



**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: \_\_\_\_\_



1092164

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 Bbls.	Gas Mcf	Water Bbls.	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 (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JUDITH 1-18
Doc ID	1092164

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
MICRORESISTIVITY LOG
DUAL INDUCTION LOG
DUAL COMPENSATED POROSITY LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JUDITH 1-18
Doc ID	1092164

Tops

Name	Top	Datum
ANHYDRITE	1318	+879
WABAUNSEE	3231	-1034
STOTLER	3371	-1174
TOPEKA	3594	-1397
HEEBNER	3955	-1758
BROWN LIME	4077	-1880
LANSING	4088	-1891
BASE KANSAS CITY	4432	-2235
CHEROKEE	4573	-2376
MISSISSIPPI	4652	-2455









**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 06523 A

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

DATE OF JOB <b>07-26-12</b> DISTRICT <b>Pierré E</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:						
CUSTOMER <b>L.O. Drilling</b>		LEASE <b>JOOITH 1-18</b>		WELL NO.				
ADDRESS		COUNTY <b>Edwards</b>		STATE <b>KS</b>				
CITY STATE		SERVICE CREW <b>Sullivan, Melson, Pierson</b>						
AUTHORIZED BY		JOB TYPE: <b>cnw the longship</b>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
<b>33708-20920</b>	<b>30</b>	<b>ns</b>					<b>7-26-12</b>	<b>9:20</b>
<b>19960-21010</b>	<b>30</b>	<b>ms</b>				ARRIVED AT JOB		<b>1:30</b>
<b>37900</b>						START OPERATION		<b>5:16</b>
						FINISH OPERATION		<b>5:40</b>
						RELEASED		<b>6:15</b>
						MILES FROM STATION TO WELL		<b>55</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *Jim Muck*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100C	Common CMT	SK	200		3,200.00
CP 100C	Common CMT	SK	60		960.00
CC 105	E-41-Defosman	lb	62		248.00
CC 111	SALT	lb	2112		1,056.00
CC 112	CMT Friction Reducer	lb	184		1,104.00
CC 113	Gypsum	lb	1225		918.75
CC 201	Gilsonite	lb	1200		817.00
CF 102	Top Rubber plug 4 1/2	SA	1		80.00
CF 251	Ind. Shoe	SA	1		250.00
CF 1450	Flapper - Insert Part	SA	1		200.00
CF 1650	Turbolizer	SA	4		510.00
E 100	pick up oil	mi	55		233.75
E 101	4 pony spool oil	mi	110		770.00
E 113	Bulk Delivery	TON	674		1,078.00
CE 205	Depth delay	SA	1		2,520.00
CE 240	Bleeding mixing	SK	260		364.00
CE 504	plug cement planted	SA	1		250.00
S 803	Sealant - Superseal	SA	1		175.00

CHEMICAL / ACID DATA:		

SUB TOTAL		<b>11,091.39</b>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>Mark</i>

SERVICE REPRESENTATIVE *Robert Fullen*

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

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Jim Muck*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>L.O. Drilling</i>	Lease No. <i>1-18</i>	Date <i>07-26-12</i>
Lease <i>JUDITH</i>	Well # <i>1-18</i>	
Field Order # <i>0523</i>	Station <i>PRATT KS</i>	Casing <i>4 1/2</i>
	Depth <i>4733'</i>	County <i>Edwards</i>
Type Job <i>CNW 4 1/2 Longstrd</i>	Formation	Legal Description <i>18-25-19</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>								
Depth <i>4733</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>95</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>1500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>Pic</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4717</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Johnson</i>
Service Units <i>37900 33700 20920 19960 20010</i>		
Driver Names <i>Sullivan Nelson Pierson</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:30</i>					<i>on loc. Satty meddy (Trucks)</i>
					<i>Run 1165TS 4 1/2" 10.5 csg 4733'</i>
<i>4:15</i>					<i>Casing on Bottom</i>
<i>4:30</i>					<i>Hook Up To circ.</i>
<i>5:00</i>	<i>300</i>		<i>8</i>	<i>4.5</i>	<i>mix 30 sk Squeunger cont @ 12.8 ppq</i>
			<i>48</i>		<i>mix 200 sk cement @ 15.5 ppq</i>
					<i>cont mixed fast down. wash pump, filter</i>
					<i>Release Plug</i>
				<i>6</i>	<i>St Disp</i>
	<i>350</i>		<i>4</i>		<i>lift Pj</i>
	<i>700</i>		<i>64</i>	<i>2</i>	<i>slow rate</i>
<i>5:40</i>	<i>1350</i>		<i>7.5</i>		<i>plug down</i>
			<i>8</i>		<i>plug Pj w/ 20 sk</i>
					<i>SAB - complete</i>
					<i>Thank you</i>



# DIAMOND TESTING

## General Information Report

### General Information

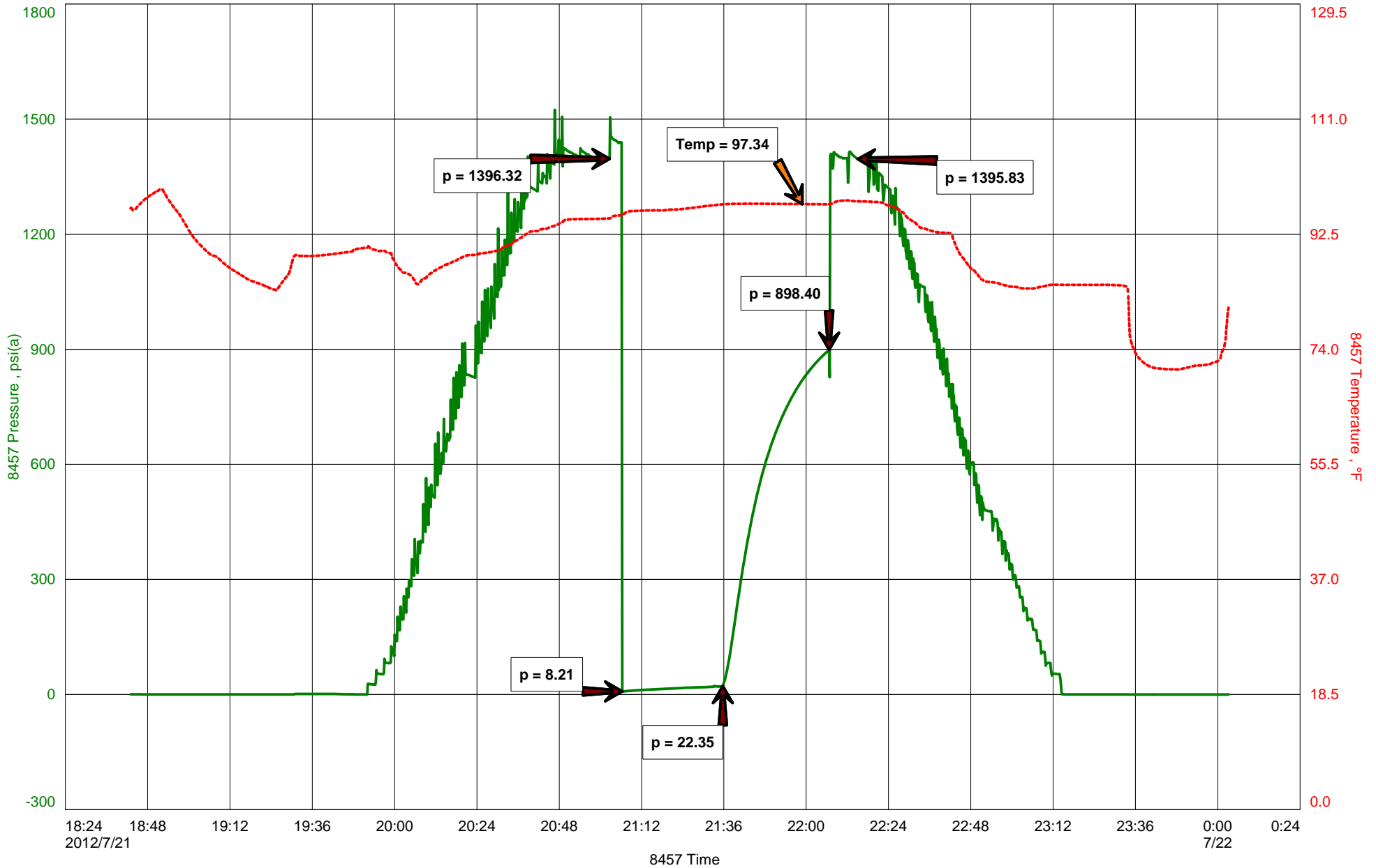
<b>Company Name</b>	L.D. DRILLING, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	L.D. DAVIS	<b>Well Operator</b>	L.D. DRILLING, INC.
<b>Well Name</b>	JUDITH #1-18	<b>Report Date</b>	2012/07/22
<b>Unique Well ID</b>	DST #1, ADMIRE, 3149-3330	<b>Prepared By</b>	TIM VENTERS
<b>Surface Location</b>	SEC 18-25S-18W, EDWARDS CO. KS.	<b>Qualified By</b>	KIM SHOEMAKER
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #1, ADMIRE, 3149-3330		
<b>Well Fluid Type</b>	02 Gas		
<b>Start Test Date</b>	2012/07/21	<b>Start Test Time</b>	18:43:00
<b>Final Test Date</b>	2012/07/21	<b>Final Test Time</b>	23:59:00

### Test Recovery:

RECOVERED: 20' MUD

TOOL SAMPLE: TRACE OIL, 100% MUD

# JUDITH #1-18







**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.



# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** L.D. DRILLING, INC.  
**Contact** L.D. DAVIS  
**Well Name** JUDITH #1-18  
**Unique Well ID** DST #2, CHEROKEE SD., 4595-4622  
**Surface Location** SEC 18-25S-18W, EDWARDS CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #2, CHEROKEE SD., 4595-4622  
**Well Fluid Type** 01 Oil

**Representative** TIM VENTERS  
**Well Operator** L.D. DRILLING, INC.  
**Report Date** 2012/07/25  
**Prepared By** TIM VENTERS  
**Qualified By** KIM SHOEMAKER

**Start Test Date** 2012/07/25  
**Final Test Date** 2012/07/25

**Start Test Time** 06:12:00  
**Final Test Time** 14:03:00

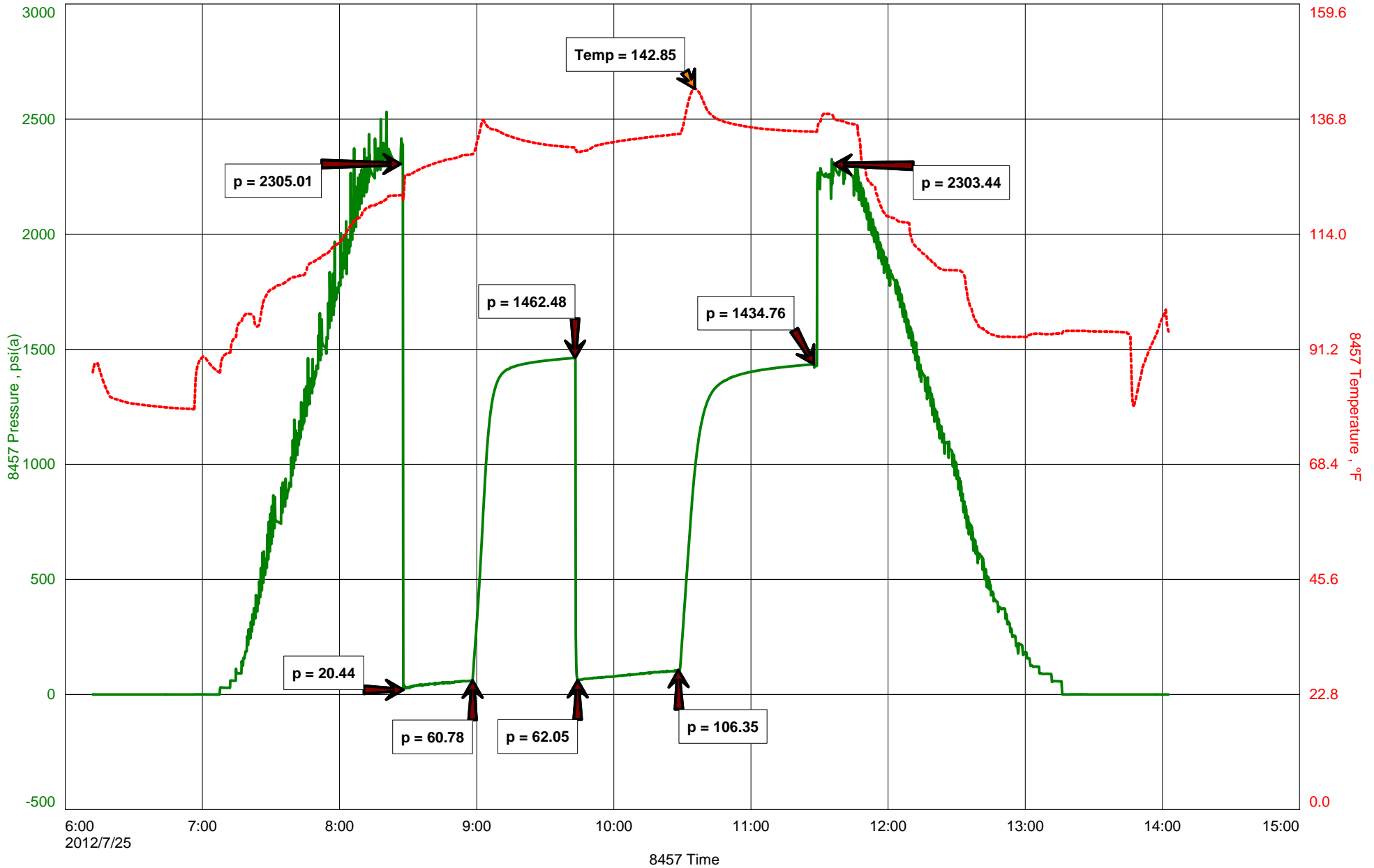
### Test Recovery:

**RECOVERED: 4275' GAS IN PIPE**  
45' GO, 3% GAS, 97% OIL, GRAVITY: 40  
60' G,HOCM, 17% GAS, 38% OIL, 45% MUD  
125' G,VSMCO, 2% GAS, 97% OIL, 1% MUD  
60' G,MCO, 10% GAS, 63% OIL, 27% MUD  
290' TOTAL FLUID

**TOOL SAMPLE: GAS BLEW OUT**



# JUDITH #1-18







**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.  
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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.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST

314-684-9709 \* WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE #1-18 JUDITH

FIELD WILDCAT

LOCATION 1875' FSL & 345' FWL

SEC 18 TWP 25s R0E 18w

COUNTY EDWARDS STATE KANSAS

CONTRACTOR PETROMARK DRILLING RIG 2

SPUD 7-18-12 COMP 7-26-12

R/O 4736 LTD 4737

MUD UP 3323 TYPE MUD CHEMICAL

ELEVATIONS

KB 2197

DI

CI 2192

Measurements Are All From 2197 KB

CASING

SURFACE 8 5/8" @ 407'

PRODUCTUM 4 1/2" @

ELECTRICAL SURVEYS

DUAL IND., DENS.-N.

MICRO. SONIC

SAMPLES SAVED FROM 2800 TO 4736

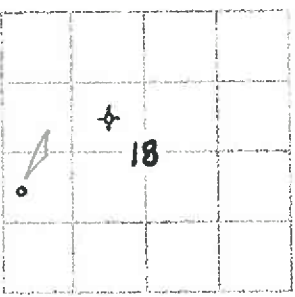
DRILLING TIME KEPT FROM 2350 TO 4736

SAMPLES EXAMINED FROM 2800 TO 4736

GEOLOGICAL SUPERVISION FROM 2800 TO 4736

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1318 + 879	1315 + 882
WABAUNSEE	3231 - 1034	3231 - 1034
STOTLER	3371 - 1174	3371 - 1174
TOPEKA	3594 - 1397	3590 - 1393
HEEBNER	3955 - 1758	3956 - 1759
BROWN LIME	4077 - 1880	4077 - 1880
LANSING	4088 - 1891	4087 - 1890
B/KC	4432 - 2235	4431 - 2234
CHEROKEE	4573 - 2376	4573 - 2376
MISSISSIPPI	4652 - 2455	4652 - 2455



REMARKS API: 15-047-21612

REMARKS

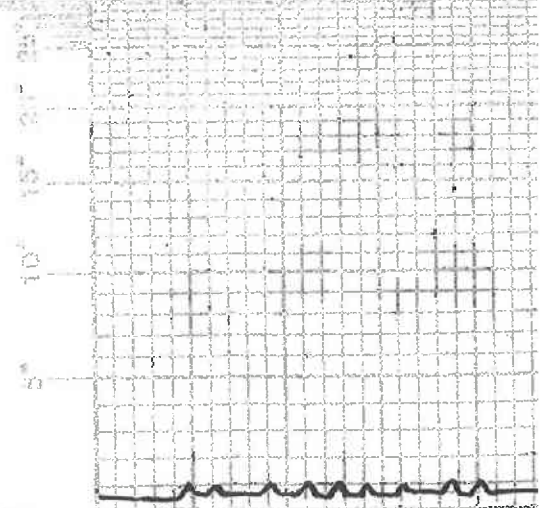
7-18-12 5:00P  
 7-19 @ 705'  
 7-20 @ 2376'  
 7-21 @ 3166'  
 7-22 @ 3462'  
 7-23 @ 3986'  
 7-24 @ 4393'  
 7-25 @ 4622'  
 7-26 @ 4736'

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Dolomite
- Chert
- Dolomite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration from well



DEPTH 1250

SHOED1-11

GEOLOGY

SAMPLE DESCRIPTIONS

REMARKS



RELINGS

SAMPLE DESCRIPTIONS

DEPTH  
1250

1300

1350

2350

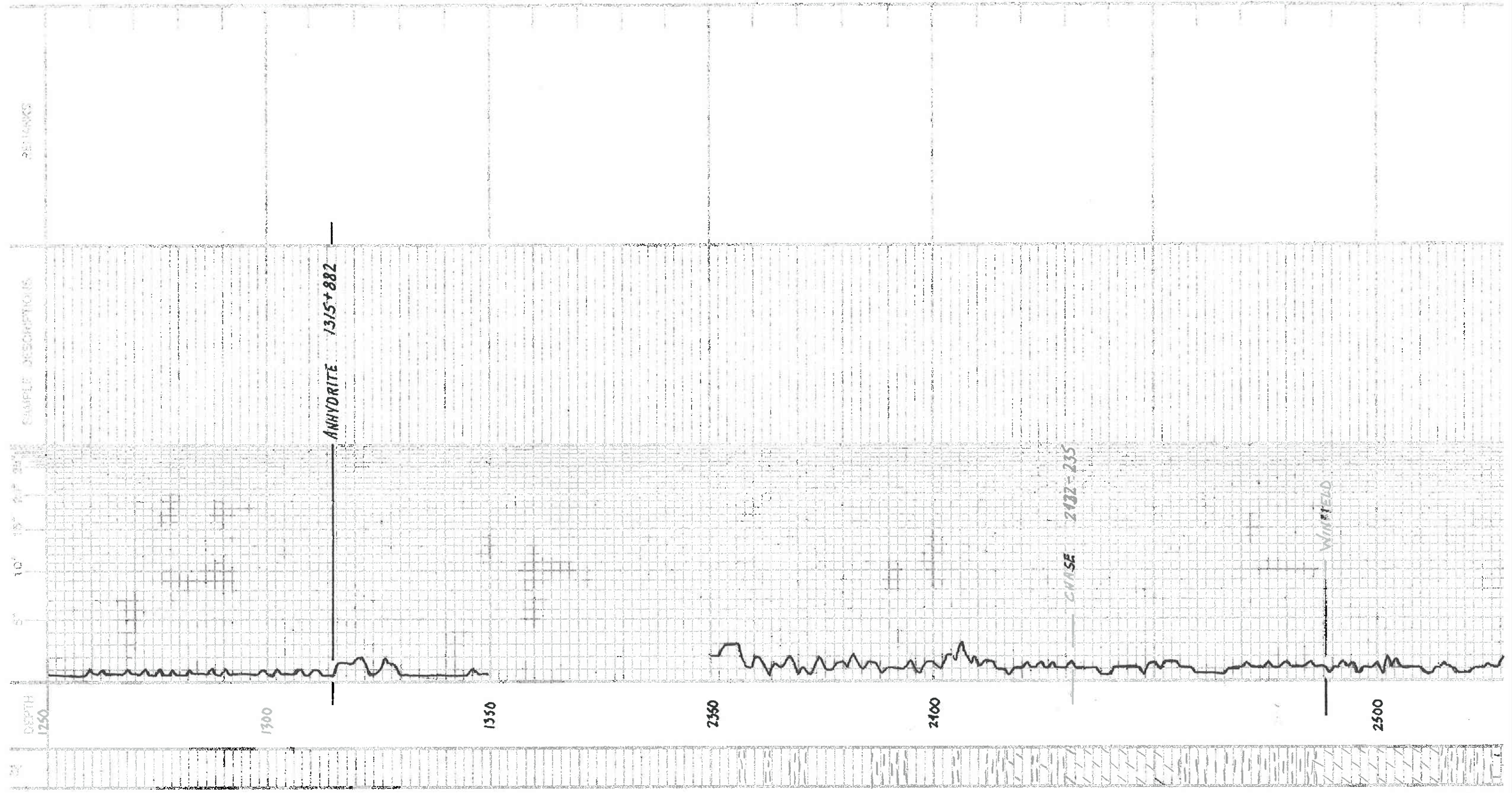
2100

2500

ANHYDRITE 1315+882

CHASE 2132-235

WINTEAD





WINFIELD

TOWANDA

FORT RILEY

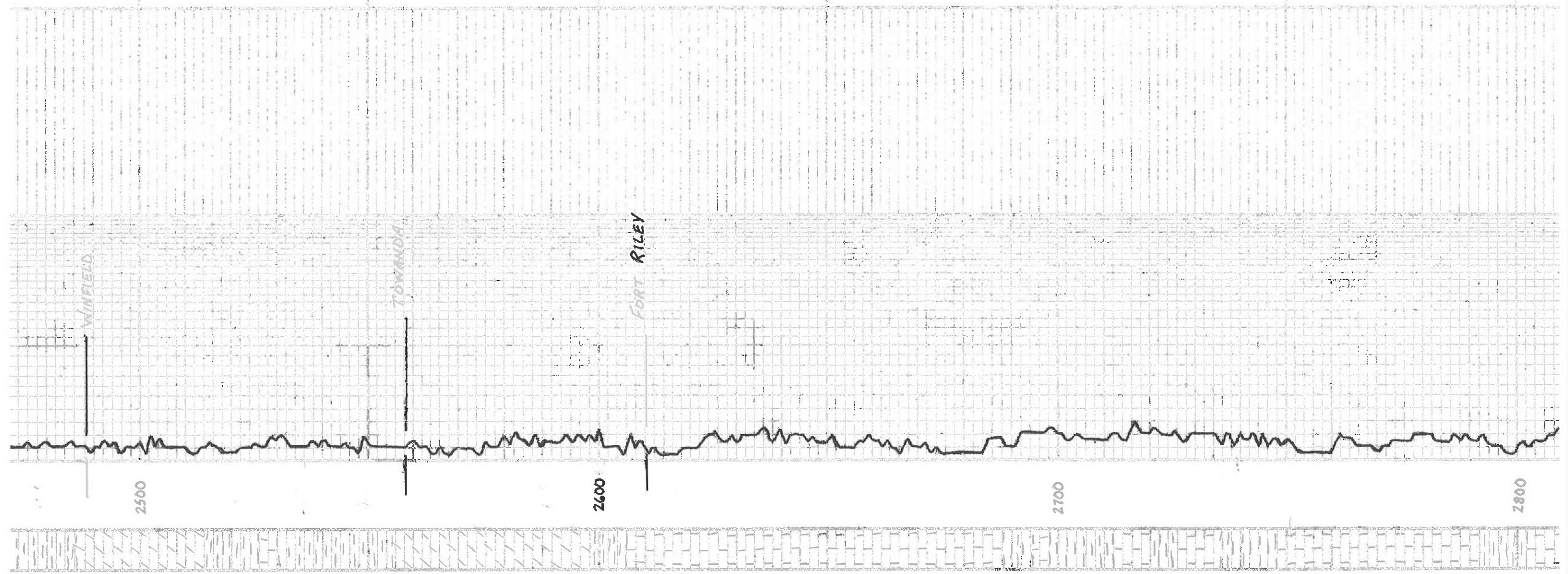
Hot wire on

2500

2600

2700

2800





2800

2900

3000

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

Sh. G. G. T. R. L. 15. W. L. G. V. S. F. S. S. C. C.

2863 220 UNIT INCR.

\*



Sh. G. Clay Rd. E.S. To L.R. V.S.I. Foss.  
E.S. Clay, S.I. Clay

Sh. G. Clay Rd. To L.S. Clay, S.I. Clay

Sh. G. Clay Rd. E.S. to S.I. Foss. of D.K. Foss.  
E.S. Foss. Du.

Sh. L.G. Clay Rd. E.S. to S.I. Foss. S.I. A

Sh. V. Clay Rd. E.S. To V.S. Foss.  
E.S. G. S.I. Clay

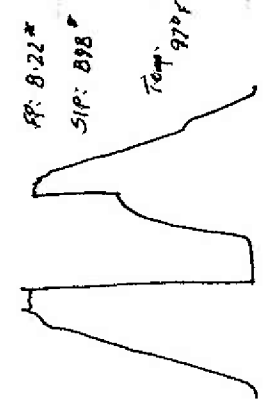
Sh. L.G. Clay Rd. E.S. to L.G. V.S.I. A  
**ADMIRE 3145-948**

Sh. L.G. Clay Rd. E.S. to L.G. Foss. L.S. Foss.

Sh. L.G. Clay Rd. E.S. To L.G. V.S.I. Foss.

Sh. L.G. Clay Rd. E.S. To Foss. S.I. A To S. North.  
DST (N) 3149-3330  
1500 FT. Blow built to 1 1/2"

30.30 Rec. 20' Mud



Sh. G. Clay Rd. E.S. to Foss. L.S. Foss.

**WABUNSEE 3231-1034**

Sh. L.S. Clay Rd. E.S. to S.I. Foss. S.I. A

Sh. G. Clay Rd. E.S. To L.G. V.S.I. Foss.

Sh. G. Clay Rd. E.S. To L.G. V.S.I. Foss. S.I. A

Sh. L.G. Rd. E.S. To L.G. V.S.I. Foss.

Sh. G. Clay S.I. Clay Rd. E.S. To G.

Sh. Rd. L.G. Co.

**STOUTER 3371-1174**

3100

3200

3300

FORAKER

DST (N)

3208-55 UNIT  
INCL.

DISPLACED  
@ 3323

VIS: 70  
WT: 8.7  
WT: 7.2  
CAL: 800



DISPLACED  
© 3323

VIS: 70  
WT: 87  
ML: 72  
OIL: 800

Sh. G. 214 Sully Rd. To 65. 74 y.

Sh. 65. 214 G.

STOTLER 3371-1174

Sh. 214 G. Con. Sully Sdy.

Sh. 65. 214 Sully. 45. To DEB. VSI Foss.

3400

TARKIO

TARKIO Log

Sh. G. 214. 45. To VSI Foss. 45. To 4. Micro-Foss.

Sh. G. 45. 214. 45. To VSI Foss. 45. To 4. Micro-Foss.

Sh. G. 45. 214. 45. To VSI Foss. 45. To 4. Micro-Foss.

Sh. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

3500

BERN

Sh. G. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

Sh. G. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

Sh. G. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

Sh. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

HOWARD 3567-1570

← 3570 40 UNIT  
INCR

Sh. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

TOPEKA 3590-1393

3600

Sh. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

Sh. G. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.

Sh. G. DEB. 45. To 4. Micro-Foss. 45. To 4. Micro-Foss.







Sh. blue clay. 2 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%  
3910 30" Sh. clay. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

HEBNER 3956-1759

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

TORONTO 3970 58 UNIT 1 INGR.

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

DOUGLAS

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

BROWN LIME 4077-1880  
Sh. blue clay. 1.5 ft. 15. wt. 100%  
15. wt. 100% sil. clay. 15. wt. 100%

LANSING 4087 Samples are lagged - 70

-1890

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay.

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

Sh. blue clay.

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

15. wt. 100% sil. clay. 15. wt. 100%

3900

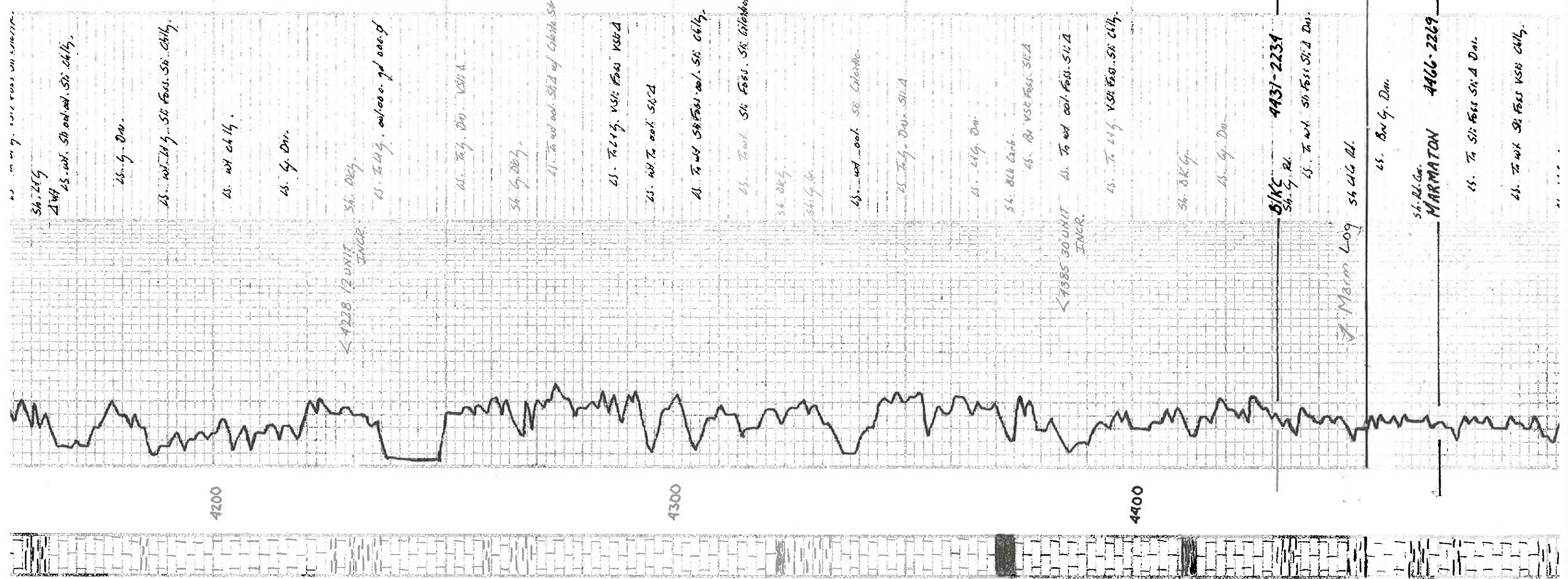
4000

4100

4200

VIS. 55  
WT. 9.9  
WLS. 9.6  
CAL. 8000





Sh. 25'g  
45. wt. Sl. ad. wt. Sl. chly.

46. g. Dm.

45. wt. 20'g. Sl. Foss. Sl. chly.

45. wt chly.

45. g. Dm.

4228 12 UNIT INCR  
Sh. 25'g.

45. To 45'g. wt. 100. g. ad. 100. g.

45. To 45'g. Dm. VSDA

Sh. 25'g.

45. To wt. ad. Sl. D. of Cl. chly. Sl. chly.

45. To 45'g. VSDA Foss. VSDA

45. wt. To wt. Sl. D.

45. To wt. Sl. Foss. wt. Sl. chly.

45. To wt. Sl. Foss. Sl. Cl. chly.

Sh. 25'g.

Sh. 25'g.

45. wt. wt. wt. Sl. Cl. chly.

45. To 45'g. Dm. Sl. D.

45. 25'g. Dm.

Sh. Blk Carb.

45. Bl. VSDA Foss. Sl. D.

4385 30 UNIT INCR  
45. To wt. wt. wt. Sl. D.

INCR.

45. To 45'g. VSDA Foss. Sl. chly.

Sh. 25'g.

45. g. Dm.

4431-2234  
Sh. 25'g. R.

45. To wt. Sl. Foss. Sl. D. Dm.

Marm Log 5446 Rd.

45. Bl. g. Dm.

Sh. Bl. Carb.  
MARMATON 4466-2269

45. To Sl. Foss. Sl. D. Dm.

45. To wt. Sl. Foss. VSDA chly.



