



KANSAS CORPORATION COMMISSION 1058169  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5123  
Name: Pickrell Drilling Company, Inc.  
Address 1: 100 S MAIN STE 505  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67202 + 3738  
Contact Person: Larry J. Richardson  
Phone: ( 316 ) 262-8427  
CONTRACTOR: License # 5123  
Name: Pickrell Drilling Company, Inc.  
Wellsite Geologist: Terry McLeod  
Purchaser: N/A

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 #: \_\_\_\_\_

06/06/2011	06/15/2011	06/16/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-097-21694-00-00  
Spot Description: C NW SE NWSE  
\_\_\_\_\_ NW SE Sec. 9 Twp. 28 S. R. 16  East  West  
1980 Feet from  North /  South Line of Section  
1980 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Kiowa  
Lease Name: Thorpe Trust 'B' Well #: 1  
Field Name: Daylight  
Producing Formation: none  
Elevation: Ground: 2140 Kelly Bushing: 2144  
Total Depth: 4770 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 454 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: 39000 ppm Fluid volume: 1800 bbls  
Dewatering method used: Evaporated  
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: Deanna Gortson Date: 06/29/2011



1058169

Operator Name: Pickrell Drilling Company, Inc. Lease Name: Thorpe Trust 'B' Well #: 1  
 Sec. 9 Twp. 28 S. R. 16  East  West County: Kiowa

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Dual Induction Compensated Neutron	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3989</td> <td>-1845</td> </tr> <tr> <td>Lansing</td> <td>4163</td> <td>2019</td> </tr> <tr> <td>Cherokee Shale</td> <td>4642</td> <td>-2498</td> </tr> <tr> <td>Mississippi</td> <td>4692</td> <td>-2548</td> </tr> <tr> <td>Kinderhook Shale</td> <td>4705</td> <td>-2561</td> </tr> <tr> <td>Kinderhook Sand</td> <td>4721</td> <td>-2577</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3989	-1845	Lansing	4163	2019	Cherokee Shale	4642	-2498	Mississippi	4692	-2548	Kinderhook Shale	4705	-2561	Kinderhook Sand	4721	-2577
Name	Top	Datum																				
Heebner	3989	-1845																				
Lansing	4163	2019																				
Cherokee Shale	4642	-2498																				
Mississippi	4692	-2548																				
Kinderhook Shale	4705	-2561																				
Kinderhook Sand	4721	-2577																				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12.25	8.625	23	454	60-40 poz	325	3%CCw/1/4#CF

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: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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 (Explain) _____	
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-3) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 037233

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Georgetown

DATE <u>6-16-11</u>	SEC. <u>9</u>	TWP. <u>28S</u>	RANGE <u>16 W</u>	CALLED OUT	ON LOCATION:	JOB START	JOB FINISH
LEASE <u>Thompson</u> WELL# <u>1</u> LOCATION <u>Harland 2 East 1/2 north</u>						COUNTY <u>Nowa</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)			west into				

CONTRACTOR Pickwell  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 7 3/8 T.D. 1170  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 1170  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ BBLs

OWNER Pickwell  
 CEMENT  
 AMOUNT ORDERED 200SX 160/40 + 4% assl  
float

EQUIPMENT  
 PUMP TRUCK CEMENTER Weyer  
 # 366 HELPER Guss  
 BULK TRUCK  
 # 341 DRIVER T...  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>120</u>	@ <u>16.25</u>	<u>1950.00</u>
POZMIX	<u>80</u>	@ <u>8.50</u>	<u>680.00</u>
GEL	<u>7</u>	@ <u>21.25</u>	<u>148.75</u>
CHLORIDE		@	
ASC		@	
<u>float</u>	<u>50</u>	@ <u>2.70</u>	<u>135.00</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>209</u>	@ <u>2.25</u>	<u>470.25</u>
MILEAGE	<u>209 x 20 x 11</u>		<u>1609.50</u>
TOTAL			<u>4993.20</u>

REMARKS:  
1st Plug 1170 Mix 50SX  
2nd Plug 480 Mix 50SX  
3rd Plug 240 Mix 30SX  
4th Plug 60 Mix 20SX  
Rathole Mix 30SX  
mouse Mix 20SX

SERVICE

DEPTH OF JOB	<u>1170</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>Truck</u>	<u>140</u>	@ <u>7.00</u>	<u>980.00</u>
MANIFOLD		@	
<u>light Truck</u>	<u>170</u>	@ <u>3.00</u>	<u>510.00</u>
		@	
TOTAL			<u>2790.00</u>

CHARGE TO: Pickwell  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment



**BASIC**  
ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	1003231	06/09/2011
INVOICE NUMBER		
1718 - 90616155		

Pratt (620) 672-1201  
 B PICKRELL DRILLING COMPANY INC  
 I 100 S MAIN ST STE 505  
 L WICHITA  
 L KS US 67202  
 T  
 O ATTN:

J LEASE NAME Thorpe Trust B-1  
 O LOCATION  
 B COUNTY Kiowa  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40329269	27463		Net - 30 days	07/09/2011	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/07/2011 to 06/07/2011</i>					
0040329269					
171804504A Cement-New Well Casing/Pi 06/07/2011					
8 5/8" Surface <del>454</del> @ 454 ft					
60/40 POZ		325.00	EA	9.48	3,081.00 T
De-foamer (Powder)		82.00	EA	3.16	259.12 T
Calcium Chloride		840.00	EA	0.83	696.78 T
Wooden Cement Plug 8 5/8"		1.00	EA	126.40	126.40
Baffle Plate Aluminum 8 5/8" (Blue)		1.00	EA	134.30	134.30
8 5/8" Basket (Blue)		1.00	EA	248.85	248.85
Industrial Rubber Thread Lock Kit		1.00	EA	26.86	26.86
Unit Mileage Charge-Pickups, Vans & Cars		20.00	HR	3.36	67.16
Heavy Equipment Mileage		40.00	MI	5.53	221.20
Proppant and Bulk Delivery Charges		280.00	MI	1.26	353.92
Depth Charge; 0-500'		1.00	HR	790.00	790.00
Blending & Mixing Service Charge		325.00	MI	1.11	359.45
Plug Container Utilization Charge		1.00	EA	197.50	197.50
Supervisor		1.00	HR	138.25	138.25

*Cement Surface Csg*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,700.78
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	294.69
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	6,995.47
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>Pickrell Drilling</b>	Lease No.	Date <b>6-7-11</b>
Lease <b>Thorpe Trust</b>	Well # <b>B-1</b>	
Field Order # <b>4504</b>	Station <b>Pratt</b>	Casing <b>8 5/8</b>
Type Job <b>CNW - 8 5/8 Surface</b>	Depth <b>455</b>	County <b>Kiowa</b> State <b>KS</b>
Formation		Legal Description <b>9-28-16</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	Cement	Acid	Pre Pad	RATE	PRESS	ISIP
<b>8 5/8</b>			<b>325 s/s</b>	<b>60/40 P02</b>	<b>1/4 Cell Stake</b>			5 Min.
Depth <b>455</b>	Depth	From	To <b>3200</b>	Pad		Max		10 Min.
Volume <b>29.12</b>	Volume	From	To	Frac		Min		15 Min.
Max Press <b>500</b>	Max Press	From	To			Avg		
Well Connection <b>P.C.</b>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <b>415</b>	Packer Depth	From	To	Flush <b>26.5</b>		Gas Volume		Total Load

Customer Representative <b>Mike Kern</b>	Station Manager <b>Dave Scott</b>	Treater <b>Steve Orlando</b>
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Service Units	<b>27283</b>	<b>27463</b>	<b>19917</b>	<b>19831</b>				
Driver Names	<b>Orlando</b>	<b>Wiser</b>	<b>McBraw</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>3:30 AM</b>					On location - Safety Meeting
					Run 11 JTs 8 5/8 Casing
					(T) 460' T.C. 455 P.D. 415 23'
					Basket on JT # <b>66</b> Top of JT # <b>455</b>
					Casing on Bottom
					Break Circ w/ Rin
<b>7:40</b>	<b>200</b>		<b>3</b>	<b>5</b>	H2O Ahead
<b>7:41</b>	<b>200</b>		<b>70</b>	<b>5</b>	Mix 325 s/s 60/40 P02 @ 14.8#/sk
<b>7:55</b>	<b>0</b>		<b>0</b>		Release Plug - Start H2O Displacement
<b>7:58</b>	<b>250</b>		<b>18.5</b>	<b>5</b>	Cement To Surface
<b>8:00 AM</b>	<b>250</b>		<b>26.5</b>	<b>4</b>	Plug Down - Released Back
					Held & Racked up H&M
					Circulation Thru Job
					Circulated 8 bbl To Pit
					Job Complete
					Thanks, Steve



# BASIC

ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

3. FIELD SERVICE TICKET  
1718 04504 A

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

DATE OF JOB <b>6-7-11</b> DISTRICT <b>Pratt</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>Pickrell Drilling</b>		LEASE <b>Thorp Trust</b>		WELL NO. <b>B1</b>					
ADDRESS		COUNTY <b>Kiowa</b>		STATE <b>Ks</b>					
CITY STATE		SERVICE CREW <b>(Deland, Lewis, McBrann)</b>							
AUTHORIZED BY		JOB TYPE: <b>8 5/8 Surface CNU</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
<b>27285</b>	<b>1</b>						<b>6-7-11</b>		<b>2:00</b>
<b>27463</b>	<b>1</b>								<b>3:00</b>
<b>19912-1731</b>	<b>1</b>								<b>3:00</b>
<b>24548</b>						ARRIVED AT JOB			<b>3:00</b>
						START OPERATION			<b>7:30</b>
						FINISH OPERATION			<b>3:00</b>
						RELEASED			<b>3:30</b>
						MILES FROM STATION TO WELL	<b>20</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 these 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
C.P103	60/HOP02	SK	325		3900.00
CC105	De-foamer	Lb	82		328.00
CC109	Calcium Chloride	Lb	840		882.00
CF158	Woodson Cement Plug 2 1/2"	ea	1		160.00
CF253	Bush Plate Aluminum 8 5/8"	ea	1		170.00
CF1903	Bucket 8 5/8"	ea	1		315.00
CF3000	Industrial Rubber Third Lock Kit	ea	1		34.00
E100	Pickup Mileage	mi	20		85.00
E101	Heavy Equipment Mileage	mi	40		280.00
E105	Bulk Mileage	Tm	220		448.00
CE200	Drill Charge (1-500)	ea	1		1000.00
CE240	Cement Service Charge	SK	335		455.00
CE504	Plug Container	ea	1		250.00
S005	Service Supervisor	ea	1		175.00

CHEMICAL / ACID DATA:		

SUB TOTAL		<b>6200.78</b>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
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FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

P.O. Box 503  
Wichita, Kansas 67201  
316-265-6431

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

OPERATOR PICKRELL DRLG CO INC.  
LEASE THORPE TRUST B WELL NO. 1  
FIELD DAYLIGHT  
LOCATION C NW SE/4  
SEC. 9 TWP. 28S RGE. 16W  
COUNTY KIOWA STATE KANSAS

ELEVATION  
KB 2144'  
DF \_\_\_\_\_  
GL 2134'  
Measurements Are All  
From KB

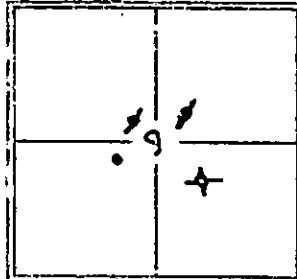
**CASING RECORD**

SURFACE 8 5/8" @ 455'  
with 32.5 ex 60/40 PPF  
PRODUCTION None

**ELECTRICAL SURVEYS**

Tucker Wireline  
Dual Induction  
Dse - Neutron

R 16W



CONTRACTOR PICKRELL DRG CO. INC. RIG NO. 1  
COMM. 6-6-2011 COMP. 6-16-2011  
RTD 4770' LOG TO 4766  
SAMPLES SAVED FROM 2600' TO RTD  
DRILLING TIME KEPT FROM 2500' TO RTD  
SAMPLES EXAMINED FROM 2600' TO RTD  
GEOLOGICAL SUPERVISION FROM 3021' TO RTD  
MUD UP 3455' TYPE MUD CHEMICAL

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
STOTLER Lm	3350	-1206	3349'	-1205	-1
BERN Lm	3482	-1338	3483	-1339	+4
TOPEKA LM	3664	-1520	3664'	-1520	FLAT
Heebner Sh.	3989	-1245	3992'	-1248	FLAT
Lansing	4163	-2019	4167	-2018	FLAT
Base Kansas Crv	4437	-2293	4434'	-2290	-5
Marmaton	4481	-2340	4488'	-2344'	-1
Cherokee Sh.	4642	-2498	4648'	-2504'	-1
Cherokee Sand	N/A		N/A		
MISSISSIPPI GG	4692	-2548	4690'	-2546	-12
Kinderhook Sh.	4705	-2561	4712'	-2568	+16
Kinderhook sd	4721	-2577	4727'	-2583	+7
Viola	557		4759'	-2615	+26

REFERENCE WELL FOR STRUCTURAL COMPARISON PLANO PETRO CORP., THORPE  
1-9, C N/2 NE SW/4 9-28S-16W, 2143 KB.

DATE	DEPTH	DESCRIPTION	REMARKS
6-7-2011	460'	set surface	
6-8-2011	1160'	drlg	
6-9-2011	2031'	drlg	
6-10-2011	2735'	drlg on loc	
6-11-2011	3380'	drlg + DST #1	Surf
6-12-2011	3568'	drlg	
6-13-2011	4180'	drlg	
6-14-2011	4627'	drlg - DST #2	
6-15-2011	4756'	drlg + DST	
6-16-2011	4770'	RTD - ELOG	Boa

FORMATION	INTERVAL	DESCRIPTION OF SHOW
Bern Lime	3483-3499	10 UK - 90 UK
cher. sd	4672-75'	LS. TAN, FN-RN. POSS. PD. S. Sd. at top of interval - 2-3 ft bed str + 155 ft. No oil
Comp - Miss	4690-94	chert tan-yell. - wh. opaque weath. H.S., no odor
MISSISSIPPI	4700-08	chert wh op-dull fresh. SL weath. w/ blk gr. str. No live oil. No odor
Kinderhook sd	4731-4739	SS, wh. fa-grnd w/ 3 w/ blk str and film. Broken - tight bot u





McLeod05

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Increases



DEPTH

5" 10" 15" 20" 25"

2500

10

20

30

40

50

60

70

80

90

2600

10

20

30

40

50

60

70

80

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

41 + Samples (22)

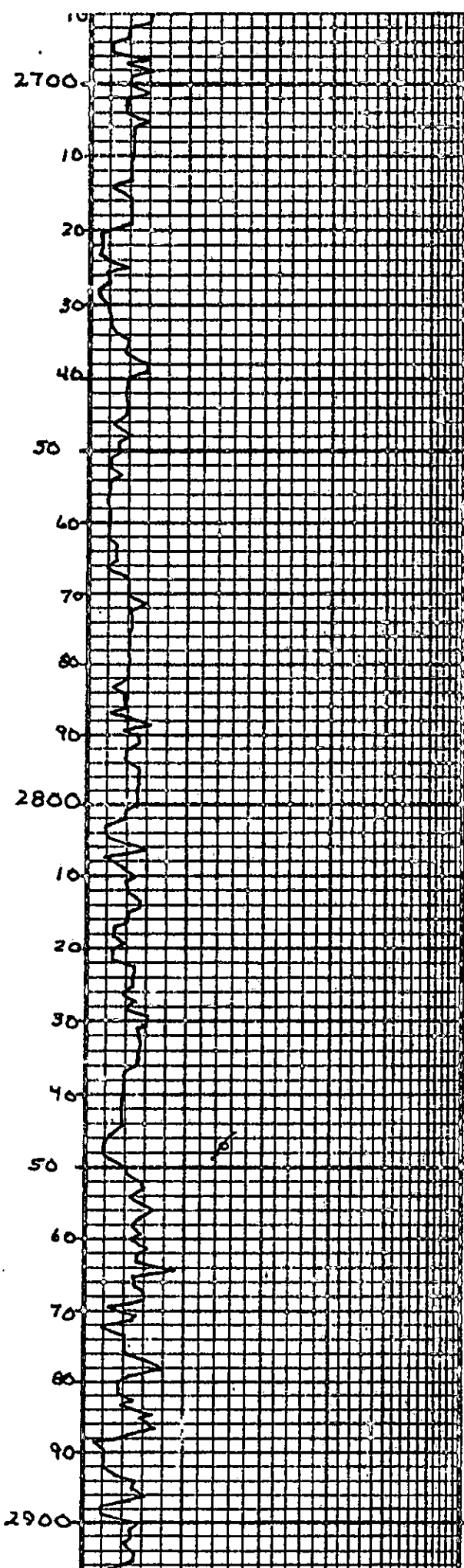
1a. tan. gray sh. - clay  
+ fine. sh. sh. N.S. shaly

1b. 14 tan. gray - loss of  
gd. fine sh. N.S.

1c. tan - gray sh. - clay  
+ fine. sh. sh. N.S. shaly  
N.S. KICK

sh. gray s.

1d. tan - gray sh. - clay  
+ fine. sh. sh. N.S. shaly



sh. gray - dark gray  
st. silty

ls. tan - cream. fr. sh. + foss.  
N.S.

sh. varicolorous.

" No Sample "

" No Sample "

sh. med gray

ls. tan, fr. sh. - foss.  
T.C. med. N.S.

ls. cream - tan fr. sh.  
f. sh. foss. N.S. PB sp

sh. gray - red

sh. gray's

ls. cream - tan fr. sh. -  
sh. foss. light ex. N.S.

ls. tan - gray fr. sh. -  
foss. N.S.

sh. gray.

ls. cream - tan sh. -  
f. sh. N.S.

NO KICKS →

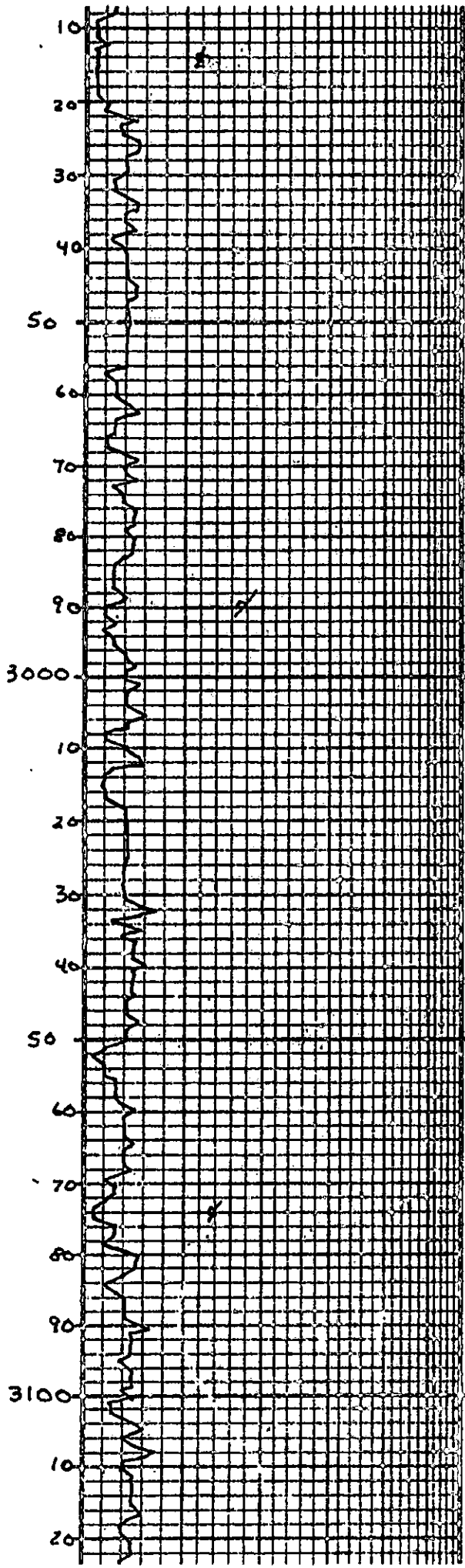
ls. cream - tan sh. -  
f. sh. N.S. PAKY

ls. cream - tan fr. sh. -  
foss. N.S. sh. absy

sh. gray - red

sh. gray - red - pink

ls. tan fr. sh. - sh. foss



1a. tan - grey foss w/ gl  
 foss. N.S.

1b. tan. sl. foss - N.S.

sh. grey - blk.

1c. tan. fn. xln. sl. foss  
 tight rx - N.S.

shly - grey.

1d. tan. tan. fn. xln. f  
 foss - tr matt - N.S.

sh. varicolored - blk

1e. tan. fn. xln. foss +  
 cherty w/ foss. N.S.

1f. tan. fn. xln. sl. foss  
 tight rx - N.S.

sh. grey - varicolored

sh. varicolored

1g. tan. fn. xln. dia, pr.  
 N.V.P. N.S.

1h. tan. dia, N.V.P. N.S.

sh. dk grey

shly.

1i. tan. fn. xln. sl.  
 foss - 7. poor spl.

1j. tan. tan. foss w/  
 f. gl. N.S.

1k. tan. fn. xln. tight  
 N.S.

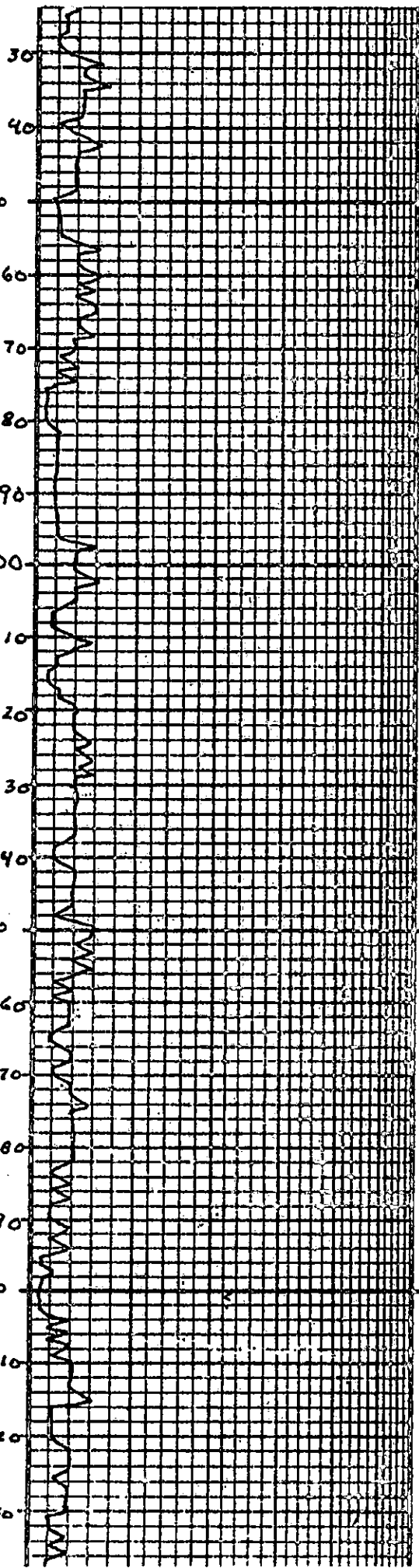
sh. grey - red

1l. tan. fn. xln. sl. foss  
 N.S.

1m. tan. fn. xln. foss  
 N.S.

NO KICKS -

No Kicks



Ls. Com. tan. sh. - sh. - foss  
 w/ fr. 9d. foss. N.S.  
 pale. p. 5 - of floor. NO. KICK

sh. grey - rd

Ls. tan. sh. - sh. - light  
 fr. N.S.

sh. varicolored  
 some s. by sh.

Ls. tan. + fr. - sh. -  
 fr. x. m. light pr.  
 - N.S.

Ls. sh. - sh. - dec. N.S.

Ls + sh. - N.S.

sh. varicolored

Ls. Com. sh. - sh. - fr.  
 part. N.S.

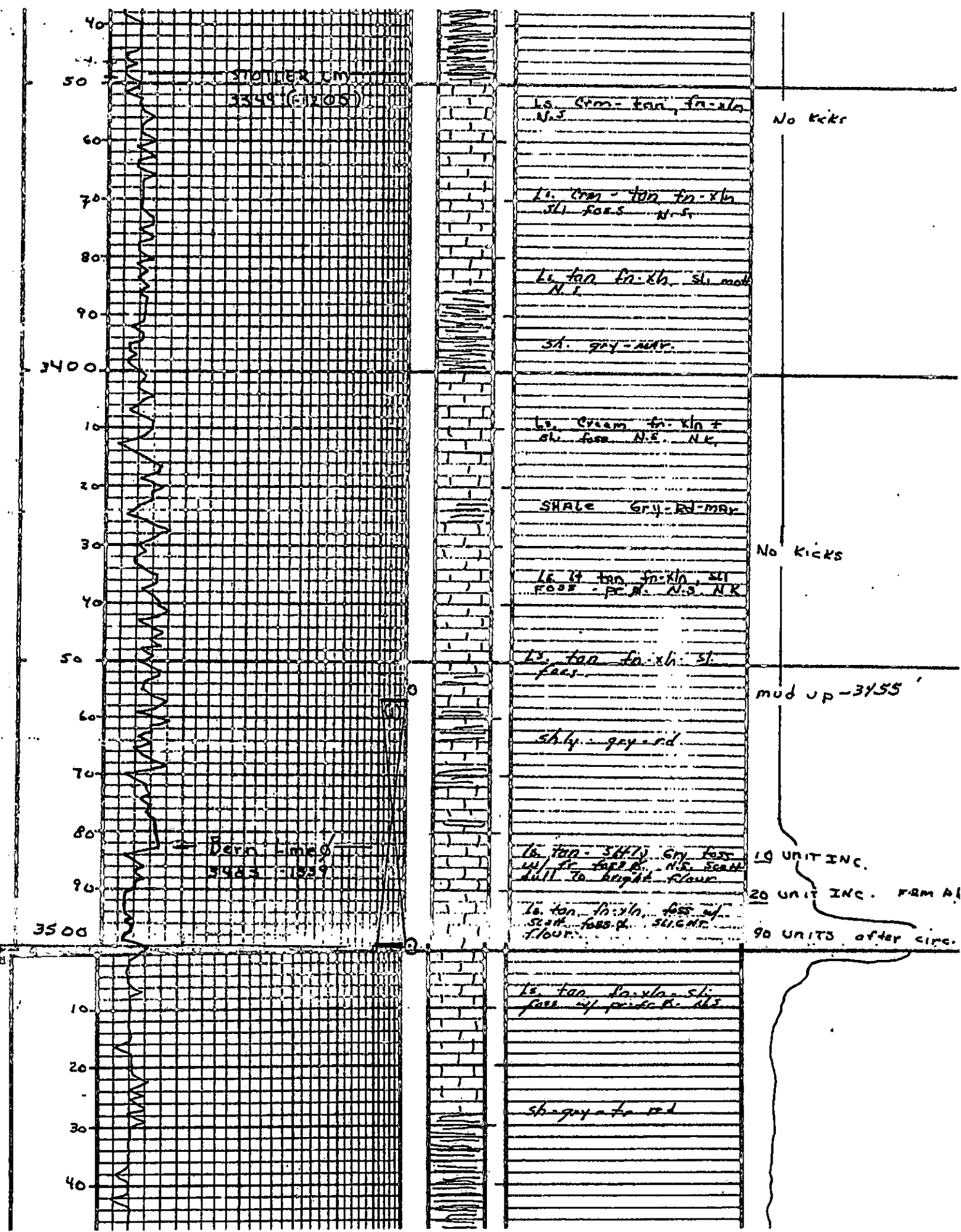
Ls. Com. sh. - sh. - fr.  
 part. N.S.

fr. sh. grey. mostly  
 sh.

sh. grey - varicolored

sh. grey - varicolored

no kick



STOTLER LN  
3349 (E1205)

Ls. Cream-tan, fn-ala  
N.S.

No kicks

Ls. Cream-tan, fn-ala  
sh. foss. N.S.

Ls. tan, fn-ala, sh. med  
N.S.

sh. gray-red.

Ls. Cream, fn-ala  
sh. foss. N.S. NK

SHALE Gray-Red-MAR

No kicks

Ls. tan, fn-ala, sh  
foss. - P. N. N.S. NK

Ls. tan, fn-ala, sh  
foss.

mud up - 3455'

shly. gray-red.

Bern lime  
3483-1239

Ls. tan - shly. Gray foss  
w/ fr. foss. N.S. sh. med  
full to bright floor

19 UNIT INC.

Ls. tan, sh-ala, foss w/  
sh. med, slight floor.

20 UNIT INC. FROM A1

90 UNITS after circ.

Ls. tan, sh-ala, sh  
foss w/ prob. P. sh

sh-gray to red

DST NO. 1 3457.3  
 Luk inc blow to 806  
 GTS - 45" 2nd op:  
 45" 60" 60" 60"  
 Rec; 130' mud  
 SIP: 1020' - 102"  
 FP: 23" / 45"  
 40" / 50"

Ls. Cream. H. tan. fr. xln. fass  
 w/ f. qd. f. fass. qd. N.S.  
 Ls. tan. cream. fr. xln. fass  
 sh. gray  
 Ls. cream. fr. xln. fass  
 w/ f. qd. f. N.S.  
 Ls. tan. fr. xln. N.S.

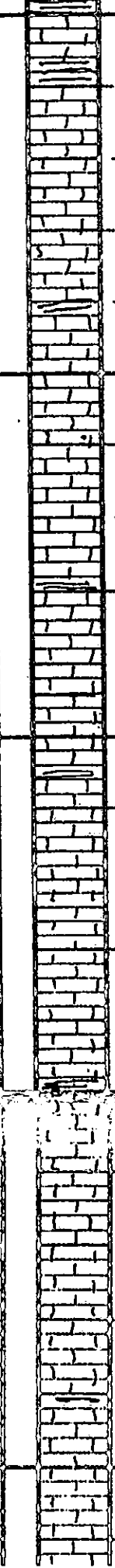
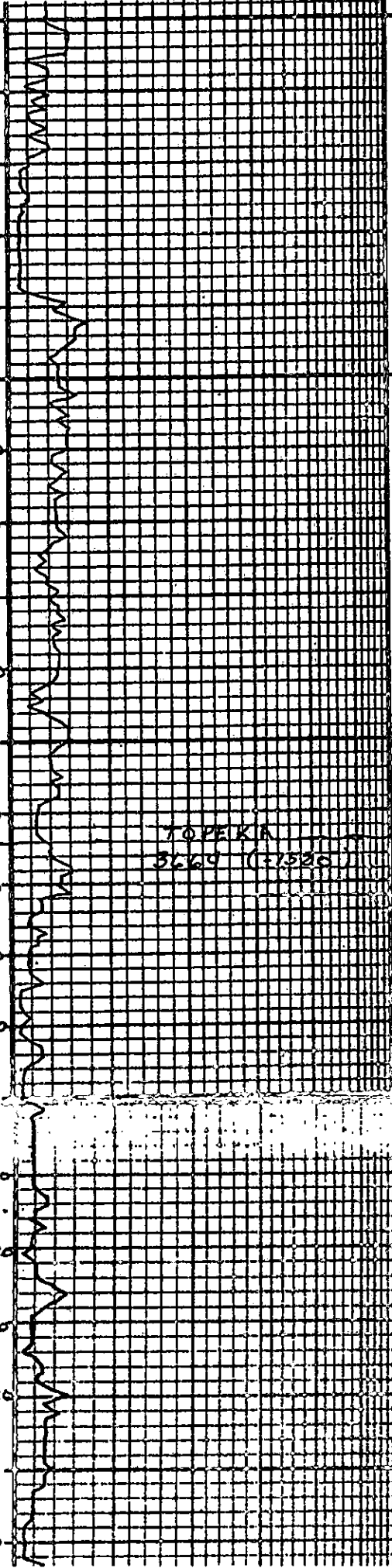
Ls. tan. fr. xln. chky  
 N.S.  
 sh. gray  
 Ls. tan. gray fr. xln  
 chky. N.S.

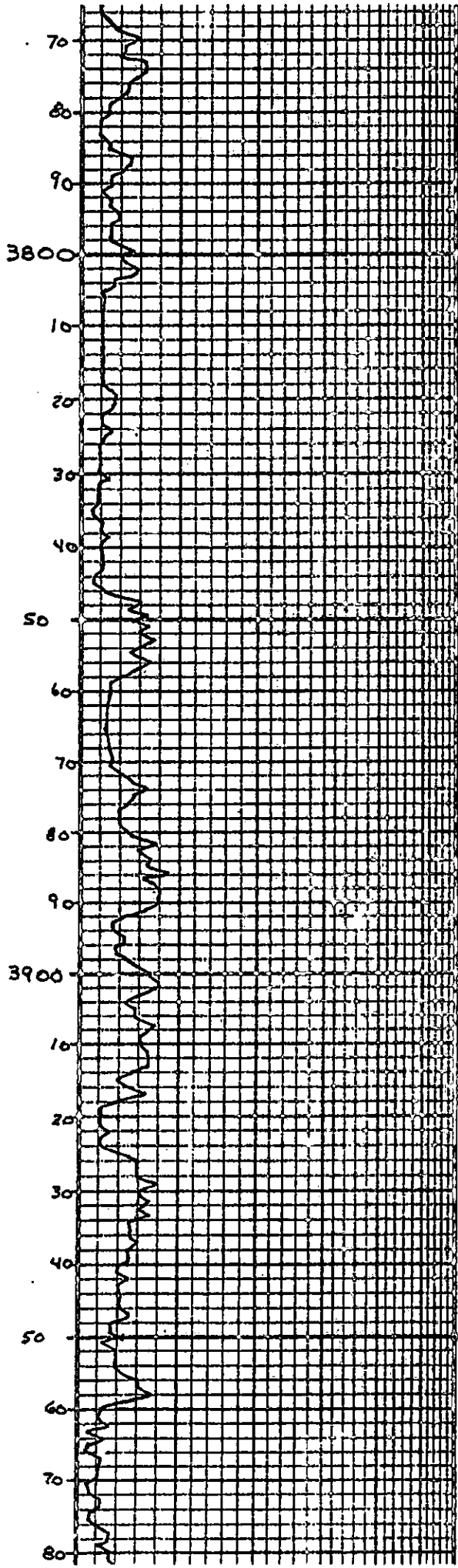
sh. dk gray  
 Ls. cream w/ fr. xln. fass  
 w/ f. qd. f. fass. qd. N.S.  
 "TR A"  
 Ls. cream. fr. xln. fass  
 w/ f. qd. f. chky, "TR A"

Ls. Cream. fr. xln. fass -  
 scatt. qd. N.S.  
 Ls. tan. fr. xln. fass  
 w/ f. qd. f. "TR A"  
 Ls. tan. fr. xln. scatt. A  
 sh. gray  
 Ls. Cream. fr. xln. fass  
 w/ f. qd. fass. N.S. chky

TOPEKA  
 3669 (1-1526)

50  
60  
70  
80  
90  
3600  
10  
20  
30  
40  
50  
60  
70  
80  
90  
3700  
10  
20  
30  
40  
50  
60





sh. gray  
ls. con. dec. N.W. N.E.  
chky

ls. con. fr. sh. chky.

ls. tan sh. sh. foss  
w/ qd. fossil. chky

ls. tan fr. sh. foss w/  
fr. qd. chky N.S.

sh. drk. gray - N.E.

ls. tan sh. sh. + foss  
foss. chky N.S.

chky

ls. tan fr. sh. - drk  
N.E. light

ls. con. gray. fr. sh. sh.  
foss. chky - N.S.

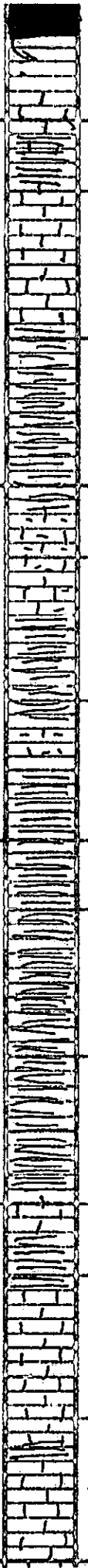
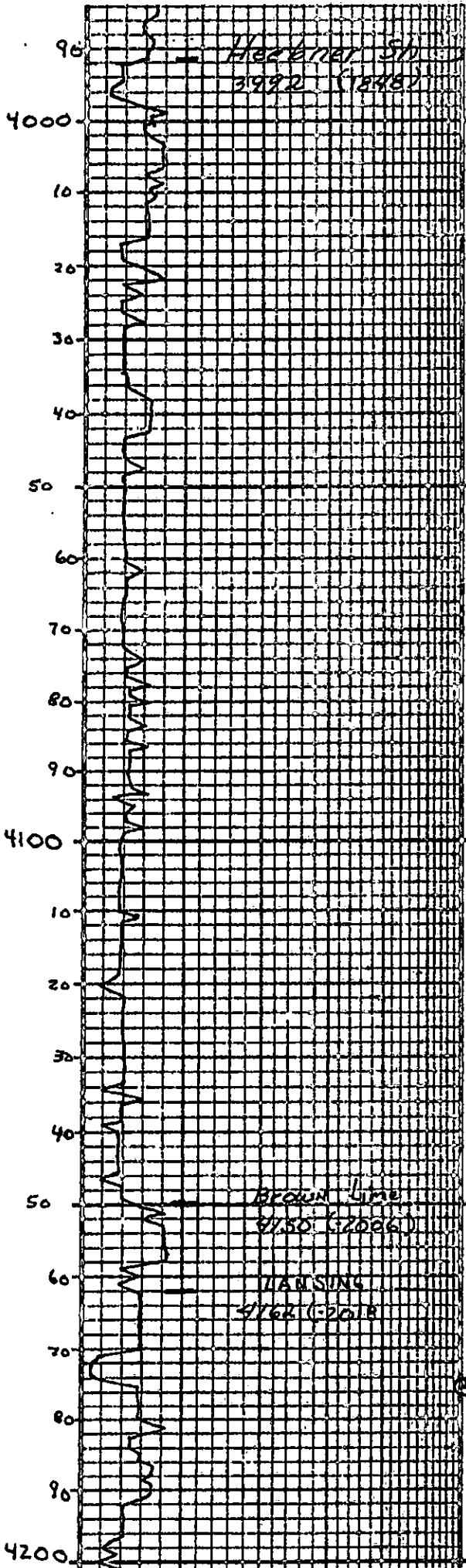
ls. con. gray. fr. sh. + foss  
w/ qd. N.S. fossil. N.S.  
chky

sh. drk. gray.

sh. black carb.

ls. con. wh. fr. sh.  
w/ qd. ph. chky  
N.S.

ls. con. wh. fr. sh.  
lumpy + chky. N.S.



sh. dk. gray

sh. blk carb

ls. tan. fa. xln tight N.S.

sh. gray-mar

ls. tan. wh. fa. xln. fair. w/ sh. fossils to top N.S. sh. chky

ls. tan. wh. fa. xln fossils - chky - N.S.

sh. gray sh. mar

fr. ls. tan. gray - H. gray. fa. xln - N.S.

ls. sh. sh. ly.

ls. med. gray. sh. tan. fa. xln from a lower

sh. med. dk. gray

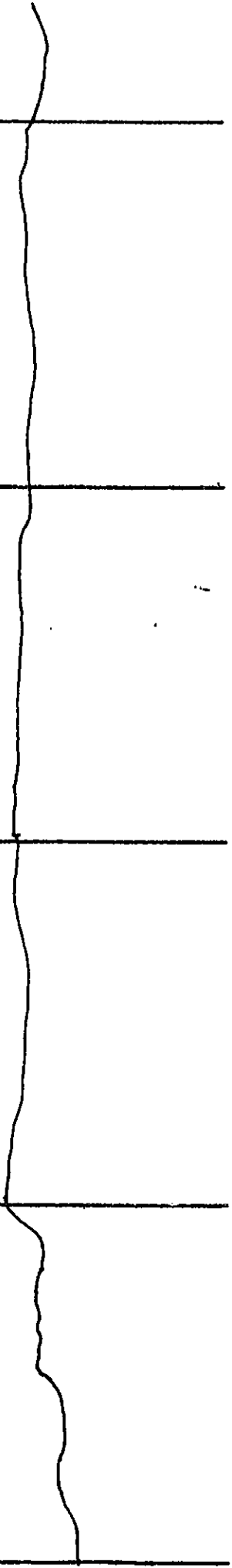
sh. gray's - dk. gray tabular.

ls. tan. H. tan. dk. N.S. N.S.

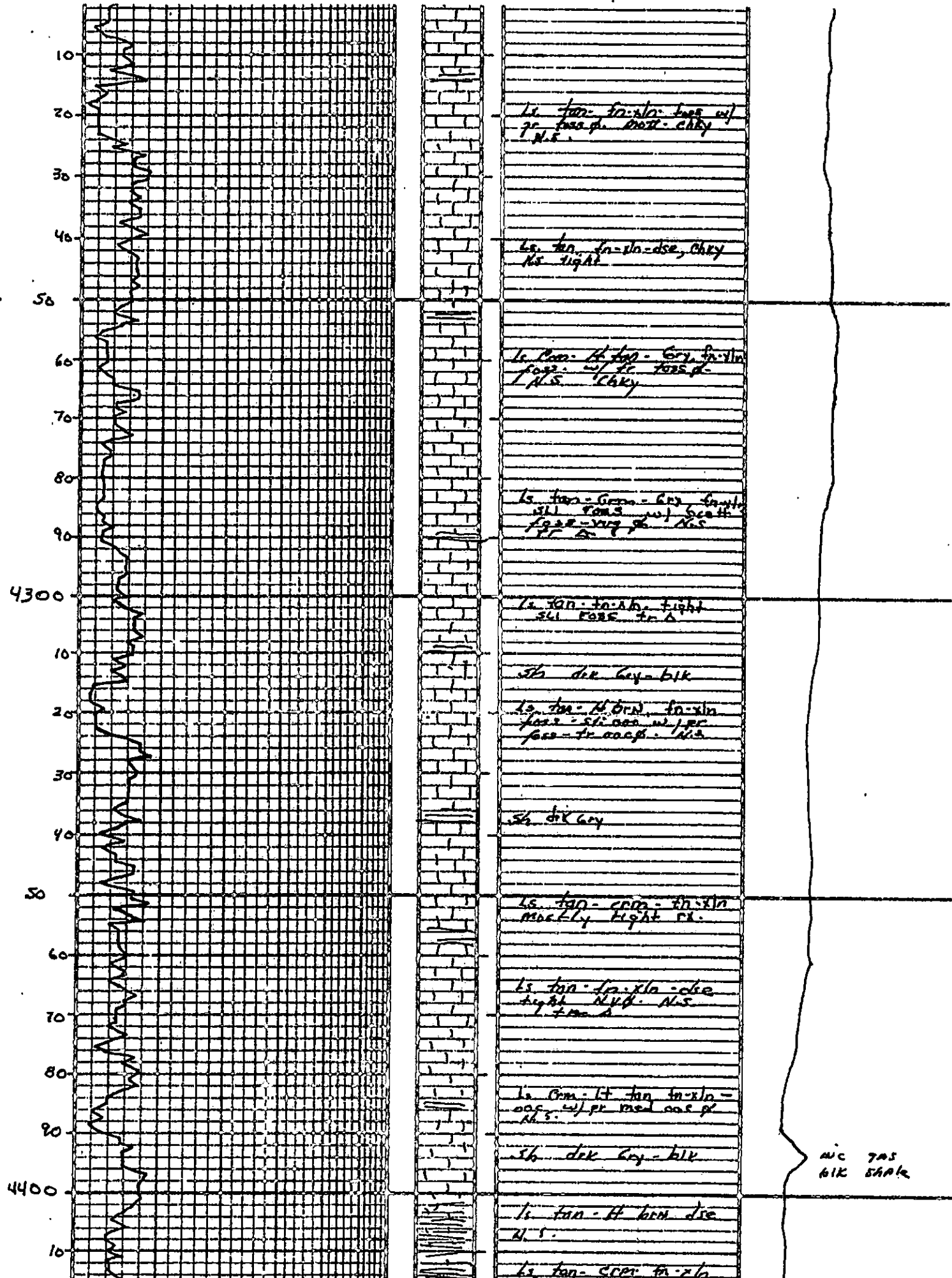
ls. tan. fa. xln. fair. to top. N.S. - tight fossils N.S.

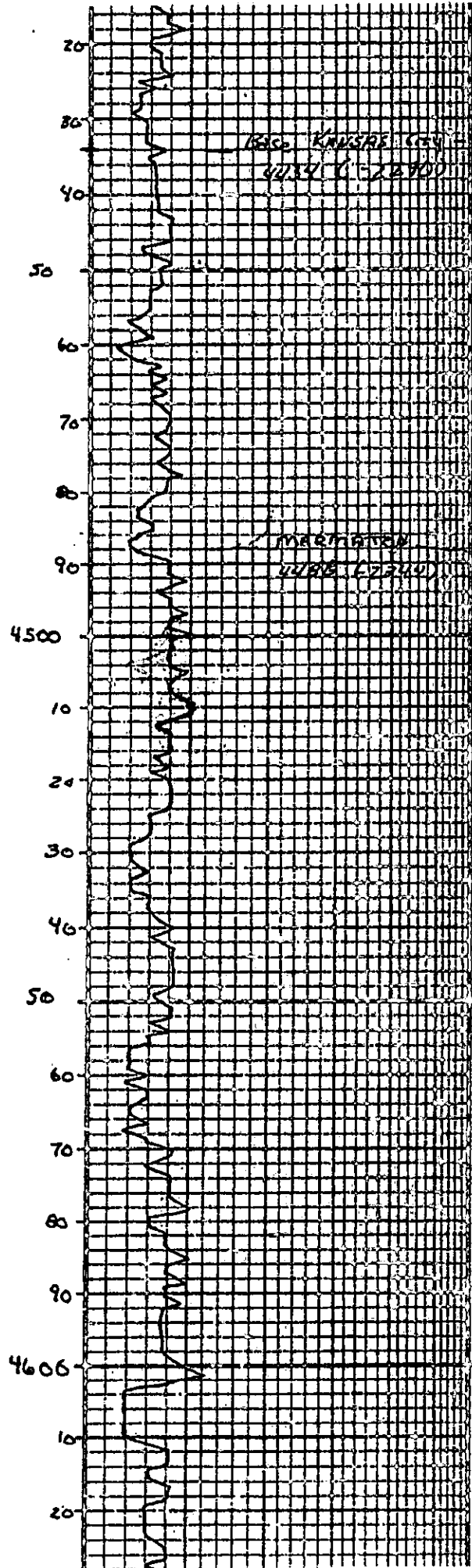
ls. tan. fa. xln. sh. fossils 1948 N.S. N.S.

ls. tan. fa. xln. fossils of fossils. N.S. chky









fms - SEAT of N.S.  
 CHKY

ls. con - tan. fa. xlo scab.  
 fms of. fr. qsp. rps rps  
 chky. NO (LWR. OI)

ls. con - tan. fa.  
 xlo - dsa. NVR N.S.

sh. gray - mud

ls. tan - gray - con. fa. xlo  
 - 10 fms - dsa. NVR N.S.

ls. tan - fa. xlo - dsa  
 Hrd - tight. N.S.  
 chky. N.S.

shly

sh. gray - mud

ls. tan - con. dsa. Hrd  
 tight. N.S.

ls. tan - con. dsa. Hrd  
 NVR N.S.

shly

ls. tan - con. dsa  
 H.V.R. N.S.

sh. med. drk gray - mud

ls. tan dense, Hrd  
 TIGHT - NVR N.S.

shly

shly

ls. tan - gray - dsa  
 Hrd - NVR N.S.

ls. tan & gray dsa  
 Hrd - NVR N.S.

sh. gray - blk. con.

ls. tan fa. xlo. tight  
 sh. fms. N.S.

ls. tan - gray - dsa Hrd

BASE KANSAS (G.S.)  
 4484 (L7340)

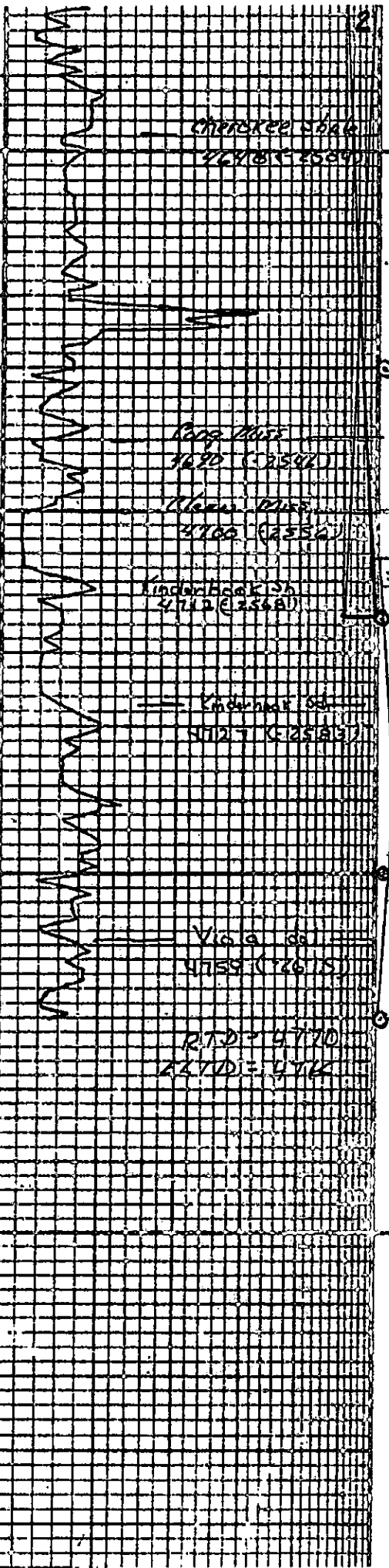
MAGNETON  
 4488 (L7340)

DST No2 4629'  
 wk blow 1st op  
 No blow 2nd op  
 30" 60" 30"  
 Rec: 85' GIP  
 35' mud  
 SIP - 83<sup>#</sup> - 72<sup>#</sup>  
 FP - 26<sup>#</sup> / 36<sup>#</sup> + 3d

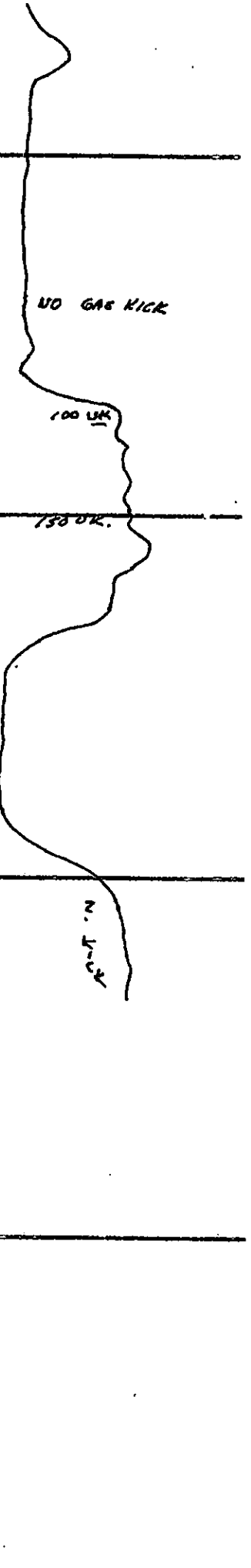
DST No3 4707'  
 wk blow 1st op  
 no blow 2nd op  
 30" 60" 30"  
 Rec: 15' mud  
 SIP: 77<sup>#</sup> - 53<sup>#</sup>  
 FP: 25<sup>#</sup> / 28<sup>#</sup> - 3.


2

40  
50  
60  
70  
80  
90  
4700  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4800  
10  
20  
30  
40



Sh. blk. carb  
ls. tan. sec, NUG N.S.  
Sh. blk. gry-blk  
ls. H tan. fr. sh. scatt  
sup. sh. g. blk. blk  
N.S.  
fr. sh. sec, nod. sh. blk. tight  
N.S. k-st. alm. + sh.  
H.  
fr. sh. sec w/ g/1 sh  
sh. m. ls. also + sh  
1st cluster w/ g/1 sh  
sec - gry  
shy, yell. reworked op  
sh. N.S.  
short w/ op. fresh  
N.S. short. Bl. w/ sh. w/ blk  
bl. bl. sh.  
sh. w/ H. g/1. V. g/1. grad  
finable N.S. - sh. g/1  
- gry.  
sh. varicolored scatt  
S's + to ss.  
ss. w/ g/1. tan. g/1  
clustered. 1 pc w/ h/1  
sh. No blk  
scatt S. N.S.  
sh. w/ H. g/1. tan. g/1  
sep. finable, clustered  
1 pc w/ sh. - No blk  
ss. w/ 3-4 pct w/ blk  
Rn = 72 FO NO g/1  
ls. w/ op. tan. g/1  
at ss. sh.  
sh. - varicolored  
ls. tan. ls. tan. - sh.  
ls. op. tight RY  
N.S.



50 60 70 80 90 4900	5" 10" 15" 20" 25" DRILLING TIME Minutes/Foot Rate of Penetration Increases 	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
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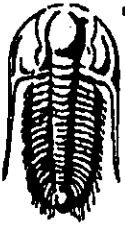
COMPANY \_\_\_\_\_

LEASE \_\_\_\_\_

ELEVATION: \_\_\_\_\_

LOCATION \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_

COUNTY \_\_\_\_\_ STATE \_\_\_\_\_



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pickrell Drig Comp INC

100 S Main STE 505  
Wichita KS 67202

ATTN: Larry Richardson/TerrWichita KS 67202

Thorp Trust B #1

9-28s-16w

Job Ticket: 37493

DST#: 1

Test Start: 2011.06.11 @ 18:00:42

## GENERAL INFORMATION:

Formation: **Berg**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 20:27:12

Time Test Ended: 02:02:12

Test Type: **Conventional Bottom Hole**

Tester: **Chris Staats**

Unit No: **34**

Interval: **3457.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Total Depth: **3500.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2144.00 ft (KB)**

**2134.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8166**

Outside

Press@RunDepth: **50.12 psig @ 3458.00 ft (KB)**

Start Date: **2011.06.11**

End Date:

2011.06.12

Start Time: **18:00:47**

End Time:

02:02:11

Capacity: **8000.00 psig**

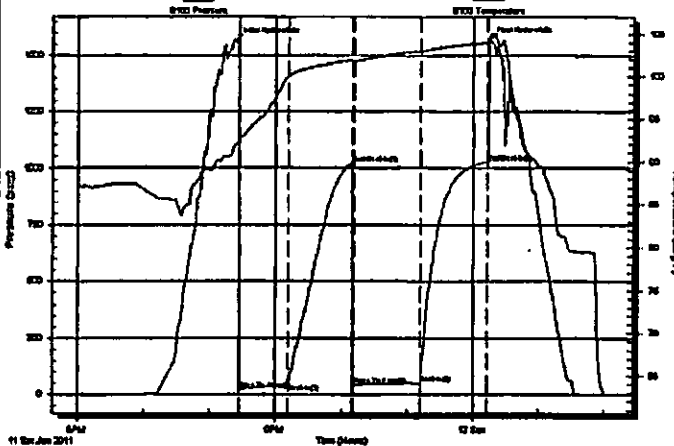
Last Calib.: **2011.06.12**

Time On Btm: **2011.06.11 @ 20:22:57**

Time Off Btm: **2011.06.12 @ 00:14:57**

**TEST COMMENT:** IF: Strong blow BOB 20 min  
IS: No blow back  
FF: Strong blow GTS 45 min  
FSt: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

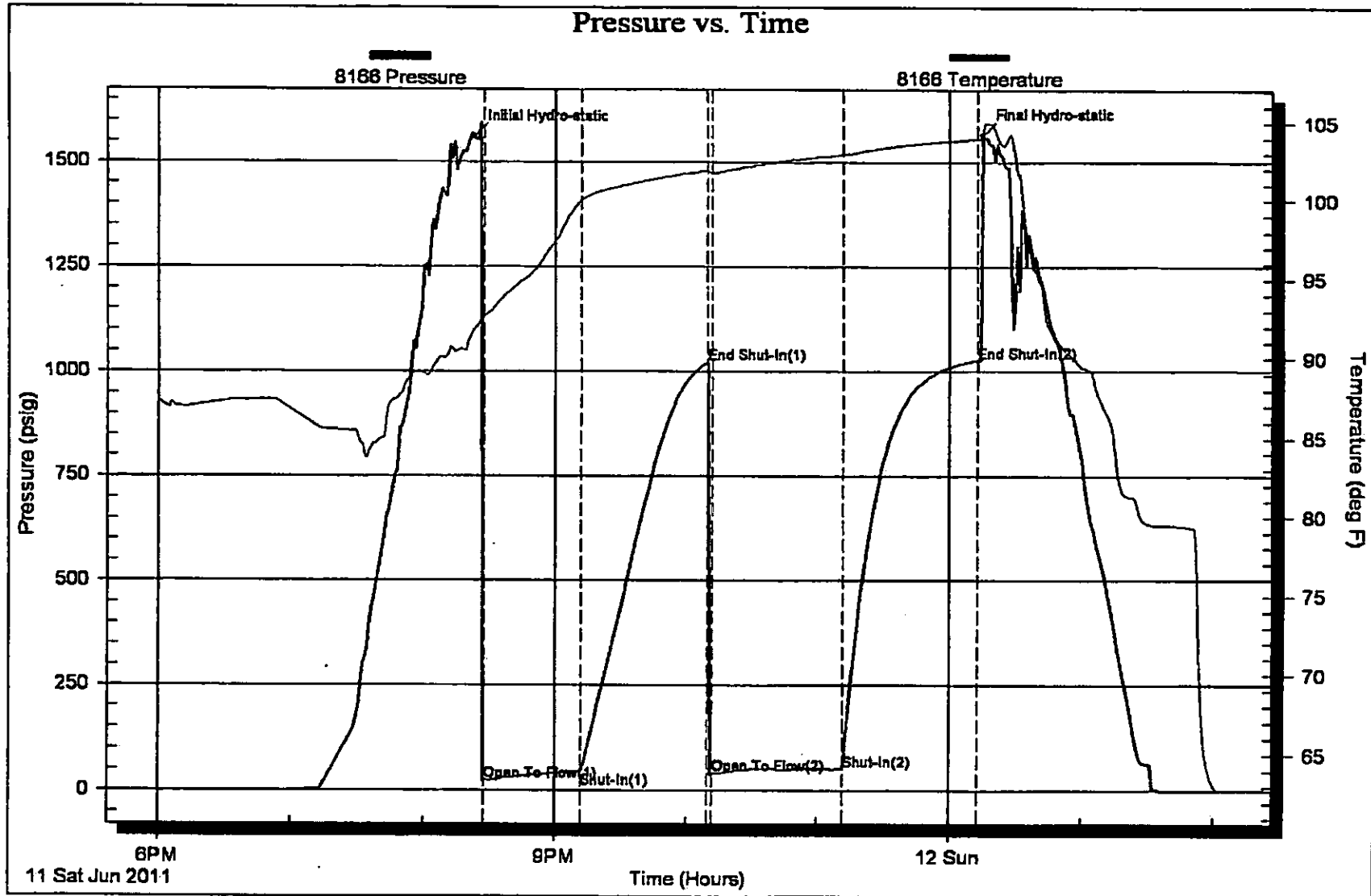
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.41	91.89	Initial Hydro-static
5	22.88	92.74	Open To Flow (1)
49	45.34	100.00	Shut-in(1)
107	1020.27	101.90	End Shut-in(1)
109	40.08	101.75	Open To Flow (2)
169	50.12	102.86	Shut-in(2)
230	1024.85	103.97	End Shut-in(2)
232	1565.47	104.28	Final Hydro-static

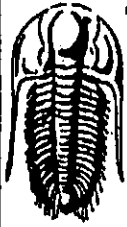
## Recovery

Length (ft)	Description	Volume (bbl)
130.00	MUD 100%	0.68

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Pickrel Drilling Co. Inc.

100 S. Main Ste. 505  
Wichita KS 67202

ATTN: Larry Richardson/TerrWichita KS 67202

Thorpe Trust B #1

9-28s-16w Klowa ks.

Job Ticket: 042502

DST#: 2

Test Start: 2011.06.14 @ 18:52:57

**GENERAL INFORMATION:**

Formation: Miss.  
Deviated: No Whipstock ft (KB)  
Time Tool Opened: 21:15:12  
Time Test Ended: 02:23:57

Test Type: Conventional Bottom Hole  
Tester: Gary Favoteaux  
Unit No: 56

Interval: 4629.00 ft (KB) To 4715.00 ft (KB) (TVD)  
Total Depth: 4715.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2144.00 ft (KB)  
2134.00 ft (CF)  
KB to GR/CF: 10.00 ft

Serial #: 8167

Inside

Press@RunDepth: 38.34 psig @ 4630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.14

End Date:

2011.06.15

Last Calib.: 2011.06.15

Start Time: 18:53:02

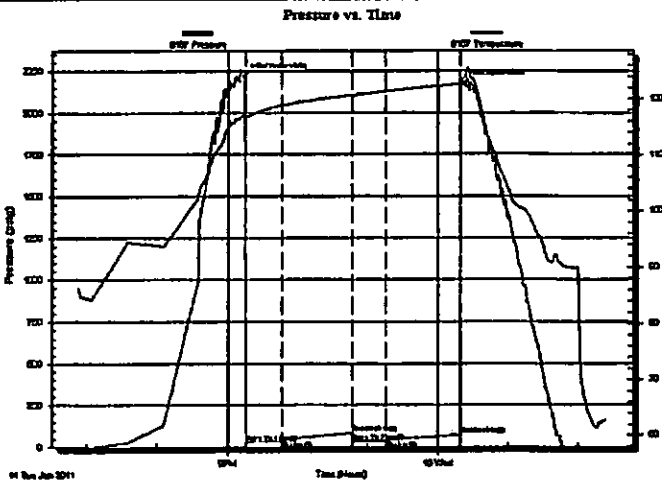
End Time:

02:23:56

Time On Btm: 2011.06.14 @ 21:13:57

Time Off Btm: 2011.06.15 @ 00:20:42

TEST COMMENT: IF:Weak blow . Increase to 5 1/2".  
IS:No blow .  
FF:Weak blow . 1/2 1 1/2".  
FS:No blow .



**PRESSURE SUMMARY**

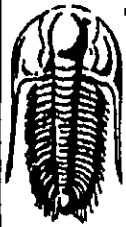
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.43	117.14	Initial Hydro-static
2	25.73	116.71	Open To Flow (1)
33	36.08	118.86	Shut-in(1)
93	82.57	120.69	End Shut-in(1)
93	31.96	120.67	Open To Flow (2)
122	38.34	121.41	Shut-in(2)
185	72.11	122.71	End Shut-in(2)
187	2172.80	123.48	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
35.00	Drig.mud	0.17
0.00	85 ft.of GP	0.00

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Pickrel Drilling Co. Inc.

Thorpe Trust B #1

100 S. Main Ste. 505  
Wichita KS 67202

9-28s-16w Kiowa kS.

Job Ticket: 042502

DST#: 2

ATTN: Larry Richardson/TerrWichita KS 67202

Test Start: 2011.08.14 @ 18:52:57

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

10000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbf
35.00	Drig.mud	0.172
0.00	85 ft.of GIP	0.000

Total Length: 35.00 ft

Total Volume: 0.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

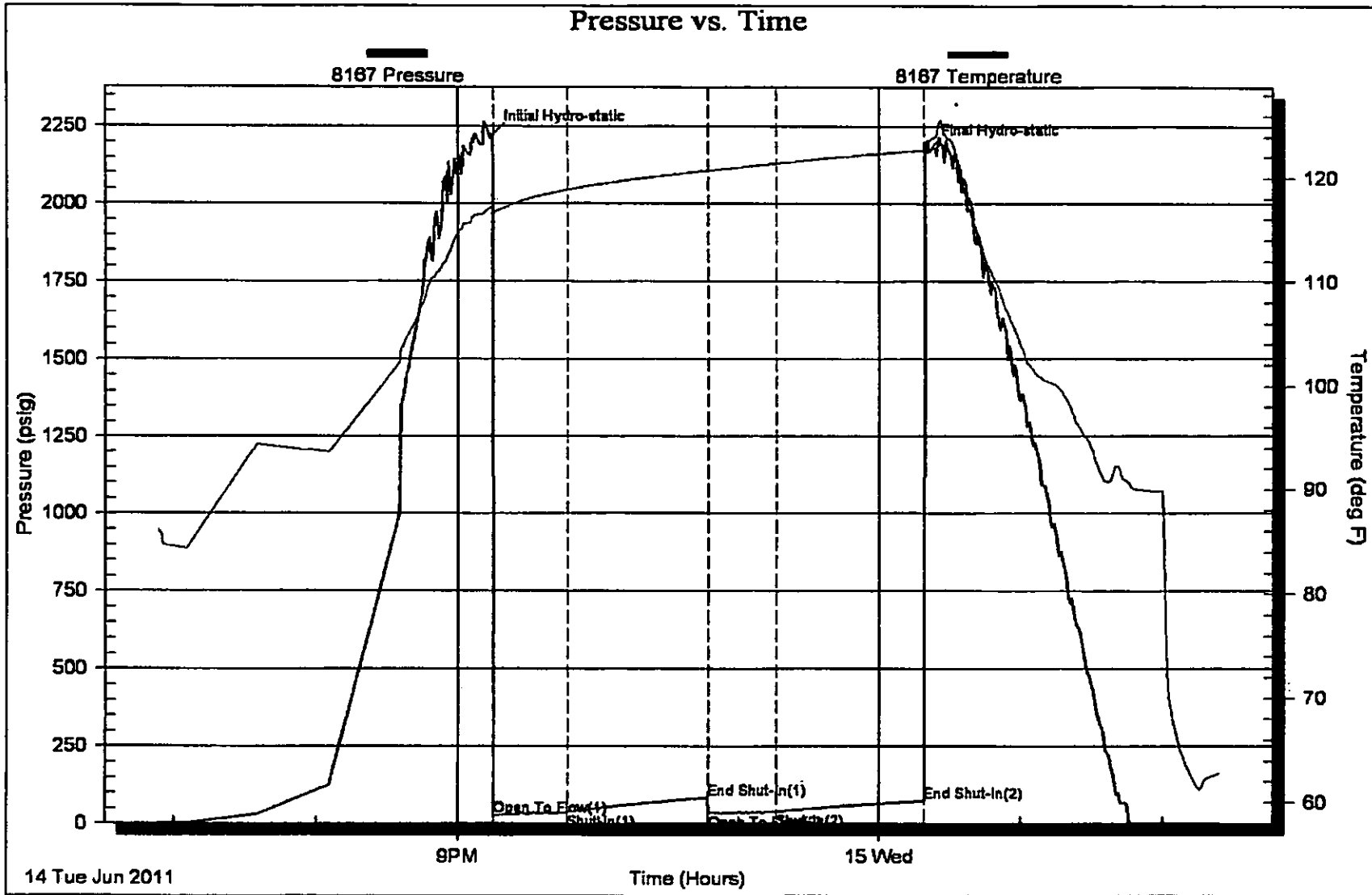
Serial #: none

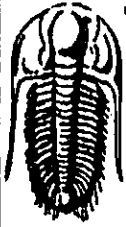
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Pickrell Drilling Co. Inc.

100 S. Main Ste. 505  
Wichita KS 67202

ATTN: Larry Richardson/TerrWichita KS 67202

Thorpe Trust B #1

9-28s-16w Kiowa kS.

Job Ticket: 042503

DST#: 3

Test Start: 2011.06.15 @ 12:33:09

### GENERAL INFORMATION:

Formation: **Kinderhook**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 15:21:39  
 Time Test Ended: 20:52:54

Test Type: **Conventional Bottom Hole**  
 Tester: **Gary Favotiaux**  
 Unit No: **56**

Interval: **4707.00 ft (KB) To 4770.00 ft (KB) (TVD)**  
 Total Depth: **4770.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2144.00 ft (KB)**  
**2134.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

Serial #: **8167**

Inside

Press@RunDepth: **33.41 psig @ 4708.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.06.15**

End Date:

**2011.06.15**

Last Calib.:

**2011.06.15**

Start Time: **12:33:14**

End Time:

**20:52:53**

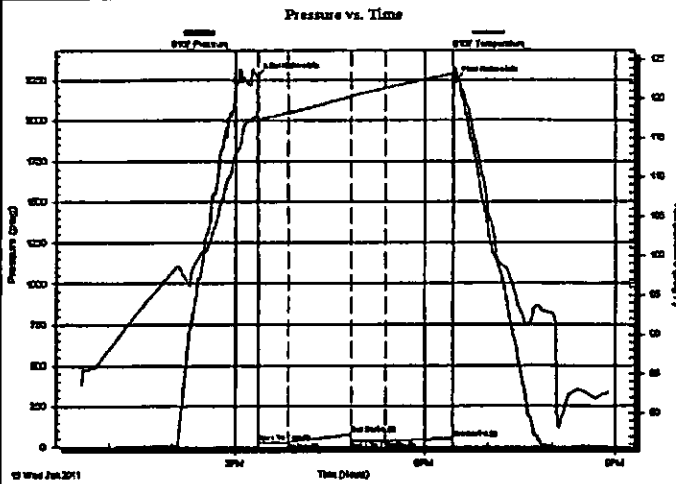
Time On Btm:

**2011.06.15 @ 15:19:54**

Time Off Btm:

**2011.06.15 @ 18:28:24**

TEST COMMENT: **F:Weak blow . 1" decreasing.**  
**IS:No blow .**  
**FF:Very weak blow . (surface) Dead in 30 secs.**  
**FS:No blow .**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.38	117.75	Initial Hydro-static
2	25.45	117.31	Open To Flow (1)
30	28.45	118.20	Shut-in(1)
90	77.31	120.25	End Shut-in(1)
91	31.90	120.27	Open To Flow (2)
123	33.41	121.35	Shut-in(2)
186	52.88	123.17	End Shut-in(2)
189	2249.38	123.97	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig. mud	0.07

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/D)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Co. Inc.

Thorpe Trust B #1

100 S. Main Ste. 505  
Wichita KS 67202

9-28s-16w Kiowa kS.

Job Ticket: 042503

DST#: 3

ATTN: Larry Richardson/TerrWichita KS 67202

Test Start: 2011.06.15 @ 12:33:09

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

13000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 13.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbf
15.00	Drig.mud	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

