



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: _____



1095733

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	White Exploration, Inc.
Well Name	Ash 'B' 2
Doc ID	1095733

All Electric Logs Run

Compensated Density Neutron
Dual Induction
Micro Log
Sonic Log

Attached to and Made a Part of
ACO-1 Form for
WHITE EXPLORATION, INC.
ASH "B" #2
840' FSL and 1980' FWL
Section 27-32S-12W
Barbre County, Kansas
API# 15-007-23947-00-00

Surface Casing Cement

Cemented with 195 sacks 60/40 Poz Mix with 2% gel, 3% CC and ¼@ floseal/sack.

Production Casing Cement

Cemented with 225 sacks of AA2 blend cement with 10% salt, 2% defoamer, 3% CFR, 1% gas block, 5% FLA-322 and 5# gilsonite/sack.

Acid and Fracture Treatments

Acidized with 3000 gallons of 10% NE/FE Acid

Fracked with 10,976 Bbls of slick water and 214,800# of Sand (139,500# of 30/50 sand, 60,600# of 16/30 Sand and 15,000# of 16/30 Resin Coated Sand)

Customer <i>White Exploration</i>	Lease No.	Date <i>9-19-12</i>	
Lease <i>Ash</i>	Well # <i>B-2</i>		
Field Order # <i>10688</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>	Depth <i>290</i>
Type Job <i>CNW - 8 5/8 Surface</i>		County <i>Baker</i>	State <i>KS</i>
		Formation	Legal Description <i>27-30-12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>				<i>1955K 60/40 P02</i>				
Depth <i>290</i>	Depth	From	To <i>27-26-1</i>	Pre Pad	Max		5 Min.	
Volume <i>18.4</i>	Volume	From	To <i>32-2-1</i>	Pad	Min		10 Min.	
Max Press <i>1000</i>	Max Press	From	To <i>Y11</i>	Frac <i>2-11/16 K</i>	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>295</i>	Packer Depth	From	To	Flush <i>17.5</i>	Gas Volume		Total Load	

Customer Representative	Station Manager <i>Dave Scott</i>	Treater <i>Steve Orlando</i>
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Service Units	<i>27235</i>	<i>27463</i>	<i>70954</i>	<i>19918</i>					
Driver Names	<i>Orlando</i>	<i>McBraw</i>	<i>Pearson</i>						

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
<i>2:30 AM</i>					<i>On location Safety Meeting</i>
					<i>Run 7 5/8 8 5/8 Csg</i>
					<i>Casing on bottom</i>
					<i>Break circulation with Ris</i>
<i>5:50</i>	<i>0</i>		<i>3</i>	<i>5</i>	<i>H2O Ahead</i>
<i>5:51</i>	<i>250</i>		<i>42</i>	<i>5</i>	<i>Mix 1955K 60/40 P02 @ 11.8 gal</i>
					<i>Release plug</i>
<i>6:11</i>	<i>0</i>		<i>0</i>	<i>5</i>	<i>Start Displacement</i>
<i>6:13</i>	<i>250</i>		<i>11</i>	<i>5</i>	<i>Connect To Surface</i>
<i>6:15</i>	<i>300</i>		<i>17.5</i>	<i>5</i>	<i>Plug Down</i>
					<i>Circulation This Job</i>
					<i>Circulation 6 bbl Top</i>
					<i>Job Complete</i>
					<i>Thanks, Steve</i>

Customer <i>White Exploration</i>	Lease No.	Date <i>9-28-12</i>
Lease <i>Ash B</i>	Well # <i>2</i>	
Field Order # <i>6694</i>	Station <i>Pratt</i>	Casing <i>5 1/2</i>
Type Job <i>CNW-5 1/2 L.S.</i>	Depth <i>4900</i>	County <i>Baker</i>
	Formation	State <i>KS</i>
		Legal Description <i>27-30-12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft <i>2255sk</i>		Acid <i>AA2 1.434'</i>	RATE	PRESS	ISIP	
Depth <i>4900</i>	Depth	From	To <i>505</i>	Pre Pad <i>577A 2 RH/MH</i>	Max		5 Min.	
Volume <i>116.63</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush <i>116.1</i>	Gas Volume		Total Load	

Customer Representative <i>Terry Baird</i>	Station Manager <i>Dave Scott</i>	Treater <i>Steve Orlando</i>
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Service Units <i>27283 27463 19826 19860</i>								
Driver Names <i>D. Nevada McBraw Pierce</i>								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00pm</i>	<i>9-27-12</i>				<i>On location - Safety meeting</i>
					<i>Run 1175ts 5 1/2 casing</i>
					<i>Centralizer 2-3-6-8-9-10-11-12-13-15-18-20-22</i>
					<i>Basket 1st collar Circulate 1/2 way in</i>
					<i>Casing on bottom Break Circ w/ K's</i>
					<i>Rotate casing</i>
<i>7:50</i>	<i>300</i>		<i>5</i>	<i>5</i>	<i>H2O Ahead</i>
<i>7:51</i>	<i>300</i>		<i>12</i>	<i>5</i>	<i>Super Flush II</i>
<i>7:54</i>	<i>300</i>		<i>5</i>	<i>5</i>	<i>H2O spacer</i>
<i>7:55</i>	<i>250</i>		<i>57</i>	<i>5</i>	<i>Mix 2255sk AA2 @ 15#/Gal</i>
					<i>Shut Down - Release plug clear pump line</i>
<i>8:12</i>	<i>0</i>		<i>0</i>	<i>6</i>	<i>Start H2O Displacement</i>
<i>8:25</i>	<i>350</i>		<i>80</i>	<i>5</i>	<i>hit pressure</i>
<i>8:28</i>	<i>600</i>		<i>105</i>	<i>4</i>	<i>Slow Rate - Stop Rotating</i>
<i>8:30am</i>	<i>1500</i>		<i>116</i>	<i>4</i>	<i>Plug Down - H2O</i>
			<i>6/4</i>		<i>Mix 505sk AA2 RH/MH</i>
					<i>11/1</i>
					<i>Turn Com Mole</i>
					<i>Thanks Steve</i>

White Exploration, Inc.

Ash "B" #2

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Ash B #2
Location: SW 1/4 of Section 27-T32S-R12W
License Number: API 15-007-23947-00
Spud Date: 9/18/2012
Surface Coordinates: 840' FSL & 1,980' FWL
Region: Barber Co., KS
Drilling Completed: 9/27/2012
Bottom Hole Coordinates: 840' FSL & 1,980' FWL
Ground Elevation (ft): 1,560' K.B. Elevation (ft): 1,570'
Logged Interval (ft): 3,500' To: 4,895' Total Depth (ft): 4,895'
Formation: Simpson
Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: White Exploration, Inc
Address: 2400 N. Woodlawn, Suite 115
Wichita, KS 67220

GEOLOGIST

Name: Thomas M. Williams
Company: Petroleum Geologist
Address: Wichita, KS

CORE

Contractor:
Core #:
Formation:
Core Interval: From: Cut:
To: Recovered:
Bit type:
Size:
Coring Time:

Formation Tops

	Sample Top	E-Log Top
Oread Lime	3631 (-2061)	3632 (-2062)
Heebner Shale	3669 (-2099)	3666 (-2096)
Snyderville Sand	3681 (-2111)	3681 (-2111)
Douglas Sand	3791 (-2272)	3795 (-2225)
Brown Lime	3856 (-2286)	3860 (-2290)
Stark Shale	4228 (-2658)	4232 (-2662)
Hushpuckney Shale	4260 (-2690)	4264 (-2694)
Mississippian	4409 (-2839)	4414 (-2844)
Kinderhook Shale	4587 (-3017)	4591 (-3021)
Woodford Shale	4660 (-3090)	4660 (-3090)
Viola Lime	4693 (-3123)	4694 (-3124)
Simpson Shale	4788 (-3218)	4792 (-3222)
Simpson Sand	4797 (-3227)	4800 (-3230)

DSTs

DST #1 4775'-4835' Mis-run?

DST #2 4775'-4835' Simpson Sand

IHP - 2331#

IFP - 35-38# 30"

ISIP - 1647# 60"

FFP - 30-206# 60"

FSIP - 1603# 90"

FHP - 2298#

IF - Weak surface blow

FF - Fair, BOB in 46 minutes

Rec: 319' Mud

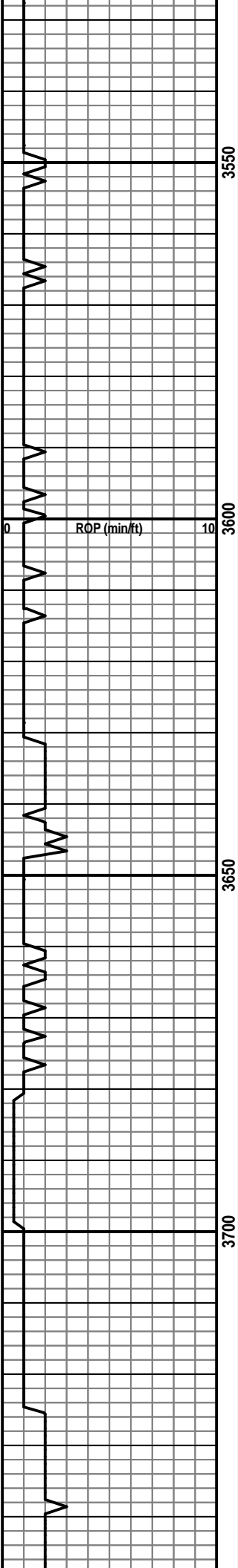
Comments

Due to the shows of oil and gas observed in the Mississippian Chert and Simpson Sand, positive structural position and electric log analysis, it was decided to further test the Ash 'B' #2 through production casing.

ROCK TYPES

 Anhy	 Carb.sh	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

Curve Track 1		Depth	Shows	Lithology	Geological Descriptions	TG, C1-C5				
ROP (min/ft)						TG (Units)	C1 (units)	C2 (units)	C3 (units)	C4 (units)
0	ROP (min/ft)	10	35			1	TG, C1-C5			300
					Sh, lt. gry, lt. green, silty, fissle, w/ abdt. red shale in sample.					



3550

3600

3650

3700

Sh, lt. gry, lt. green, silty, fissle, w/ abdt. red shale in sample.

Sh, lt. gry, lt. green, silty, fissle, w/ abdt. red shale in sample.

Sh, lt. gry, lt. green, silty, fissle, w/ abdt. red shale in sample.

Sh, lt. gry, lt. green, silty, fissle, w/ abdt. red shale in sample.

Sh. & siltstone, lt. gry, micaceous, fissle, laminated.

Sh. & siltstone, lt. gry, micaceous, fissle, laminated.

Oread Lm 3631 (-2061)

Ls, brown, tan, v. dns, f. xln, no vis. porosity, no shows, no fluor, no odor, no staining, few foss.

Ls, brown, tan, v. dns, f. xln, no vis. porosity, no shows, no fluor, no odor, no staining, few foss.

Sh, lt. to med. gry, micaceous, laminated, fissle.



Sh, blk, carb. bleeding abdt. gas.

Ls, brown, tan, v. dns, f. xln. foss.



Heebner Sh 3669 (-2099)

Sh, blk, carb. bleeding abdt. gas.



Snyderville Sd 3681 (-2111)

SS, lt. gry, fine to med. gr, sub-ang, well sort, micaceous, calc. cement, friable in part, fair dev. int. gr. porosity, sli. shw. gas, no fluor, med. odor, no staining.

Sh, lt. to med. gry, micaceous, laminated, fissle.

Sh, lt. to med. gry, micaceous, laminated, fissle.

Ls, tan, lt. gry, buff, v. dns, p. dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

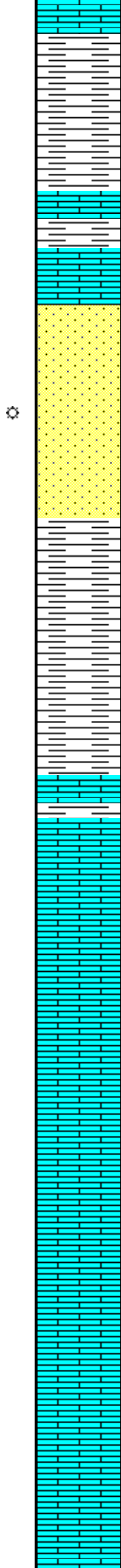
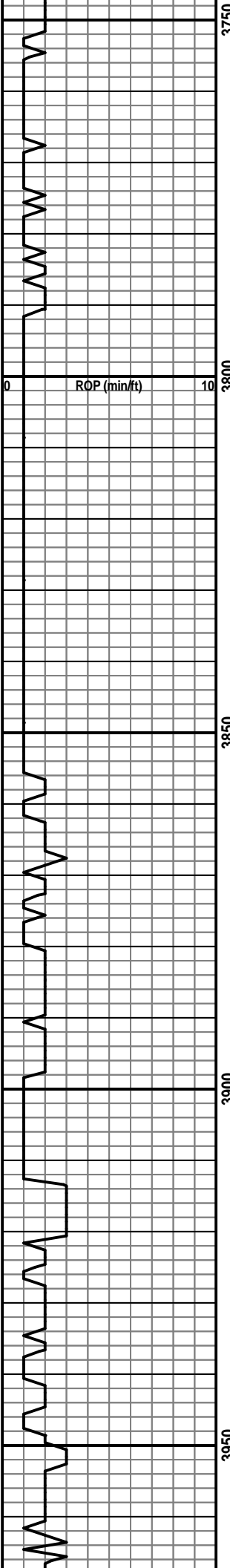
Ls, tan, lt. gry, buff, v. dns, p. dev. to no vis. porosity, no shows, no fluor, no

Mud-Co report @
3585'
Wt. 8.9
Vis. 52
WL 10.8
PH 10.0
Chl. 4,000
LCM 0#

TG, C1-C5

300

Vis. 49
Wt. 9.4



odor, no staining.

Sh, lt. to med. gry, micaceous, laminated, fissle.

Sh, lt. to med. gry, micaceous, laminated, fissle.

Ls, tan, lt. gry, buff, v. dns, p. dev. to no vis. porosity, no shows, no fluor, no odor, no staining.

Douglas Sd 3791 (-2221)

SS, lt. gry, m. gr, sub-ang, fair sort, calcareous cem, friable in part, fair dev. int. gr. porosity, sli. shw. gas, no fluor, sli. odor, no staining.

Sh, lt. to med. gry, soft, silty, fissle, laminated.

Sh, lt. to med. gry, soft, silty, fissle, laminated.

Sh, lt. to med. gry, soft, silty, fissle, laminated.

Brown Lm 3856 (-2286)

Ls, brown, f. xln, v. dns, no show.

Ls, tan, brn, buff, f. xln, v. dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, buff-wh, f. xln, v. dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no staining.

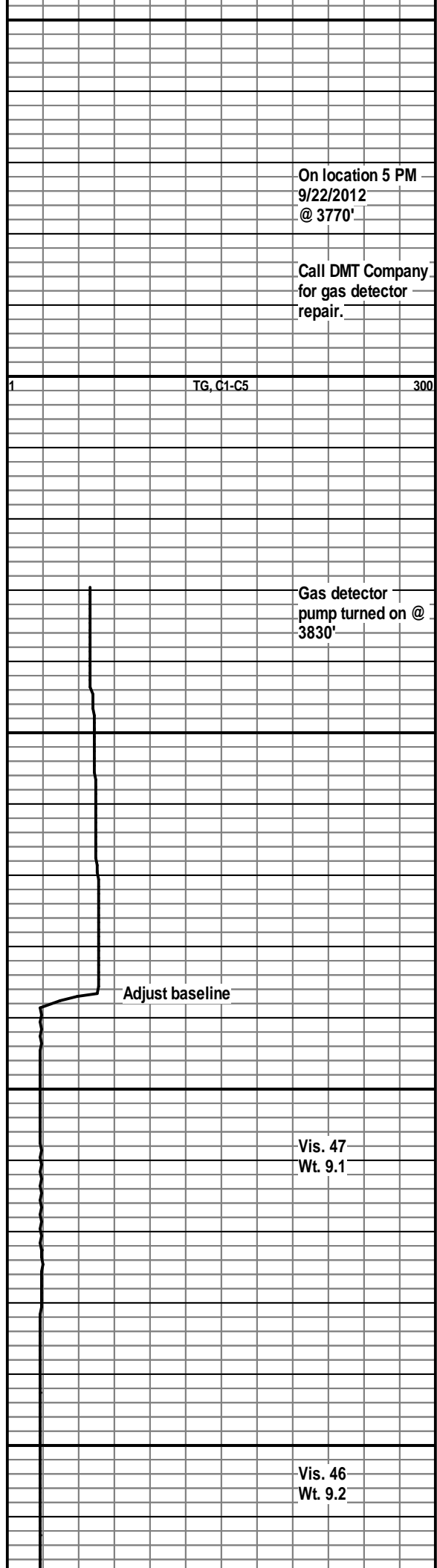
Ls, crm. wh, buff, f-m xln, brittle, fair dev. vug. & int. xln. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, brn, buff, f. xln, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, brn, buff, f. xln, v. dns, poorly dev. int-xln. porosity, no shows, no fluor, no odor, no staining.

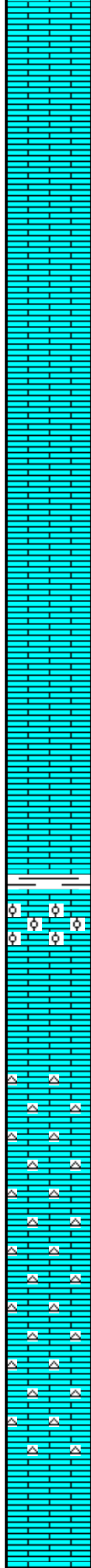
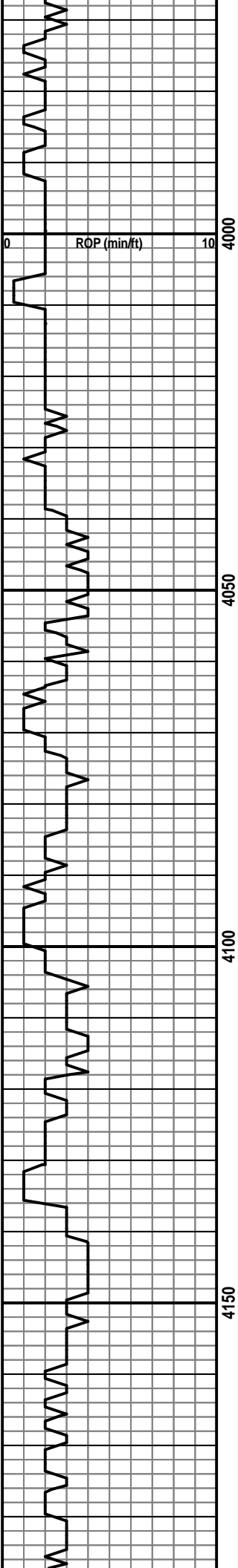
Ls, tan, brn, buff, f. xln, v. dns, poorly dev. int-xln. porosity, no shows, no fluor, no odor, no staining.

Ls, tan, brn, buff, f. xln, v. dns, poorly



On location 5 PM
9/22/2012
@ 3770'

Call DMT Company
for gas detector
repair.



dev. int-xln. porosity, no shows, no fluor, no odor, no staining.

Ls, buff, tan, crn. wh, f-m xln, poor to fair dev. int. xln. & vug. porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, crn. wh, f-m xln, poor dev. int. xln. & vug. porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, m-c xln. w/ sparite, well dev. int. xln. porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, buff, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, buff, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, buff, m. xln, granular, fair dev. int. xln. porosity, no show. no fluor, no odor, no staining.

Ls, tan, buff, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Sh, gry, black, carb, bleeding gas.

Ls, tan, f-m xln, brittle, oolitic, w/ fair dev. oomoldic porosity, no show, no fluor, no odor, no stn.

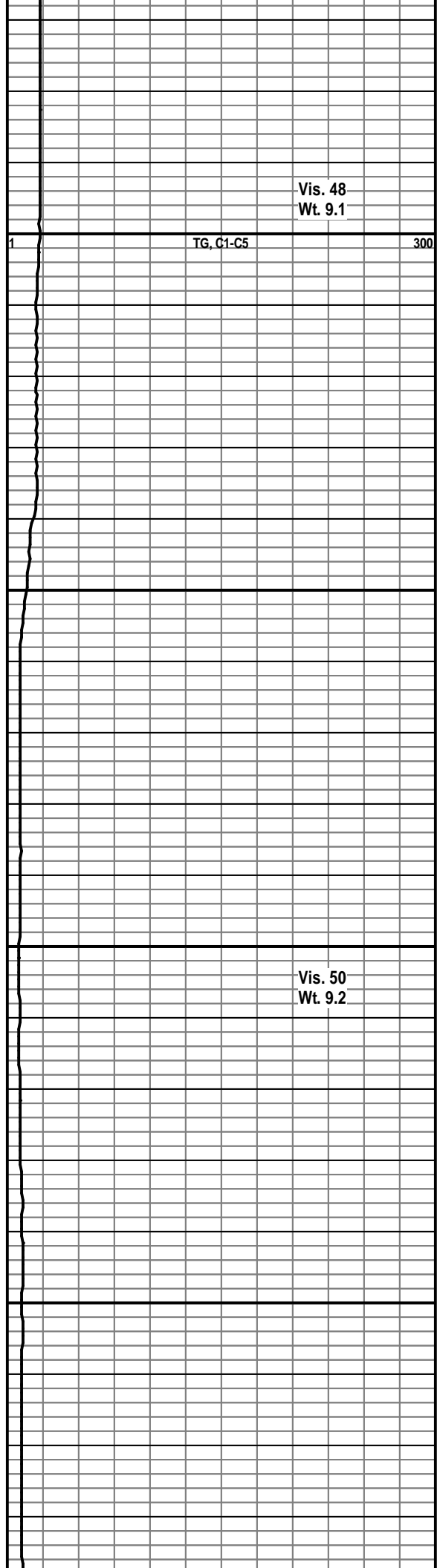
Ls, buff, crm. wh, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no stn.

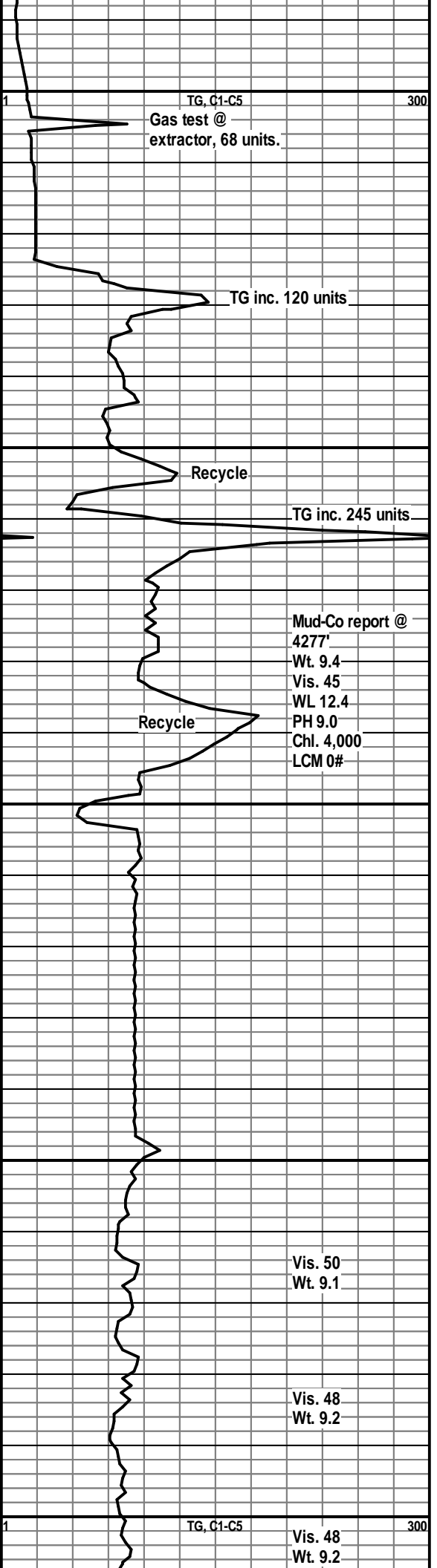
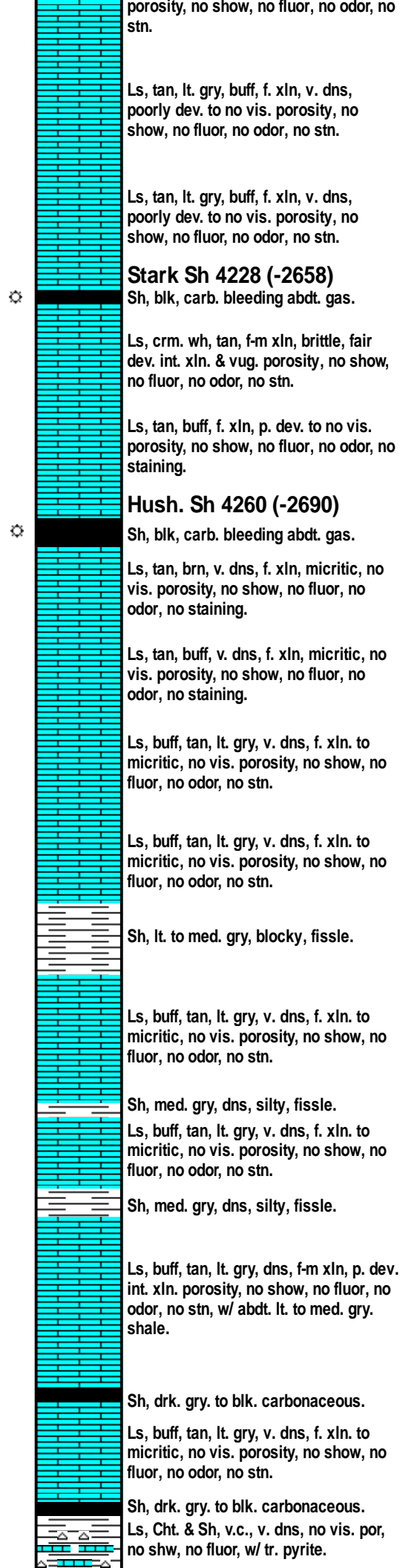
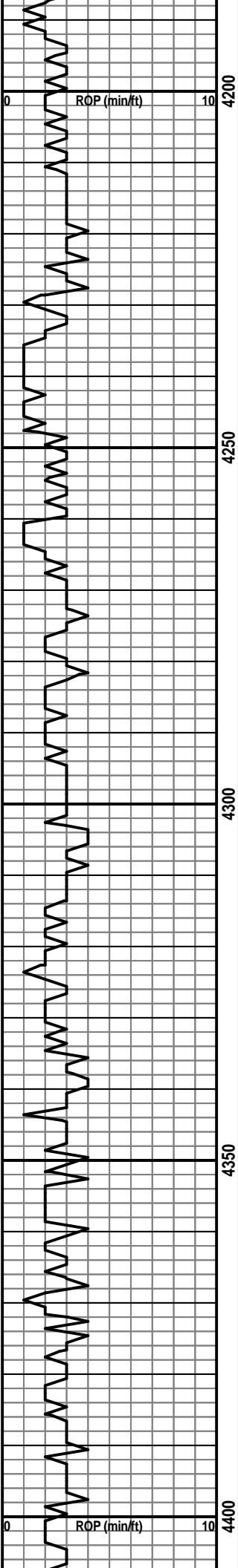
Ls, buff, crm. wh, f-m xln, dns. to sub-chalky, fair dev. int. xln. & vug. porosity, no show, no fluor, no odor, no stn, w/ abdt. white fresh chert.

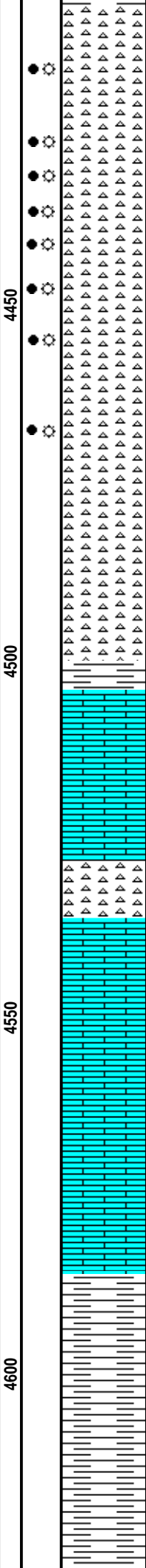
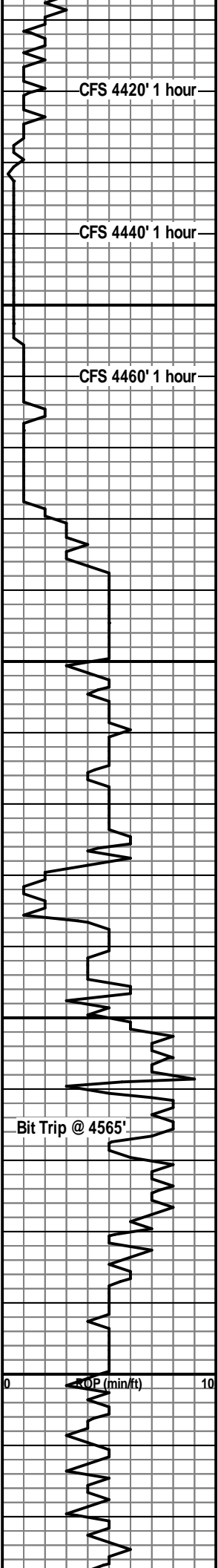
Ls, buff, crm. wh, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no stn, w/ abdt. white fresh chert.

Ls, buff, crm. wh, f. xln, v. dns, poorly dev. to no vis. porosity, no show, no fluor, no odor, no stn, w/ abdt. white fresh chert.

Ls, buff, crm. wh, f-m xln, chalky to sub-chalky, poorly dev. int. xln.







Mississippian 4409 (-2839)
 Cht, wh, weathered, brittle, p-f dev. vug. porosity, fair shw. bleeding oil and gas, tan to brn. uneven stain, sli. odor, dull fluor.

Cht, wh, weathered, brittle, p-f dev. vug. porosity, sharp to granular, good shw. bleeding oil and gas, dull gold fluor, tan to brn. uneven stn, few saturated, good odor, few sli. dolomitic.

Cht, wh, fresh to weathered, sharp to granular, p-f dev. vug. porosity, fair shw. oil and gas, dull gold fluor, tan to brown uneven staining, good odor, sli. dolomitic.

Cht, wh, most fresh unweathered, 40% with porosity and fair shw oil and gas, dull fluor, fair odor, uneven tan to brown stain.

Cht, wh, most fresh unweathered, 40% with porosity and fair shw oil and gas, dull fluor, fair odor, uneven tan to brown stain.

Cht, wh, most fresh unweathered, 30% with porosity and fair show oil and gas, dull fluor, fair odor, uneven tan to brown stain, w/ abdt. gry. shale in sample.

Sh, gry-grn, gry, dns, fissle.

Ls, gry, tan, brn, f. xln to micritic, v. dns, no vis. porosity, no show, no fluor, no odor, no staining, w/ abdt. shale in samples.

Cht, wh, opaque, fresh, sharp, no vis. porosity, no show, no fluor, no odor, no staining.

Ls, buff, tan, brn, f. xln to micritic, v. dns, no vis. porosity, no show, no fluor, no odor, no staining, w/ abdt. shale in samples & crinoid frags.

Ls, buff, tan, brn, f. xln, micritic, v. dns, few foss, no vis. porosity, no show, no fluor, no odor, no stain.

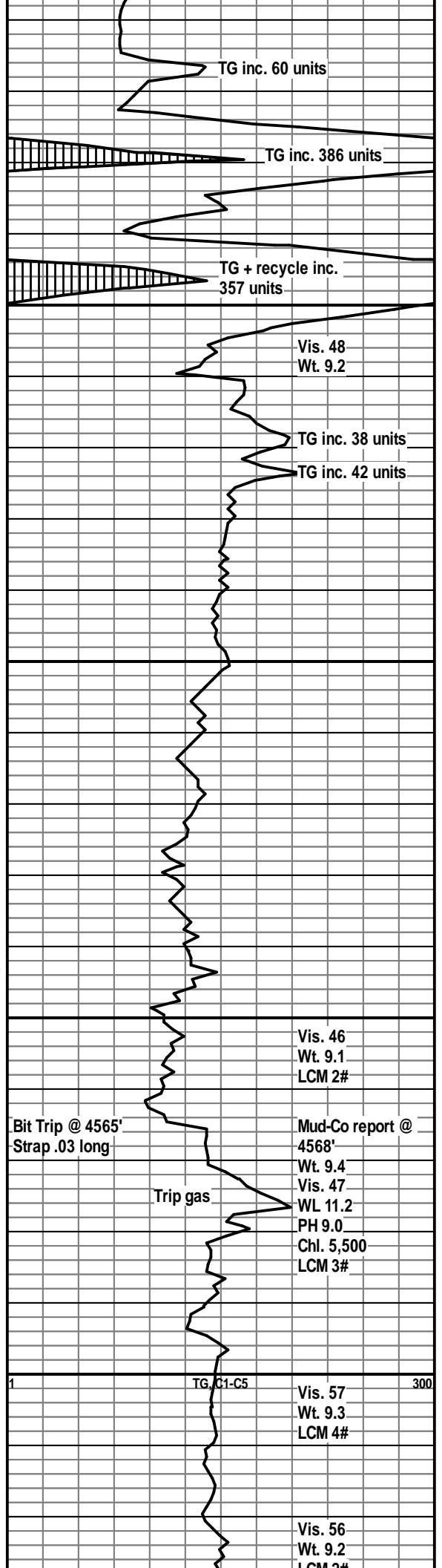
Ls, buff, tan, brn, f. xln, micritic, v. dns, few foss, no vis. porosity, no show, no fluor, no odor, no stain.

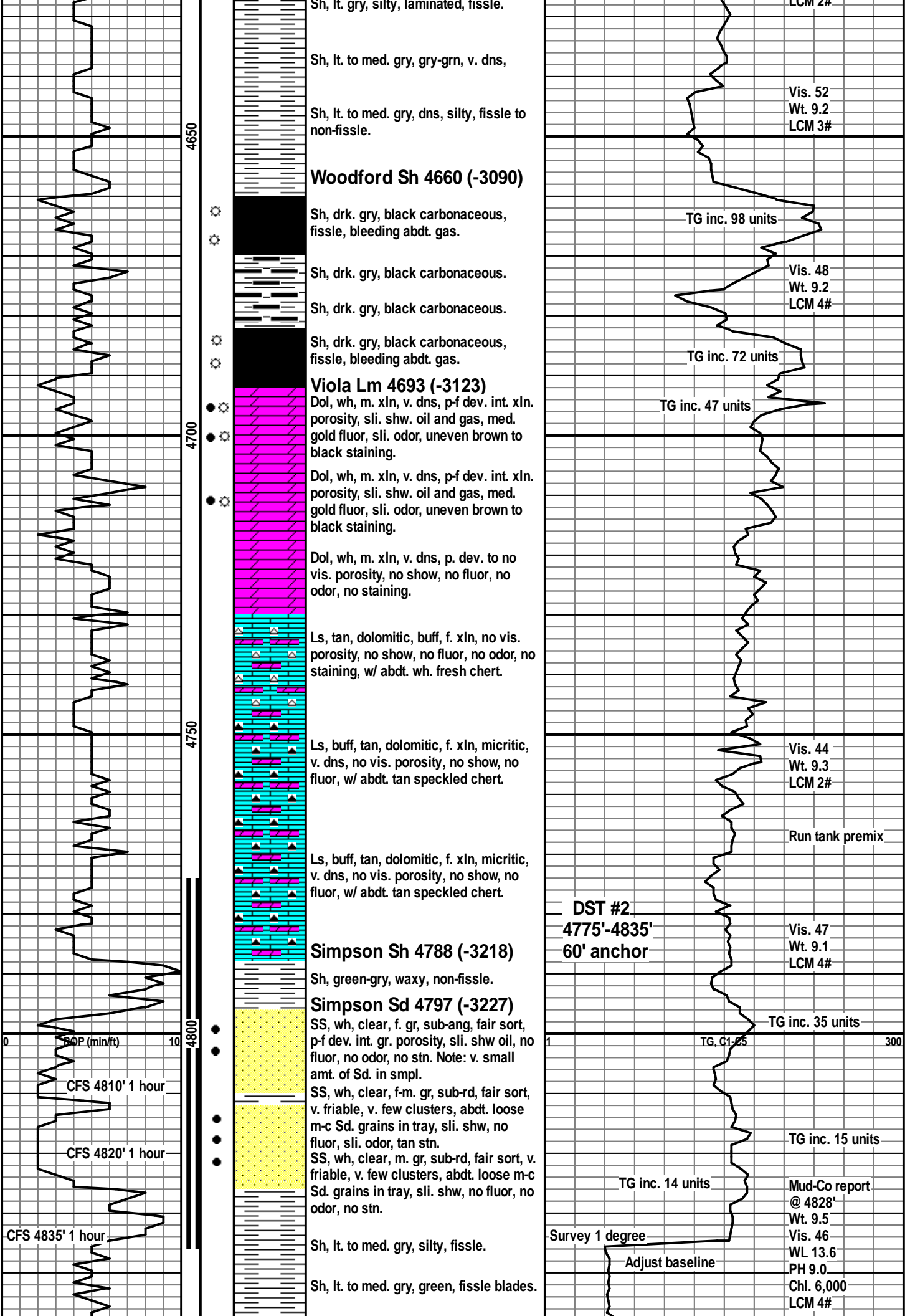
Kinderhook Sh 4587(-3017)

Sh, lt. to med. gry, gry-grn, v. dns, laminated, fissle.

Sh, lt. to med. gry, gry-grn, v. dns,

Sh, lt. to med. gry, gry-grn, v. dns, laminated, fissle, tr. pyrite.





Sh, lt. gry, silty, laminated, fissile.

Sh, lt. to med. gry, gry-grn, v. dns,

Sh, lt. to med. gry, dns, silty, fissile to non-fissile.

Woodford Sh 4660 (-3090)

Sh, drk. gry, black carbonaceous, fissile, bleeding abdt. gas.

Sh, drk. gry, black carbonaceous.

Sh, drk. gry, black carbonaceous.

Sh, drk. gry, black carbonaceous, fissile, bleeding abdt. gas.

Viola Lm 4693 (-3123)

Dol, wh, m. xln, v. dns, p-f dev. int. xln. porosity, sli. shw. oil and gas, med. gold fluor, sli. odor, uneven brown to black staining.

Dol, wh, m. xln, v. dns, p-f dev. int. xln. porosity, sli. shw. oil and gas, med. gold fluor, sli. odor, uneven brown to black staining.

Dol, wh, m. xln, v. dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, dolomitic, buff, f. xln, no vis. porosity, no show, no fluor, no odor, no staining, w/ abdt. wh. fresh chert.

Ls, buff, tan, dolomitic, f. xln, micritic, v. dns, no vis. porosity, no show, no fluor, w/ abdt. tan speckled chert.

Ls, buff, tan, dolomitic, f. xln, micritic, v. dns, no vis. porosity, no show, no fluor, w/ abdt. tan speckled chert.

Simpson Sh 4788 (-3218)

Sh, green-gry, waxy, non-fissile.

Simpson Sd 4797 (-3227)

SS, wh, clear, f. gr, sub-ang, fair sort, p-f dev. int. gr. porosity, sli. shw oil, no fluor, no odor, no stn. Note: v. small amt. of Sd. in smpl.

SS, wh, clear, f-m. gr, sub-rd, fair sort, v. friable, v. few clusters, abdt. loose m-c Sd. grains in tray, sli. shw, no fluor, sli. odor, tan stn.

SS, wh, clear, m. gr, sub-rd, fair sort, v. friable, v. few clusters, abdt. loose m-c Sd. grains in tray, sli. shw, no fluor, no odor, no stn.

Sh, lt. to med. gry, silty, fissile.

Sh, lt. to med. gry, green, fissile blades.

LCM 2#

Vis. 52
Wt. 9.2
LCM 3#

TG inc. 98 units

Vis. 48
Wt. 9.2
LCM 4#

TG inc. 72 units

TG inc. 47 units

Vis. 44
Wt. 9.3
LCM 2#

Run tank premix

DST #2
4775'-4835'
60' anchor

Vis. 47
Wt. 9.1
LCM 4#

TG inc. 35 units

TG, C1-25

TG inc. 15 units

TG inc. 14 units

Mud-Co report
@ 4828'
Wt. 9.5
Vis. 46
WL 13.6
PH 9.0
Chl. 6,000
LCM 4#

Survey 1 degree

Adjust baseline

0 BOP (min/ft) 10

CFS 4810' 1 hour

CFS 4820' 1 hour

CFS 4835' 1 hour

4650

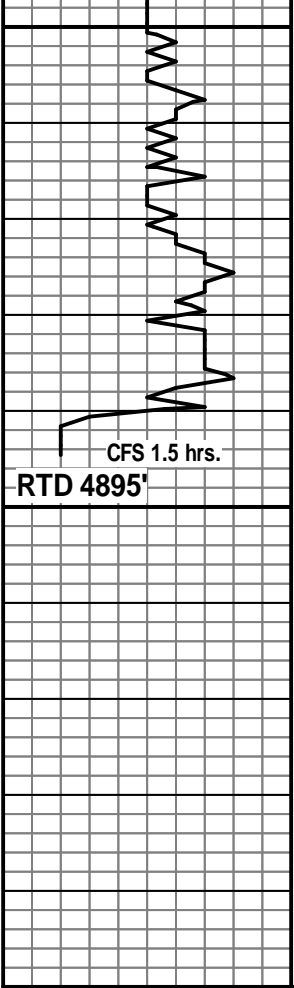
4700

4750

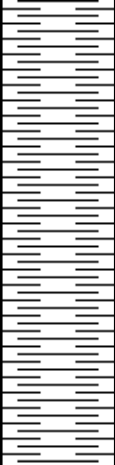
4800

1

300



4850
4900
50



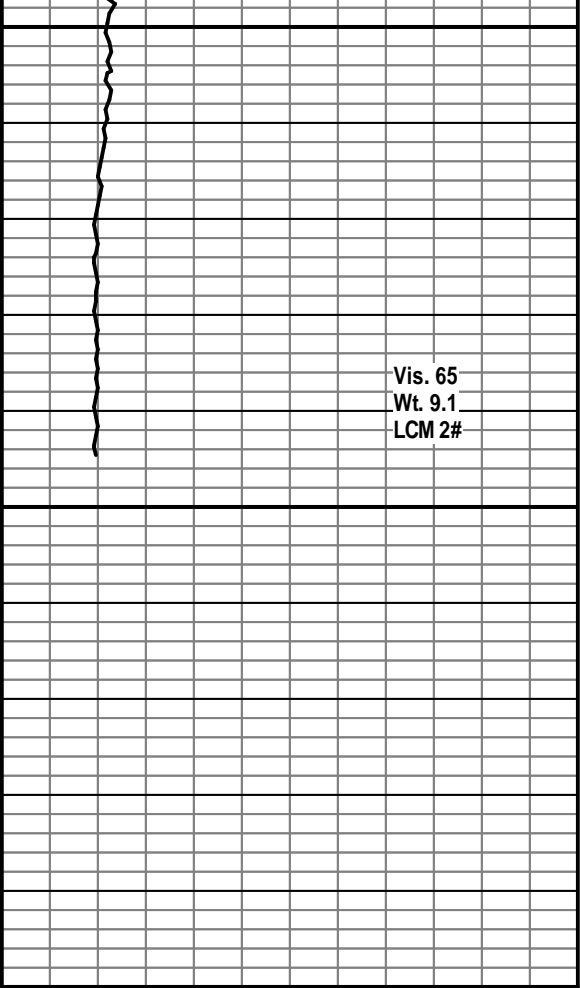
Sh, lt. to med. gry, v. dns, fissle.

Sh, lt. to med. gry, green, fissle blades, tr. pyrite.

Sh, lt. to med. gry, green, v. dns, fissle blades, tr. pyrite.

Sh, lt. to med. gry, laminated.

Sh, lt. to med. gry, green, samples are 99% shale.



Vis. 65
Wt. 9.1
LCM 2#