



KANSAS CORPORATION COMMISSION 1101521
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 # _____

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: _____



1101521

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

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Hobbisiefken 2-11
Doc ID	1101521

All Electric Logs Run

Dual Induction
Compensated Neutron -Density
Microlog
Cbl



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

001555

INVOICE

Invoice Number: 131288
Invoice Date: May 22, 2012
Page: 1



RECEIVED JUN 04 2012

Bill To:
Atlas Operating
15603 Kuykendahl Suite #200
Houston, TX 77090-3655

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Atlas	Hobbisiefken #2-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Medicine Lodge	May 22, 2012	6/21/12

Quantity	Item	Description	Unit Price	Amount
250.00	MAT	Class A Common	16.25	4,062.50
5.00	MAT	Gel	21.25	106.25
9.00	MAT	Chloride	58.20	523.80
282.86	SER	Cubic Feet	2.10	594.00
926.81	SER	Ton Miles	2.35	2,178.00
1.00	SER	Surface	1,216.20	1,216.20
75.00	SER	Heavy Vehicle Mileage	7.00	525.00
1.00	SER	Manifold Head Rental	200.00	200.00
75.00	SER	Light Vehicle Mileage	4.00	300.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Jason Thimesch		
1.00	EQUIP OPER	Brett Goins		
1.00	OPER ASSIST	Brandon Boor		

DESCRIPTION Cement
ACCOUNT # 160015
WELL NAME _____
AFE # _____
DATE _____ APPROVED E. Allen
6/5/12
Surface 8 5/8

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 1959.55

ONLY IF PAID ON OR BEFORE
Jun 16, 2012

Subtotal	9,797.75
Sales Tax	325.35
Total Invoice Amount	10,123.10
Payment/Credit Applied	
TOTAL	10,123.10



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

001591
001614

INVOICE

Invoice Number: 131382
Invoice Date: May 29, 2012
Page: 1



Bill To:
Atlas Operating
15603 Kuykendahl Suite #200
Houston, TX 77090-3655

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Atlas	Hobbisiefker#2-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-04	Medicine Lodge	May 30, 2012	6/28/12

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	19.00	2,850.00
750.00	MAT	KolSeal	0.89	667.50
70.00	MAT	F1160	17.20	1,204.00
21.00	MAT	Defoamer	8.90	186.90
500.00	MAT	MudClean	1.27	635.00
168.00	SER	Handling	2.25	378.00
50.00	SER	Ton Miles	18.48	924.00
1.00	SER	2 Stage	2,405.00	2,405.00
50.00	SER	Heavy Vehicle Mileage	7.00	350.00
1.00	SER	Manifold Head Rental	200.00	200.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	EQP	5 1/2 AFU Float Shoe	349.00	349.00
1.00	EQP	5 1/2 Latch Down Plug	349.00	349.00
1.00	EQP	5 1/2 Basket	337.00	337.00
1.00	EQP	5 1/2 DV Tool	3,721.00	3,721.00
12.00	EQP	5 1/2 Centralizers	49.00	588.00
1.00	CEMENTER	Darin Franklin		
1.00	CEMENTER	Ron Gilley		
1.00	OPER ASSIST	Troy Lenz		

RECEIVED JUN 11 2012

DESCRIPTION Cement
~~5 1/2" Casing~~
ACCOUNT # 160015
WELL NAME _____
AFE # _____
DATE _____ APPROVED _____
5 1/2" 1845

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3054.48

ONLY IF PAID ON OR BEFORE
Jun 23, 2012

Subtotal	15,272.40
Sales Tax	735.45
Total Invoice Amount	16,007.85
Payment/Credit Applied	
TOTAL	16,007.85

ALLIED OIL & GAS SERVICES, LLC 053955

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge, KS

Stage #1

DATE <u>5-30-2012</u>	SEC. <u>3</u>	TWP. <u>35S</u>	RANGE <u>3E</u>	CALLED OUT	ON LOCATION <u>10:00 AM</u>	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:30 PM</u>
LEASE <u>Hobbs Stiefver</u>	WELL # <u>2-11</u>	LOCATION <u>C91dwell, ks, Kanokls sish</u>			COUNTY <u>Sumner</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		W on Blk to to Conover Springs Rd, 1/2, 1/4, 1/2, 3/4, 1/2					

CONTRACTOR <u>U91 #2</u>	OWNER <u>Atlas Operating</u>
TYPE OF JOB <u>2 Stage</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4980'</u>
CASING SIZE <u>5 1/2 19.5#</u>	DEPTH <u>4983'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>DV 7001</u>	DEPTH <u>3955'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>41'</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>20 bbls wgr 97 bbls mud</u>	

CEMENT		
AMOUNT ORDERED <u>1508x Class B ASC</u>		
<u>5# Kolsesi + .5% FL160 + DeLozman</u>		
COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC Class B <u>1508x</u>	@ <u>19.00</u>	<u>2850.00</u>
<u>Kolsesi 750#</u>	@ <u>0.89</u>	<u>667.50</u>
<u>FL160 70#</u>	@ <u>17.20</u>	<u>1204.00</u>
<u>DeLozman 21#</u>	@ <u>8.90</u>	<u>186.90</u>
<u>Mud Clean 500 gals</u>	@ <u>1.27</u>	<u>635.00</u>
	@	
	@	
	@	
	@	
HANDLING <u>168.5x</u>	@ <u>2.25</u>	<u>378.00</u>
MILEAGE <u>168.11 / 50</u>		<u>924.00</u>
		<u>TOTAL 6845.40</u>

EQUIPMENT	
PUMP TRUCK # <u>545-545</u>	CEMENTER <u>Don F</u>
	HELPER <u>Ron G, Don F</u>
BULK TRUCK # <u>364</u>	DRIVER <u>Troy</u>
BULK TRUCK #	DRIVER

REMARKS:

Pipe on bottom & break circulation
Pump 3 bbls wgr, 500 gal mud clean, 3 bbls
wgr, mix 150s of cement, shut down
wgr pump & lines, drop plug, 500 gal displacement
Lift pressure at 85 bbls, slow rate to
300m 9+110 bbls, bump plug at 117 bbls
500-1100 psi, plug & hold, drop port
wait 20 minutes, open tool 9+ 1200 psi

SERVICE

DEPTH OF JOB <u>4983'</u>		
PUMP TRUCK CHARGE		<u>2405.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>50</u>	@ <u>7.00</u>	<u>350.00</u>
MANIFOLD <u>Haga rental</u>	@	<u>200.00</u>
<u>Light behav</u>	@ <u>4.00</u>	<u>200.00</u>
	@	
		<u>TOTAL 3155.00</u>

CHARGE TO: Atlas Operating
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>		
1-DFD Float shoe	@	<u>349.00</u>
1- Latch Down Plug	@	<u>272.00</u>
1- Rssker	@	<u>337.00</u>
1- DV 7001	@	<u>3721.00</u>
12- Conrol 2015	@ <u>49.00</u>	<u>588.00</u>
		<u>TOTAL 5272.00</u>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
TOTAL CHARGES 15,272.40
DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Bob Younce

SIGNATURE Bob Younce

Field Estimate
Net \$ 11,454.30



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 131383
Invoice Date: May 30, 2012
Page: 1

001590

601613

RECEIVED JUN 11 2012



Bill To:
Atlas Operating
15603 Kuykendahl Suite #200
Houston, TX 77090-3655

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Atlas	Hobbigerker#2-11	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-04	Medicine Lodge	May 30, 2012	6/29/12

Quantity	Item	Description	Unit Price	Amount
97.50	MAT	Class A Common	16.25	1,584.38
52.50	MAT	Pozmix	8.50	446.25
8.00	MAT	Gel	21.25	170.00
150.00	MAT	ASC	19.00	2,850.00
750.00	MAT	KolSeal	0.89	667.50
42.00	MAT	FL160	17.20	722.40
21.00	MAT	Defoamer	8.90	186.90
500.00	MAT	MudClean	1.27	635.00
326.00	SER	Handling	2.25	733.50
50.00	SER	Ton Miles	35.86	1,793.00
1.00	SER	2 Stage	1,200.00	1,200.00
1.00	CEMENTER	Darin Franklin		
1.00	CEMENTER	Ron Gilley		
1.00	OPER ASSIST	Troy Lenz		

DESCRIPTION Cement
ACCOUNT # 70005
WELL NAME 160015
AFE # _____
DATE _____ APPROVED _____

5 1/2 Prod
2nd str.

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2197.78

ONLY IF PAID ON OR BEFORE
Jun 24, 2012

Subtotal	10,988.93
Sales Tax	493.85
Total Invoice Amount	11,482.78
Payment/Credit Applied	
TOTAL	11,482.78

ALLIED OIL & GAS SERVICES, LLC 053956

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge, Ks

Stage #2

DATE <u>5-30-2012</u>	SEC. <u>3</u>	TWP. <u>35S</u>	RANGE <u>3W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00pm</u>	JOB FINISH <u>9:00pm</u>
LEASE <u>Hobbs-edker</u>	WELL# <u>2-11</u>		LOCATION <u>C91dwell Ks gr Kgnalc19</u>		COUNTY <u>SOMMER</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)			SIGN <u>go w on BKTIP to Conway Springs Rd 1/2 mi, 1/2 mi</u>				

CONTRACTOR U91 #2
 TYPE OF JOB 2 str 92
 HOLE SIZE 7 7/8 T.D. 4990'
 CASING SIZE 5 1/2 DEPTH 4983
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Du tool DEPTH 3955
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 41'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 94 bbls of Freshwater

OWNER Atlas Operating

CEMENT
 AMOUNT ORDERED 150 sy 65:35:69/60/1
1/4 # Flsosl, 150 sy C1985 A DSC + 5#
Kolsol + 3% FL160

COMMON <u>C1985 A</u>	<u>97 1/2 @ 16.25</u>	<u>1584.38</u>
POZMIX	<u>52 1/2 sy @ 8.50</u>	<u>446.25</u>
GEL	<u>85K @ 21.25</u>	<u>170.00</u>
CHLORIDE	@ _____	_____
ASC	<u>150 sy @ 19.00</u>	<u>2850.00</u>
<u>Kolsol</u>	<u>750 # @ 0.89</u>	<u>667.50</u>
<u>FL160</u>	<u>42 # @ 17.20</u>	<u>722.40</u>
<u>Deformen</u>	<u>21 # @ 8.90</u>	<u>186.90</u>
<u>Mud clean</u>	<u>500 bbls @ 1.27</u>	<u>635.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Darin F
 # 646-545 HELPER Ron G., Darin F.
 BULK TRUCK
 # 356-290 DRIVER Troy L.
 BULK TRUCK
 # _____ DRIVER _____

HANDLING	<u>326 @ 2.25</u>	<u>733.50</u>
MILEAGE	<u>326.11/50</u>	<u>1793.00</u>
TOTAL		<u>9788.93</u>

REMARKS:

Circle 2 hours, Hook back up to pump
Plus Re-hole & mouse hole with 4500, mix
105 sy of 60% cement, mix 150 sy of 10%
cement, shut down, wash pump & lines, drop
plug, start displacement, high pressure
92-60 bbls, slow rate to 3000 ex 80 bbls
dump plus 92 94 bbls 600-1200 psi, to
close tool, hold, took beer to 500, release
tool legs

SERVICE

DEPTH OF JOB	<u>3955</u>	_____
PUMP TRUCK CHARGE	_____	<u>1200.00</u>
EXTRA FOOTAGE	@ _____	_____
MILEAGE	@ _____	_____
MANIFOLD	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL		<u>1200.00</u>

CHARGE TO: Atlas Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

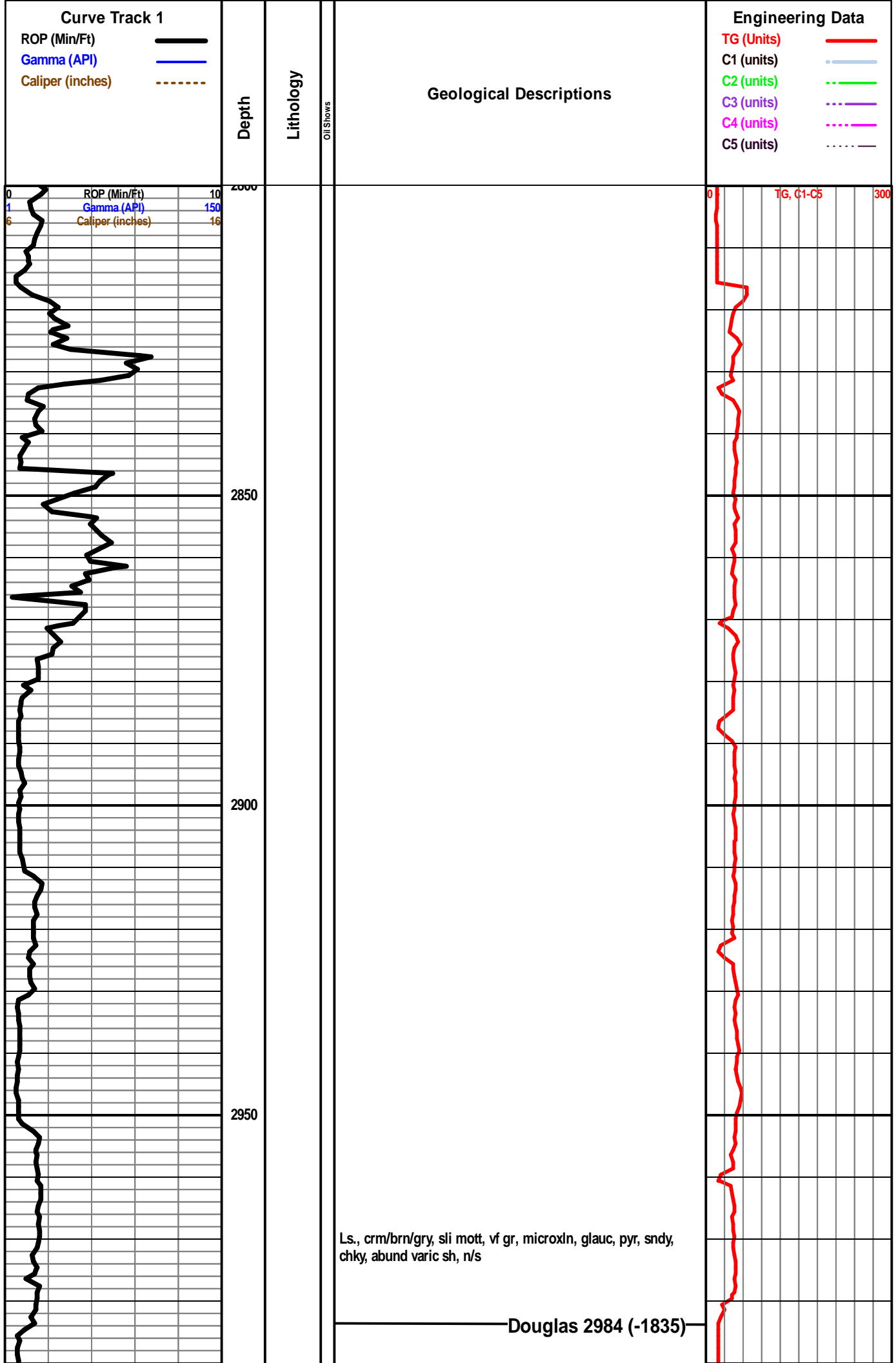
PLUG & FLOAT EQUIPMENT

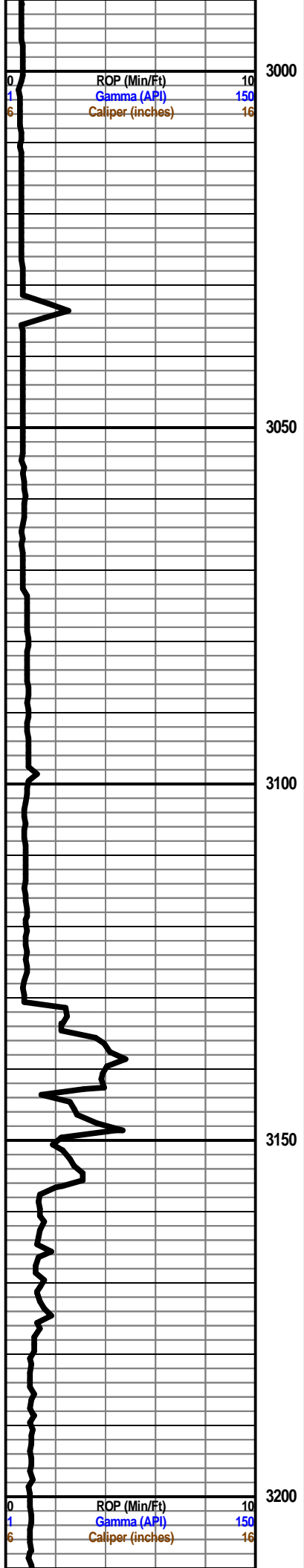
<u>None</u>	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL		_____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Bob Youn
 SIGNATURE Bob Youn

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>10,988.93</u>
DISCOUNT	_____ IF PAID IN 30 DAYS
<u>Field Estimate</u>	
<u>Net \$ 8,241.70</u>	





Ls., gry, sing, vf gr, intgran por, slty, sub rddd, r dd O stns, n/s

Ls., a.a

Ls., gry/brn, mott, med gr, srted, gd intgran por, pyr IP, n/s

Sh., gry, slty

Ls., crm/gry, mott, v fssl to f xln, n/s

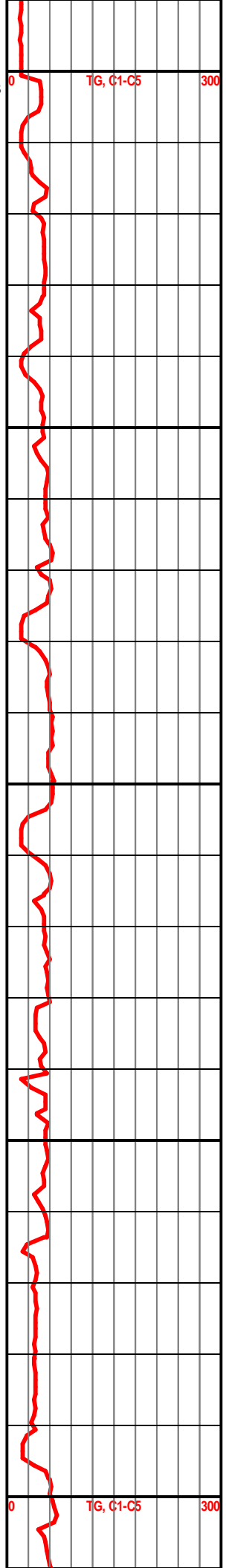
Sh., gry, slty

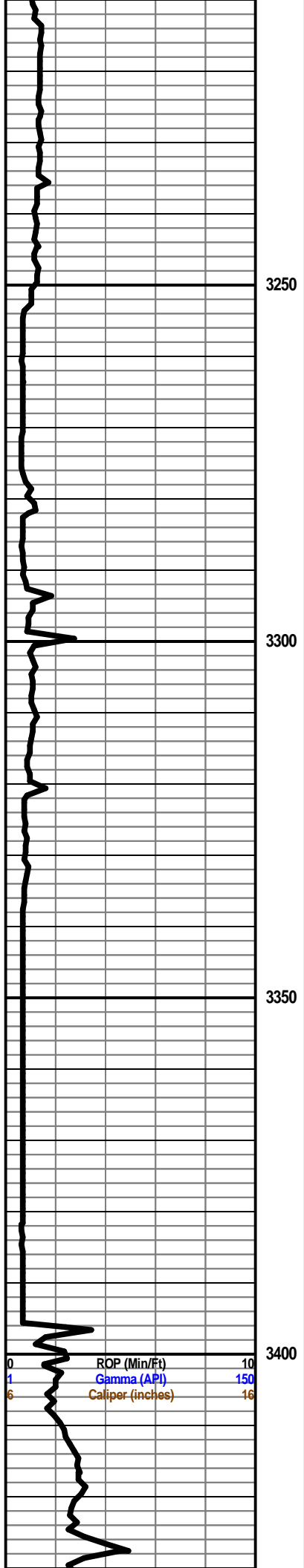
Ls., wht/crm/gry, mott, f xln to fssl, n/s

Ls. & Sh., a.a

Sh., lt gry/gry, mica incl

Sh., a.a





Siltst., a.a, trc vf gr SS

Ls., tan/crm, fssl, mott, n/s

Stalneker 3236 (-2077)

3250

SS., lt gry/wht, vf gr, subang, sli fria, abund mica incl, gils, no fluor, no odr, NSFO

SS., a.a, sli calc, incr med gr

SS., clr/wht, med gr, gd intgran por, srted, fria, abund calc & mica incl, n/s

3300

SS., a.a, trc wht/crm sub-chky to fssl Ls., n/s

SS & Ls., a.a

SS., wht/gry/tan, vf to med gr, non-fria, n/s

3350

SS., a.a, incr gry/gn Sh

SS., wht/tan/gry, non-fria, f to med xln, srted to pr srted, abund gry Siltst., n/s

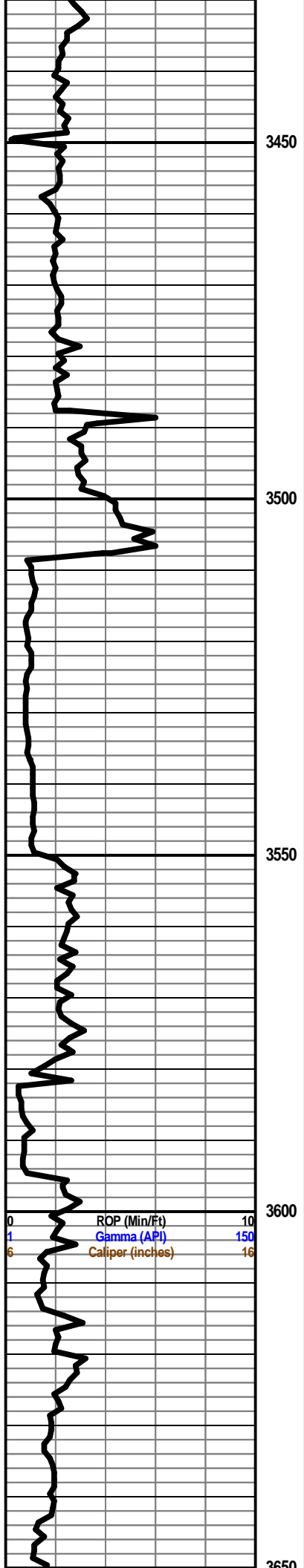
3400

0 ROP (Min/Ft) 10
 1 Gamma (API) 150
 6 Caliper (inches) 16

SS., Wht-fn to med xln calc in part no show

0 TG, C1-C5 300

Sh., silty to gry arg.



Sh., A/A SS., crm fn to med xln to gry silty to mica no show

Sh., gry silty to gry and Brn argil.

Sh., A/A

Sh., Gry and Brn. Argil

Sh., Abund Lt Gry Silty Sh with Fn. Grained Mic. SS

Sh., Abund. Gry to Drk Gry Silty to Arg.

Sh., A/A

Layton 3583 (-2434)

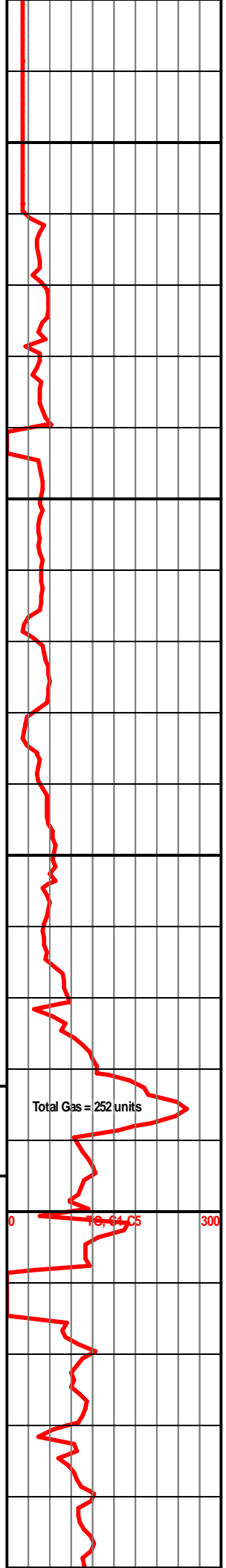
SS., Clear to White v.Fn to med xln v.-well sorted to sorted Black Gilsonitic strn on a few pcs. no Free oil v-poor dull fluor no odor

Kansas City 3595 (-2446)

SS., A/A

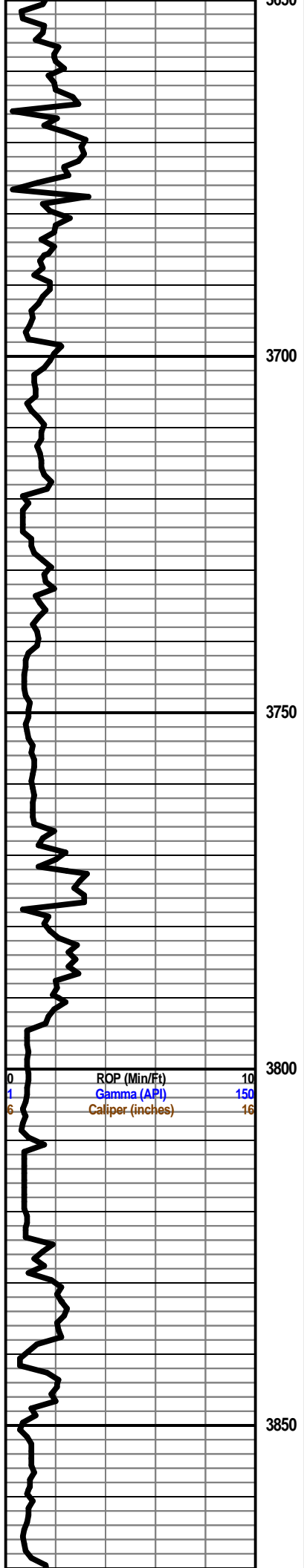
Sh., Gry Dk. Gry Silty

Sh., A/A



0	ROP (Min/Ft)	10
1	Gamma (API)	150
6	Caliper (inches)	16

0 100 200 300



Sh., Gry Brb -Arg

Ls., Gry to tan Fn.-xln., fssl to sub-chalky no show

Ls., crm-gry sing/mott fssl to fn-xln p-inter-xln por trc of gilsonitc stn v-strong NFO Trc of lt. gold Fluou

Ls., A/A no Show lots of gry siltstone and gry Sh

SS., crm., lt Gry abund. siltstone No Show

A/A

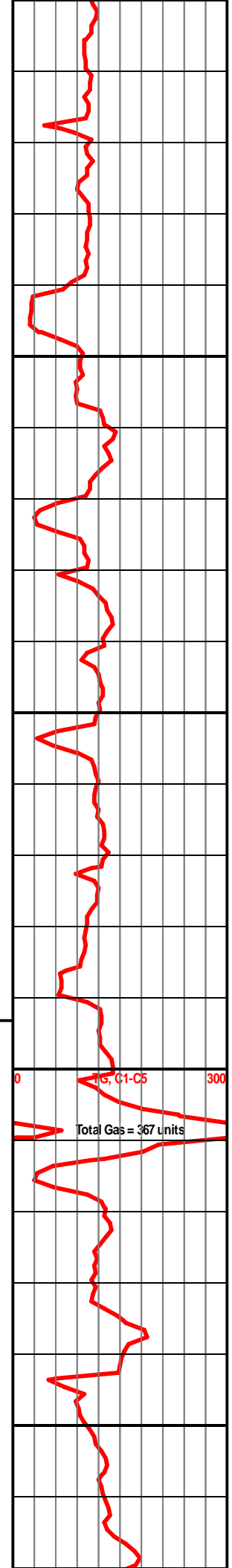
Ls., Crm., Gry fssl to fn-xln. Abund. Wht to lt-Gry fn grained SS to siltstone no show of F.O. strong odor no fluor

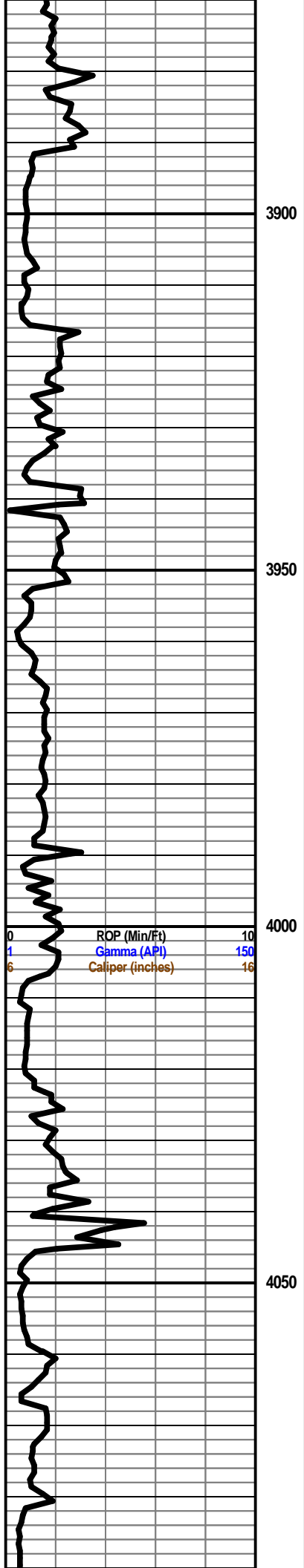
BKC 3794 (-2645)

Sh., Gry to dark Gry arg. to silty

Ls., crm/gry, sing/mott, crypto to f xln, fssl IP, n/s

SS., lt gry, vf gr, mica IP, n/s





Sh., lt gry/gry, argil to slty

Marmaton 3869 (-2720)

Sh., dk gry/gry, trc lt gn, slty to argil

3900

Ls., wht/crm, sing, f xln, sli fssl, n/s

Sh., a.a

3950

Sh., varic, slty to argil

Ls., crm/tan, cryto xln, v tite, trc frs tan Cht, sli fssl

Ls., a.a, sub-chky IP

4000

0	ROP (Min/Ft)	10
1	Gamma (API)	150
6	Caliper (inches)	16

Ls., a.a

Cherokee 4022 (-2873)

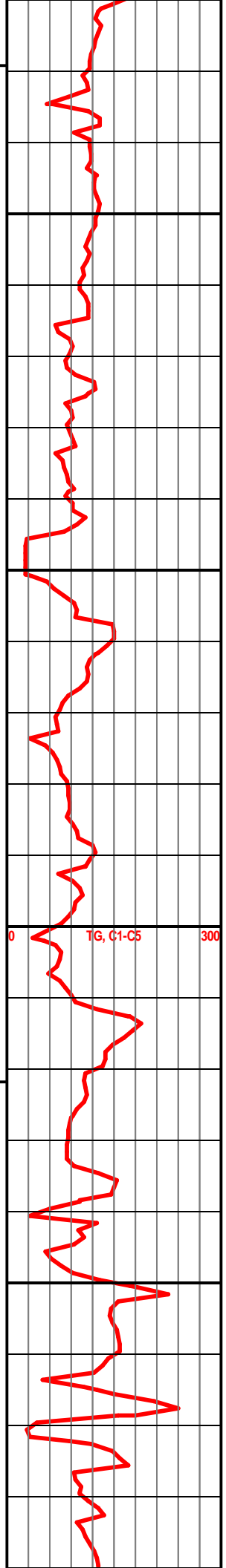
Ls., tan/gry, mott, cryto to f xln, n/s

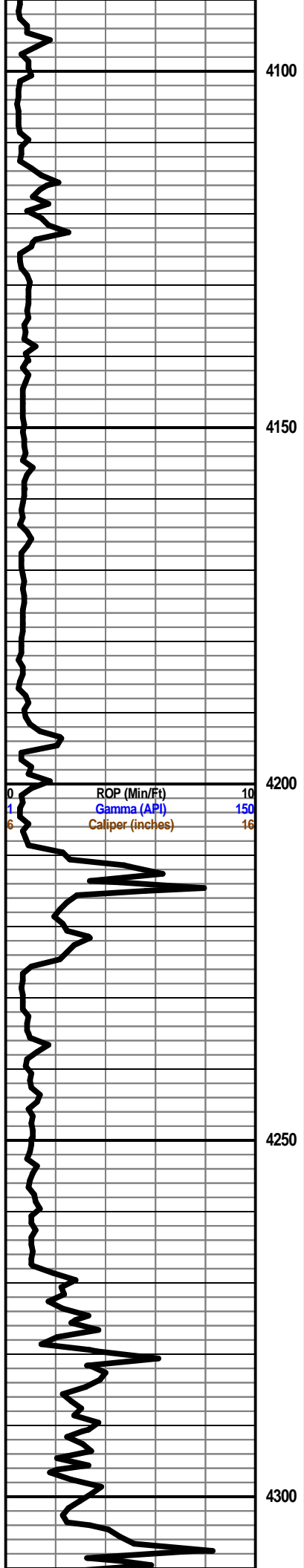
4050

Sh., varic

Ls., gry/tan, sing/mott, vf xln, sub-chky, sli fssl, n/s

Ls., a.a, abund lt gry sltst, trc rr G bubbles, no stn, no odr, NSFO





Sh., blk carb to gry slty, sli pyr Sltst

Sh., lt gry/dk gry, argil, slty

Ls., lt gry, mott, f gr, intgran por, slty, sub-rnd, sli pyr, n/s

Sh., lt gry/dk gry, argil, brec, sli pyr

Sltst, crm/lt gry, f gr, srted, rnd, n/s

0 ROP (Min/Ft) 10
 1 Gamma (API) 150
 6 Caliper (inches) 16

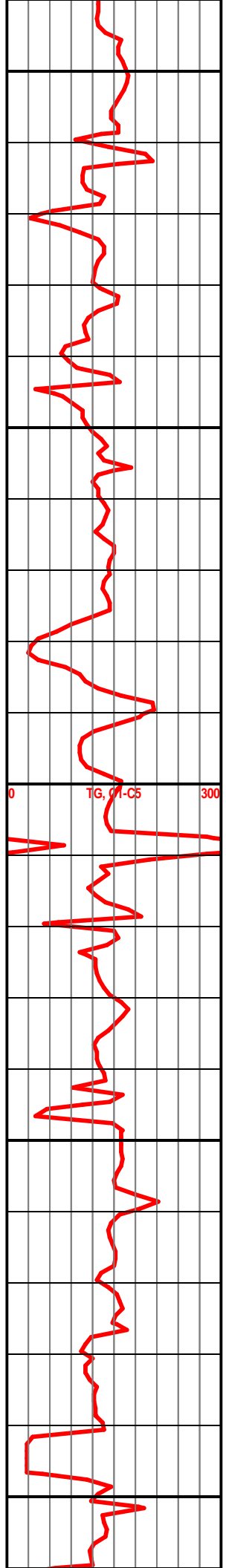
Ls., crm/tn, vf gr, fssl, shly, n/s

Sh., gry/blk carb, slty, mica, pyr, brec, rr dd O stns

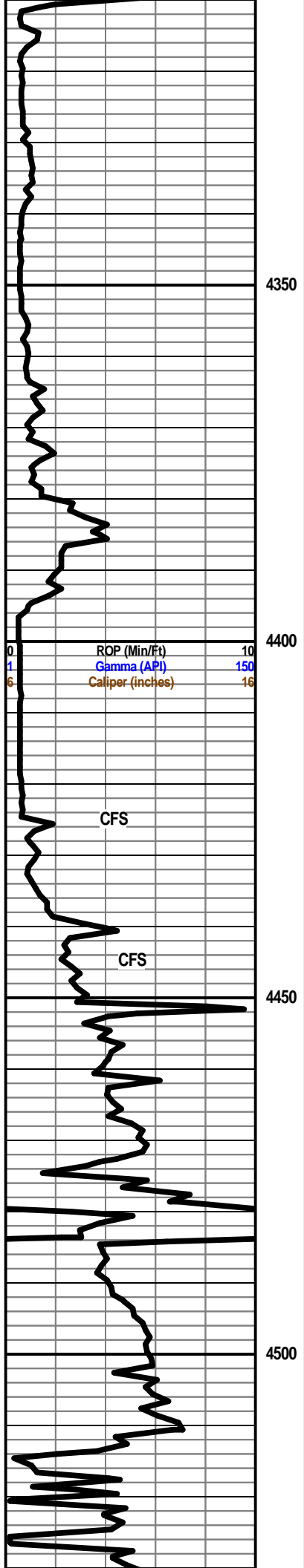
Sh., a.a

Sh., varic, slty

Sh., a.a, strat, glauc



0 TG, G1-C5 300



Ls., crm/gry, sing, vf to microxln, slty, glauc, pyr, abund gry Sh, no odr, n/s

Ls., crm/tn/brn, mott, f to med gr, brec, pyr, rr vug por, Oom, glauc, rr dd O stns, abund varic Sh, n/s

Mississippi 4337 (-3186)

Cht., clr/wht, frs, subang, fssl, no odr, no fluor, n/s

Cht., a.a, incr fluor, abund varic Sh

Cht., wht/crm/tn, frs, ang, frac, no odr, n/s

Cht., wht/crm, frs to sli-trip, shallow vug por, v gd odr, gd G Bubl, trc stns, fr show lt free O

Cht., wht, sli fssl, frs, fr odr, no fluor, NSFO

Sh., gry/lt gry, argil, Cht. a.a, n/s

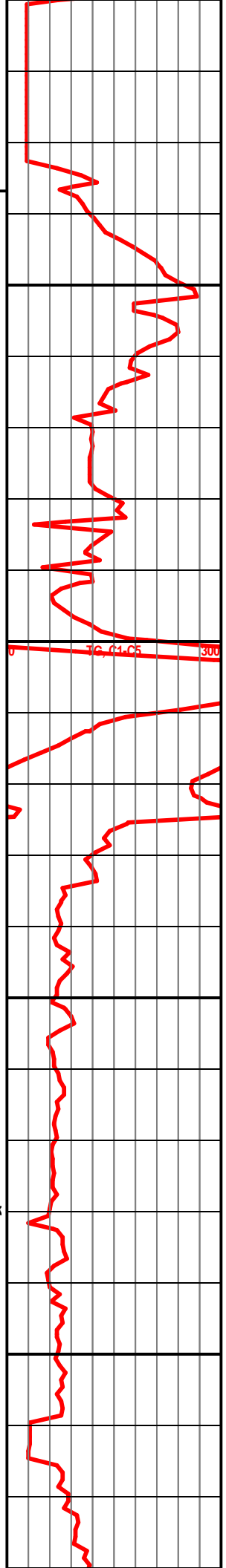
Sh., a.a, su odr

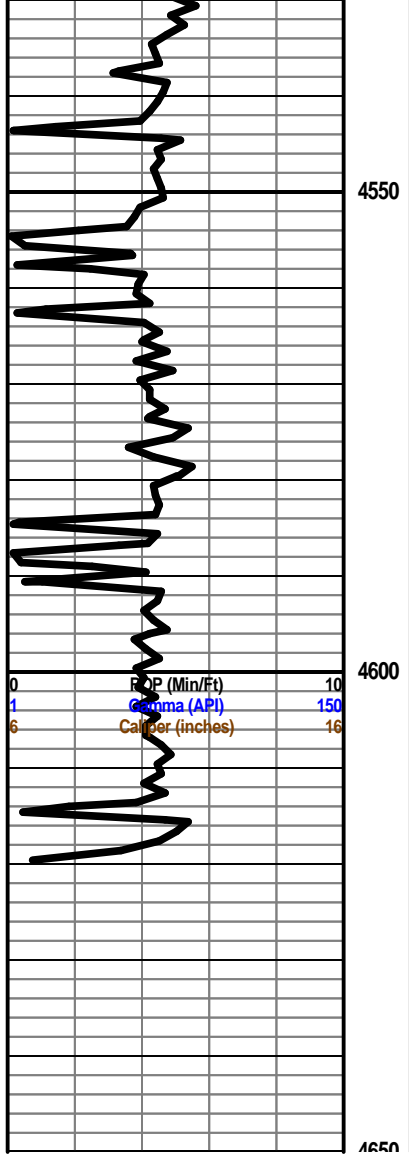
Sh., blk carb/varic

Cht., wht/crm, frs to sli withd, no fluor, sli su odr, abund gry/dk gry Sh

Cht., a.a, incr su odr

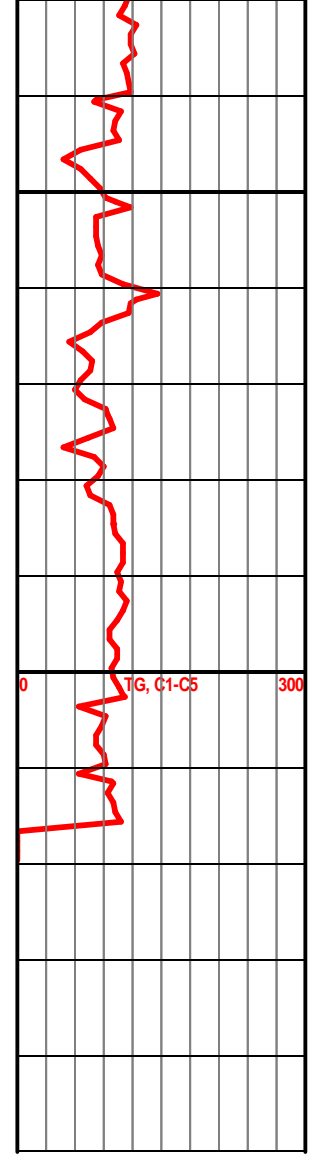
Sh., gry/gn/blk, argil

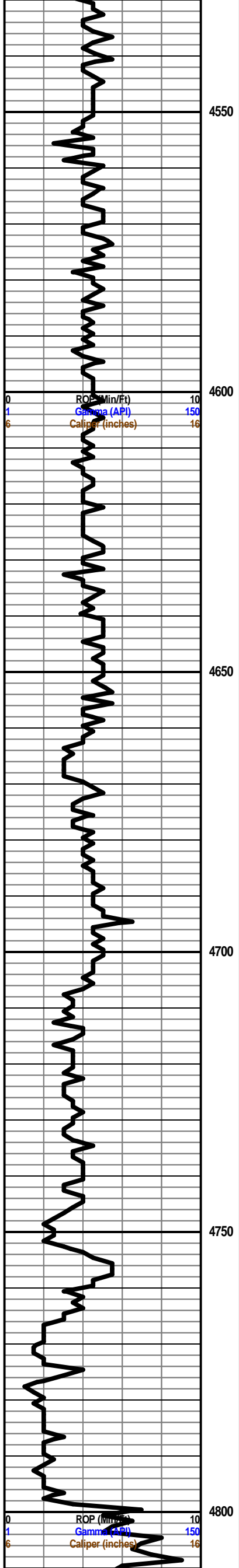




Sh., abund varic, argil

Sh., gry/brn, argil to slty





Sh., abund varic, argil

Sh., gry/brn, argil to slty

Sh., a.a, incr gry Cht.

Sh., a.a, Ls., gry, cryptoxln, n/s

Kinderhook 4666 (-3417)

Ls., tn/brn/gry, mott, f xln, n/s

Ls., a.a, Slst., gry, sli sndy Ls.

Viola 4716 (-3567)

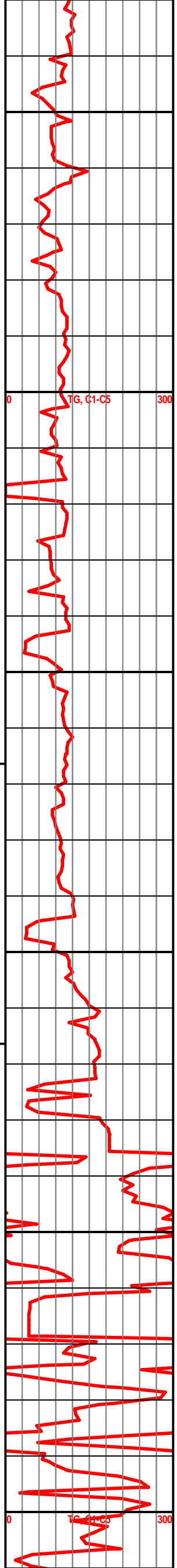
Sh., brn/dk gry, argil, slty, Ls., a.a

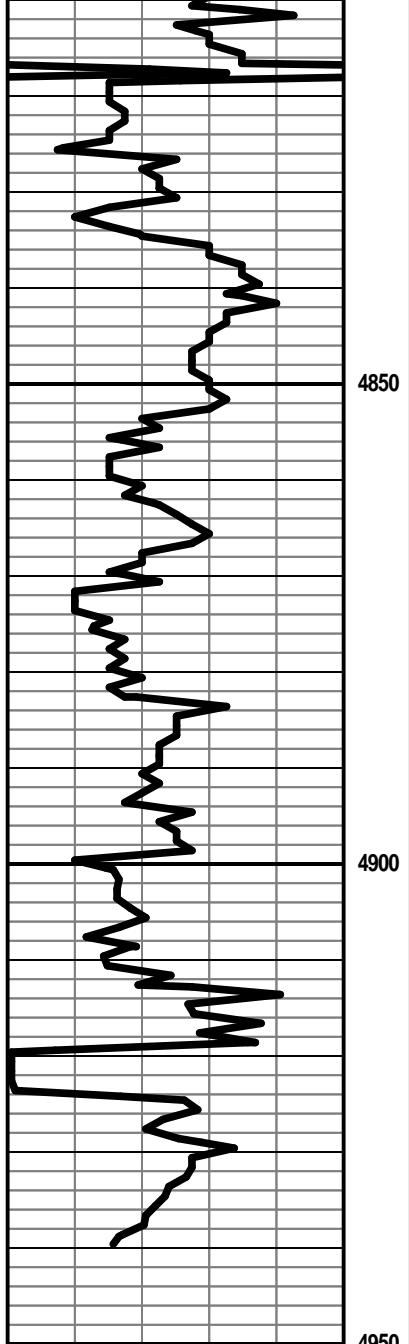
Ls., wht/crm/brn, f xln, pr fssl, sub chky IP, n/s

SS., clr/tan, vf to f gr, dnse cmt, abund O stn, fr odr, NFO

SS., wht/tan/clr, vf to med gr, pr srtd to srtd, subang to sub rrnd, fr stn IP, ft odr, NSFO

SS., a.a, incr wh cht, n/s





SS., clr/crm/wh, f to med gr, ingran por, glauc, pyr, abund
varic Sh, gn & wh fluor, NSO

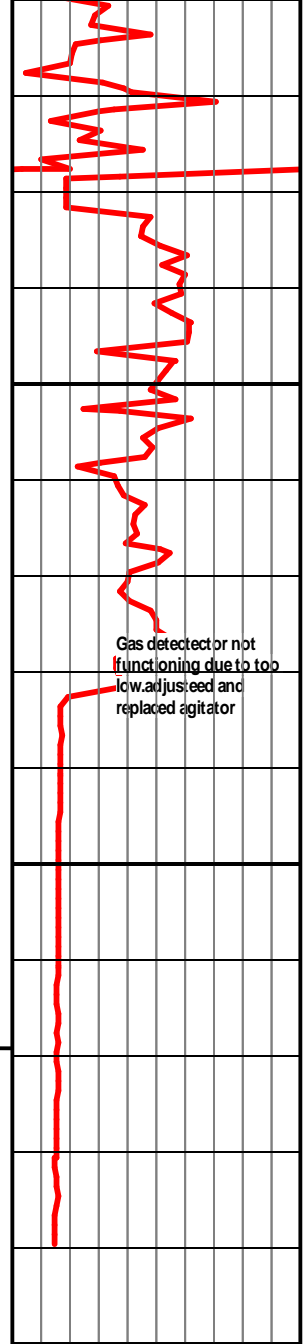
Sh., a.a

Ls., wht, gry, mott/sing, dnse, f xln, n/s

Sh., abund gn and gry, argil

Simpson 4919 (-3771)

SS., Clear to white fn-to med grained sub-rd to rd., v-friable
scattered Black oil stn. NFO strong sulfur odor no Fluor



Gas detector not
functioning due to too
low adjusted and
replaced agitator