



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1231918
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1231918

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	F. A. Hetzke 13
Doc ID	1231918

Tops

Name	Top	Datum
Lansing	2309	-813
Kansas City	2393	-903
Base Kansas City	2708	-1219
Mississippi	2908	-1418
Kinderhook	3221	-1731
Hunton	3287	-1797
Maquoketa	3332	-1842
Viola	3390	-1900
Simpson Sand	3421	-1931
RTD	3493	-2003



CONSOLIDATED
Oil Well Services, LLC

268849

TICKET NUMBER 46354
LOCATION 180
FOREMAN Jacob Storm

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
6-10-14	3628	FA Hat 2 kc # 13	29	215	1W	Mcpherson
CUSTOMER Hess Oil						
MAILING ADDRESS 2080 E Kansas P.O. Box 1039						
CITY Mcpherson	STATE KS	ZIP CODE 67460				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			446	Josh		
			621	Colby		
			692	Tracy		
			702	Jacob		

JOB TYPE LongString B HOLE SIZE 7 7/8 HOLE DEPTH 3493 CASING SIZE & WEIGHT 5 1/2 15.5lb
 CASING DEPTH 3488 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.7 SLURRY VOL. 39.54 bbl WATER gal/sk _____ CEMENT LEFT in CASING 22 ft Shoe
 DISPLACEMENT 83.21 bbl DISPLACEMENT PSI 750 MIX PSI 300 RATE 6.6 bpm

REMARKS: Safety Meeting, Run casing, centralizer on 1,2,3,4,5,6,
tag Bottom pick up 5ft, circulate for min mix 150 strokes class
34 gal 2%cc 5/8 kot-seal, displaced with 83.21 bbl landing plug at
12:50 psi check float, float held, Job complete, J P J

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00 ✓
5406	50	MILEAGE	4.20	210.00 ✓
5407	1	min bulk delivery	368.00	368.00 ✓
5402	988	footage	.23	227.24 ✓
5502	4	80 Pac	90.00	360.00 ✓
1104.5	150	Class A	15.70	2355.00 ✓
1102	250	calcium chloride	.78	195.00 ✓
1118.B	450	gel	.22	99.00 ✓
1110A	750	5/8 kot-seal	.46	345.00 ✓
11440	500	Du 1100 (mud flush)	1.10	550.00 ✓
41136	6	5/2 weatherhead sburst turbolizer	100.00	600.00 ✓
41154	1	5/2 L.R. AFer Float Shoe	361.00	361.00 ✓
4454	1	5/2 Latch down plug and ball	266.75	266.75 ✓
			Subtotal	7021.99 ✓
		discount	-	1063.20 ✓
			total	5958.79 ✓
			SALES TAX	265.16 ✓
			ESTIMATED TOTAL	6223.95 ✓

completed

RAV17977
 AUTHORIZATION James [Signature] 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.

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>HESS OIL COMPANY</u> LEASE <u>E. A. HETZKE * 13</u> FIELD <u>GRABER POOL</u> LOCATION <u>1650' FNL, 1320' FWL</u> SEC <u>29</u> TWP <u>21 S</u> RGE <u>1 W</u> COUNTY <u>McPHERSON</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>1490'</u> DF <u>1487'</u> GL <u>1485'</u> Measurements Are All From <u>KB</u>
CONTRACTOR <u>MALLARD J.V.</u> SPUD <u>6-4-14</u> COMP <u>6-10-14</u> RTD <u>3493'</u> LTD <u>none</u> MUD UP <u>2750'</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8-5/8" at 209'</u> PRODUCTION <u>5-1/2"</u> ELECTRICAL SURVEYS <p style="text-align: center;">none</p>

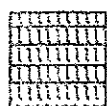
SAMPLES SAVED FROM <u>2800'</u>	TO <u>TD</u>
DRILLING TIME KEPT FROM <u>2250'</u>	TO <u>TD</u>
SAMPLES EXAMINED FROM <u>2800'</u>	TO <u>TD</u>
GEOLOGICAL SUPERVISION FROM <u>2300'</u>	TO <u>TD</u>
GEOLOGIST ON WELL <u>JAMES C. HESS</u>	

FORMATION TOPS	LOG	SAMPLES	
LANSING		2309 (-819)	1 W
KANSAS CITY		2393 (-903)	
BASE KANSAS CITY		2709 (-1219)	
MISSISSIPPI		2908 (-1418)	
KINDERHOOK		3221 (-1731)	
HUNTON		3287 (-1797)	29
VIOLA		3390 (-1900)	
SIMPSON SAND		3421 (-1931)	
R T D		3493 (-2003)	2 S

7505

REMARKS

LEGEND



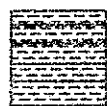
Anhydrite



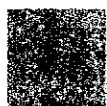
Salt



Sandstone



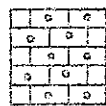
Shale



Carb sh



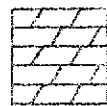
Limestone



Col. Lime



Chert



Dolomite

SCALE " = 100'

LOG 7703

Lithology	Drilling time in minutes					DEPTH	Sample Description	Remarks, drill stem tests, etc.
	0	5	10	15	20			
						2250		
						60		
						80		
						2300		
								LANSING 2309 (-819)

LANSING 2309 (-819)

20

40

60

80

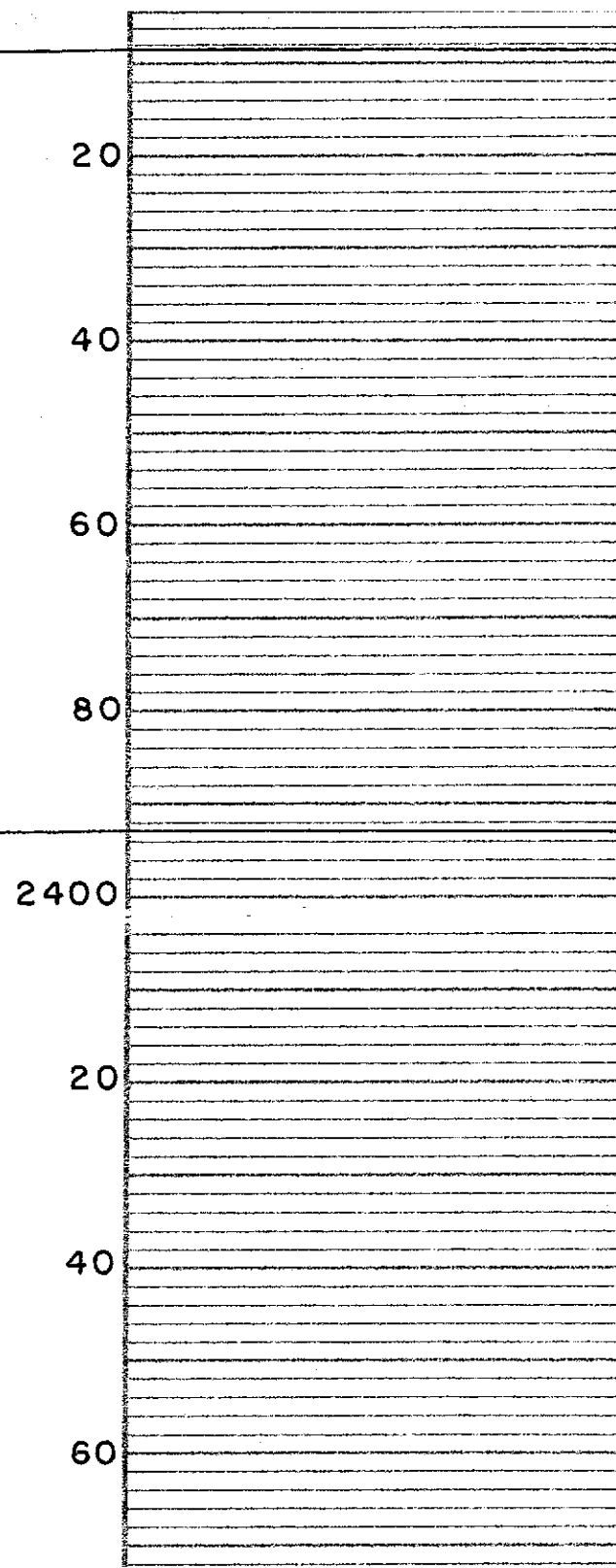
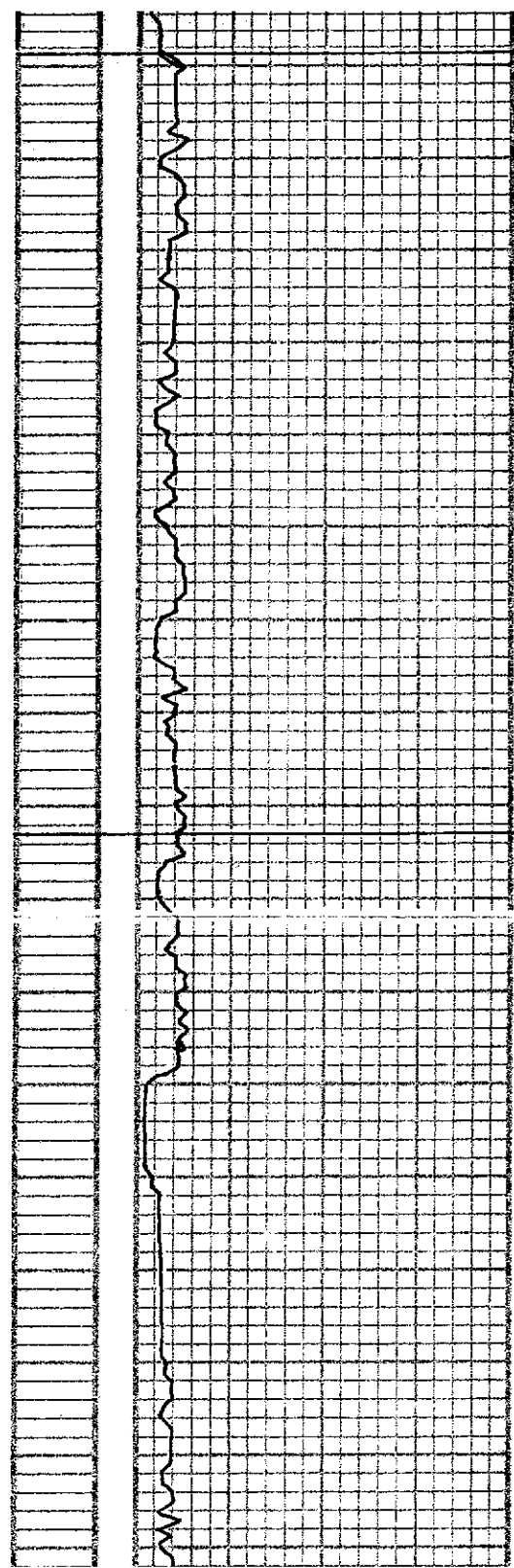
KANSAS CITY 2393 (-903)

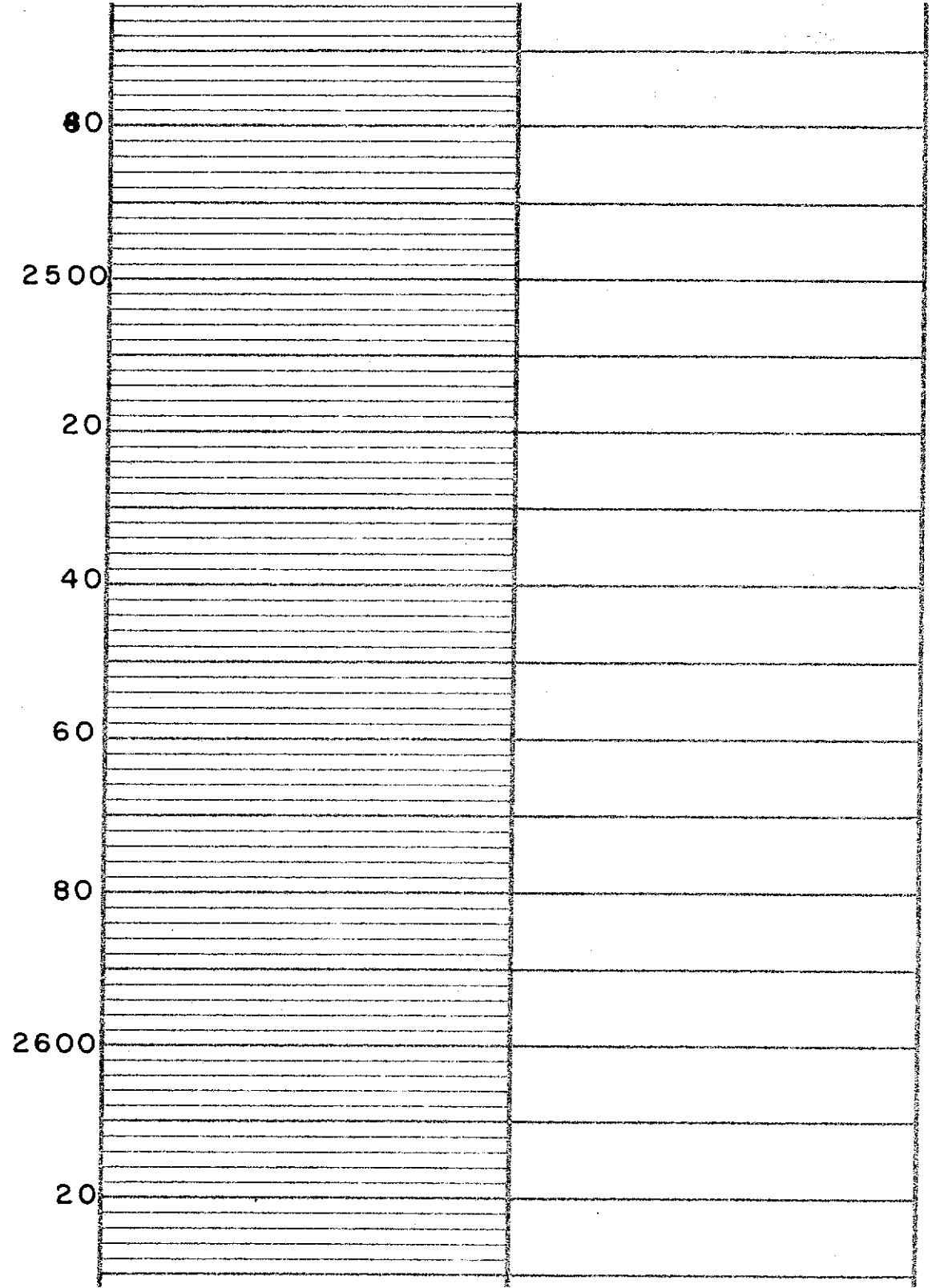
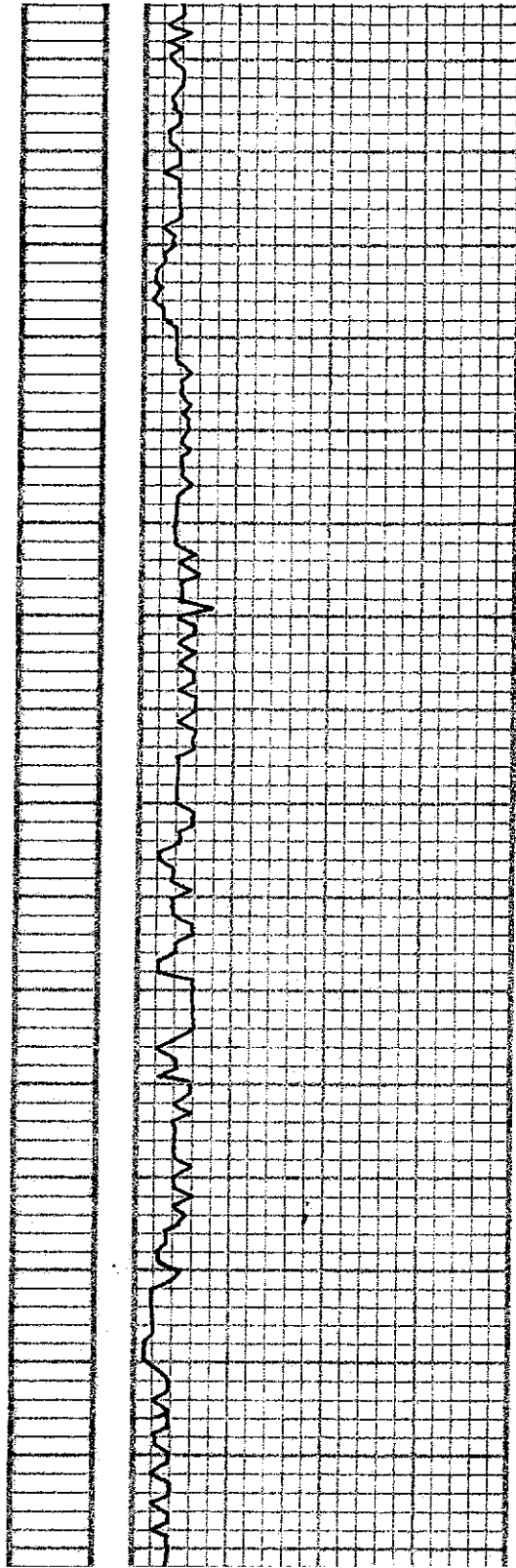
2400

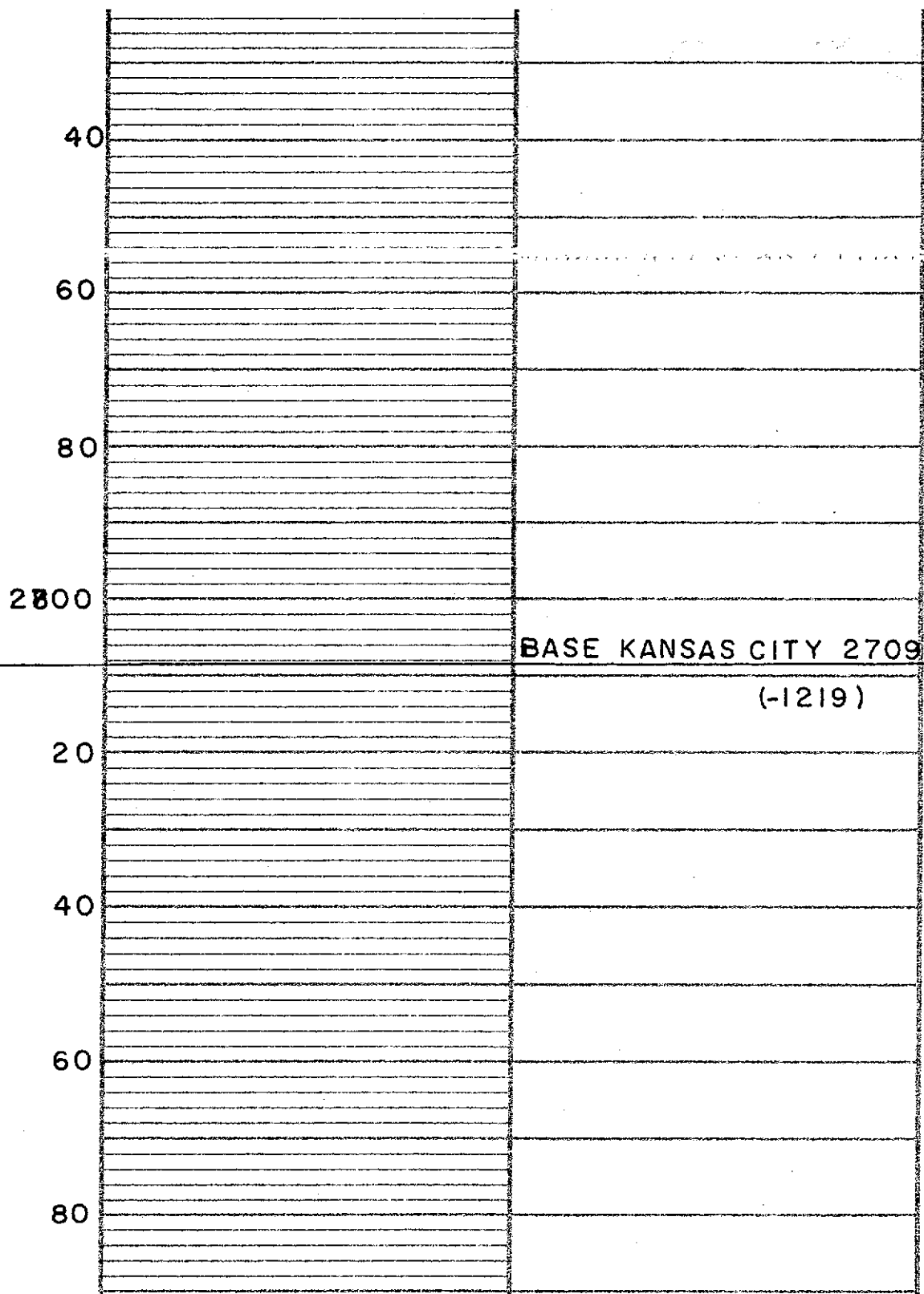
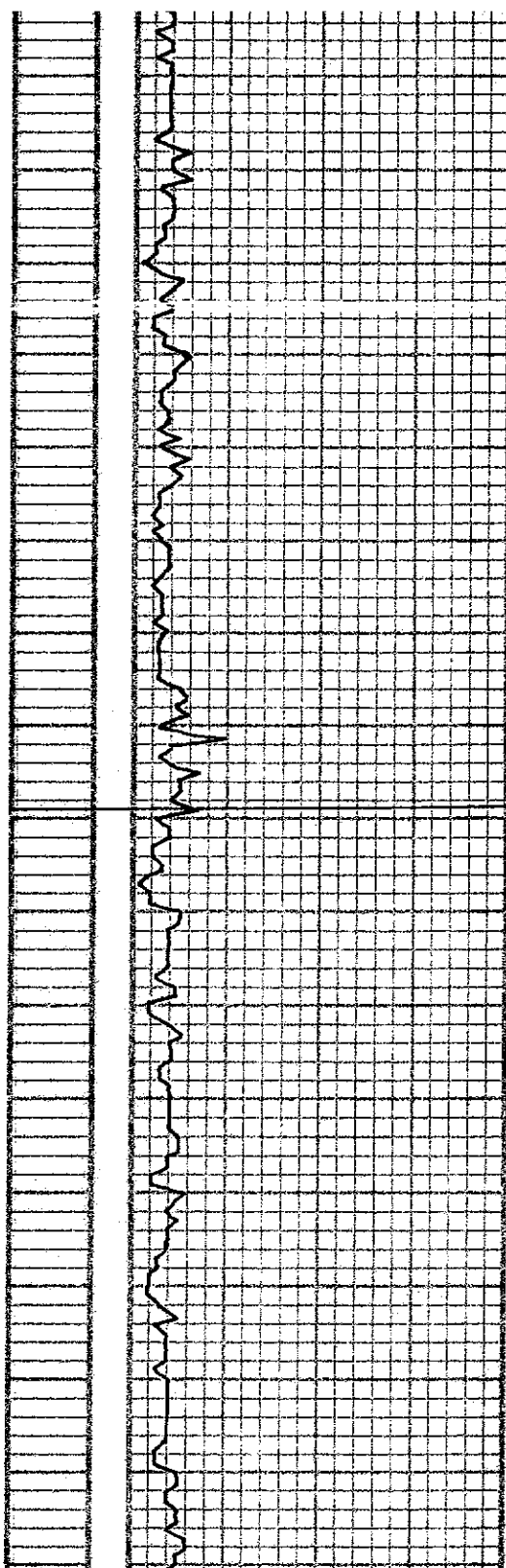
20

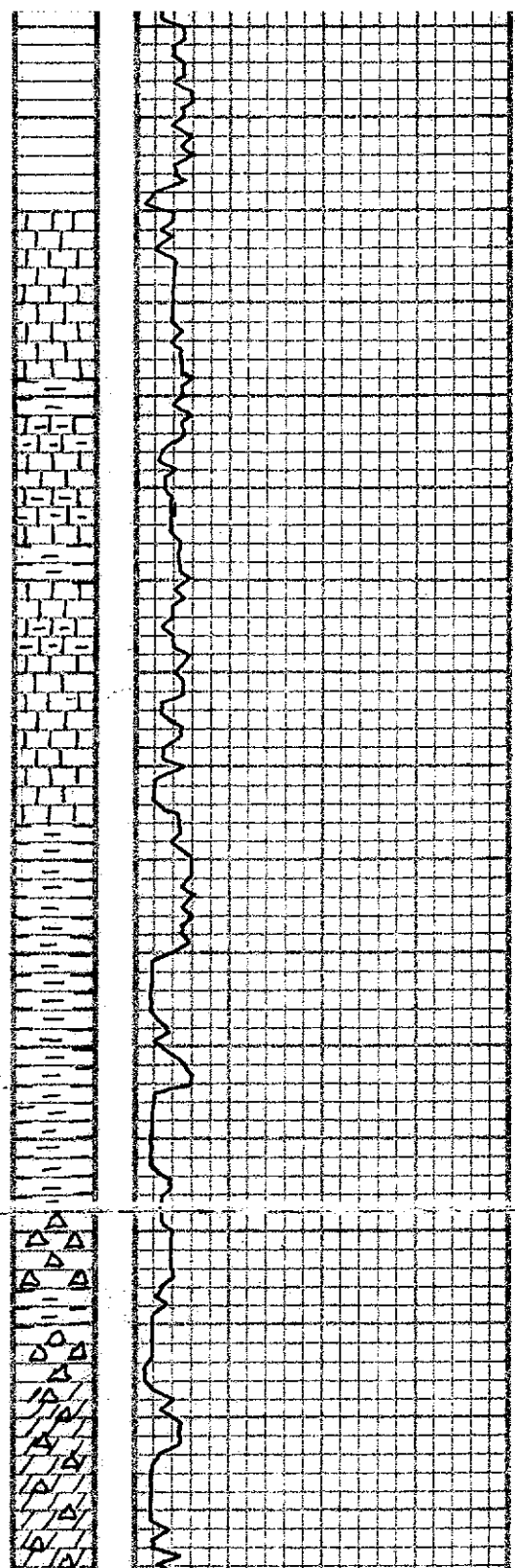
40

60

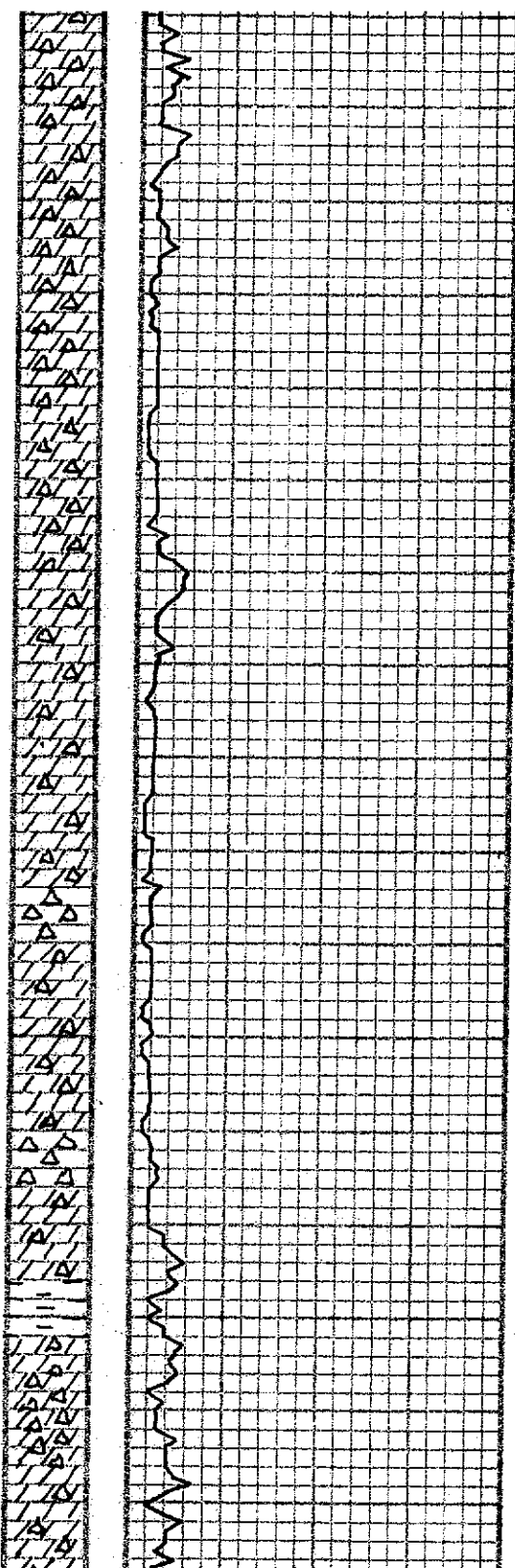




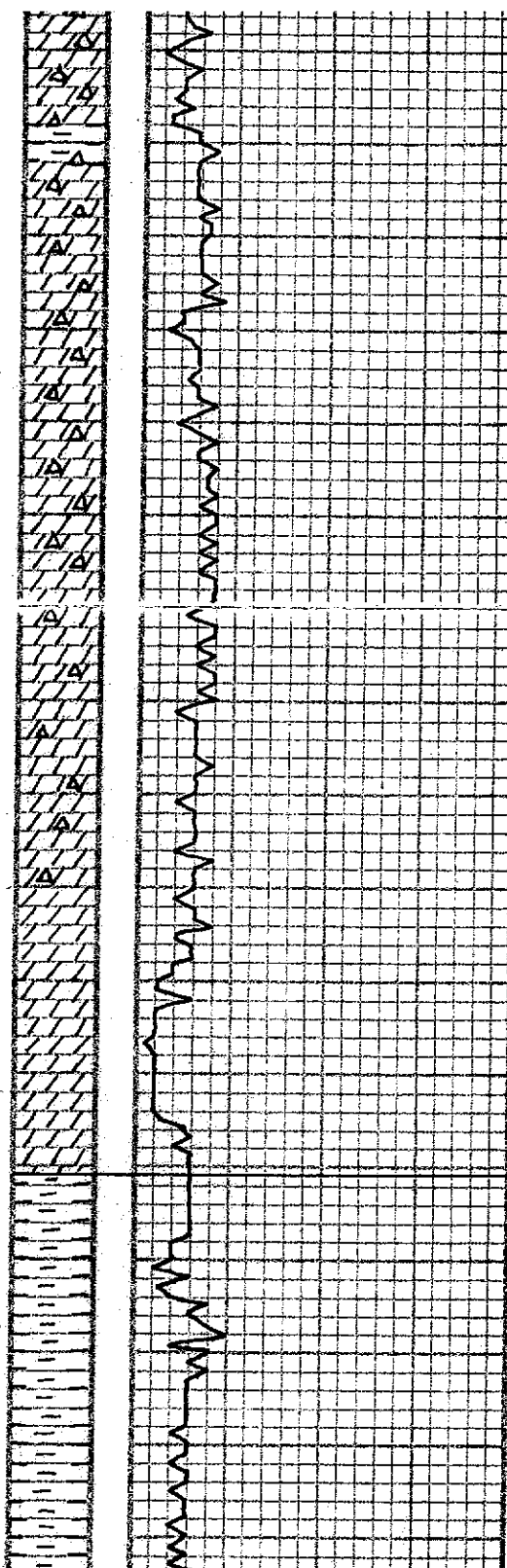




80		
2800	<p>Com - Br VF-Exl^a Chalky Lm w/ some green sh's</p> <p>AA</p>	Start Samples
20	<p>Lm - Tan VF-Exl^a Chalky Lm w/ lots green sh's</p> <p>AA w/more sh's</p>	
40	<p>Lm - Br VF-Fxln Chalky Lm w/some green sh's</p> <p>AA NO ϕ NO show</p>	
60	<p>Lm - Br VF-Fxln Chalky Lm w/some green sh's</p> <p>Mostly green sh's NO ϕ NO show</p>	
80	<p>Mostly green sh's NO ϕ NO show</p> <p>AA NO ϕ NO show</p>	
2900	<p>Mostly green sh's NO ϕ NO show</p>	MISSISSIPPI 2908 (-1418)
20	<p>Miss Chat w/ chert sharp + Tri-politic Fair ϕ NO show NO odor</p> <p>AA NO Odor Fair ϕ NO show</p> <p>"Fire Spot"</p>	
40	<p>Dolomitic Lm + some Δ's NO show NO odor</p> <p>AA w/ load ϕ NO show NO odor</p>	



40	AA w/ Good ϕ No show No odor
60	WT VEXLM DS Dolo. w/ some wt sharp Δ Tripartitic Δ
AA	w/ Fair - Good ϕ No show No odor
AA	w/ Good ϕ No show No odor
80	AA Good ϕ No show
3000	Lim - WT F-MXLM DS Dolo. Few PC's LM Some sharp wt sheet
AA	w/ Good ϕ No show
20	WT MXLM DS Dolo. w/ some wt sharp Δ 's
AA	w/ Good ϕ No show No odor
40	Mostly wt sharp Δ + Tripartitic Δ some Dolo ϕ 's only Fair
* Change to	Lim - WT MXLM DS Dolo. w/ PC's wt sharp Δ Fair ϕ No show
AA	w/ Fair ϕ No show No odor
60	AA w/ Fair ϕ No show No odor
* Change to	Lim - 17 Grey Mxlm Dolo. Poor ϕ PC's wt sharp Δ
80	AA w/ some Green sh's v. Poor ϕ No show
3100	Mostly wt sharp Δ Some wt - Tan m/m DS Dolo. Few Green sh's
AA	w/ No ϕ No show



3100
 SOME WT - 100% M. RIM DS Dolo.
 FEW GREEN SH's
 AA w/ NO β NO SHOW NO odor
 AA w/ NO β NO SHOW NO odor
 20
 Lcm - Grey VF-MIXIN DS Dolo.
 w/ V. Poor INTERM β
 PE'S WT SHARP Δ
 FEW GREEN SH's
 AA w/ V. Poor β NO SHOW
 40
 Lcm - R Grey VF-MIXIN DS Dolo.
 w/ PE'S WT SHARP Δ
 FEW GREEN SH's
 AA w/ Poor - V. Poor β NO SHOW NO odor
 60
 Lcm - Grey VF-FIN DS Dolo.
 w/ PE'S WT SHARP Δ
 SOME GREEN SH's
 AA w/ MORE GREEN SH's
 WEAK - Fair β NO SHOW
 80
 Bl - Grey VF-FIN DS Dolo.
 w/ PE'S WT SHARP Δ
 PE'S WT SHARP Δ
 SOME GREEN SH's
 AA w/ more sh's
 weak β NO SHOW
 3200
 Grey - Bl F-MIXIN DS Dolo.
 PE'S WT SHARP Δ team above?
 SOME GREEN SH's
 AA w/ Fair β NO SHOW
 20
 LOTS of V.C. shales
 MOSTLY Green + Grey
 40
 All shales
 NO SHOWS
 NO β
 60

KINDERHOOK 3221 (-1731)

