



KANSAS CORPORATION COMMISSION 1053875  
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: Jerry Smith  
Purchaser: Kansas Gas Service

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

<u>02/11/2011</u>	<u>02/22/2011</u>	<u>03/29/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-095-22219-00-00  
Spot Description: \_\_\_\_\_  
\_\_\_\_\_ NE SE Sec. 12 Twp. 30 S. R. 8  East  West  
1,980 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Kingman  
Lease Name: Young 'A' Well #: 2  
Field Name: Spivey-Grabs-Basil  
Producing Formation: Mississippi  
Elevation: Ground: 1482 Kelly Bushing: 1492  
Total Depth: 4200 Plug Back Total Depth: 4157  
Amount of Surface Pipe Set and Cemented at: 280 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: 5000 ppm Fluid volume: 400 bbls  
Dewatering method used: Haul Off Pit  
Location of fluid disposal if hauled offsite:  
Operator Name: T&C Manufacturing  
Lease Name: Trenton SWD License #: 31826  
Quarter NW Sec. 2 Twp. 30 S. R. 7  East  West  
County: Kingman Permit #: D-7122

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 Garrison Date: 04/13/2011



1053875

Operator Name: Pickrell Drilling Company, Inc. Lease Name: Young 'A' Well #: 2  
 Sec. 12 Twp. 30 S. R. 8  East  West County: Kingman

**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>3135</td> <td>-1643</td> </tr> <tr> <td>Lansing</td> <td>3352</td> <td>-1860</td> </tr> <tr> <td>Stark</td> <td>3762</td> <td>-2270</td> </tr> <tr> <td>Hushpuckney</td> <td>3794</td> <td>-2302</td> </tr> <tr> <td>Mississippi</td> <td>4106</td> <td>-2614</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3135	-1643	Lansing	3352	-1860	Stark	3762	-2270	Hushpuckney	3794	-2302	Mississippi	4106	-2614
Name	Top	Datum																	
Heebner	3135	-1643																	
Lansing	3352	-1860																	
Stark	3762	-2270																	
Hushpuckney	3794	-2302																	
Mississippi	4106	-2614																	

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 Csg.	12.25	8.625	23	280	60-40 poz	340	2%gel 3% CC
Prod Casing	7.875	4.50	10.5	4200	Class A	125	10% salt, 5# KC

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
4	4112-4122	A-1000 gal 7 1/2% MIRA	4112-4122

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>4142</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>03/29/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		200	4	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>4112-4122</u>
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# ALLIED CEMENTING CO., LLC. 040079

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

SERVICE POINT:

*Medicine Lodge, KS  
Sat*

DATE <i>02-11-11</i>	SEC. <i>12</i>	TWP. <i>30s</i>	RANGE <i>08W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>11:05 AM</i>
LEASE <i>Young</i>	WELL # <i>A-2</i>	LOCATION <i>Spivey, KS, 1/2 E, S &amp; E / into</i>			COUNTY <i>Kingman</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *Pickrell #1*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *286*

CASING SIZE *8 5/8* 23" DEPTH *280*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *300* MINIMUM

MEAS. LINE SHOE JOINT *N/A*

CEMENT LEFT IN CSG. *20'*

PERFS.

DISPLACEMENT *16 1/2 Bbls Fresh H<sub>2</sub>O*

OWNER *Pickrell*

CEMENT

AMOUNT ORDERED *340sx 60:40:2% gel + 3% acc (Used 340sx)*

EQUIPMENT

PUMP TRUCK CEMENTER *D. Felix*

# *414-302* HELPER *R. Gilley*

BULK TRUCK

# *381-250* DRIVER *D. Franklin*

BULK TRUCK

# DRIVER

COMMON	<i>A</i>	<i>204 sx</i>	@ <i>15.42</i>	<i>3151.80</i>
POZMIX		<i>136 sx</i>	@ <i>8.00</i>	<i>1088.00</i>
GEL		<i>6 sx</i>	@ <i>20.00</i>	<i>124.00</i>
CHLORIDE		<i>11 ox</i>	@ <i>58.00</i>	<i>640.00</i>
ASC			@	
			@	
			@	
			@	
			@	
			@	
			@	
			@	
HANDLING		<i>357</i>	@ <i>2.40</i>	<i>856.80</i>
MILEAGE		<i>357.10/35</i>		<i>1249.50</i>
TOTAL				<i>7111.10</i>

REMARKS:

*Pipe on Bttm, Break line, Pump Spacers, Mix 340 sx 60:40 amt Blend, Stop Pump, Release Plug, Start Disp. w/ Fresh H<sub>2</sub>O Wash up on Plug, See Steady increase in PST, slow Rate, Stop Pump at 16 1/2 Bbls total Disp., Shut in, Cement Did Pipe.*

SERVICE

DEPTH OF JOB	<i>280</i>		
PUMP TRUCK CHARGE	<i>1018.00</i>		
EXTRA FOOTAGE	@		
MILEAGE	<i>35</i>	@ <i>7.00</i>	<i>245.00</i>
MANIFOLD <i>Headrental</i>	@		
	@		
	@		
TOTAL			<i>1263.00</i>

CHARGE TO: *Pickrell*

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<i>1-TWP</i>	@	<i>68.00</i>
	@	
	@	
	@	

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

# ALLIED CEMENTING CO., LLC. 040651

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

SERVICE POINT:  
*Melchior Lodge*

DATE <i>2-22-11</i>	SEC. <i>12</i>	TWP. <i>30s</i>	RANGE <i>8w</i>	CALLED OUT	ON LOCATION	JOB START <i>9:00pm</i>	JOB FINISH <i>10:30pm</i>
LEASE <i>Young</i>	WELL # <i>A-2</i>		LOCATION <i>Spicy, KS, 1/2 E, S &amp; E into</i>			COUNTY <i>Kingman</i>	STATE <i>KS</i>
OLD OR NEW (Circle one)							

CONTRACTOR *Pickrell Ry #1*  
 TYPE OF JOB *Production*  
 HOLE SIZE *7 7/8* T.D. *4200'*  
 CASING SIZE *4 1/2* DEPTH *4205'*  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT *24'*  
 CEMENT LEFT IN CSG. *24'*  
 PERFS.  
 DISPLACEMENT *67 1/2 bbls 2% KCL*

OWNER *Pickrell Drilling*  
 CEMENT  
 AMOUNT ORDERED *25 sk 60:40:4% gel*  
*125 sk class A + 10% salt + 5% KCl seal*

EQUIPMENT

PUMP TRUCK CEMENTER *Moltzheim*  
 # *414/302* HELPER *Ron Golley*  
 BULK TRUCK  
 # *364* DRIVER *Raymond R.*  
 BULK TRUCK  
 # DRIVER

COMMON	<i>A 140 sk</i>	@ <i>15.42</i>	<i>2163.00</i>
POZMIX	<i>10 sk</i>	@ <i>8.00</i>	<i>80.00</i>
GEL	<i>1 sk</i>	@ <i>20.80</i>	<i>20.80</i>
CHLORIDE		@	
<i>Salt</i>	<i>12.5 sk</i>	@ <i>12.00</i>	<i>150.00</i>
<i>KCl seal</i>	<i>625 lb</i>	@ <i>.89</i>	<i>556.25</i>
<i>Clapio</i>	<i>7 Gal</i>	@ <i>31.25</i>	<i>218.75</i>
<i>WFR-2</i>	<i>500 Gal</i>	@ <i>1.27</i>	<i>635.00</i>
		@	
		@	
		@	
		@	
HANDLING	<i>175</i>	@ <i>2.40</i>	<i>420.00</i>
MILEAGE	<i>175/35 = 5</i>	@ <i>12.40</i>	<i>62.00</i>
			<b>TOTAL <i>4856.30</i></b>

**REMARKS:**

*Bulk circulation with Ry, pump ball through pump 3 bbls H<sub>2</sub>O, pump 500 gal ASE, pump 3 bbls H<sub>2</sub>O mix sk 60:40:4 for lost hole*  
*mix 125 sk class A + 10% salt + 5% KCl seal shut down wash pump + lines, Release plug*  
*pump 67 1/2 bbls 2% KCl disp. Trouble sucking H<sub>2</sub>O from Ry tank ran dryer 3 hrs, bumping screen to 1000 psi plug hole*

**SERVICE**

DEPTH OF JOB	<i>4200'</i>		
PUMP TRUCK CHARGE	<i>2011</i>	@	
EXTRA FOOTAGE		@	
MILEAGE	<i>35</i>	@ <i>7.00</i>	<i>245.00</i>
MANIFOLD		@	
		@	
		@	

CHARGE TO: *Pickrell Drilling*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL *2256.00*

**PLUG & FLOAT EQUIPMENT**

<i>1/2</i>			
<i>1-Afc insert</i>			<i>100.80</i>
<i>1-Rubber Plug</i>	@		<i>62.00</i>
<i>6-centralizers</i>	@ <i>30.80</i>		<i>184.80</i>
	@		
	@		

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



# JERRY A. SMITH

## CERTIFIED PETROLEUM GEOLOGIST

### GEOLOGIST'S REPORT DRILLING TIME and SAMPLE LOG

COMPANY: PICKRELL DRILLING CO., INC			ELEVATIONS
LEASE: #2 YOUNG "A"			K.B. 1492
FIELD: SPIVEY-GRABS-BASIL			D.F. 1490
LOCATION: C-NE-SE			G.L. 1482
SEC. 12	TWSP. 30	RNG. 8W	Measurements Are All From: KB
COUNTY: KINGMAN		STATE: KANSAS	
CONTRACTOR: COMPANY TOOLS, RIG #1			CASING
SPUD: 2/11/11	COMP. 2/22/11	SURFACE: 8 5/8" @ 280'	
RTD. 4200'	LTD. 4200'	PRODUCTION: 4 1/2" @ 4200'	
MUD UP: 3103'	TYPE MUD: CHEMICAL	ELECTRICAL SURVEYS	
API No. 15-095-22219			Tucker Wireline: DIL, CNL/FDC
SAMPLES SAVED FROM: 1300'/2900'			TO: 2300'/RTD
DRILLING TIME KEPT FROM: 1200'/2900'			TO: 2300'/RTD
SAMPLES EXAMINED FROM: 1300'/2900'			TO: 2300'/RTD
GEOLOGICAL SUPERVISOR FROM: 1300'/3100'			TO: 2300'/RTD
GEOLOGIST ON WELL: JERRY A. SMITH			

FORMATION TOPS	LOG	SAMPLES
HERINGTON	1347 (+145)	1348 (+144)
INDIAN CAVE SS.	2161 (-669)	2162 (-670)
WABAUNSEE	2199 (-707)	2201 (-709)
HEEBNER	3136 (-1643)	3134 (-1642)
STALNAKER SS.	3265 (-1773)	3267 (-1775)
LANSING	3352 (-1860)	3353 (-1861)
STARK	3762 (-2270)	3764 (-2272)
MISSISSIPPIAN	4106 (-2614)	4106 (-2614)

### LEGEND

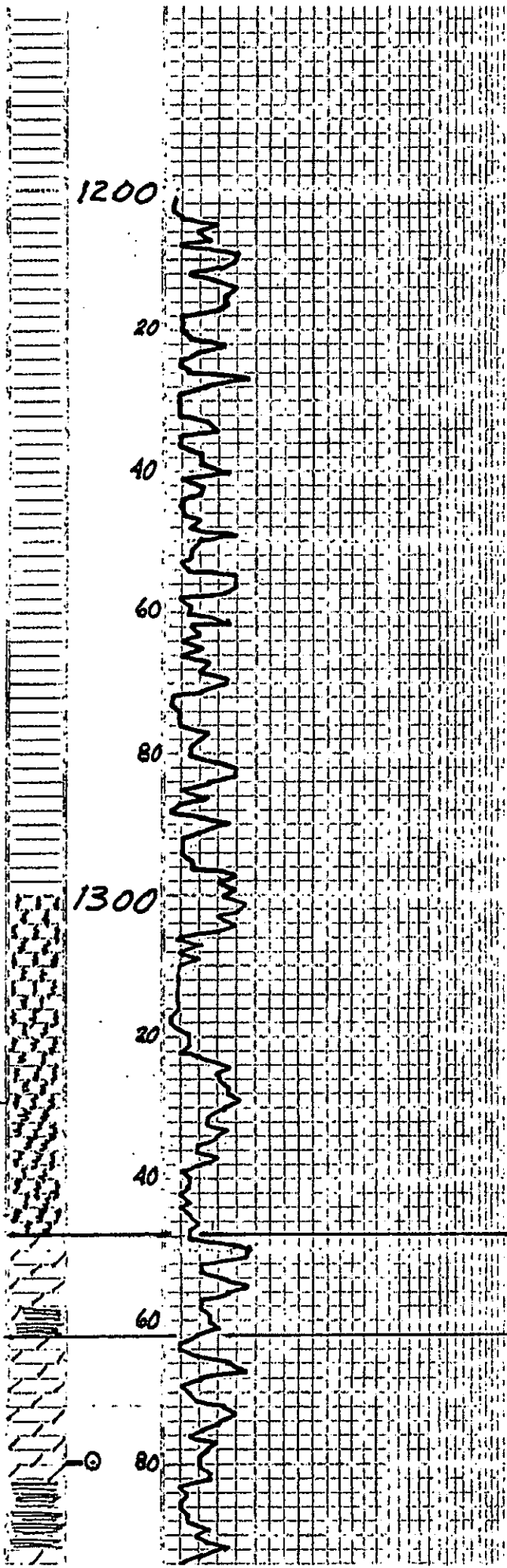
	Dalornito
	Chart
	Oak Limo
	Limestone
	Coal
	Shale
	Sandstone
	Salt
	Hydrate

DRILLING TIME IN MINUTES PER FOOT Date of Penetration in Time	SAMPLE DESCRIPTIONS	REMARKS
LITHOLOGY	DST'S (2) BY RICKETS	DEPTH 5" 10" 15" 20" 25"

MUD BY MUD-CO

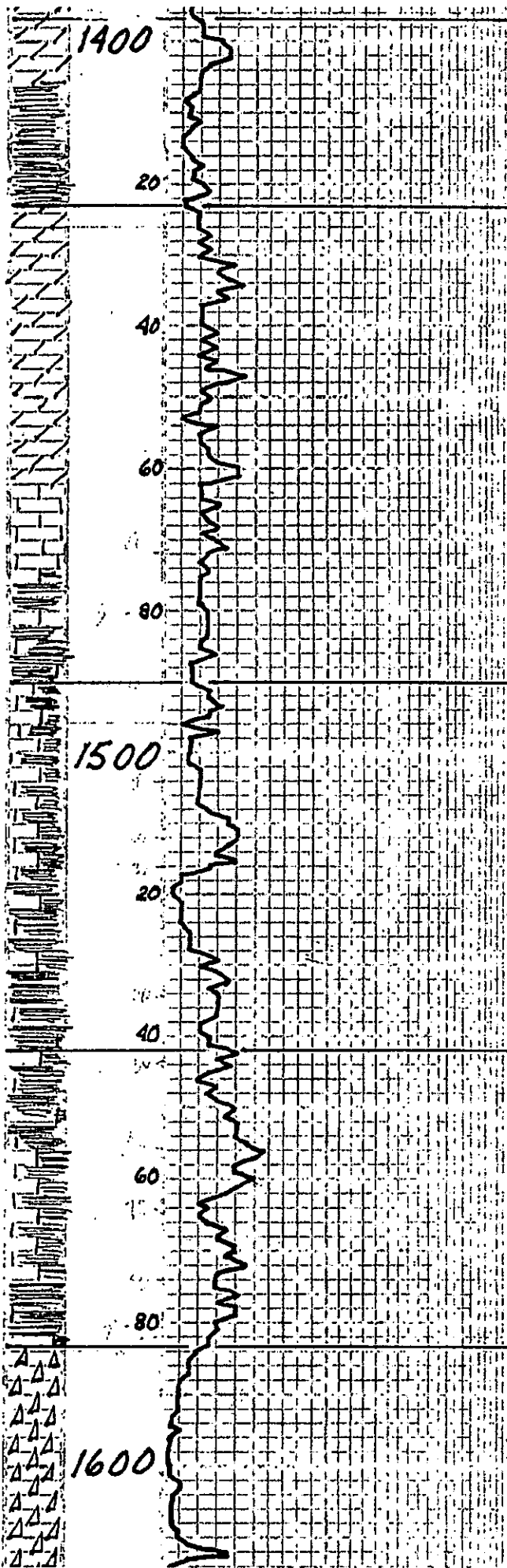
S.H.T.'S:

285' 1°  
 381' 1°  
 1302' 1 1/4°  
 1579' 3/4°  
 2205' 1/2°  
 2728' 3/4°



Any w/ G<sub>2</sub>, G<sub>3</sub>, Ro. Sh.  
 Any w/ G<sub>2</sub>, G<sub>3</sub>, Ro. Sh.  
 Any w/ G<sub>2</sub>, G<sub>3</sub>, Ro. Sh.  
 Any w/ G<sub>2</sub>, G<sub>3</sub>, Ro. Sh.  
 Any w/ G<sub>2</sub>, G<sub>3</sub>, Ro. Sh.  
 Any of Sh. AA w/ Tr. M.B. or  
 Sh. D. or Sh. Co. or D. or  
 Sh. N.V. or Sh.  
 AA.  
 AA.  
 Dolo. - M. G. F. X. D. S.

HERRINGTON  
 1348 (+144) SMPL  
 1347 (+145) LOG  
 KRIDER  
 1362 (+130) SMPL  
 1361 (+131) LOG



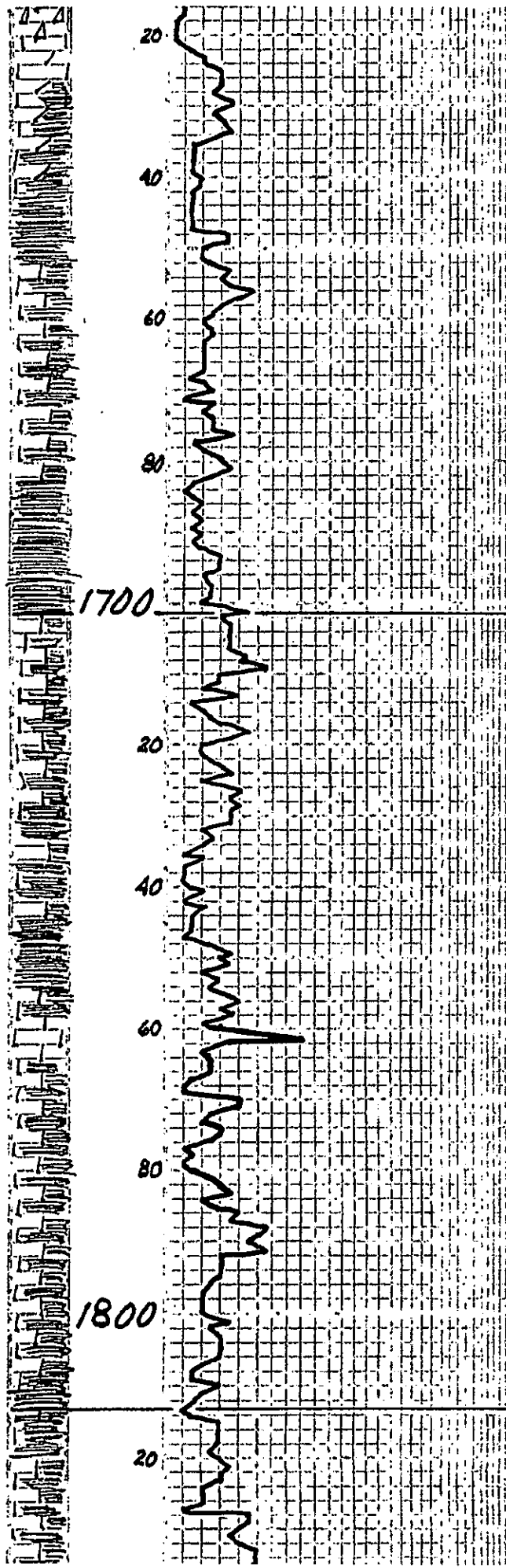
SN - Gy, Gn, Rd.  
 Dola - M Gy, FX, DSE.  
 SN - Gy, Gn, Rd.  
 Dola - M Gy, FX, DSE. w/  
 ADD Gy, Gn, Rd, Sn.  
 Dola - M Gy, FX, DSE.  
 Lm - M - DR Gy, FX, DSE.  
 RD Sn.  
 Lm, DR Gy, FX, DSE. w/  
 RD Sn, Gy, Gn, Rd, Sn.  
 PREDOM Gy, Gn, Rd, Sn - / DR  
 Gy, FX, DSE Lm.  
 50-50 Lm & Sn - AA.  
 50-50 Lm & Sn - AA.  
 50-50 Lm & Sn - AA.  
 Lm & Sn - AA - Su, Lm, Sn.  
 PREDOM Gy, Gn, Rd, Sn - /  
 SCAT DR Gy, FX, DSE Lm.  
 SN - / SCAT Lm - AA.  
 50-50 Lm - M - DR Gy, FX,  
 DSE Sn, Gy, Gn, SCAT  
 Rd.  
 Lm & Sn - AA - Su, Lm, Sn.  
 Sn & SCAT Lm - AA.  
 Cnt - Lm - M Gy, DR, SN,  
 DSE - / ADD WM Cnt.  
 Cnt - AA.  
 Cnt - AA.

WINFIELD  
 1423 (+69) SMPL  
 1420 (+72) LOG  
 MUD @ 1434':  
 9.5 WT, 29 VIS, N/C FILT  
 83,000 CHLOR, 0 LCM

TOWANDA  
 1490 (+2) SMPL & LOG

FT. RILEY  
 1542 (-50) SMPL  
 1540 (-48) LOG

FLORENCE  
 1583 (-91) SMPL & LOG



Ln/Dose - Lr. M. Dr. Gy.  
 FX. DSE. - / W. Crk.  
 w/ Abd. Gy. Gr. Ro. Sh.

Ln/Dose & Sh - AA.

Predom. Sp. M. → DK. Gy.  
 Gr. & Ro.

Ln - Lr. Gy. FX. DSE. - / Abd.  
 Gr. & Ro. Sh.

Ln & Sh - AA.

Predom. Sh - Gy, Gr, Ro.

Sh - AA. w/ Scat. Lr. Gy, FX,  
 DSE. Ln.

Sh - Gy, Gr, Ro. Calc.

Sh - AA. w/ Lns. In. Crk. / Lr. Gy.  
 FX, DSE. - SUB. CRK. & M.

WREFORD  
 1701 (-209) SMPL  
 1700 (-208) LOG

Ln - Lr. M. Gy. FX. DSE. - /  
 Sh - Gy, Gr, Ro.

Ln & Sh - AA w/ bio. Ln. Sh.

Predom. Sh - Gy, Gr, Ro. - /  
 Scat. Lr. Gy, FX, DSE. - / SUB.  
 CRK. Ln.

Sh & Ln - AA.

Predom. Dr. Ro. Sh. - / Scat.  
 Gr. On. Sh. & Lr. Gy, FX, DSE.

Ln - Lr. M. Gy. FX. DSE. - /  
 Scat. Gy, Gr, Ro. Sh.

Ln & Sh - AA.

Ln & Sh - AA. See bio. Ln. Sh.

Ln - Lr. Gy. FX. DSE. - / Gy.  
 Gr, Ro. Sh.

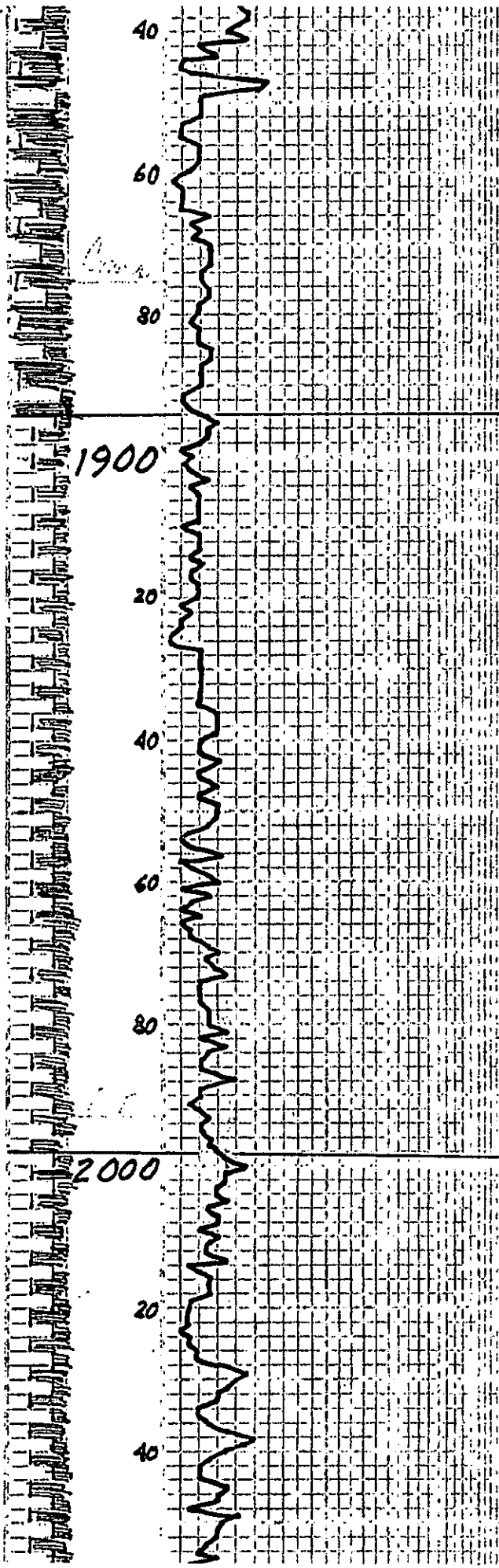
Ln & Sh - AA. See bio. Ln. Sh.

Predom. Gy. & Gy. Sh. Tr.  
 Ro. Sh. Scat. Ln. AA.

BADER  
 1813 (-321) SMPL  
 1810 (-318) LOG

Ln - Lr. M. Gy. FX. DSE.  
 - / Gy, Gr, Ro. Sh.





LMF SH-AA

Predom SH-Gy Gy Ro-w/  
Scat Lm-Lt Gy FX DSE

SH-AA w/TR Lm-AA

SH Lm-AA

SH Lm-AA Inc In Lm

SH-Gy Gy Ro-w/Lm-Lt Gy  
FX DSE

Predom SH-Gy Gy Ro-w/  
Scat Lm-Lt Gy FX DSE

Lm SH-AA

Lm SH-AA Inc In Lm

Lm SH-AA

Lm SH-AA

Predom Lm-Lt SH Gy FX  
Scat Lm-Lt Gy FX DSE

Lm SH-AA

Lm SH-AA

Lm SH-AA Inc In SH

Predom SH-DK Gy Gy Gy  
Scat Lm-Lt Gy FX DSE

SH-DK Gy Gy Gy Ro-w/Lm-Lt  
FX DSE

Lm SH-AA

Lm SH-AA

SH Inc In SH

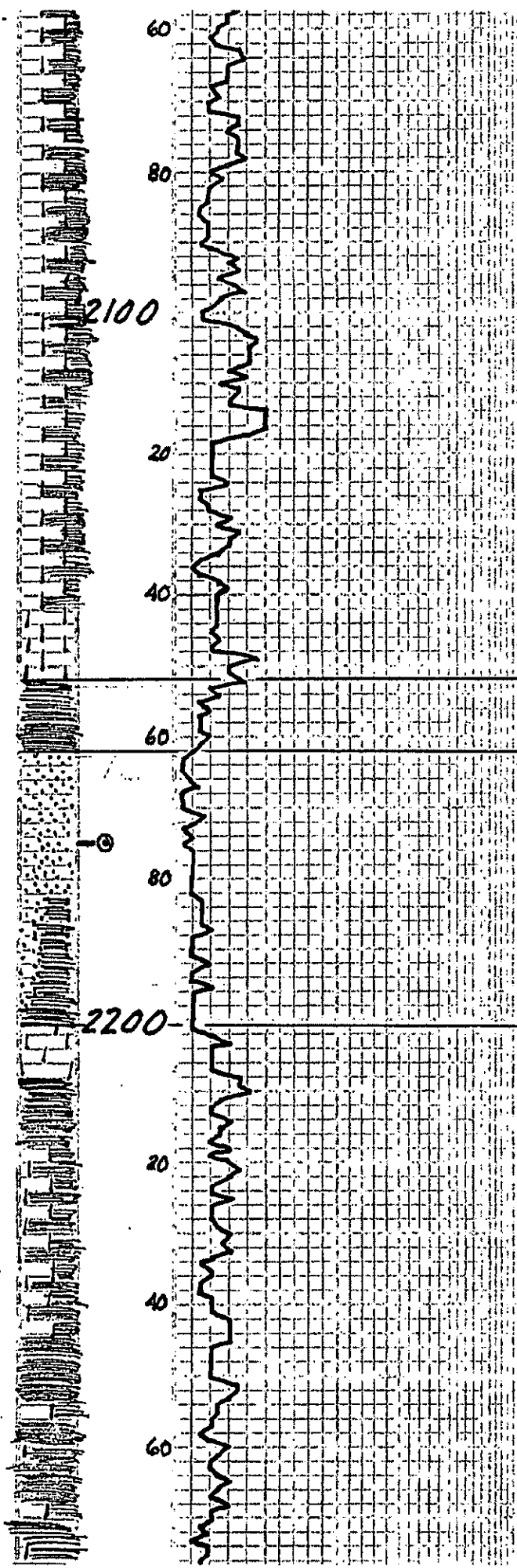
SH-Gy Gy Gy Ro-w/Lm-Lt  
FX DSE

Predom SH-Gy Gy Ro-w/  
Scat Lm-Lt Gy FX DSE

BIT TRIP @ 1848'

COTTONWOOD  
1894 (-402) SMPL  
1891 (-399) LOG

RED EAGLE  
1998 (-506) SMPL & LOG

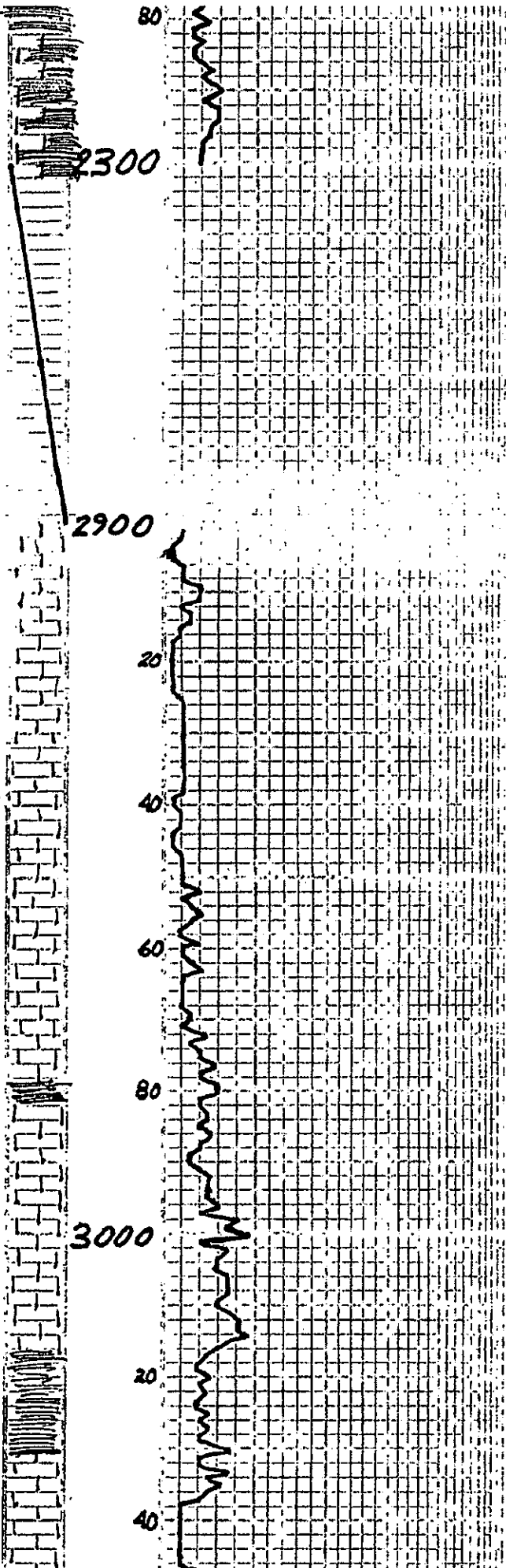


Sh. g. / Ln = AA. See. / no. Ln  
 Sh. g. Ln = AA.  
 Sh. = Dr. Gy. Gx. Gm. Gp. / Ln  
 Ln = A. G. Pa. DSE.  
 Sh. g. Ln = AA. / no. Ln Sh.  
 Sh. g. Ln = AA. / no. Ln Sh.  
 Sh. = Dr. Gy. Gx. Gm. Gp. Ra.  
 Sh = AA.  
 Ln. G. Gy. FX. DSE. SCAT.  
 Sh = AA.  
 Ln. G. Gy. FX. DSE.  
 Sh = DR. Gy. Gx. Gm.  
 Sh = M. Gy. VFG. Gp. Gm. W. Rd.  
 W. Rd. M. Gy. Pa. Pa. Pa.  
 = FR. D. A.S.  
 Sh = AA. No. SWS.  
 Sh = AA. No. SWS.  
 / no. Gy. Gm. Sh. TR. Sh.  
 AA.  
 Ln = TR. M. Gy. FX. DSE.  
 Ln = AA. / SCAT. DR. Gy. Gy.  
 Gm. Sh.  
 SO/SO Ln g. Sh = AA.  
 AA. Ln g. Sh.  
 Pardon. Sh = DR. Gy. Gx. Gm.  
 Rd. = / TR. M. Gy. FX. DSE.  
 Ln.  
 Sh = / TR. Ln = AA.  
 Sh = / TR. Ln = AA.

ONAGA SH.  
2152 (-660) SMPL & LOG

INDIAN CAVE SAND  
2162 (-670) SMPL  
2161 (-669) LOG

WABAUNSEE  
2201 (-709) SMPL  
2199 (-707) LOG



Sh. Dr. Gy. Gy. Dr. Rd. w/ S.S.  
No. In. Dr. Gy. Fr. D. Dr. L.

MUD @ 2327':  
9.7 WT, 30 VIS, N/C FILT,  
60,000 CHLOR, 0 LCM

Ln. Crm. Fr. S. Fr. Fr.  
No. In. Dr. Gy. Fr. D. Dr. L.

Ln. AA. In. In. Gy. Gy. Rd.

Ln. S. AA.

Ln. S. AA.

Ln. S. AA.

Ln. S. AA.

Ln. AA. w/ S. Dr. In. S.

Ln. Fr. Fr. Gy. Fr. Fr. Fr.  
No. In. Dr. Gy. Fr. D. Dr. L.

Ln. S. AA. In. In. S.

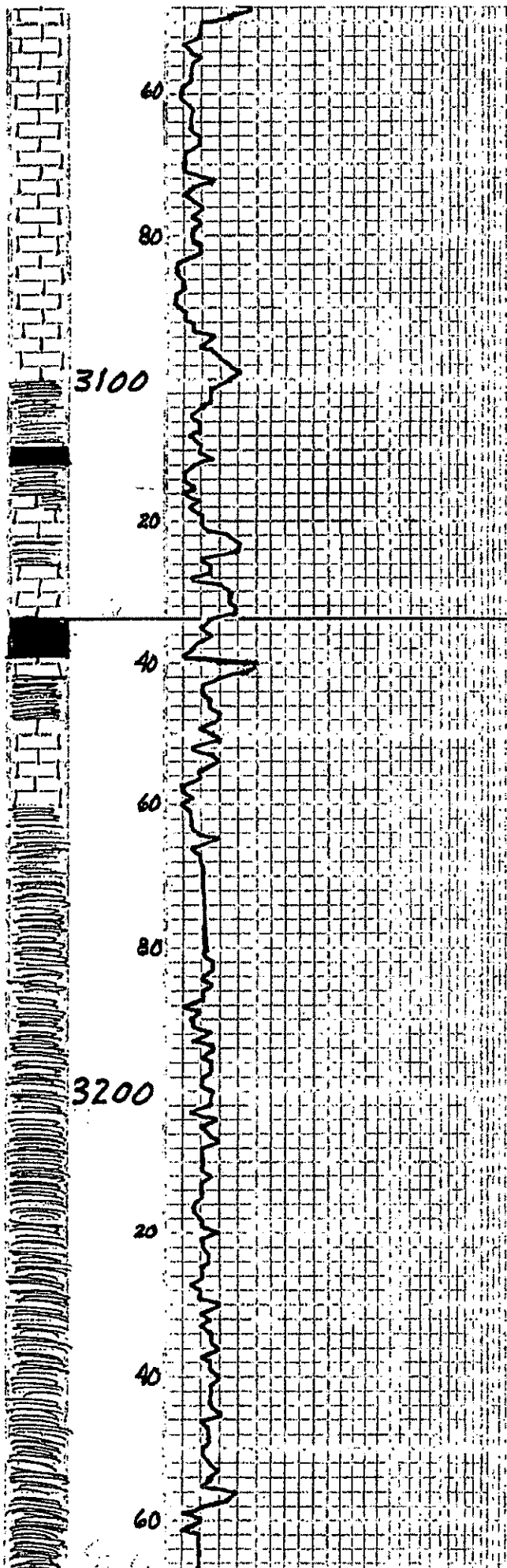
Ln. Crm. Fr. Fr. Fr. Fr.  
No. In. Dr. Gy. Fr. D. Dr. L.

Ln. AA. S. AA.

ADD. DR. Gy. Fr. DR. Rd. S.

S. M. Dr. Gy. Dr. Rd. Gy.  
Gy. Fr. Fr. Fr. Fr. Fr.

SAMPLES V. POOR -  
Rd. Gy. Gy. S.



LM = LN, LN = CM, LN, PR  
 DSE, SAMPLES LIKE  
 FLOOR.

50-50 LN, SH = AA

LM = CM, LN, GY, FX, FAS  
 PR, DSE, SCAT, PR  
 SH = DR, GY, GY = GN.

SH = BLK, CARB.

LM = LN, GY, FX, DSE.

SH = DR, GY.

LM = LN → M, GY, FX, DSE.

SH = BLK, CARB.

LM = LN, GY, FX, DSE.

SH = DR, GY, GY = GN.

LM = CM, LN, GY, FX,  
 DSE, CHKY.

LM = CM, LN, GY, FX,  
 DSE, CHKY.

SH = M, GY, SILTY LN, PR,  
 PR, SILTY LN, SCAT, BLK,  
 RO, SH.

SH = AA, SAND, CM, FX,  
 DSE, LN.

SH = M, GY, SILTY LN,  
 SILTY LN, PR.

SH = AA

SH = AA

SH = AA

SH = AA

SH = AA

SH = AA

SH = AA

HEEBNER  
 3134 (-1642) SMPL  
 3135 (-1643) LOG

3265 (-1773) SMPL  
3265 (-1773) LOG

20 U GAS 3270-90  
25 U GAS 3290-3330

3300

80

20

40

Sb = M Gy. Gy = Br. Y. F. A.  
W. R. D. W. SAT. HAY. M. G.  
No. 1773.

Sb = AA.

Sb = AA.

Sb = AA.

Sb = AA.

Sb = M = DK Gy. YEG  
W. R. D. W. SAT. M. G. No.  
1773.

Sa = AA.

Sh = [redacted] M = DK Gy. Gy =  
G. N. SAT. HAY. M. G.  
No.

LANSING  
3353 (-1861) SMPL  
3352 (-1860) LOG

3400

60

80

20

40

60

80

Lm = G. N. SAT. HAY. M. G. No.  
1773. DSE. C. N. K. Y. M. G.

Lm = G. N. SAT. HAY. M. G. No.  
1773. DSE. C. N. K. Y. M. G.

Lm = AA.

Lm = AA.

Lm = W. R. D. W. SAT. HAY. M. G. No.  
1773. DSE. C. N. K. Y. M. G.

Lm = AA.

Lm = AA.

Lm = AA.

Lm = AA. SHAY.

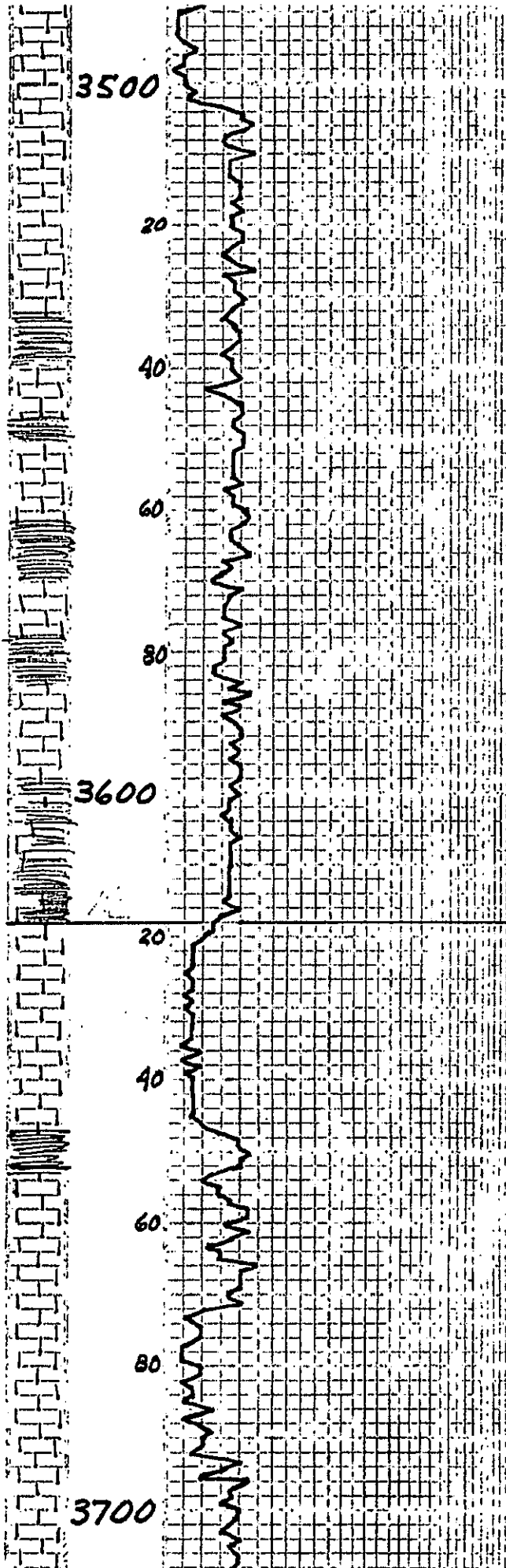
Lm = G. N. SAT. HAY. M. G. No.  
1773. DSE.

Sh = DK Gy. Gy = G. N.

Lm = G. N. SAT. HAY. M. G. No.  
1773. DSE. C. N. K. Y. M. G.

Lm = AA.

Lm = W. R. D. W. SAT. HAY. M. G. No.  
1773.



LM = Cen. Sub. CNKY →  
 42. GY. FX. Fair. V.G.  
 8. NS.

LM = Cen. In. FX. DSR. →  
 50. GY. FX. Fair. Sub. CNKY.  
 NVP.

LM = AA.

LM = M. GY. / Sub. GY. In. D.K. GY.  
 4. GY. GY. SH.

LM = SH = AA.

LM = SH = AA. In. In. SH.

PREDOM. SH. M. D.K. GY. TR.  
 4. GY. TR. In. GY.  
 FX. SUB. CNKY.

SH = M. D.K. GY. GY. GY. D.K.  
 4. GY. TR. In. GY. GY.  
 GY. TR. DSE.

SH = LM = AA.

SH = TR. LM = AA.

SH = D.K. GY. → / SCAR. D.K. GY.  
 FX. DSE. GY. GY.

SH = LM = AA. → / SCAR. Cen.  
 FX. DSE. CRINOIDAL LM.

LM = Cen. In. → M. GY. FX.  
 4. GY. FX. Fair. M.G. D. NS.

LM = AA. NS.

LM = Cen. In. GY. → GY. → FX.  
 CNKY. NVP.

SH = M. → D.K. GY. GY. Cen.  
 TR. RD. SH.

LM = Cen. In. → M. GY. FX. Sub.  
 CNKY. In. → SCAR. FX. GY.  
 4. GY. TR. V. W. GY. GY.  
 ODO. GY. GY. GY. GY. GY.  
 GY. GY. No. GY. SH.

LM = Cen. In. → M. GY. FX.  
 DSE. → CNKY. NVP.  
 SCAR. GY. GY. SH. DSE.  
 GY.

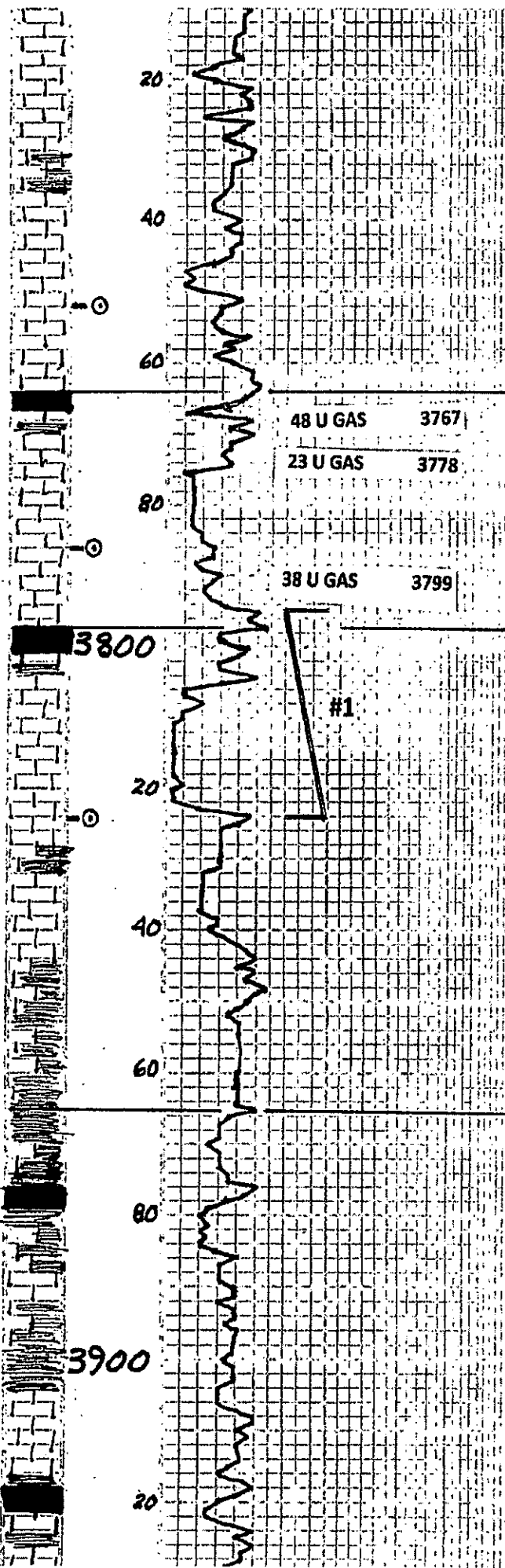
LM = GY. → M. GY. FX. P.G. GY. GY.  
 4. GY. GY. GY. GY. GY.  
 No. VIS. SH.

LM = Cen. In. → M. GY. FX. DSE.

MUD @ 3537':  
 9.2 WT, 42 VIS, 9.6 FILT,  
 5000 CHLOR, 0 LCM

KANSAS CITY  
 3618 (-2126) SMPL  
 3616 (-2124) LOG

DST #1: 3795-3824 (ROTARY)  
 30-60-90-90



20  
40  
60  
80  
20  
40  
60  
80  
20

48 U GAS 3767  
23 U GAS 3778  
38 U GAS 3799

#1

3800  
3900

20

200K No Vis 3800

Ln = Cam, Sub, GNY, L, M, GY, FX, DSE, No Coar. NS, w/TA, CNT = G, OPA, SH, DSE.

Ln = Ab, SART, FR, V, G, B, PLASTING COAR, No Vis SH.

Ln = M, G, TA, FX, DSE.

Ln = Cam, GY, TA, FX, Pa = Fr, V, G, B, NS, No Coar. NS.

Ln = Cam, TA, GY, FX, DSE, Sub, NS, SH.

Ln = AA.

SH = BK, CARB.

Ln = GY, TA, FX, DSE, CNT = GY, OPA, SH, DSE.

Ln = Cam, GY, TA, FX, SART, Pa = V, G, B, NS.

Ln = Cam, GY, TA, FX, DSE.

SH = BK, CARB.

Ln = GY, GY, FX, DSE, w/ NS, L, GY, GY, GY, SH.

Ln = M, GY, FG, HX, O, M, ADIC, STR COAR, V, G, B, G, H, T, G, H, FLUOR, V, SH, SH, FO, G, AD.

Ln = M = DK, GY, FX, DSE, COAR, TA, FR.

SH = DK, GY.

Ln = GY = M, GY, FX, DSE, SART, GY, TA, NS, GY, GY, GY, SH.

SH = M = DK, GY, FX, GY, DK, MAROON, w/ SART, L, AA.

SH = AA, w/ SART, L = AA.

SH = AA, SART, P, R, I, E.

SH = M = DK, GY, GY, GY, GY, DK, MAROON, G, M, B, I, O, N, A, L.

SH = BK, CARB.

SH = Du, GY, GY, GY, DK, MAROON.

Ln = M = DK, GY, FX, GY, TA, Pa, DSE = SART, Pa, V, G, B, NS.

Ln = AA.

SH = M = DK, GY, GY, GY, GY, SH.

Ln = M, GY, FX, DSE, SUB, GNY, TA, FR.

SH = BK, CARB.

IF: WK TO STR BLO IN 12 MIN.  
ISI: NO BB  
FF: WK TO STR BLO IN 20 MIN.  
FSI: NO BB  
REC: 680' SMCW  
SIP'S: 1234 - 1229#  
FP'S: 25-134/137-351#  
HP'S: 1822-1795#  
BHT: 124° F

STARK  
3764 (-2272) SMPL  
3762 (-2270) LOG

HUSHPUCKNEY  
3797 (-2305) SMPL  
3794 (-2302) LOG  
MUD @ 3824':  
9.4 WT, 42 VIS, 10.2 FILT,  
550 CHLOR, 0 LCM  
PIPE STRAP @ 3824:

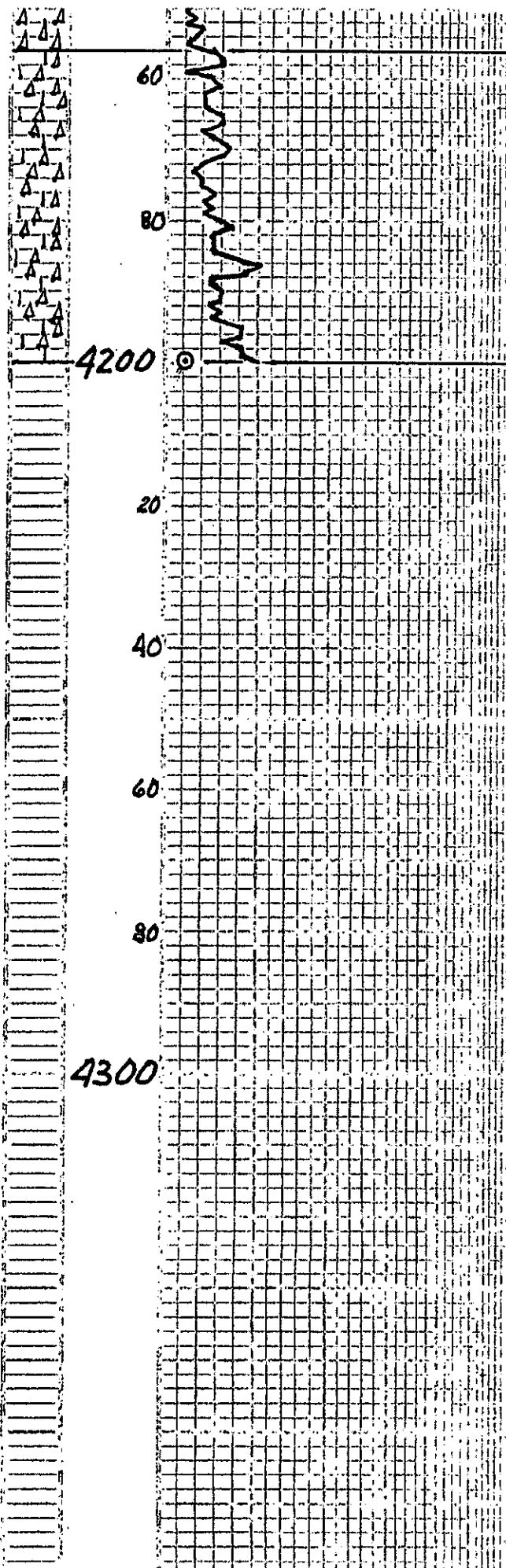
3848.63 STRAP  
3848.38 BOARD  
0.25 LONG

BASE KANSAS CITY  
3865 (-2373) SMPL  
3863 (-2371) LOG

MUD @ 3913':  
9.4 WT, 55 VIS, 10.8 FILT,  
6000 CHLOR, 0 LCM







W.R. COOR.  
 CUT - AA. H.V. WEA. No FO.  
 W.K. -> ER COOR.  
 CUT - W.H. L.R. - M BY Opa  
 DEPT. PART. W.A. 30.  
 SUR. DEPT. STR. No FO.  
 ER COOR.  
 CUT - W.H. EAST Opa, SHP,  
 (55-7) 30. W.H.  
 SUR. 30. L.H.K.  
 CUT - L.H.K. - AA.

MISSISSIPPI LIME  
 4156 (-2664) SMPL  
 4155 (-2663) LOG

MUD @ 4140':  
 9.4 WT, 45 VIS, 10.8 FILT,  
 5000 CHLOR, 0 LCM

TOTAL DEPTH  
 4200 (-2708) ROTARY & LOG

DST #2: 4120 - 40 (ROTARY)  
 30-60-60-90  
 IF: STR BLO. BOB IMMED.  
 GTS IN 6 MIN.  
 GAS GAUGES  
 10" 177 MCF  
 20" 184 MCFPD  
 30" 190 MCFPD  
 ISI: NO BB  
 FF: STR. BLO. BOB IMMED.  
 GTS IMMED.  
 GAS GAUGES  
 10" 220 MCFPD  
 20" 209 MCFPD  
 30" 209 MCFPD  
 40" 197 MCFPD  
 50" 197 MCFPD  
 60" 197 MCFPD  
 FSI: NO BB  
 REC.: 40' DM  
 65' VSWCM  
 (9% W, 91% M)  
 42,000 CHLORIDES  
 SIP'S: 551-547#  
 FP'S: 69-81/91-83#  
 HP'S: 1993-1991 #  
 BHT: 119° F

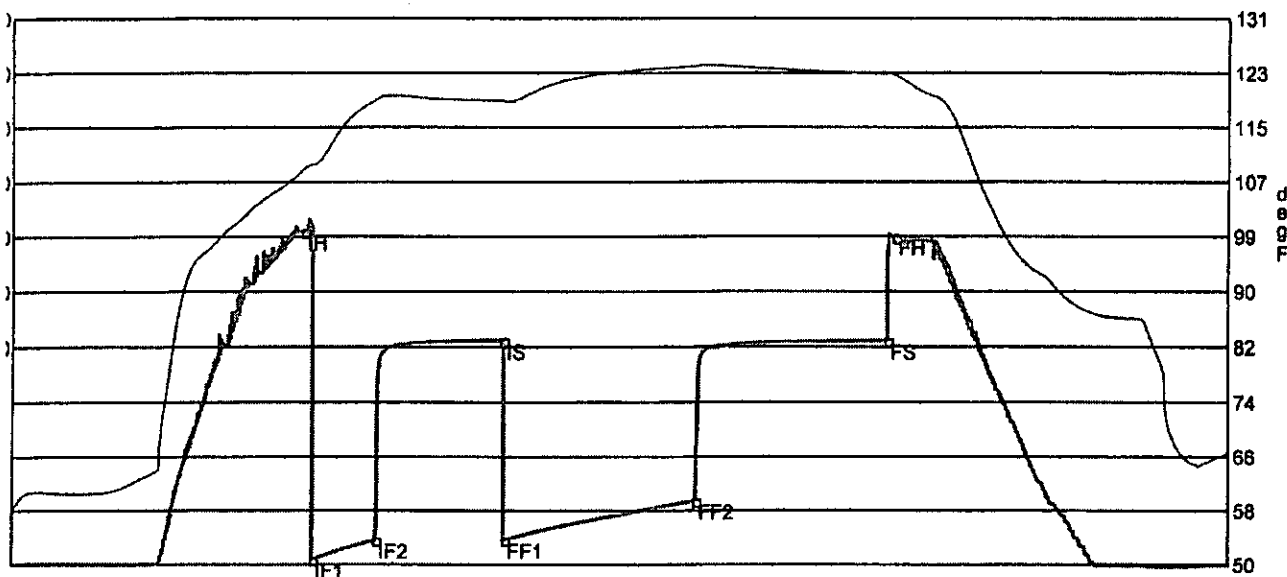
Company	<b>Pickrell Drilling Company, Inc</b>	Lease Name	<b>Young A</b>	
Address	<b>100 South Main, Suite 505</b>	Lease #	<b>2</b>	
CSZ	<b>Wichita, KS 67202</b>	Legal Desc	<b>C NE SE</b>	Job Ticket <b>3414</b>
Attn.	<b>Jerry Smith</b>	Section	<b>12</b>	Range <b>8W</b>
		Township	<b>30S</b>	
		County	<b>Kingman</b>	State <b>KS</b>
		Drilling Cont	<b>Pickrell Drilling #1</b>	
Comments	<b>Field: Splvey-Grabs-Basil</b>			

**GENERAL INFORMATION**

Test # 1	Test Date	<b>2/19/2011</b>	Chokes	<b>3/4</b>	Hole Size	<b>7 7/8</b>
Tester	<b>Jimmy Ricketts</b>		Top Recorder #	<b>11027</b>		
Test Type	<b>Conventional Bottom Hole</b>		Mid Recorder #			
	<b>Successful Test</b>		Bott Recorder #	<b>w1023</b>		
# of Packers	<b>2.0</b>	Packer Size	<b>6 3/4</b>	Mileage	<b>128</b>	Approved By
Mud Type	<b>Gel Chem</b>		Standby Time	<b>0</b>		
Mud Weight	<b>9.4</b>	Viscosity	<b>42.0</b>	Extra Equipmnt	<b>Jars &amp; Safety Joint</b>	
Filtrate	<b>10.2</b>	Chlorides	<b>5500</b>	Time on Site	<b>10:00 AM</b>	
				Tool Picked Up	<b>11:30 AM</b>	
				Tool Layed Dwn	<b>8:00 PM</b>	
Drill Collar Len	<b>0</b>		Elevation	<b>1482.00</b>	Kelley Bushings	<b>1492.00</b>
Wght Pipe Len	<b>0</b>					
Formation	<b>Kansas City Hertha</b>		Start Date/Time	<b>2/19/2011 11:04 AM</b>		
Interval Top	<b>3795.0</b>	Bottom	<b>3824.0</b>	End Date/Time	<b>2/19/2011 8:33 PM</b>	
Anchor Len Below	<b>29.0</b>	Between	<b>0</b>			
Total Depth	<b>3824.0</b>					
Blow Type	<b>Weak blow building to strong blow 12 minutes into initial flow period. Weak blow building to strong blow 20 minutes into final flow period.</b>					
	<b>Times: 30, 60, 90, 90.</b>					

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
680	Heavy mud cut water	0% 0ft	0% 0ft	93% 632.4ft	7% 47.6ft
DST Fluids		<b>290000</b>			



	Date	Time	Pressure	Temp	
IH	2/19/2011 1:20:20 PM	2.272222	1822.076	108.734	Initial Hydro-static
IF1	2/19/2011 1:24:30 PM	2.341667	25.666	109.191	Initial Flow (1)
IF2	2/19/2011 1:54:10 PM	2.836111	133.741	118.899	Initial Flow (2)
IS	2/19/2011 2:53:20 PM	3.822222	1233.705	118.817	Initial Shut-In
FF1	2/19/2011 2:54:00 PM	3.833333	137.257	118.658	Final Flow (1)
FF2	2/19/2011 4:23:20 PM	5.322222	351.109	123.849	Final Flow (2)
FS	2/19/2011 5:53:40 PM	6.827778	1229.119	122.769	Final Shut-In
FH	2/19/2011 5:57:10 PM	6.886111	1795.2	122.529	Final Hydro-static

; FLOWS

to IFP    Min Into FFP    Gas Flows    Pressure    Choke

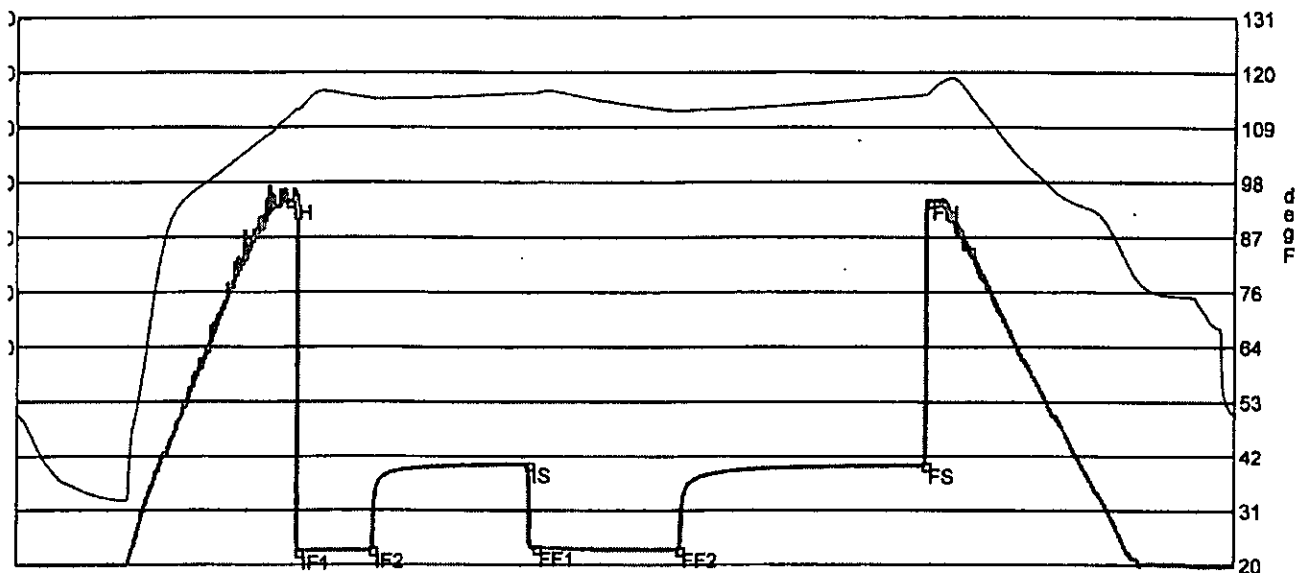
Company	<b>Pickrell Drilling Company, Inc</b>	Lease Name	<b>Young A</b>	
Address	<b>100 South Main, Suite 505</b>	Lease #	<b>2</b>	
CSZ	<b>Wichita, KS 67202</b>	Legal Desc	<b>C NE SE</b>	Job Ticket <b>3414</b>
Attn.	<b>Jerry Smith</b>	Section	<b>12</b>	Range <b>8W</b>
		Township	<b>30S</b>	
		County	<b>Kingman</b>	State <b>KS</b>
		Drilling Cont	<b>Pickrell Drilling #1</b>	
Comments	<b>Field: Spivey-Grabs-Basil</b>			

**GENERAL INFORMATION**

Test # <b>2</b>	Test Date <b>2/21/2011</b>	Chokes <b>3/4</b>	Hole Size <b>7 7/8</b>
Tester <b>Jimmy Ricketts</b>		Top Recorder # <b>11027</b>	
Test Type <b>Conventional Bottom Hole</b>		Mid Recorder #	
		Bott Recorder # <b>w1023</b>	
# of Packers <b>2.0</b>	Packer Size <b>6 3/4</b>	Mileage <b>128</b>	Approved By
		Standby Time <b>0</b>	
Mud Type <b>Gel Chem</b>		Extra Equipmnt <b>Jars &amp; Safety Joint</b>	
Mud Weight <b>9.4</b>	Viscosity <b>45.0</b>	Time on Site <b>6:00 AM</b>	
Filtrate <b>10.8</b>	Chlorides <b>5000</b>	Tool Picked Up <b>7:30 AM</b>	
		Tool Layed Dwn <b>2:30 PM</b>	
Drill Collar Len <b>0</b>		Elevation <b>1482.00</b>	Kelley Bushings <b>1492.00</b>
Wght Pipe Len <b>0</b>			
Formation <b>Mississippian</b>		Start Date/Time <b>2/21/2011 7:03 AM</b>	
Interval Top <b>4120.0</b>	Bottom <b>4140.0</b>	End Date/Time <b>2/21/2011 3:03 PM</b>	
Anchor Len Below <b>20.0</b>	Between <b>0</b>		
Total Depth <b>4140.0</b>			
Blow Type <b>Strong blow throughout initial flow period. Strong blow throughout final flow period. Times: 30, 62, 60, 67.</b>			

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
40	Drilling mud	0% 0ft	0% 0ft	0% 0ft	100% 40ft
65	Heavy water cut mud	0% 0ft	0% 0ft	9% 5.9ft	91% 59.2ft
DST Fluids <b>42000</b>					



	Date	Time	Pressure	Temp	
IH	2/21/2011 8:48:45 AM	1.7625	1992.911	111.183	Initial Hydro-static
IF1	2/21/2011 8:52:45 AM	1.829167	68.988	112.536	Initial Flow (1)
IF2	2/21/2011 9:22:15 AM	2.320833	80.747	114.596	Initial Flow (2)
IS	2/21/2011 10:24:00 AM	3.35	551.48	115.729	Initial Shut-In
FF1	2/21/2011 10:27:00 AM	3.4	90.728	115.847	Final Flow (1)
FF2	2/21/2011 11:23:15 AM	4.3375	83	112.123	Final Flow (2)
FS	2/21/2011 1:01:30 PM	5.975	546.736	115.336	Final Shut-In
FH	2/21/2011 1:02:45 PM	5.995833	1991.469	115.782	Final Hydro-static

FLOW S

to IFP	Min Into FFP	Gas Flows	Pressure	Choke
0		177.00 mcf	6.50 h2o	1.50 in
0		184.00 mcf	7.00 h2o	1.50 in
0		190.00 mcf	7.50 h2o	1.50 in
10		220.00 mcf	10.00 h2o	1.50 in
20		209.00 mcf	9.00 h2o	1.50 in
30		209.00 mcf	9.00 h2o	1.50 in
40		197.00 mcf	8.00 h2o	1.50 in
50		197.00 mcf	8.00 h2o	1.50 in
60		197.00 mcf	8.00 h2o	1.50 in

PICKRELL DRILLING CO, INC. IFAF AMN WFLI NO YOUNG A #2

SEC. 12 TWP. 30S RGE. 8W TEST NO. 2 DATE 2-21-11