



KANSAS CORPORATION COMMISSION 1096420  
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: \_\_\_\_\_



1096420

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Sanders-Schmisseur 6
Doc ID	1096420

All Electric Logs Run

Dual Induction log
CN-CDL
CBL-Sonic
Micro log



001274 / DISCOUNT - 001375

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 130693  
Invoice Date: Mar 29, 2012  
Page: 1

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



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Atlas	Sanders-Schmissure 6	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Medicine Lodge	Mar 29, 2012	4/28/12

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Class A Common	16.25	3,006.25
4.00	MAT	Gel	21.25	85.00
5.00	MAT	Chloride	58.20	291.00
194.00	SER	Handling	2.25	436.50
25.00	SER	Ton Miles	21.34	533.50
1.00	SER	Surface	1,125.00	1,125.00
25.00	SER	Heavy Vehicle Mileage	7.00	175.00
25.00	SER	Light Vehicle Mileage	4.00	100.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	David Felio		
1.00	EQUIP OPER	Ron Gilley		
1.00	OPER ASSIST	Derek Gibbons		
1.00	OPER ASSIST	Brett Goins		
		DESCRIPTION <u>\$ Cement</u>		
		ACCOUNT # <u>160015</u>		
		WELL NAME <u>95/8 Surface</u>		
		AFE # _____		
		DATE _____ APPROVED _____		

Subtotal	5,844.25
Sales Tax	218.88
Total Invoice Amount	6,063.13
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,063.13</b>

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

\$ 1168.85

ONLY IF PAID ON OR BEFORE  
**Apr 23, 2012**

# ALLIED OIL & GAS SERVICES LLC 054063

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Medicine Lodge

DATE <u>3-27-12</u>	SEC <u>28</u>	TWP. <u>31S</u>	RANGE <u>8W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH PM <u>2:00</u>
LEASE <u>Sanders</u>		WELL # <u>6</u>		LOCATION <u>N7 mi of Atticals, 1E, 1N, W/into</u>		COUNTY <u>Harper</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR Val #2  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 272  
 CASING SIZE 8 5/8 DEPTH 255.48  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 20'  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT 16 1/2

OWNER Atlas Operating  
 CEMENT AMOUNT ORDERED 185 sy class A + 3% CC + 2% GEL

EQUIPMENT  
 PUMP TRUCK CEMENTER Ron Gilley  
 # 471-302 HELPER Derek G / David / F  
 BULK TRUCK  
 # 421-250 DRIVER Brett G.  
 BULK TRUCK  
 # DRIVER

COMMON <u>185 sy "A"</u>	@ <u>16.85</u>	<u>3006.85</u>
POZMIX	@	
GEL <u>4%</u>	@ <u>21.85</u>	<u>85-</u>
CHLORIDE <u>5%</u>	@ <u>58.20</u>	<u>291-</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>194</u>	@ <u>2.25</u>	<u>431.50</u>
MILEAGE <u>194 x .11 x 85</u>		<u>533.50</u>
TOTAL		<u>4352.85</u>

REMARKS:  
pipe on Bottom Break Circulation  
pump 3 Bls Ahead Fresh H<sub>2</sub>O  
Mix 185 sy cement A + 3% CC + 2% GEL  
Stop, Release Plug, Start Displacement  
cut Fresh H<sub>2</sub>O Wash up on plug  
Cement Did Circulate to  
Cellar

SERVICE

DEPTH OF JOB <u>272</u>		
PUMP TRUCK CHARGE		<u>1125-</u>
EXTRA FOOTAGE	@	
MILEAGE <u>25</u>	@ <u>7.00</u>	<u>175-</u>
MANIFOLD	@	
<u>light Veh.</u> <u>25</u>	@ <u>4.00</u>	<u>100-</u>
	@	
TOTAL		<u>1400-</u>

CHARGE TO: Atlas Operating  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

8 5/8 PLUG & FLOAT EQUIPMENT

<u>1-Wooden Plug</u>	@	<u>92-</u>
	@	
	@	
	@	
	@	
TOTAL		<u>\$92-</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 45844.25  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Rick Smith  
 SIGNATURE Rick Smith



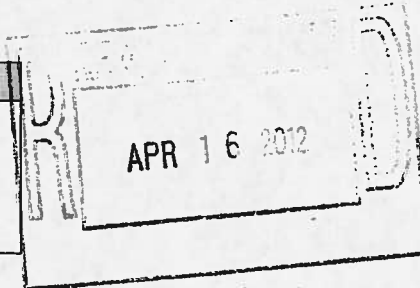
PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 130719  
Invoice Date: Apr 4, 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	Sanders-Schmissuer # 6	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Medicine Lodge	Apr 4, 2012	5/4/12

Quantity	Item	Description	Unit Price	Amount
365.00	MAT	Class A Premium	19.00	6,935.00
1,824.00	MAT	KolSeal	0.89	1,623.36
170.00	MAT	FL-160	17.20	2,924.00
500.00	MAT	ASF	1.27	635.00
9.00	MAT	KCL	31.25	281.25
450.00	SER	Handling	2.25	1,012.50
25.00	SER	Ton Miles	49.50	1,237.50
1.00	SER	Production	2,405.00	2,405.00
25.00	SER	Heavy Vehicle Mileage	7.00	175.00
1.00	SER	Manifold Head Rental	200.00	200.00
25.00	SER	Light Vehicle Mileage	4.00	100.00
16.00	EQP	4 1/2 Centralizers	48.00	768.00
1.00	EQP	4 1/2 Top Rubber Plug	71.00	71.00
1.00	EQP	4 1/2 AFU Float Shoe	249.00	249.00
1.00	EQP	4 1/2 Guide Shoe	192.00	192.00
1.00	EQUIP OPER	Jason Thimes		
1.00	OPER ASSIST	Derek Gibbons		
1.00	OPER ASSIST	Brett Goins		

*Convert*  
 DESCRIPTION \_\_\_\_\_  
 ACCOUNT # 160015  
 WELL NAME \_\_\_\_\_  
 AFE # 4 1/2 Prod.  
 DATE \_\_\_\_\_ APPROVED \_\_\_\_\_

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

**\$ 3761.72**

ONLY IF PAID ON OR BEFORE  
**Apr 29, 2012**

Subtotal	18,808.61
Sales Tax	861.75
Total Invoice Amount	19,670.36
Payment/Credit Applied	
<b>TOTAL</b>	<b>19,670.36</b>

# ALLIED OIL & GAS SERVICES, LLC 054087

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Medicine Lodge KS

DATE <u>04/04/2012</u>	SEC <u>28</u>	TWP <u>31s</u>	RANGE <u>08W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 AM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Sanders - Schriener</u>	WELL # <u>6</u>	LOCATION <u>Atlatia KS, 1 East, 6 1/2 N 7 North, 1 East,</u>			COUNTY <u>Harper</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 South, West into</u>					

CONTRACTOR <u>Val #2</u>	OWNER <u>Atlas Operating</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 1/2</u>	T.D. <u>5020</u>
CASING SIZE <u>4 1/2</u>	DEPTH <u>4960</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>44.06</u>
CEMENT LEFT IN CSG. <u>44</u>	
PERFS.	
DISPLACEMENT <u>79</u>	<u>2% KCl H<sub>2</sub>O</u>

**EQUIPMENT**

PUMP TRUCK # <u>47/302</u>	CEMENTER <u>Jason Thibault</u>
BULK TRUCK # <u>38/250</u>	HELPER <u>Derek Gibbons</u>
BULK TRUCK #	DRIVER <u>Brett Gains</u>
BULK TRUCK #	DRIVER

**CEMENT**

AMOUNT ORDERED 500 gals ASF, 365 cc Class A  
ASC + 5# Kalseal + .5% FI-160

COMMON <u>Class A 365</u>	@ <u>11.25</u>	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC <u>Class A 365</u>	@ <u>1.90</u>	<u>6,935.00</u>
<u>Kalseal</u>	<u>1,824 #</u>	@ <u>.81</u> <u>1,477.36</u>
<u>FI-160</u>	<u>170 #</u>	@ <u>17.20</u> <u>2,924.00</u>
<u>ASF</u>	<u>500 gal</u>	@ <u>1.27</u> <u>635.00</u>
<u>KCl</u>	<u>9 gal</u>	@ <u>21.25</u> <u>211.25</u>
	@	
	@	
	@	
	@	
HANDLING <u>250</u>	@ <u>2.25</u>	<u>1,012.50</u>
MILEAGE <u>480x25 x.11</u>		<u>1,237.50</u>
TOTAL		<u>14,648.61</u>

**REMARKS:**  
Brk circ, pump ball threw, pump 3 bbls H<sub>2</sub>O,  
pump 500 gal ASF, 3 bbls H<sub>2</sub>O, Plug RH/AM mix + pump  
315 cc, wash pump + lines, start disp, Lick @ 49,  
plug plug @ 79, plug held

CHARGE TO: Atlas Operating  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB <u>4960</u>	
PUMP TRUCK CHARGE	<u>3,405.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>25</u>	@ <u>7.00</u> <u>175</u>
MANIFOLD <u>hard</u>	@ <u>2.00</u> <u>2.00</u>
<u>Light rd</u>	@ <u>4.00</u> <u>100</u>
	@
TOTAL <u>2880</u>	

**PLUG & FLOAT EQUIPMENT**

<u>Centralizers</u>	<u>16</u>	@ <u>48</u>	<u>768</u>
<u>Tip</u>	<u>1</u>	@ <u>71</u>	<u>71</u>
<u>AFU</u>		@ <u>249</u>	<u>249</u>
<u>Cable Shoe</u>		@ <u>192</u>	<u>192</u>
		@	
TOTAL			<u>1280</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.

PRINTED NAME Bob Younce  
SIGNATURE Bob Younce

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 18,808.61 Field notes  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# Saman Sharifaie

## Petroleum Geologist

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

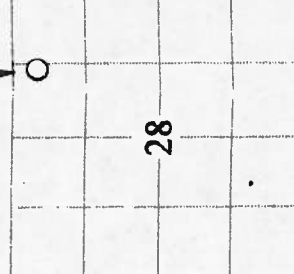
COMPANY Atlas Operating, LLC  
 LEASE Sanders-Schmissseur #6  
 FIELD Wildcat  
 LOCATION 340' FNL & 1050' FEL  
 SEC 28 TWP 31S RGE 8W  
 COUNTY Harper STATE Kansas  
 CONTRACTOR Val Energy  
 SPUD 3/29/12 COMP 4/17/12  
 RTD 5020' LTD 5020'  
 MUD UP 1400 TYPE MUD Chemical  
 SAMPLES SAVED FROM 3700' TO RTD  
 DRILLING TIME KEPT FROM 3700' TO RTD  
 SAMPLES EXAMINED FROM 3700' TO RTD  
 GEOLOGICAL SUPERVISION FROM 3900'  
 REFERENCE WELL Sanders -Schmissseur #2

**ELEVATIONS**  
 KB 1567'  
 DF \_\_\_\_\_  
 GL 1557'  
 Measurements Are All From Kelly Bushing

**CASING**  
 CONDUCTOR \_\_\_\_\_  
 SURFACE 8-5/8"  
 PRODUCTION 4.5"

**ELECTRICAL SURVEYS**  
 CND, AIL, MIC  
 Sonic, IMAGE  
 WEATHERFORD

Formation	Sample Tops	E-log Tops	Struct Pos.
Stalnaker	3715 (-2138)		
Lansing	3742 (-2165)	3732 (-2155)	
KC	3884 (-2307)		
Stark Sh.	4041 (-2464)	4065 (-2488)	
Cherokee Sh	4307 (-2730)	4277 (-2700)	
Viola	4771 (-3194)	4719 (-3142)	
Arbuckle	4974 (-3397)		

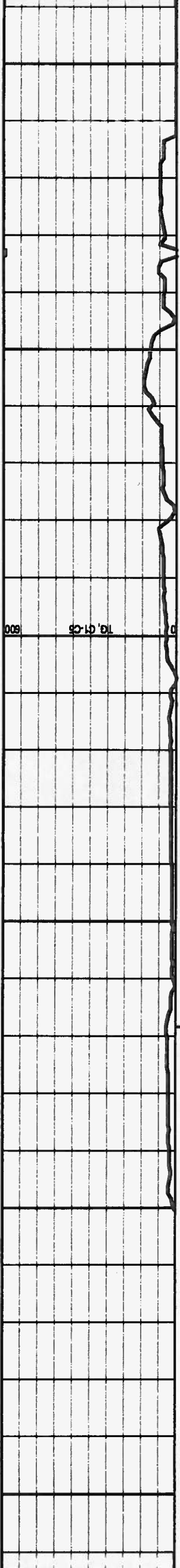


**REMARKS** The Sanders-Schmissseur #6 was drilled to a depth of 5020' and logged. The decision was made to further evaluate this well, and 4.5" casing was run on 4/4/12.

Respectfully Submitted,  
 API #15-077-21785  
 Saman Sharifaie

<p><b>Engineering Data</b></p> <p>Tg (units) _____</p> <p>G1 (units) _____</p> <p>G2 (units) _____</p> <p>G3 (units) _____</p> <p>G4 (units) _____</p> <p>G5 (units) _____</p>	<p><b>Geological Descriptions</b></p>	<p><b>Curve Track 1</b></p> <p>ROP (Min/Ft) _____</p> <p>Gamma (API) _____</p> <p>Caliper (inches) _____</p>
600		3600





Sh., AA, Argill, NS

Sh., AA, SS, Cm/Wht, Col, Pyr, NS

Log Top

Lansing 3732 (-2166)

SS, Cm/Gry, FRIA, Crypto XLN, SPKD, NS

SS, Cl/Wht/Gry, Vfine Gm, Sub-Round, Moderately SRTD, FR to GD Intgran XLN, Glauq, Pyr, NS

SS, AA, INCR Ls

Ls, Cm/Tan, Shly, PR vs PORO, Sil Chy, DNSE, NS

Ls, Cm/Tan/BRWN, Crse XLN, Col, Glauq, Pyr, FRIA, NS

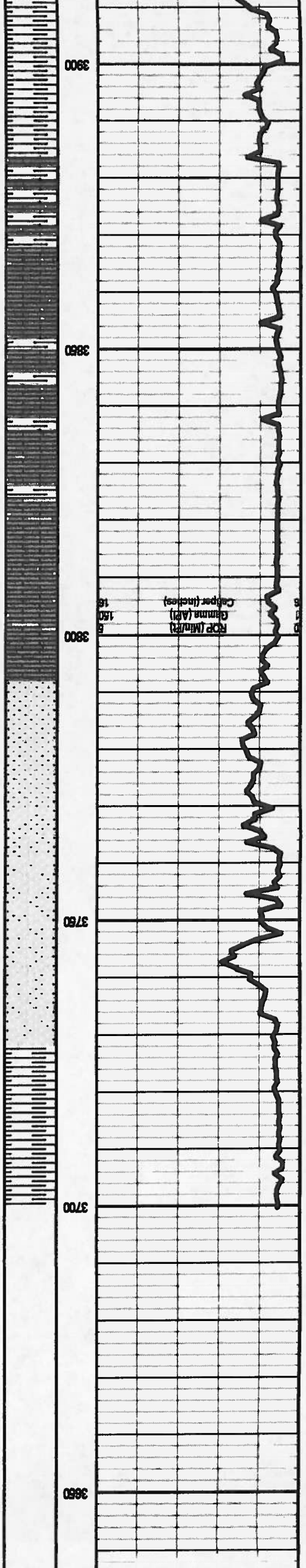
Ls, Tan/BRWN, Col, Fssl, GD vs PORO, Chky, NS

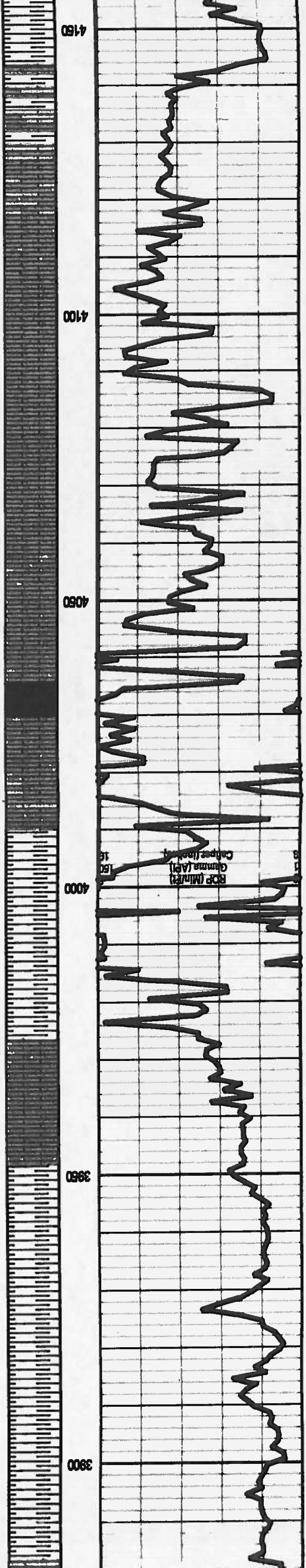
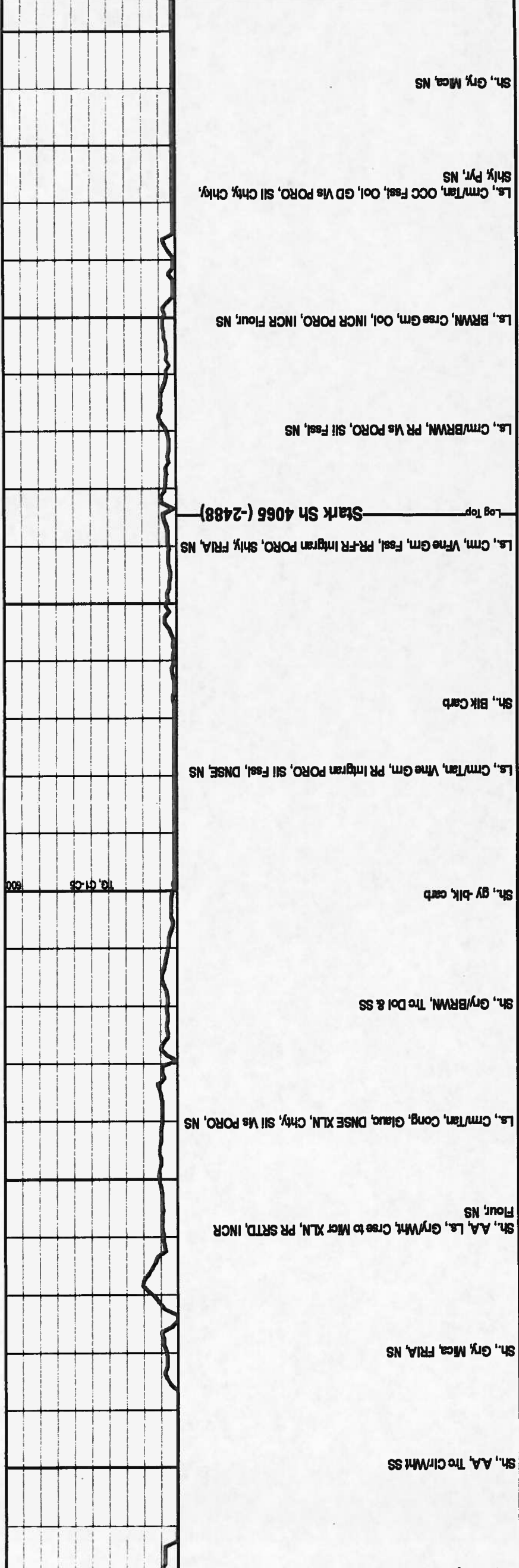
Sh., Gry/BRWN, Mica FRIA, NS

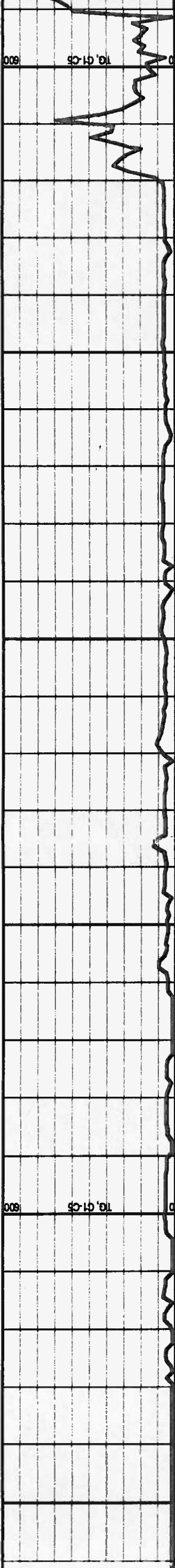
Ls, Cm/Gry, Fine to Crse XLN, PR SRTD, NS

Sh., Dk Gry to Bk Carb, FRIA, NS

Sh., AA, Trc Cl/Wht SS







Sh., Gry, Mica, NS

Sh., AA

Sh., Lt Gry/Gry/Green, Mica, Pyr, Glau, NS

Ls., Cm/BRM, Vfine gm, DNSE, Cong, PR SRTD, Col, NS

Sh., Abund Vert Color, Argil, NS

Ls., Cm, Sing to Fine XLN, Sub Chky, Glau, NS

Ls., Cm/Tan/Gry/Green, Sing to Micr XLN, FRIA, PR SRTD, Brec, Shly, NS

Sh., Bk Carb

Log Top — Cherokee Sh 4277 (-2700)

Ls., Wh/Crm/Tan/Gry, Crypto XLN, DNSE to Sub Chky, Glau, PR SRTD, NS

Ls., AA, INCR Brec, Col

Sh., Gry/BRM/Bk Carb, NS

Sh., Bk Carb, Gry/Dk Gray w Bk STNS

Ls., Cm/Green w YLW/Purple STNS, Cong, PR SRTD, V Fsal, Mica, FRIA, Abund Vert Color Sh, NS

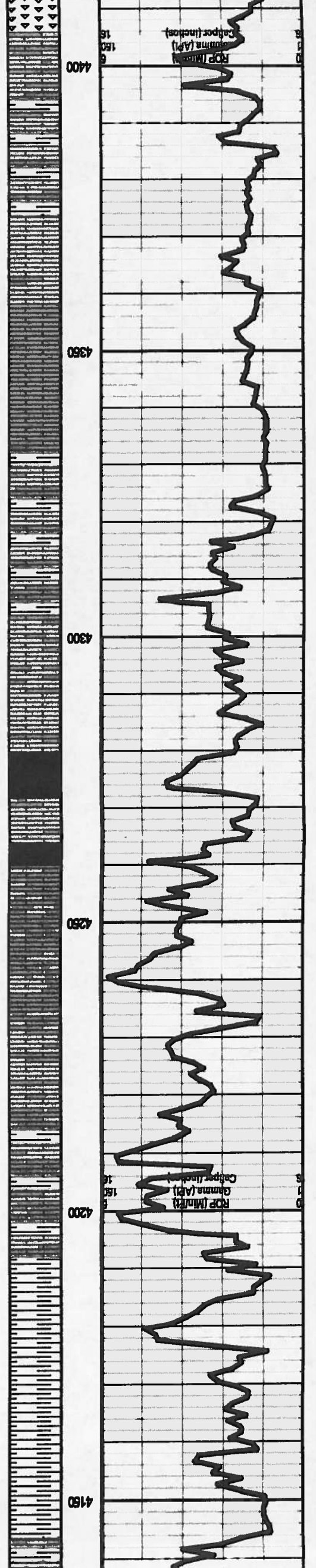
Ls., AA, Glau, INCR FLUOR, NS

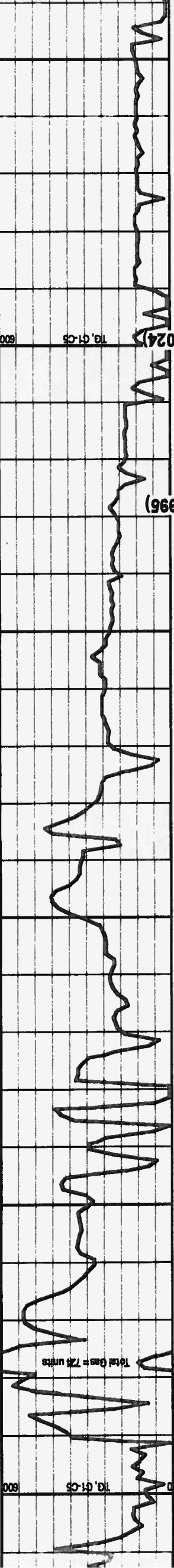
Log Top — Mississippi 4381 (-2804)

Sh., Abund Vert Color, Argil, INCR Chk, NS

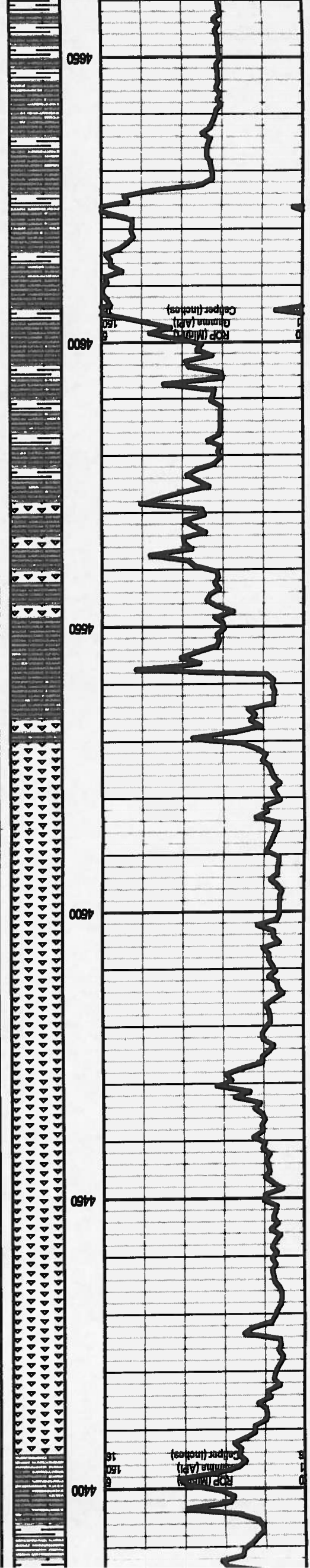
Ls., Wh/Crm, SPKD, Crypto to Fine XLN, SFT, Abund Vert Color Chk, Cong, GD FLUOR, Sil Odor, SFO

Chk. Cl/Mh/VTm, BRWN OIL SPKS, PORO, Tho. Gas





Ls., Wh/Crm, SPKD, Crypto to Fine XLN, SFT, Abund Vari  
 Color Cht, Cong, GD FLUOR, Sll Odor, SFO  
 Cht, Cln/Wh/Crm, BRWN OIL SPKS, PORO, Trip, Gas  
 Bubbles, GD FLUOR, Strong Odor, GD SFO  
 Cht, AA, Wggy, DNSE, V Bright FLUOR  
 Cht, Wh/Cr, XLN, Trip, GD PORO, OIL STND, WEA, GD Sweet  
 Odor, OIL Cut Water; Bleeds when crushed, Abund Vari Color  
 Sh.  
 Cht, AA, V HVLY OIL CUT, Abund Gas Bubbles  
 Cht, Cln/Wh/Crm, Sing/Mott, Trans to Opaque, Sll Trip, DK  
 OIL STND Edges, Trc of Blk FO Flooding in tray  
 Cht, AA, DECR FO  
 Cht, Wh, Fresh, Sing, Trc of Crm, Chky, Scott dead OIL.A.A  
 Ls. & Cht, AA, INCR Vari Color Sh.  
 Cht & Ls., AA, Sll FLUOR, NS  
 Kinderohook Sh 4572 (-2996)  
 Log Top  
 Sh., Gny/BRWN/Green, Argil, Sll sily  
 Ls., Sll Chky, Sll Trip, Scott, Dead OIL STNS, Sh., BIK Carb  
 Kinderohook LM 4601 (-3024)  
 Log Top  
 Ls., AA, Abund Green Sh.  
 Ls., Crm/Gry, Sing, Trc of Wh Trip Cht, Trc of dead OIL, INCR  
 In Vari Color Sh.



Ls., Wh/Crm, SPKD, Crypto to Fine XLN, SFT, Abund Vari  
 Color Cht, Cong, GD FLUOR, Sll Odor, SFO  
 Cht, Cln/Wh/Crm, BRWN OIL SPKS, PORO, Trip, Gas  
 Bubbles, GD FLUOR, Strong Odor, GD SFO  
 Cht, AA, Wggy, DNSE, V Bright FLUOR  
 Cht, Wh/Cr, XLN, Trip, GD PORO, OIL STND, WEA, GD Sweet  
 Odor, OIL Cut Water; Bleeds when crushed, Abund Vari Color  
 Sh.  
 Cht, AA, V HVLY OIL CUT, Abund Gas Bubbles  
 Cht, Cln/Wh/Crm, Sing/Mott, Trans to Opaque, Sll Trip, DK  
 OIL STND Edges, Trc of Blk FO Flooding in tray  
 Cht, AA, DECR FO  
 Cht, Wh, Fresh, Sing, Trc of Crm, Chky, Scott dead OIL.A.A  
 Ls. & Cht, AA, INCR Vari Color Sh.  
 Cht & Ls., AA, Sll FLUOR, NS  
 Kinderohook Sh 4572 (-2996)  
 Log Top  
 Sh., Gny/BRWN/Green, Argil, Sll sily  
 Ls., Sll Chky, Sll Trip, Scott, Dead OIL STNS, Sh., BIK Carb  
 Kinderohook LM 4601 (-3024)  
 Log Top  
 Ls., AA, Abund Green Sh.  
 Ls., Crm/Gry, Sing, Trc of Wh Trip Cht, Trc of dead OIL, INCR  
 In Vari Color Sh.

