



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: _____



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
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input 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
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	DIEL D 5
Doc ID	1054241

Tops

Name	Top	Datum
CHASE	1770	-427
ELGIN SD	3538	-2195
DOUGLAS	3664	-2321
BROWN LIME	4045	-2702
PAWNEE	4489	-3146
MISSISSIPPIAN	4578	-3235
VIOLA	4889	-3546
SIMPSON	5008	-3665

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 19, 2011

DEAN PATTISSON
Woolsey Operating Company, LLC
125 N MARKET STE 1000
WICHITA, KS 67202-1729

Re: ACO1
API 15-007-23631-00-00
DIEL D 5
NE/4 Sec.16-34S-11W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DEAN PATTISSON

ALLIED CEMENTING CO., LLC. 040632

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Melvin Lodge

DATE <u>1-5-11</u> 12-5-10	SEC. <u>16</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION	JOB START <u>3:15</u>	JOB FINISH <u>4:15</u>
LEASE <u>Dick</u>	WELL # <u>5</u>	LOCATION <u>Scott Canyon 2 1/2 E south into</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR H-2 Drilling Rig #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5130
 CASING SIZE 5 1/2 DEPTH 4964
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1500 psi MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 42'
 PERFS.
 DISPLACEMENT 120 1/2 bbls 2% KCL

OWNER Woolsey Operating

CEMENT
 AMOUNT ORDERED 75 sx 60:40:4% gel
140 sx Class H + 10% Gyp Seal + 10% Salt
+ 6" Kol Seal + .8% FL-160 + 1/4" Flo Seal

EQUIPMENT

PUMP TRUCK CEMENTER Matt Thimesch
 # 360/265 HELPER Jason Thimesch
 BULK TRUCK
 # 353/290 DRIVER Garrett
 BULK TRUCK
 # DRIVER Regulatory Correspondence
Drig / Comp Workovers
Tests / Meters Operations

COMMON A	45 sx	@ 15.45	695.25
POZMIX	30 sx	@ 8.00	240.00
GEL	3 sx	@ 20.80	62.40
CHLORIDE		@	
ASC		@	
Class H	140 sx	@ 16.75	2345.00
Gyp seal	13 sx	@ 27.30	379.60
Salt	15 sx	@ 12.00	180.00
Kol seal	840#	@ .89	747.60
FL-160	105.28#	@ 13.30	1400.22
Flo seal	35#	@ 2.50	87.50
KCL	12 Gals	@ 31.25	375.00
		@	
HANDLING	267	@ 2.40	640.80
MILEAGE	267/10/15		400.50
			TOTAL 7553.87

REMARKS:

Broke seal from with Rig pump ball through
mix 25 sx 60:40:4% gel for Rathole
mix 50 sx 60:40:4% gel scavenger
mix 140 sx Class H + 10% gyp seal + 10% salt + 6" Kol seal
+ .8% FL-160 + 1/4" flo seal
Shut down wash pump at 4965
dep 120 1/2 bbls 2% KCL bump plug 80 psi
to 1500 psi plug held

FEB 21 2011 SERVICE

DEPTH OF JOB	4964'		
PUMP TRUCK CHARGE	2185.00		
EXTRA FOOTAGE	@		
MILEAGE	15	@ 7.00	105.00
MANIFOLD	@		
	@		
	@		
			TOTAL 2290.00

CHARGE TO: Woolsey
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

5 1/2	18 scrapers	@ 23.24	430.92
	11 turbolances	@ 40.60	446.60
	1 AFV Guide shoe	@	214.20
	1 latch down plug	@	163.20
		@	
			TOTAL 1255.52

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cement 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 2290.00
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME MIKE THARP
 SIGNATURE Mike Tharp

[Handwritten signature]

Covey

The Well Watchers

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

Well Name: DIEL 'D' #5

Location: Section 16 - Township 34 South - Range 11 West

License Number: 15-007-23,631. 0000

Region: Barber County, KS.

Spud Date: 21 December 2010

Drilling Completed: 4 January 2011

Surface Coordinates: 2,230' FNL & 1,865' FEL
(Approximately NE SE SW NE)

Bottom Hole Coordinates:

Ground Elevation (ft): 1,334' K.B. Elevation (ft): 1,343

Logged Interval (ft): 4,300' To: 5,130' Total Depth (ft): 5,130'

Formation: Kansas City Group -----> McLish Shale

Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

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

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC

Address: 125 North Water, Suite 1000

Wichita, Kansas 67202

(316) 267-4379

Geologist:

Dean Patisson

GEOLOGIST

Name: Curtis Covey

Company: COVEY - The Well Watchers

Address: 6548 Bedford Circle

Derby, Kansas 67037

Office: (316) 776 - 0367 Cell: (316) 258-9976

FORMATION TOPS

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Stark SH	4,316' (2,973')	4,314' (-2,941')
Hushpuckney SH	4,348' (-3,005')	4,346' (-3,003')
B / KC	4,396' (-3,053')	4,394' (-3,051')
Pawnee LS	4,488' (-3,145')	4,488' (-3,145')
Cherokee Gp	4,541' (-3,198')	4,543' (-3,200')
Mississippian	4,575' (-3,232')	4,578' (-3,235')
Kinderhook Sh	4,787' (-3,444')	4,778' (-3,435')
Woodford Sh	4,862' (-3,519')	4,862' (-3,519')
Viola	4,890' (-3,547')	4,890' (-3,547')
Wilcox SS	5,030' (-3,687')	5,026' (-3,683')

RTD: 5,130' LTD: 5,130' ATD: 5,126'

E-log is 0' - 4' high to rotary sample depth.

Loggers:

Superior Well Services
Hays, Kansas

DAILY DRILLING STATUS -- DECEMBER 2010 & JANUARY 2011

14-1/2" Hole

20 Dec --- Spud @ 3:15pm. Drill to 225'.
 Run 10-3/4" casing.
 Set casing @ 225'.
 Cemented w/ 240 sx Class A
 (2% Gel + 3% CC). [Allied]
 Cement did circulate.
 Plug down @ 9:45pm.
 WOC.

7-7/8" Hole

21 - 26 Dec --- Off for Christmas.
 27 --- Under surface casing @ noon.
 28 --- 7am @ 1,061'.
 29 --- 7am @ 2,046'.
 30 --- 7am @ 2,899'.
 31 --- 7am @ 3,580'. Drill to
 3,631'. Collar Trip @ 3,631'.

1 Jan --- Resumed Drilling.
 7am @ 3,900'.
 2 --- 7am @ 4,296'.
 3 --- 7am @ 4,720'.
 4 --- 7am @ 5,070'.
 RTD (5,130') @ 11:50am.
 E-LOG
 [Superior Well Services]

HOLE DEVIATION (225' - 5,130')

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
225' /	--- 1.25						
1,284' /	--- 1.00						
1,760' /	--- Misrun						
1,779' /	--- (3), then 1.00						
1,889' /	--- 1.00						
2,390' /	--- 1.00						
2,888' /	--- 0.25						
3,313' /	--- 0.25						
3,791' /	--- 0.75						
3,948' /	--- 1.75						
4,043' /	--- 0.75						
4,206' /	--- 0.75						
4,709' /	--- 0.50						
5,130' /	--- 1.00 (RTD)						

CONTRACTOR

H2 Drilling --- Rig #3

10,500 E. Berkeley Square Parkway, Suite 1000
 Wichita, Kansas 67230
 Office: (316) 636-2090

Rig #3 - (620) 388-1903

Randy - (620) 290-1672

Pump: EMSCO D-375
 6" x 14" @ 60 SPM.
 900 - 1,000 PSI @ Standpipe.

After Collar Trip @ 3,631',
 20 - 35M on bit @ 100 RPM
 while drilling main hole.

Drill Collars: 6" x 2.50" --- 482'. (79#/ft)
 Dry Collar Weight: 38,078#
 (@ 9.1 ppg / Buoyancy Factor 0.8615)
 Bouyancy Collar Weight: 32,804#
 Design Factor: 15%, therefore:
 available WOB is 27,884#
 Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
20 Dec 2010	14-1/2"	VAREL L-117	3 / 15's	0' / 225'	225'	3.50	64.3
27 Jan 2011	7-7/8"	VAREL CH-29	14 - 15 - 14	225' / 5,130'	4,905'	174.00	28.2

ROCK TYPES

POROSITY

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

LITHOLOGY

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Granite wash
	Congl
	Dol lmst
	Silty dol
	Calc dol
	Dol 2
	Dol
	Gyp
	Igne

	Lmst 2
	Lmst
	Meta
	Mrlst
	Salt
	Shale 3
	Shale 3
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Till
	Ss 2

MINERAL

	Mica
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk

	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Copper
	Ooliticastic
	Ooloid
	Oolite
	Sucrosic
	Dark specks

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Calc dol
	Sltstrg
	Ssstrg
	Chalk
	New symbol

SHOW

	Oil
	Spotted
	Ques
	Dead
	Gas
	Oil/gas
	Bed contact

ACCESSORIES

FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Spore
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet

	Pisolite
	Plant
	Strom

MINERAL

	Mica
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr

	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Copper
	Ooliticastic
	Ooloid
	Oolite
	Sucrosic

	Dark specks
--	-------------

STRINGER

	Calc dol
	Silty dol
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Calc dol
	Sltstrg
	Ssstrg
	Chalk
	New symbol

OTHER SYMBOLS

ACTIVITY

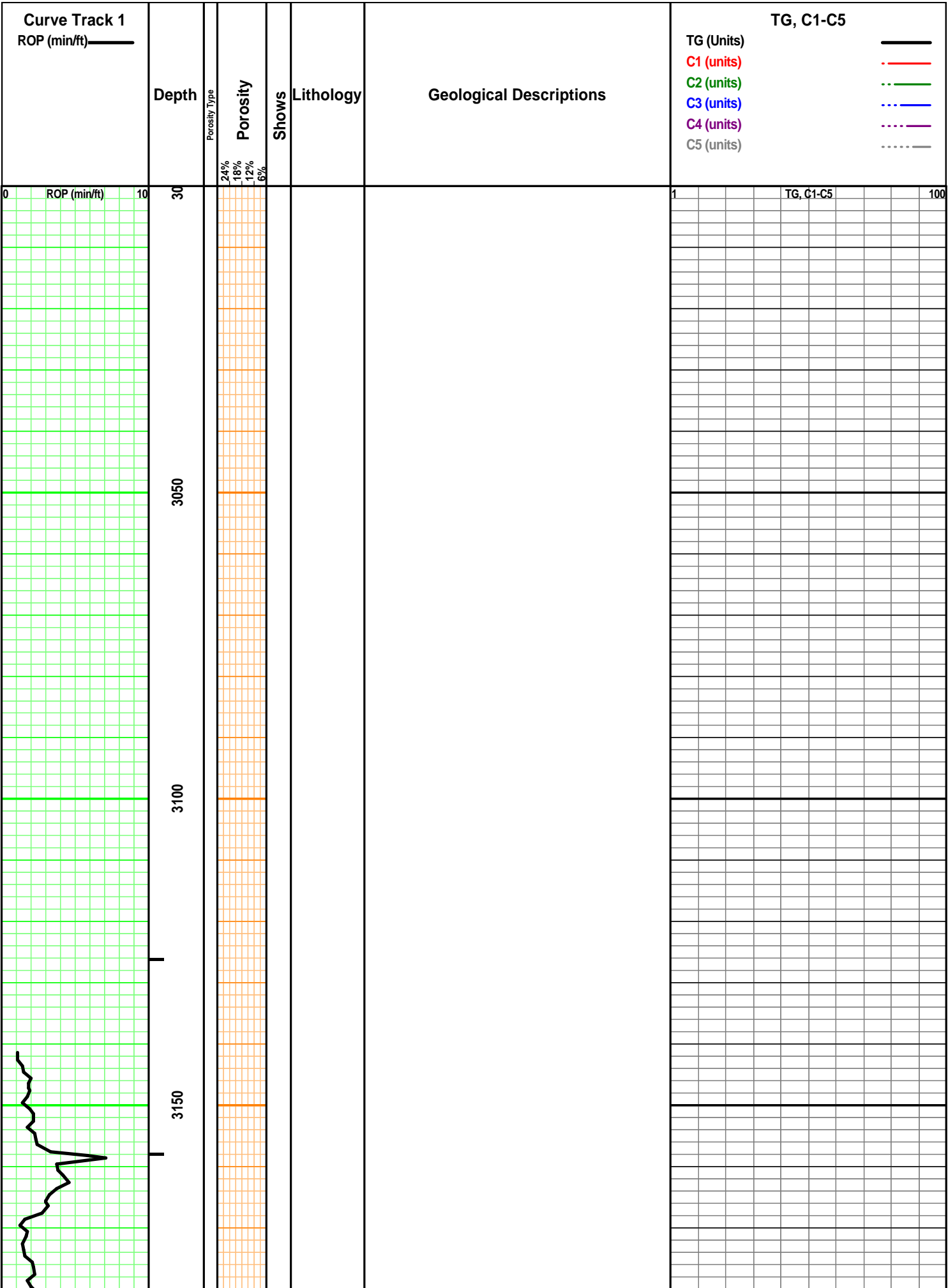
	Lost circluation
	Circulate for sample 2

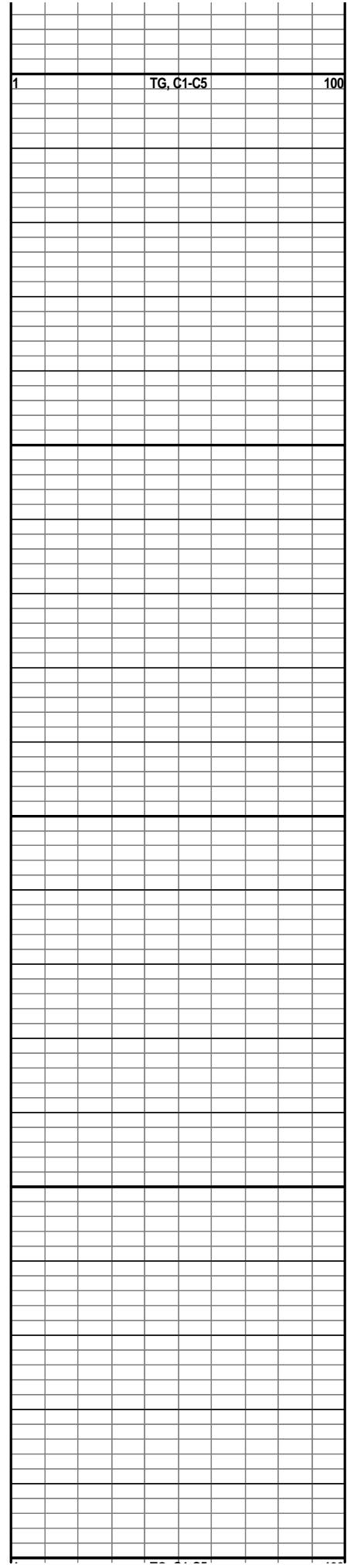
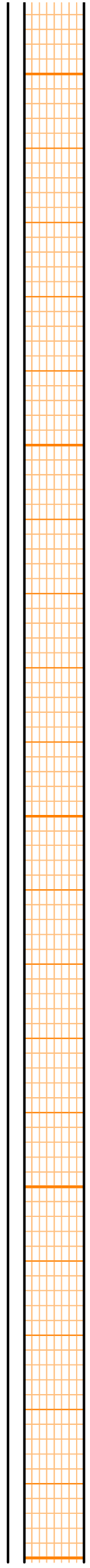
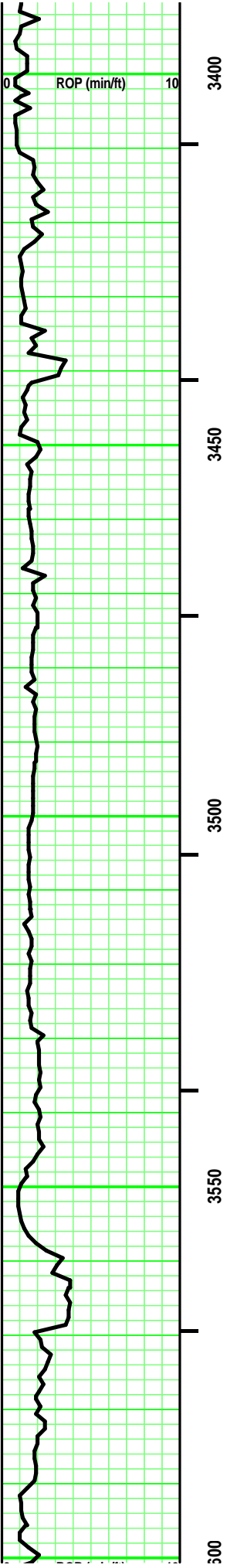
	Circulate for samples
	Rtd
	Trip

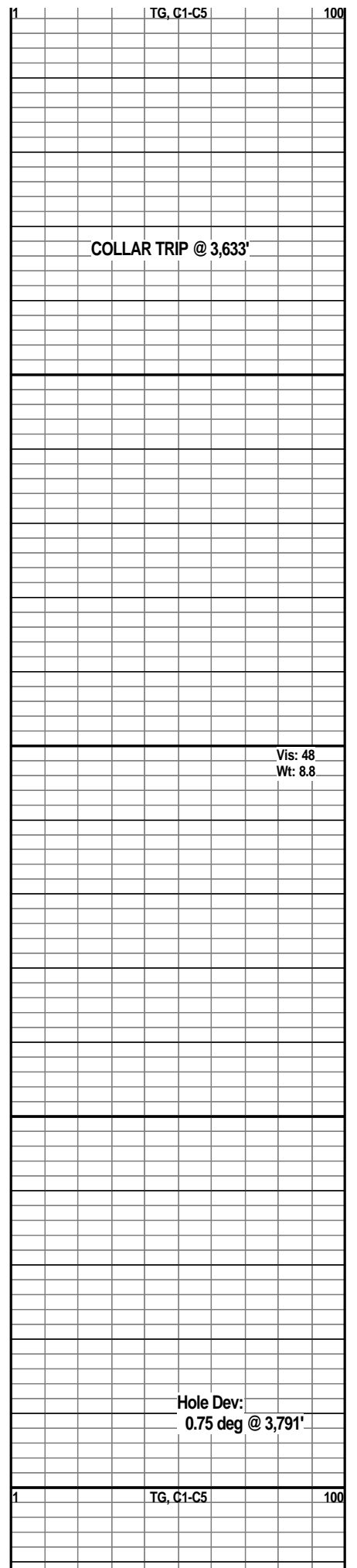
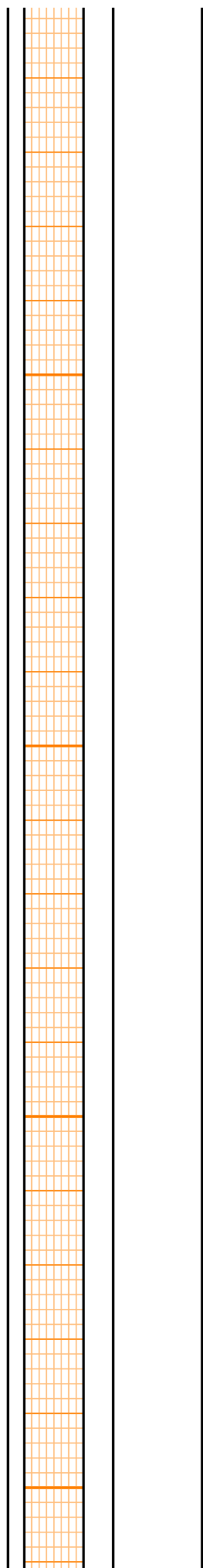
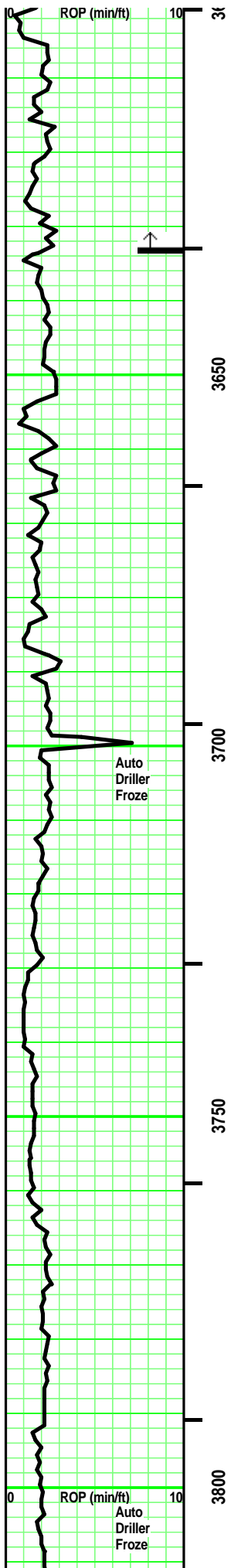
EVENT

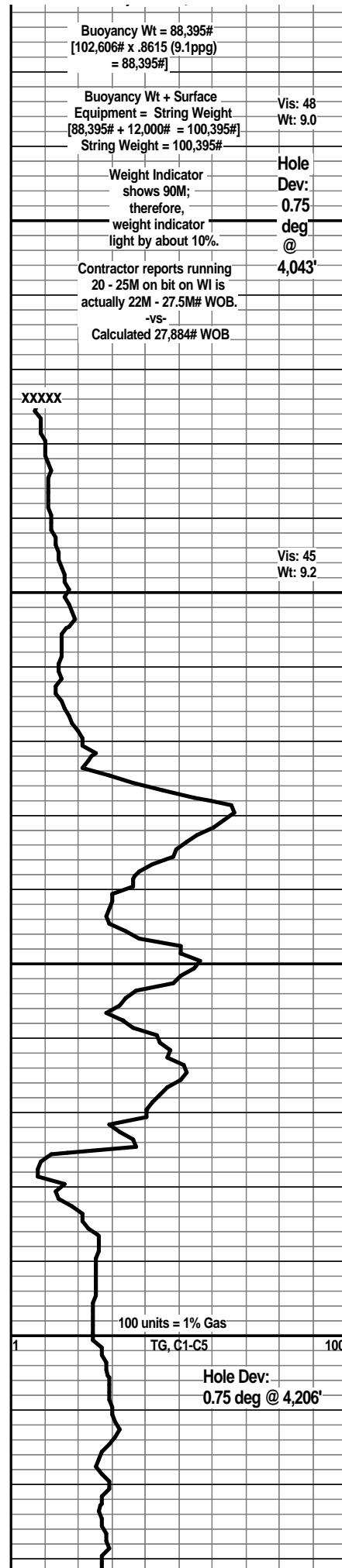
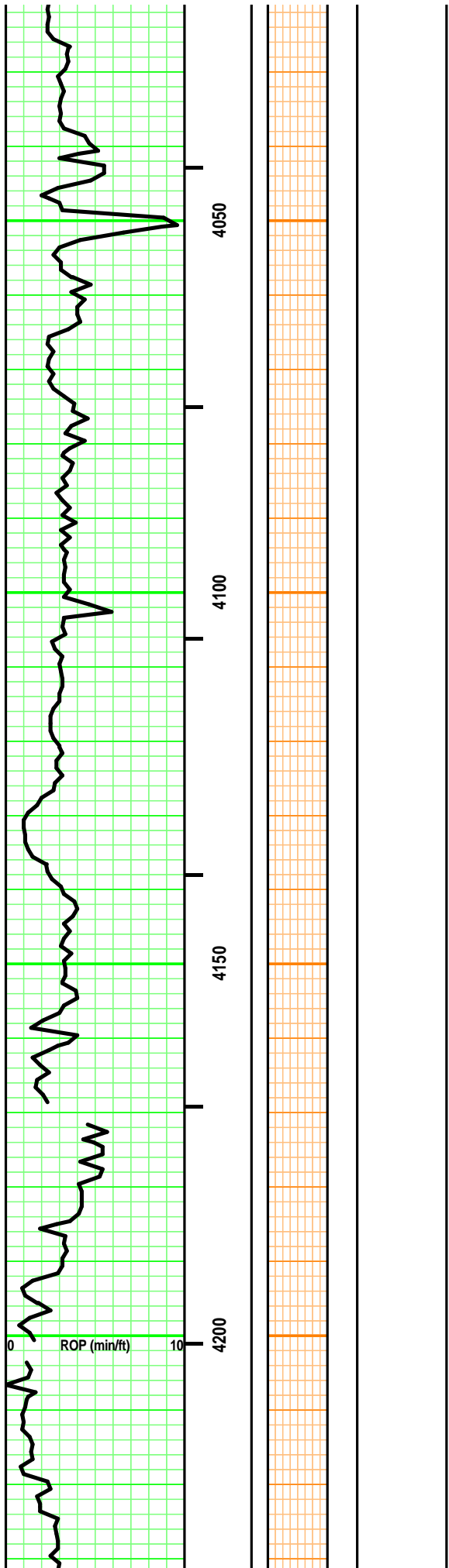
	Connection
	Rft

	Sidewall
--	----------









Buoyancy Wt = 88,395#
 [102,606# x .8615 (9.1ppg)
 = 88,395#]

Buoyancy Wt + Surface
 Equipment = String Weight
 [88,395# + 12,000# = 100,395#]
 String Weight = 100,395#

Vis: 48
 Wt: 9.0

Weight Indicator
 shows 90M;
 therefore,
 weight indicator
 light by about 10%.

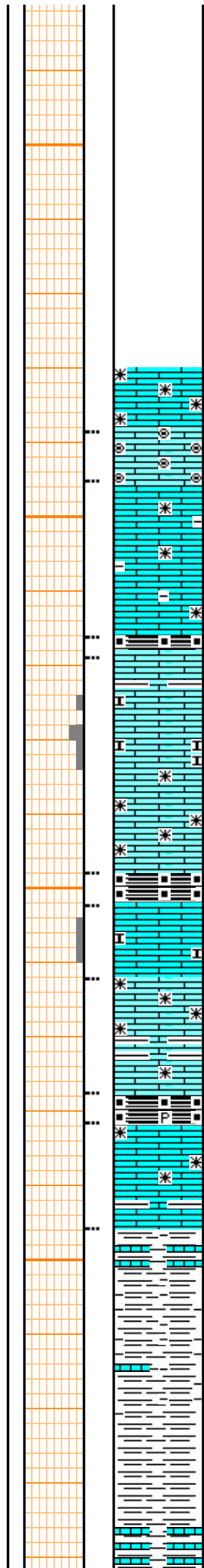
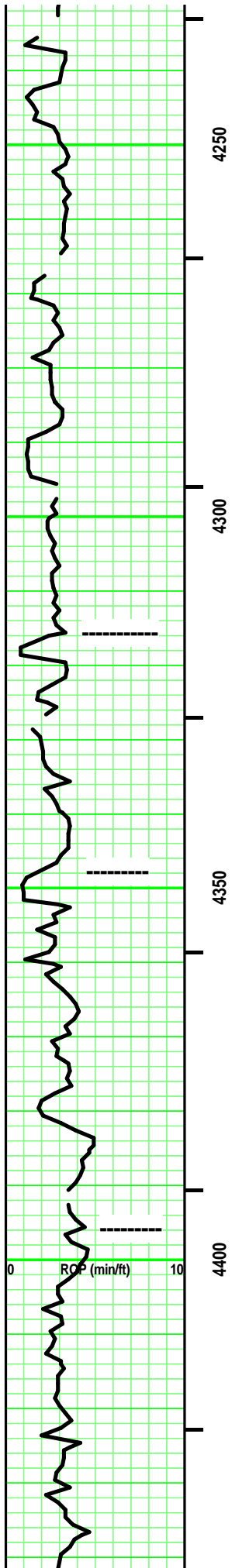
Hole
 Dev:
 0.75
 deg
 @
 4,043'

Contractor reports running
 20 - 25M on bit on WI is
 actually 22M - 27.5M# WOB.
 -vs-
 Calculated 27,884# WOB

Vis: 45
 Wt: 9.2

100 units = 1% Gas
 TG, C1-C5

Hole Dev:
 0.75 deg @ 4,206'



LS - Tan. Sing. Crypto-/ mostly Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.

LS - Off White/ Tan VF Oolitest. some clear/ Tan matrix. Opaque to semitransparent. Friable. Tr vis por.

LS - Tans/ some Off White, tr Lt Gray. mostly Sing/ some Mot. some Crypto- mostly Micro-xln & XF-xln. xln por. some Re-xln. some argil in part. rare minute off white fossil frags. Firm. No/ tr vis por.

----- **STARK SH 4,316' (-2,973')**
 SH - Black. Sing. Carb. Blocky.

LS - Off White/ some Tan. Sing. Micro-xln. xln por. Subchalky. partly Friable. some interbedded Med Gray shale. Tr vis por.

----- **Hushpuckney Sh 4,348' (-3,005')**
 SH - Black. Sing. Carb. Soft.

LS - Tan/ Lt Gray. Sing/ Mot. Micro-xln. xln por. Subchalky in part. some Firm. No/ tr vis por.

LS - Lt Gray/ tr Brown/ Tan. Sing. Crypto-/ Micro-xln. xln por. Re-xln. some interbedded Lt Gray argil/ shale. mostly Firm. No/ tr vis por.

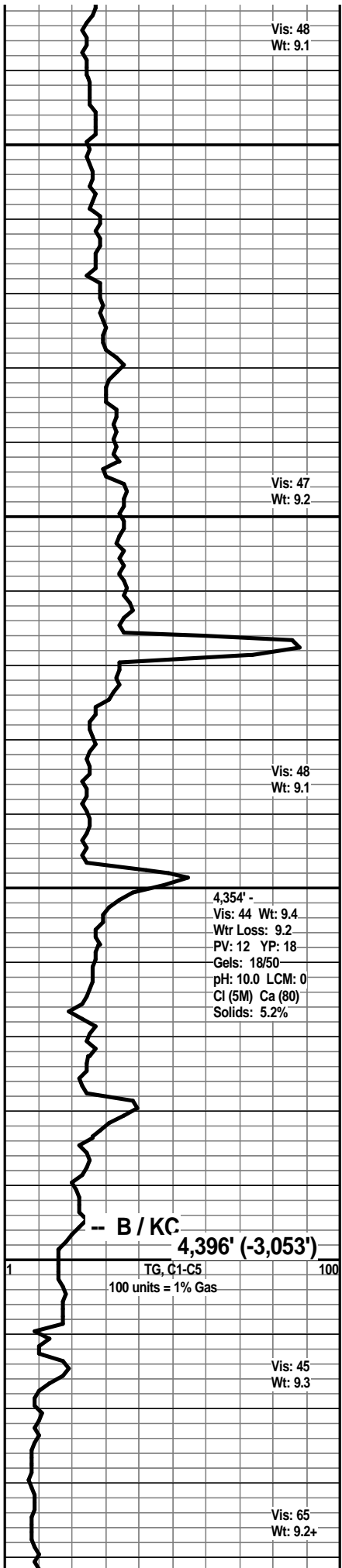
SH - Black, Carb. rare pyritic. partly fissile. partly soft.

LS - Tans/ some Off White & Grays. Sing/ tr Mot. XF-/ Micro-xln. xln por. some argil/ shaly in part. some Re-xln. Firm. No/ tr vis por.

----- **B / KC 4,396' (-3,053')**
 SH - Med/ Dark Grays, Black - carb. Sing. some Ls interbedding / rare rubble.

LS - Tan/ Grays, rare Off White. Sing. Micro-/ tr crypto-xln. xln por. some Re-xln. some argil. Firm. No/ tr vis por. -- intermixed & interbedded with --

SH - Grays, Greenish Grays, Silverish Gray. Black & Carb. Sing. tr silty.



Vis: 48
Wt: 9.1

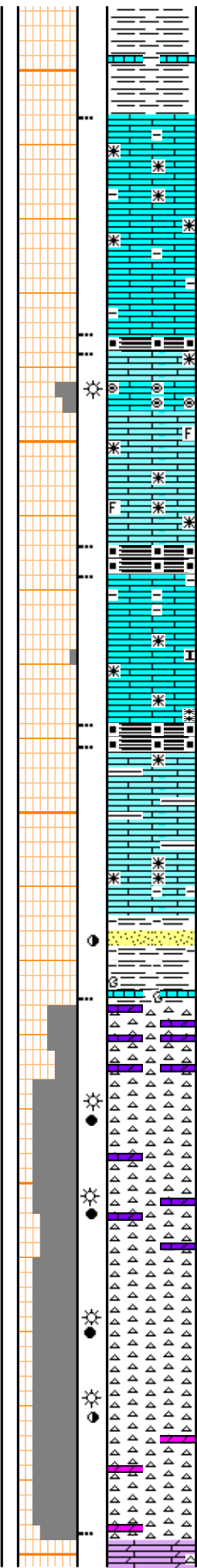
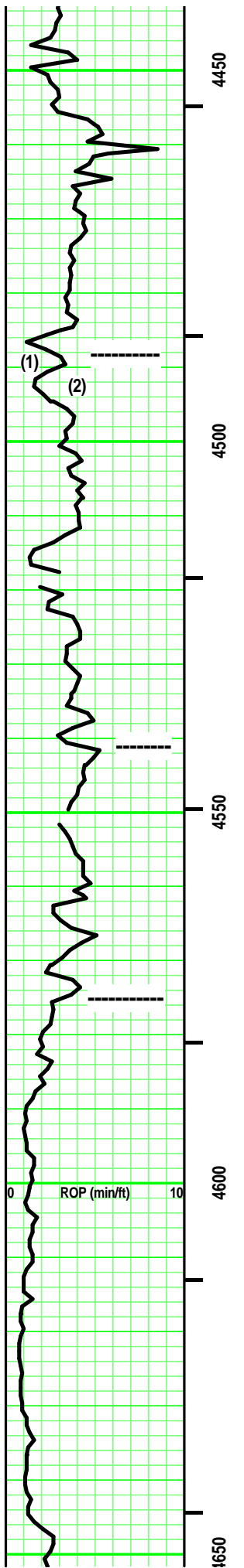
Vis: 47
Wt: 9.2

Vis: 48
Wt: 9.1

4,354' -
 Vis: 44 Wt: 9.4
 Wtr Loss: 9.2
 PV: 12 YP: 18
 Gels: 18/50
 pH: 10.0 LCM: 0
 Cl (5M) Ca (80)
 Solids: 5.2%

Vis: 45
Wt: 9.3

Vis: 65
Wt: 9.2+



LS - Tans/ Grays. tr Off White. tr Sing/ mostly Mot. mostly Micro-xln, tr XF-xln. xln por. some argil/shaly in part. Firm. No/ tr vis por.

SH - Black. Carb Soft.

LS (1) - Tans/ some Off White. Sing/ tr Mot. some Crypto-/ mostly Micro- & XF-xln. xln por. some Re-xln. tr fossil frags. Firm. No/ tr vis por.

LS (2) - Tan, tr Dark Tan/ mixed with Off White Micro- Oolites & Ooloids. Clear Matrix. Opaque to Transparent. some soft, mostly Firm. No/ tr vis por. Faint odor. Spotted yellow fluorescence. A/C, no free oil or gas. No stain. Weak Pos cut/ residual. Weak Pos acid/ residual.

SH - Black. Sing. Carb. Soft.

LS - Tan/ some Lt & Med Gray. Sing/ some Mot. XF-/ Micro-xln. xln por. Re-xln. some argil/ shaly in part. mostly Firm. few pcs: subchalky. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

CHEROKEE GP 4,541' (-3,198')

Interbedded & Intermixed SH & LS
SH - Med/ Dark Gray, some Greenish Gray. some Black, carb, soft. tr pyritic. some limy streaks in part.

LS - Tans/ Lt & Med Gray, Med Gray with depth. Sing/ tr Mot. XF-/ Micro-xln. xln por. some Re-xln. argil in part. tr fossil frags. some, minute limy frags. mostly Firm. mostly No/ tr vis por.

Add: SS - Clear/ some Off White & Black. Mot. Silt sized qtz grains. SR. Hi sort. Mod sph. Frosted Luster. sutured grain contact. Si/ tr calc ----->

Rubble

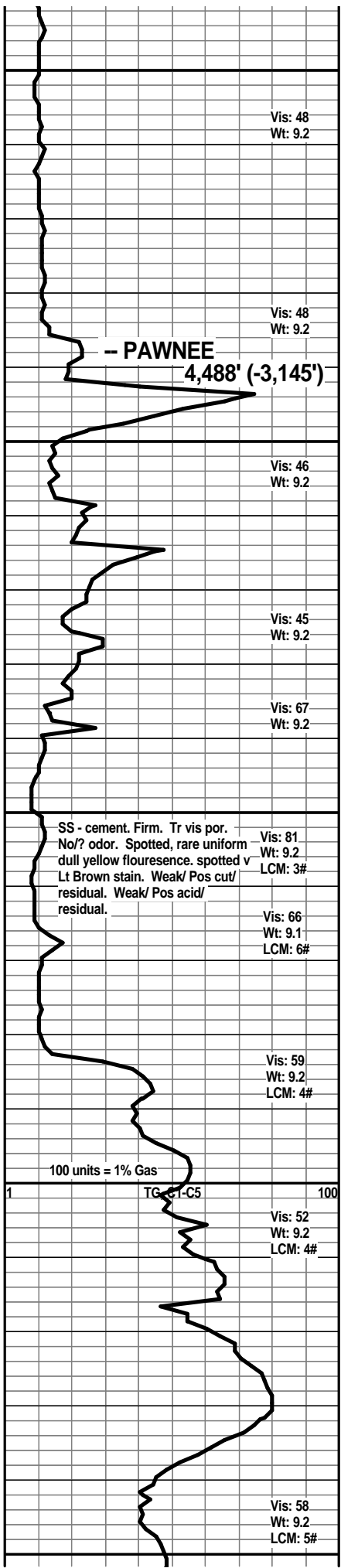
MISS 4,575' (-3,232')

CHERT - Off White/ Silvery Gray/ some Clear. Mot. Opaque to semitransparent. some misc fossil frags/hash inclusions. Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain. Highly limy dol or dol / frags in part. Tr/ fair vis por. Faint/Fair odor. Spotted/ some Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Stain as above (30% - 80%) . Weak Pos/ Pos cut/ residual. Weak Pos/ Pos acid/ residual. few/ some Oil spots on wash water.

CHERT - some Clear/ Off White/ Silvery Gray. tr/ some Pale Green at depth. Mot. Opaque to semitransparent. some misc fossil frags/hash inclusions. Spotted/ some Uniform Tripolitic with some Spotted/ uniform Lt/ Med Brown stain. Highly limy dol or dol / frags in part. Tr/ fair vis por.

Faint/Fair odor. Spotted/ some Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Stain as above (25% - 60%) . Weak Pos/ Pos cut/ residual. Weak Pos/ Pos acid/ residual. few/ some Oil spots on wash water.

Delemite (Calc) - Tan/ mostly Lt Gray & Med Gray



Vis: 48
Wt: 9.2

Vis: 48
Wt: 9.2

PAWNEE 4,488' (-3,145')

Vis: 46
Wt: 9.2

Vis: 45
Wt: 9.2

Vis: 67
Wt: 9.2

Vis: 81
Wt: 9.2
LCM: 3#

Vis: 66
Wt: 9.1
LCM: 6#

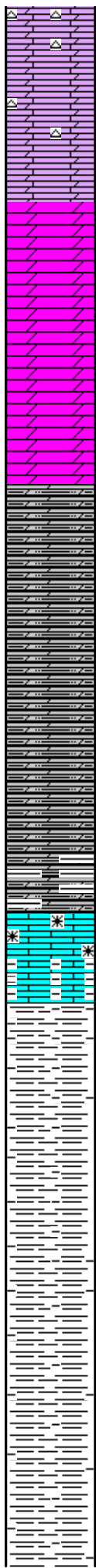
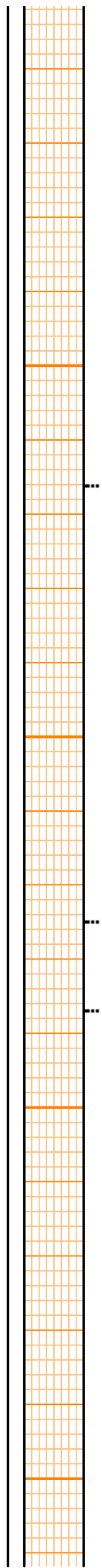
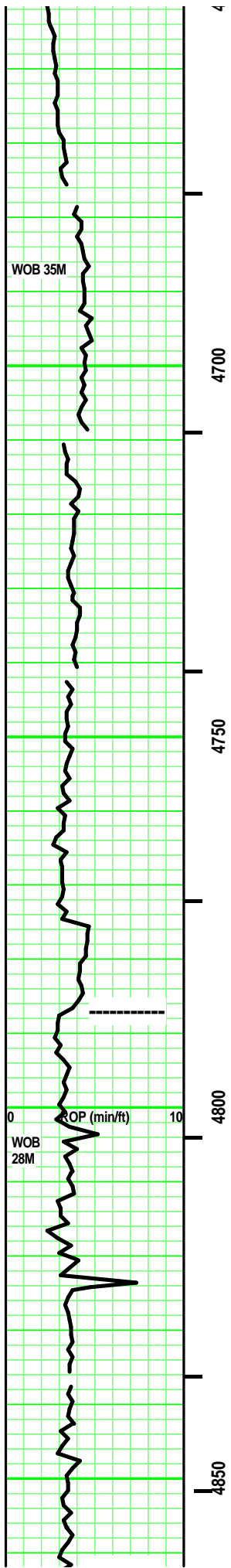
Vis: 59
Wt: 9.2
LCM: 4#

100 units = 1% Gas

TG C1-C5

Vis: 52
Wt: 9.2
LCM: 4#

Vis: 58
Wt: 9.2
LCM: 5#



Dolomite (Calc) - Fair mostly Lt Gray, tr med Gray. Sing. Re-xln. xln & tr sucrosic por. tr Silty in part. [tr CHERT - similar to immediately above.] Massive. some No/ mostly tr vis por.

Dolomite (tr calc) - Tans/ some Lt Gray. Sing. XF-/ Micro-xln. xln & tr sucrosic por. some Re-xln. tr silty in part. Massive. tr/ some Fair vis por.

Dolomite (tr calc) - Tans/ some Lt & Med Gray. Sing. XF-/ Micro-xln. xln & rare sucrosic por. some Re-xln. silty in part. Massive. tr vis por.

Dolomite - Med/ some Dark Gray. tr Lt Gray. - Sing. Micro-Re-xln. xln por. highly Silty. rare misc, minute inclusion. Massive. No/ tr vis por.

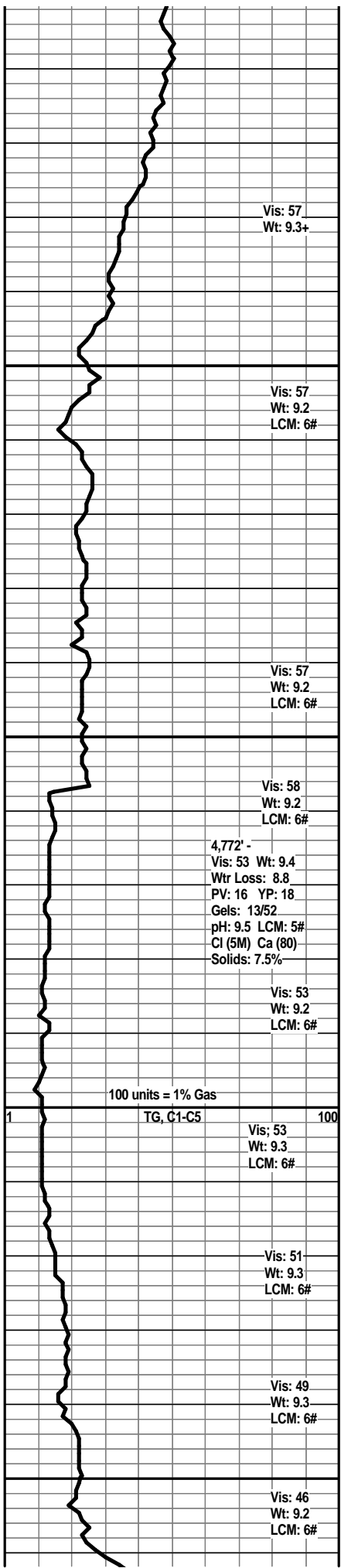
Dolomite - Dark Gray. tr Lt Gray. - Sing. Micro-Re-xln. xln por. highly Silty. Massive. No/ tr vis por.

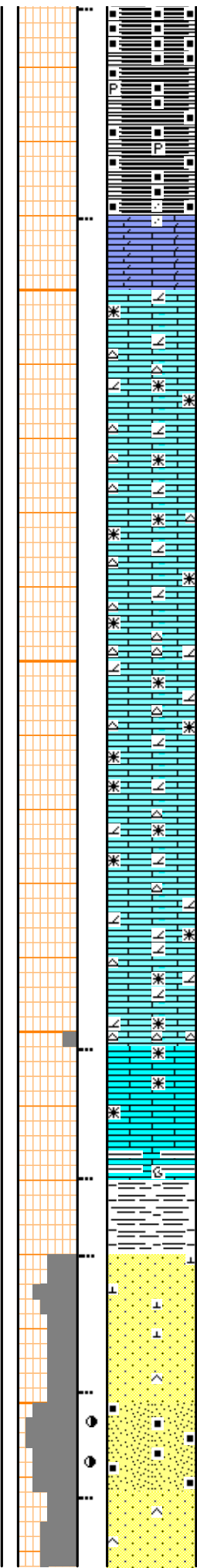
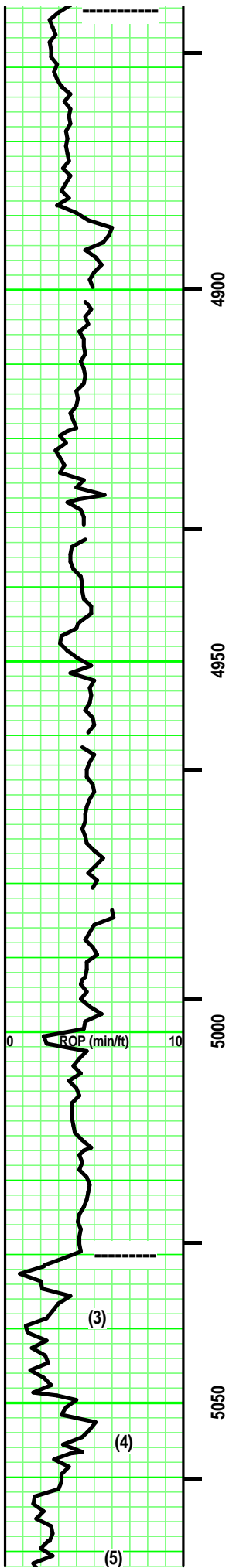
LS - Tan/ Off White. Sing. Micro-/XF-xln. xln por. argil/shaly with depth. partly Firm. No/ tr vis por.

----- KINDERHOOK SH 4,787' (-3,444')

SH - Dark Gray, Greenish Gray. Sing/ tr Mot. Firm. tr calc stringers in part.

SH - Dark Gray, Greenish Gray. Sing/ tr Mot. Firm. tr calc stringers in part.





WOODFORD SH 4,862' (-3,319')

SH - Black. Sing. carb. (Brown hue scratch.)
Massive. some blocky. tr pyritic.

VIOLA 4,890' (-3,547')

LS (Dol) - Lt Gray/ Tan. Sing. Micro-xln. xln por. some Re-xln. Random, minute black specks. (interbedded near top: some VF, SR, vitreous, mod sph, dissem, qtz grains in pyritized sh/ls.) Massive. No/ tr vis por.

LS (dolo in part) - Grays/ Off White/ Tans. Sing/ Mot. mixture of Crypto-/ Micro-xln. xln por. some highly dol in partsome Re-xln. (tr/some CHERT - Clear/ White, Mottled -or- Tan, Grays, White, Clear - Mottled. Opaque to mixed semitrans- parent. rare Inclusions: fossil hash/ fragments. No/ some tripolitic.) Firm. No/ tr vis por.

LS - Tan. Sing. Micro-xln. xln por. tr Re-xln. Green shaly at depth. some rubble.

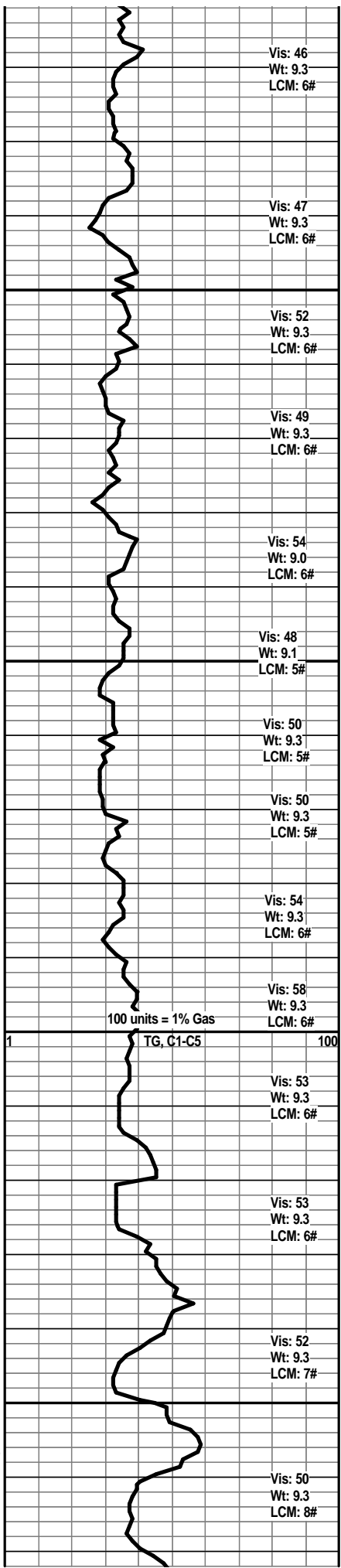
SH - Green/ Greenish Gray. Sing. Firm. Massive. tr ductile.

WILCOX SS 5,030' (-3,687')

SS (3) - Clear/ Pale Greenish Gray/ Lt Gray/ Off White. Mot. VF-/ tr silt sized qtz grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil cement. some Point/ mostly sutured grain contact. some argil in part. partly Friable. Fair/ good vis por. l.

SS (4) - Clear/ Lt Brownish Tan/ Off White. Mot. VF-/ tr silt sized qtz grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil cement. some/ highly sutured grain contact. some argil in part. some carb flecks. partly Friable. Fair/ Good vis por. No odor. mostly Barren/ rare spotted Yellow fluorescence. A/C, no free oil or gas. mostly Barren/ rare, spotted Lt Brown stain. No cut & residual. No acid/residual.

SS (5) - Clear/ White. Mot. silt sized qtz grains. SR. Hi sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil



Vis: 46
Wt: 9.3
LCM: 6#

Vis: 47
Wt: 9.3
LCM: 6#

Vis: 52
Wt: 9.3
LCM: 6#

Vis: 49
Wt: 9.3
LCM: 6#

Vis: 54
Wt: 9.0
LCM: 6#

Vis: 48
Wt: 9.1
LCM: 5#

Vis: 50
Wt: 9.3
LCM: 5#

Vis: 50
Wt: 9.3
LCM: 5#

Vis: 54
Wt: 9.3
LCM: 6#

Vis: 58
Wt: 9.3
LCM: 6#

100 units = 1% Gas

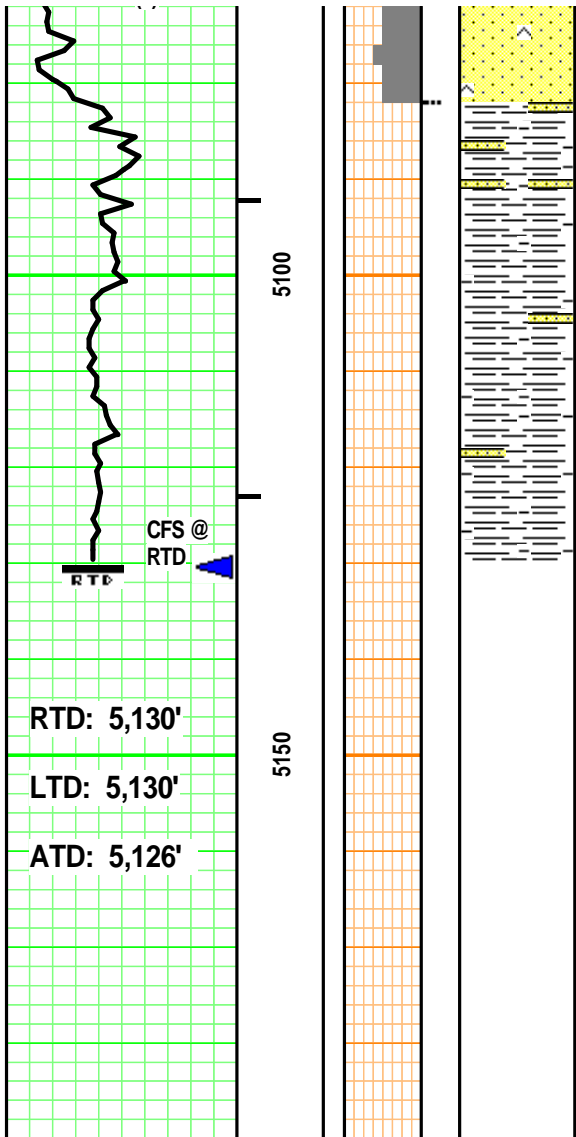
TG, C1-C5

Vis: 53
Wt: 9.3
LCM: 6#

Vis: 53
Wt: 9.3
LCM: 6#

Vis: 52
Wt: 9.3
LCM: 7#

Vis: 50
Wt: 9.3
LCM: 8#



mod spn. vitreous/ some frosted grain contact. Calc tr sil cement. mixture of: Point/ sutured grain contact. Friable. tr/ Fair/ somegood vis por.

SH - Grays/ Green Gray/ tr Pale Greenish Gray. Sing/ tr Mot. highly sandy in part (similar to immediately above). mixture of 'crumbly' / grainy / blocky / some waxy. Massive.

DIEL D #5
 2,230' FNL & 1,865' FEL 16-T34S-R11W
 Barber County, Kansas

WOOLSEY OPERATING CO., LLC.
 Wichita, Kansas

