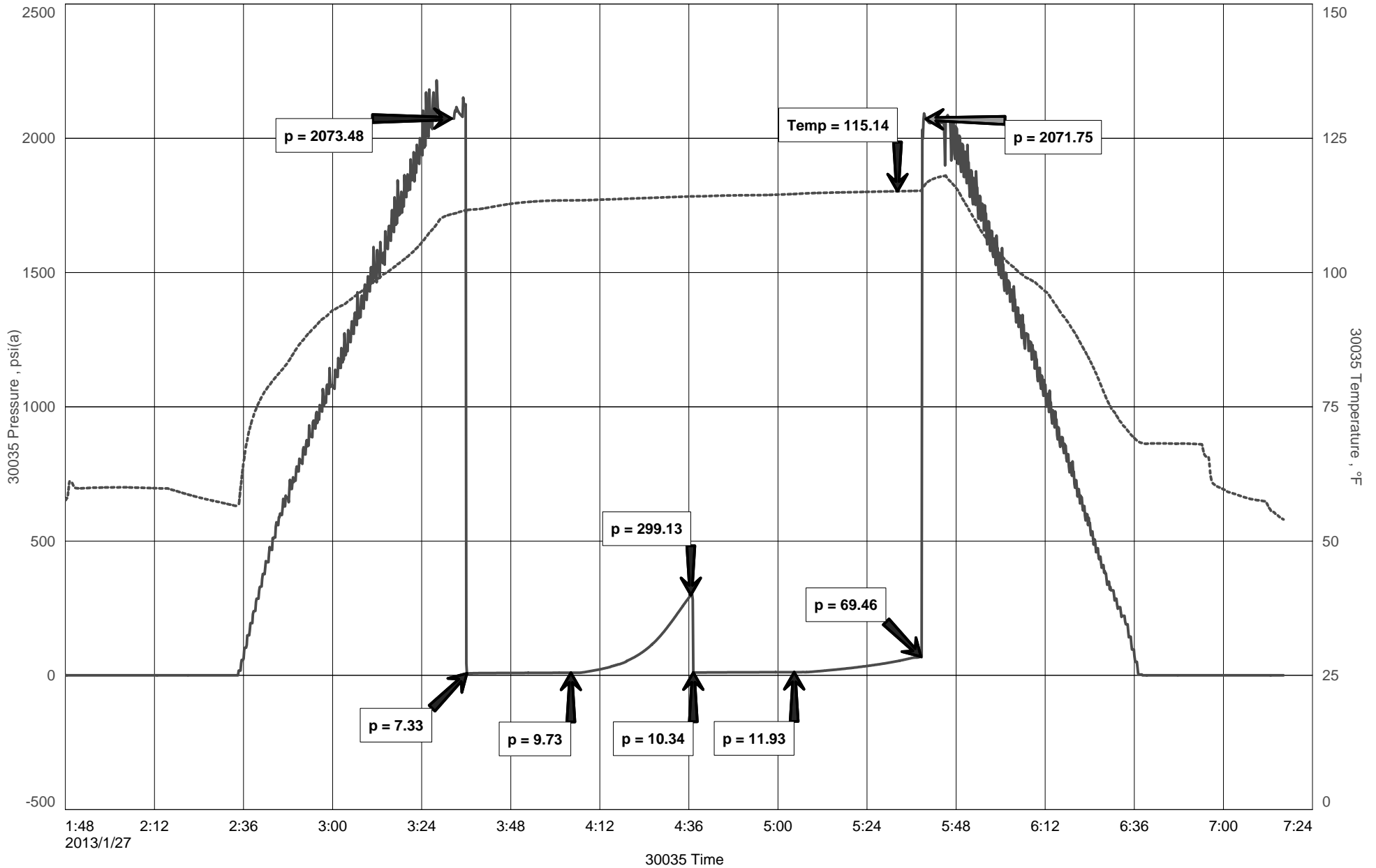
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

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LD Drilling, Inc.  
DST #4 L/KC "H,I,J" 4223-4295'  
Start Test Date: 2013/01/27  
Final Test Date: 2013/01/27

Nickelson #1-23  
Formation: DST #4 L/KC "H,I,J" 4223-4295'  
Pool: Wildcat  
Job Number: S0272

# Nickelson #1-23





# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling, Inc.

Contact	LD Davis	Job Number	S0272
Well Name	Nickelson #1-23	Representative	Jacob McCallie
Unique Well ID	DST #4 L/KC "H,I,J" 4223-4295'	Well Operator	LD Drilling, Inc.
Surface Location	SEC 23-11S-33W Logan County	Report Date	2013/01/27
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #4 L/KC "H,I,J" 4223-4295'		
Well Fluid Type	01 Oil	Start Test Time	01:48:00
		Final Test Time	07:17:00
Start Test Date	2013/01/27		
Final Test Date	2013/01/27		
Gauge Name	30035		
Gauge Serial Number			

### Test Results

RECOVERED:  
5' SLOSM 100% MUD (few oil specks)

TOOL SAMPLE:  
100% M (few oil specks)



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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

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

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ 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: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

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# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0273
Well Name	Nickelson #1-23	Representative	Jacob McCallie
Unique Well ID	DST #5 Johnson 4603-4657'	Well Operator	LD Drilling Inc
Surface Location	SEC 23-11S-33W Logan County	Report Date	2013/01/28
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	19:36:00
Formation	DST #5 Johnson 4603-4657'	Final Test Time	01:14:00
Well Fluid Type	01 Oil		
Start Test Date	2013/01/28		
Final Test Date	2013/01/29		

### Test Results

**ELECTRONIC RECORDER FAILED TO READ**

**RECOVERED:**

3' DM 100% M

**TOOL SAMPLE:**

100% MUD

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

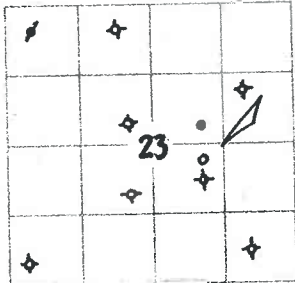
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE § 1-23 NICKELSON  
 FIELD COOK SW  
 LOCATION NE NW SE  
 SEC 23 TWP 11s RGE 33w  
 COUNTY LOGAN STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 1-19-13 COMP 1-29-13  
 RTD 4657 LTD \_\_\_\_\_  
 MUD UP 3450 TYPE MUD CHEMICAL

ELEVATIONS  
 KB 3125  
 DF \_\_\_\_\_  
 GL 3120  
 Measurements Are All From 3125 KB  
 CASING SURFACE 8 5/8" @ 342'  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 None

SAMPLES SAVED FROM 3800 TO 4657  
 DRILLING TIME KEPT FROM 3500 TO 4657  
 SAMPLES EXAMINED FROM 3800 TO 4657  
 GEOLOGICAL SUPERVISION FROM 3900 TO 4657  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		2617+508
B/ANN.		2613+482
STOTLER		3685-560
HEEGNER		4090-915
LANSING		4083-958
STARK		4299-1174
MARMATON		4390-1265
FORT SCOT		4558-1433
CHEROKEE		4585-1460
JOHNGON		4627-1502



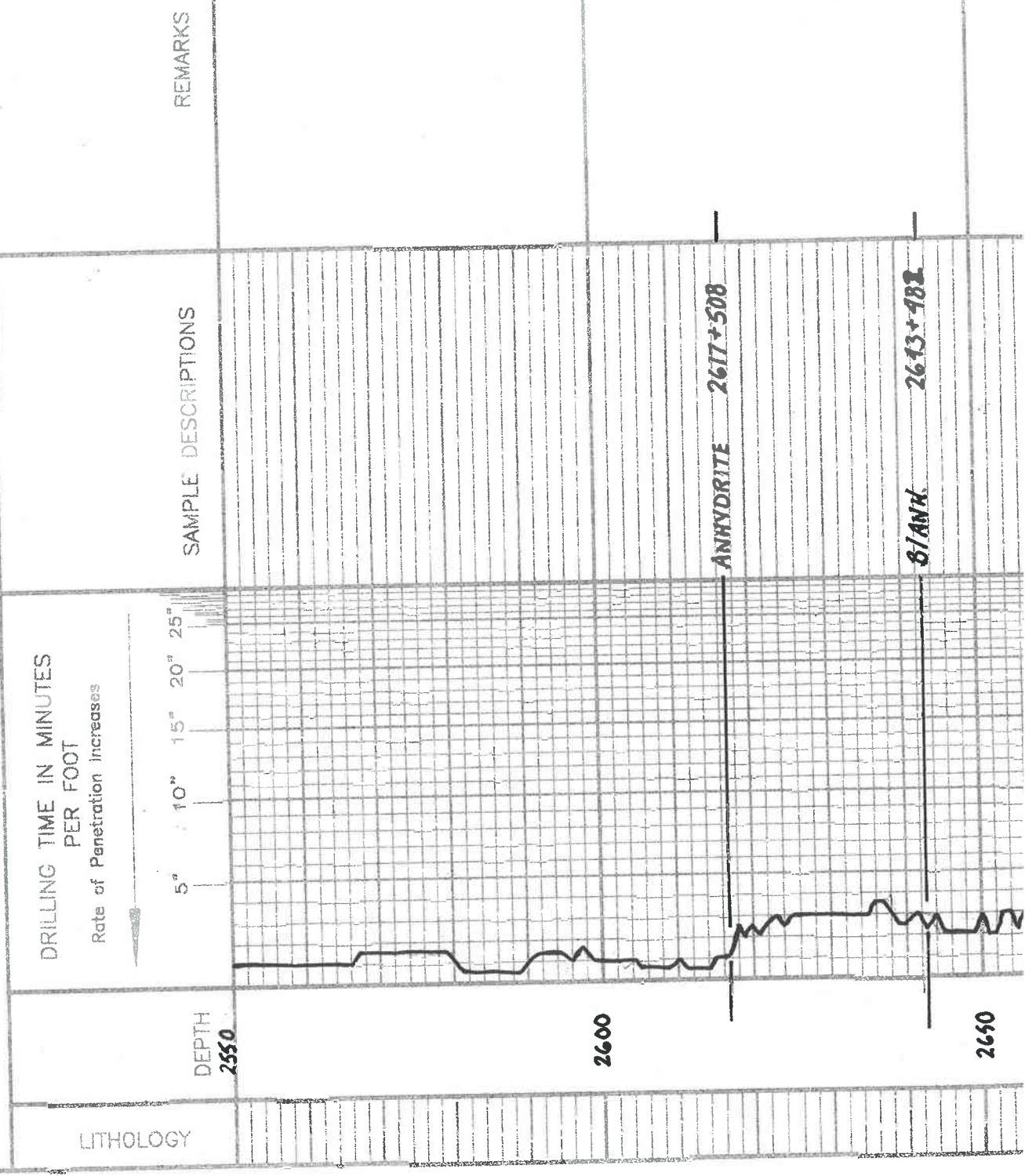
REMARKS

API: 15-109-21148  
 1-19-13 SPUD  
 1-20 @ 347'  
 1-21 @ 1835'  
 1-22 @ 2775'  
 1-23 @ 3400'  
 1-24 @ 3865'  
 1-25 @ 4485' 4075'  
 1-26 @ 4245' 4185'  
 1-27 @ 4885' 4295'  
 1-28 @ 4563'  
 1-29 @ 4657'

### LEGEND

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

SHOE01-06



REMARKS

SAMPLE DESCRIPTIONS

LITHOLOGY

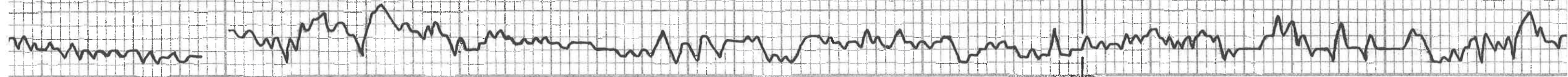
3500

VIS. 65  
NO. 86  
WT. 80  
CIL. 1000

3600

STOTLER 3685-560

3700



Samples are tagged

3800

LS. wt. 41g. Foss. Calcite.

Sh. 4g.

LS. To. Onl. V.Si. Foss.

LS. To. wt. and Si. wt. Si. Chilly.

LS. wt. Foss.ool.

Sh. 21g. Blk.

Sh. 21g. Sh. 4g. V.Si. Calc. Sub. R. wt. sorted.

Sh. 14.4g. Silty.

LS. wt. To. Foss. V.Si. Chilly.

Sh. 21g. Blk.

LS. wt. 41g. ool.

LS. To. wt. V.Si. Foss. Si. A

Sh. 21g.

LS. wt. To. wt. Calcite.

LS. wt. V.Chilly.

LS. To. wt. V.Chilly. Silty.

LS. To. wt. 41g. ool. Si. A

Sh. 21g. Carb.

HEEBNER 4040-915

LS. To. wt. V.Si. Foss. Si. A

Sh. 14g. 6w

TORONTO 4058-933

LS. To. wt. Si. Foss. Foss. F. 1/2" P.P.

LS. To. wt. Si. Foss. V.Si. Foss. F. 1/2" P.P.

LS. To. wt. Si. Foss. Si. Chilly.

Sh. 21g. Blk. 1g.

LANSING 4083-958

LS. wt. Si. Foss. Si. A. Si. Chilly.

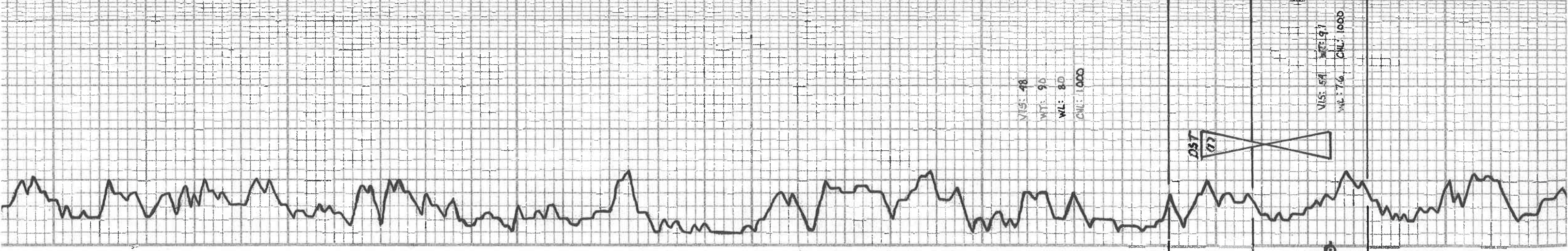
LS. wt. Chilly.

LS. To. wt. Si. A

Sh. 21g.

LS. To. wt. Si. Foss. Si. A. Calcite.

LS. wt. Foss. w/ To. Calcite. Silty.



DST (1) 4047-4075

1st OPEN: Bottom bucket 8 1/2 min.

2nd OPEN: " " 9 1/2 "

30.45.45-60

Rec. 116' MW w/ Spks OH (ST/w. AG)

504' SMW w/ T. OH (987 w. 2

TF 630'

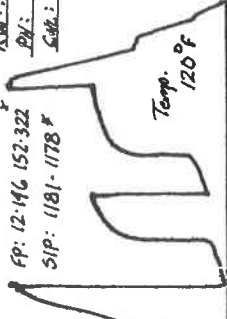
FP: 12-146 152-322

SIP: 1181-1178 #

RW: 2.2 @ 52' F

DN: 7.0

GR: 43.000



DST (2) 4148-4170

1st OPEN: Blow built to 4"

2nd OPEN: " " 3 1/2 "

30.45.45-60

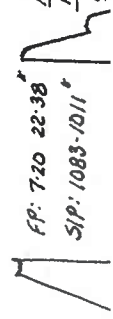
Rec. 68' MW w/ Fossil #1 @ Top

FP: 720 22-38

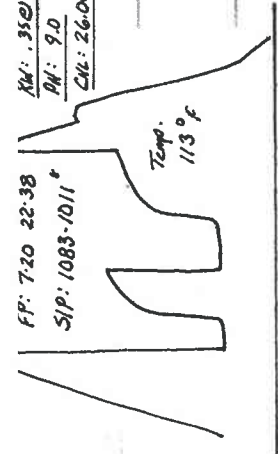
RW: .35 @ 50'

DN: 9.0

GR: 26.000



FP: 7:20 22-38  
SIP: 1083-1011 #  
M: 350/50  
M: 9.0  
C/L: 26.000



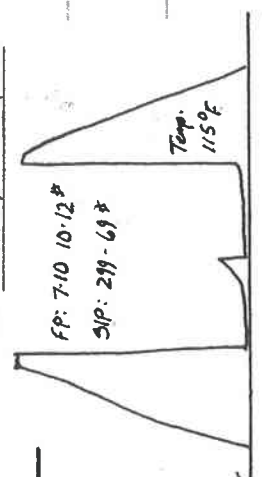
LS. wt. Foss. w/ Tr. Calcite. Silica.  
Sh. Lt. Blue.  
LS. wt. V.Si. Foss. Si. Chalk.  
LS. Tr. wt. Sil.

LS. Tr. wt. Sil. Foss. V.Si. Calcite. Chalk. P. V. w/ P.  
Mud. Seal. Silica. S.S. Foss. Tr. Calcite. Silica. P. V. w/ P. (4770)  
LS. Tr. wt. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P. (4170)  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P. (4170 30")

LS. wt. Chalk.  
LS. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

DST (1) 4223-4295

15000: Blow burst to 1 1/2"  
24000: Weak surface blow  
30-30-30-30  
Rec. 5' Mud w/ few oil splks

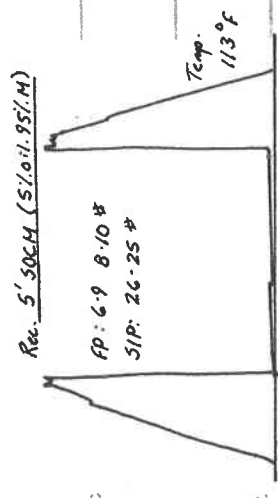


MUNCIE CREEK 4217-1092  
Sh. Blk. Carb.

LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

DST (3) 4267-4295

15000: Blow burst to 1 3/4"  
24000: " " " 1 1/2"  
30-45-45-60



Rec. 5' SOCM (S/Oil. 95/M)  
FP: 6:9 8:10 #  
SIP: 26-25 #  
Temp. 113°F  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

STARK 4299-1174  
Sh. Blk. Carb.

LS. Blk. Carb. V.Si. Foss. Silica  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

MUSH PUCKNEY 1330-1205  
Sh. Blk.

LS. Blk. Carb. V.Si. Foss. Silica  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

D/KC 4366-1291  
Sh. Blk. Carb.

LS. Blk. Carb. V.Si. Foss. Silica  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.

MARMATON 4390-1265

LS. Tr. wt. V.Si. Foss. V.Si. Foss. Si. Calcite.  
Sh. Blk. Carb. V.Si. Foss. Silica  
LS. Tr. wt. Sil. Foss. V.Si. Foss. Si. Chalk. P. V. w/ P.  
LS. Yellow. Sil. V.Si. Foss. Silica

LS. Lt. Carb. Dm.

Red. Carb.

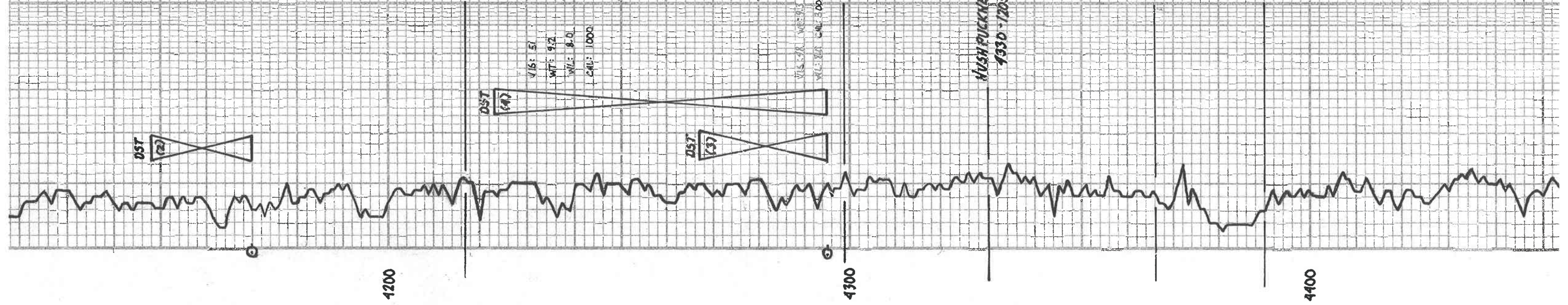
DST 720

DST (1)

DST (3)

VIS: 51  
WIT: 9.2  
WIL: 8.0  
CAL: 1000

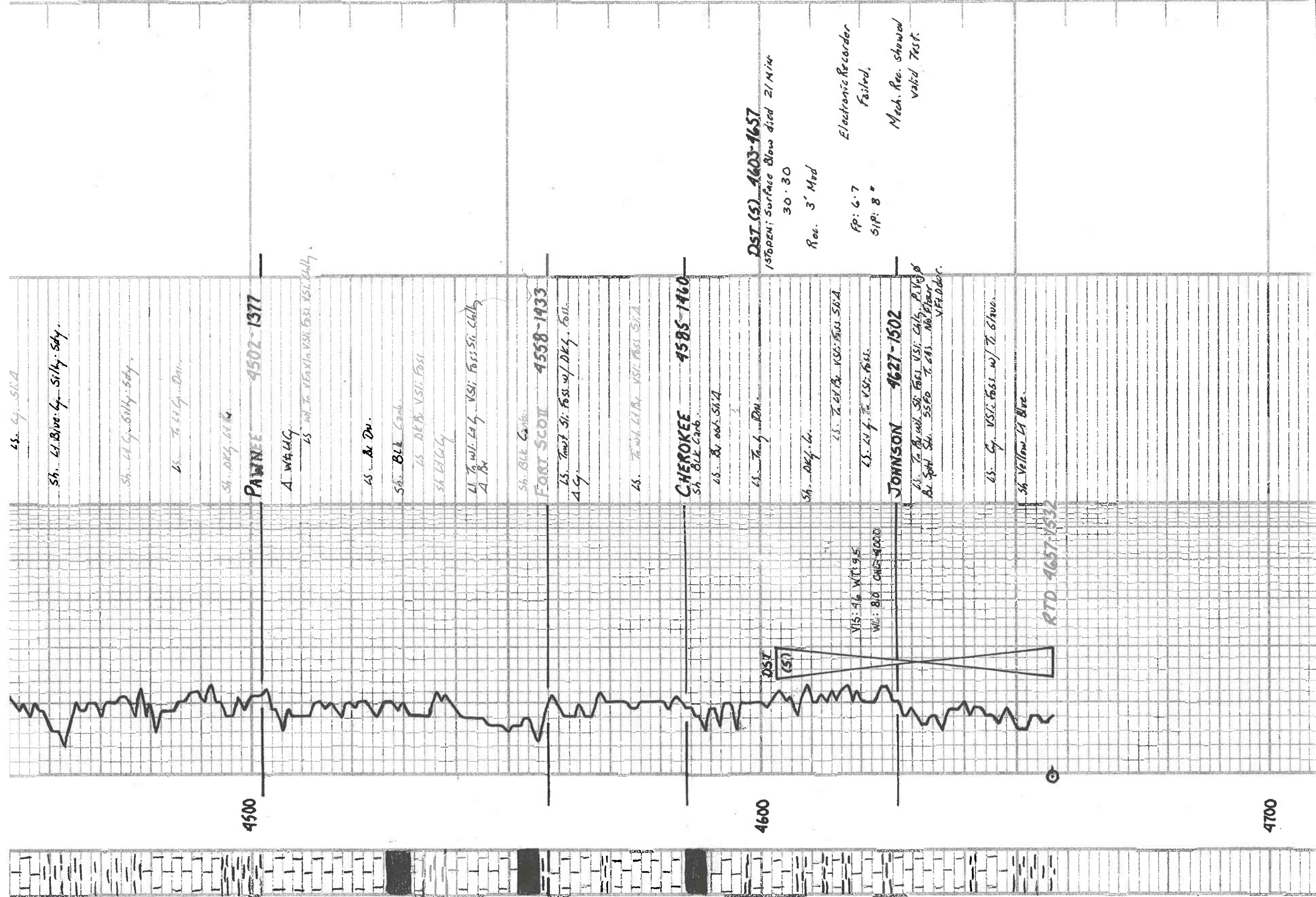
VIS: 51  
WIT: 9.2  
WIL: 8.0  
CAL: 1000



4200

4300

4400



ls. Gy. Sil.A

Sh. Lt. Blue Gy. Silky. Sdy.

Sh. Lt. Gy. Silky. Sdy.

ls. T. Lt. Gy. Dm.

Sh. Dk. Lt. R.

**PAWNEE 4502-1377**

A. W. H. G.

ls. w/ to Ven. In VSI. Foss. VSI. Bully.

ls. & Du.

Sh. Blk. Camb.

ls. Dk. VSI. Foss.

Sh. Bully

Lt. Bul. Lt. VSI. Foss. Sil. Chalky

A. R.

Sh. Blk. Camb.

**FORT SCOTT 4558-1433**

ls. Tan. Sil. Foss. w/ Dk. Foss. A. G.

ls. Tan. Lt. R. VSI. Foss. Sil. A.

**CHEROKEE 4585-1460**

Sh. Blk. Camb.

ls. Bl. Dk. Sil. A.

ls. Tan. Dm.

Sh. Dk. G.

ls. T. Lt. R. VSI. Foss. Sil. A.

ls. Lt. Gy. VSI. Foss.

**JOHNSON 4627-1502**

ls. Tan. Bul. Sil. Foss. VSI. Chalk. P. Top of Bl. Sp. Sh. S. P. T. G. No. P. P. V. P. D. D.

ls. Gy. VSI. Foss. w/ T. Glau.

Sh. Yellow Lt. Blue

DST (S)

VIS: 9.6 WTS: 9.5  
WIL: 8.0 GMS: 4000

RTD 4657-1532

DST (S) 4603-1657

VSDPEN; Surface Blow died 21 Min

30.30

Rec. 3' Mod

FP: 6.7

SIP: 8"

Electronic Recorder  
Failed.

Mech. Rec. showed  
Valid Test.

4500

4600

4700