



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

Well Name: Wood #1-7
Location: Sec. 07 - T21S - R14W , Stafford County, KS
Licence Number: API No.: 15-185-23674-0000
Spud Date: March 23, 2011
Surface Coordinates: 330' FNL & 2310' FEL
Region: Frey
Drilling Completed: March 29, 2011

Bottom Hole Coordinates:

Ground Elevation (ft): 1927' K.B. Elevation (ft): 1932'
Logged Interval (ft): 2200' To: 3840' Total Depth (ft): 3842' (LTD)
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Hess Oil Company
Address: 2080 E. Kansas
McPherson, KS 67460

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the Open Hole Logs, DST info, and sample evaluation, it was decided by operator to run 5 1/2" production casing to further evaluate the multiple Arbuckle zones encountered while drilling the Wood #1-7.

Please Note: the RTD was 3840' and the LTD was 3842'.

The well samples were saved, and will be submitted and available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully Submitted,
Derek W. Patterson

Hess Oil Company

DAILY DRILLING REPORT

Company: Hess Oil Company
 2080 E. Kansas
 McPherson, KS 67460
 Contact: Bryan Hess (Hess Oil Co)
 Office: 620.241.4640
 David Withrow (Edison Operating Co)
 Cell: 316.613.1544
 Geologist: Derek W. Patterson
 Cell: 316.655.3550
 Office: 316.558.5202

Drilling Contractor: J V Mallard, Inc., Rig: 785.731.5161
 Toolpusher: Lavon Urban, Cell: 785.731.5160

Well: Wood #1-7
 Location: 330' FNL & 2310' FEL
 Sec. 07 - T21S - R14W
 Stafford Co., KS
 Elevation: 1927' GL - 1932' KB
 Field: Frey
 API: 15-185-23674-0000
 Surface Casing: 893' of 8 5/8" set @ 900' KB
 Spud Date: March 23, 2011
 Drilling Complete: March 29, 2011

Date	7:00 AM Depth	Previous 24 Hours of Operations
3.28.2011	3430'	Drilling and connections Tarkio, Severy, and into Topeka. Geologist Derek W. Patterson on location 2200 hrs 3.27.11. Reset/test Bloodhound (was +20' ahead of Geolograph) and test gas detector. Drilling and connections Topeka, Heebner, Toronto, Brown Lime, and into Lansing. CFS @ 3429' (LKC 'B'), resume drilling upper Lansing.
3.29.2011	3752'	Drilling and connections upper Lansing, lower Lansing, BKC, Viola, and into Arbuckle. CFS @ 3752' (Arb). Shows and gas kick warrant DST. CTCH, short trip, CTCH, drop survey, strap out for DST #1. Conducting DST #1.
3.30.2011	RTD - 3840' LTD - 3842'	Conducting DST #1, test successful. TIH w/ bit, CTCH, resume drilling ahead to RTD of 3840', RTD reached 1345 hrs 3.29.11. Rig down for pump repairs. CTCH, drop survey, TOH for logging operations 1600 hrs 3.29.11. Open hole logging operations commenced 1800 hrs 3.29.11, logging complete 2230 hrs 3.29.11. Orders received to run 5 1/2" production casing to further evaluate Arbuckle zones encountered while drilling the Wood #1-7. Geologist Derek W. Patterson off location 2300 hrs 3.29.11.

Hess Oil Company

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL				COMPARISON WELL				COMPARISON WELL					
Hess Oil Company – Wood #1-7 Sec. 7 – 21S - 14W 330' FNL & 2310' FEL (NW NW NE) 1932 KB					Hess Oil Company – Pfister #1-6 Sec. 6 – 21S – 14W 990' FSL & 470' FEL Oil – Arb Structural 1927 KB Relationship				F & M Oil Company – Frey #1 Sec. 7 – 21S – 14W N2 SW SE Oil – Arb Structural 1934 KB Relationship				Vickers Petroleum – Frey #4 SEC. 7 – 21S – 14W NE NW NE Oil – Arb Structural 1929 KB Relationship					
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Log	Sub-Sea	Sample	Log	
Heebner	3274	-1342	3273	-1341	3245	-1318	-24	-23		3259	-1325	-17	-16		3256	-1327	-15	-14
Toronto	3285	-1353	3286	-1354	3256	-1329	-24	-25		3272	-1338	-15	-16		3270	-1341	-12	-13
Douglas	3303	-1371	3303	-1371	3274	-1347	-24	-24		3298	-1364	-7	-7		3287	-1358	-13	-13
Brown Lime	3375	-1443	3376	-1444	3349	-1422	-21	-22		3361	-1427	-16	-17		3358	-1429	-14	-15
Lansing	3384	-1452	3386	-1454	3357	-1430	-22	-24		3369	-1435	-17	-19		3368	-1439	-13	-15
Muncie Creek	3502	-1570	3506	-1574	3474	-1547	-23	-27							3486	-1557	-13	-17
Stark Shale	3568	-1636	3566	-1634	3536	-1609	-27	-25							3545	-1616	-20	-18
Base Kansas City	3609	-1677	3608	-1676	3579	-1652	-25	-24		3592	-1658	-19	-18		3589	-1660	-17	-16
Viola	3641	-1709	3643	-1711	3611	-1684	-25	-27		3622	-1688	-21	-23		3620	-1691	-18	-20
Simpson Shale	3680	-1748	3682	-1750	3636	-1709	-39	-41		3656	-1722	-26	-28		3647	-1718	-30	-32
Simpson Sand	Not Called		3695	-1763	3644	-1717	N/A	-46							3668	-1739	N/A	-24
Arbuckle	3734	-1802	3733	-1801	3680	-1753	-49	-48		3706	-1772	-30	-1771		3696	-1767	-35	-34
Total Depth	3840	-1908	3842	-1910	3800	-1873	-35	-37		3710	-1776	-132	-134		3710	-1781	-127	-129

Hess Oil Company

Wood #1-7

Sec. 07 - T21S – R14W

330' FNL & 2310' FEL

API: 15-185-23674-0000

Stafford Co., KS

BIT RECORD

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
A	12 1/4"	RRSM	RT		0'	900'	900'	12
1	7 7/8"	RR	F-27	PS 6340	900'	3840'	2940'	73.1

SURFACE CASING RECORD

March 24, 2011

Ran 20 new joints of new 23# , tally @ 893' , set @ 900' KB. Cement did circulate.

Hess Oil Company

Wood #1-7

Sec. 07 - T21S - R14W

330' FNL & 2310' FEL

API: 15-185-23674-0000

Stafford Co., KS

DEVIATION SURVEY RECORD

<u>Depth</u>	<u>Survey</u>
900'	3/4°
3752'	3/4°
3840'	3/4°

PIPE STRAP RECORD

<u>Depth Out</u>	<u>Pipe Strap</u>
3752'	0.71' Long to Board



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Hess Oil Co
PO Box 1009
McPherson, KS 67460
ATTN: Derek Patterson

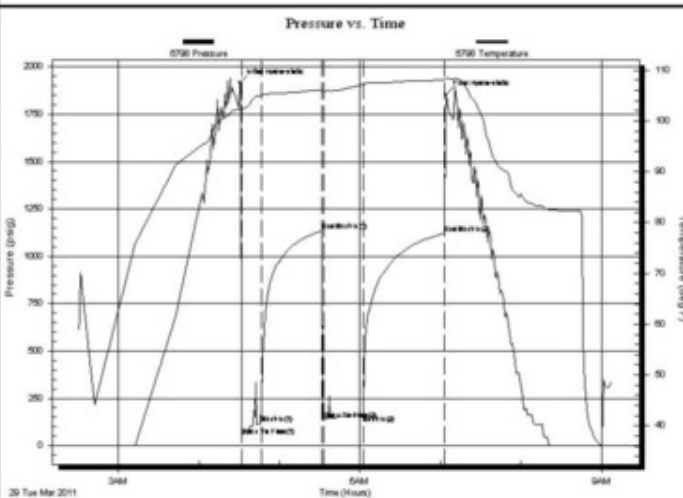
Wood #1-7
7-21S-14W Stafford
Job Ticket: 041399 **DST#: 1**
Test Start: 2011.03.29 @ 02:30:31

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:31:46
Time Test Ended: 09:08:16
Interval: **3670.00 ft (KB) To 3752.00 ft (KB) (TVD)**
Total Depth: 3752.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1932.00 ft (KB)
1927.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6798 Inside
Press@RunDepth: 163.34 psig @ 3671.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.29 End Date: 2011.03.29 Last Calib.: 2011.03.29
Start Time: 02:30:32 End Time: 09:08:16 Time On Btm: 2011.03.29 @ 04:30:31
Time Off Btm: 2011.03.29 @ 07:04:16

TEST COMMENT: IF: Fair Blow , Built to 7 inches
IS: Bled Off, No Blow back
FF: Fair Blow , Built To 7 1/2 inches
FS: Bled Off, No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.51	102.31	Initial Hydro-static
2	53.63	101.95	Open To Flow (1)
16	119.11	105.00	Shut-in(1)
62	1135.36	106.14	End Shut-in(1)
63	135.32	105.85	Open To Flow (2)
92	163.34	107.13	Shut-in(2)
153	1120.06	108.07	End Shut-in(2)
154	1853.73	108.42	Final Hydro-static

Recovery

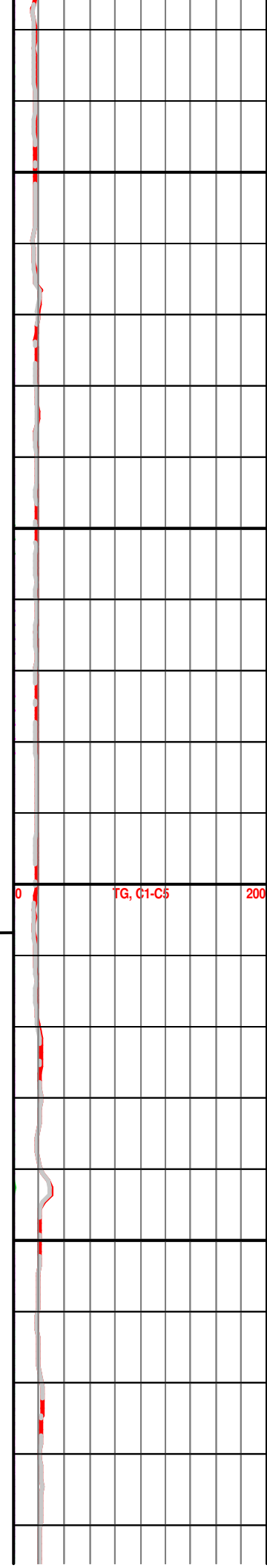
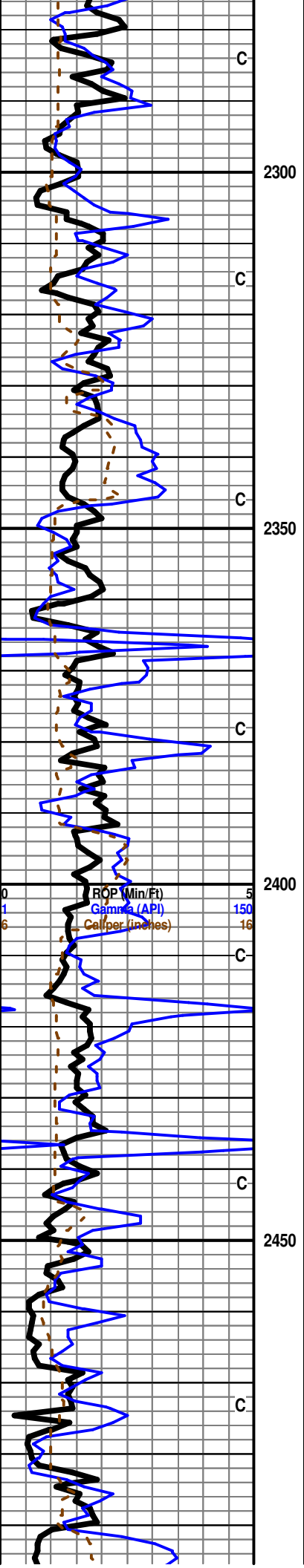
Length (ft)	Description	Volume (bbl)
243.00	GWOCM 5%G 5%W 20%O 70%	1.20
77.00	GOCM 5%G 20%O 75%M	1.08

Gas Rates

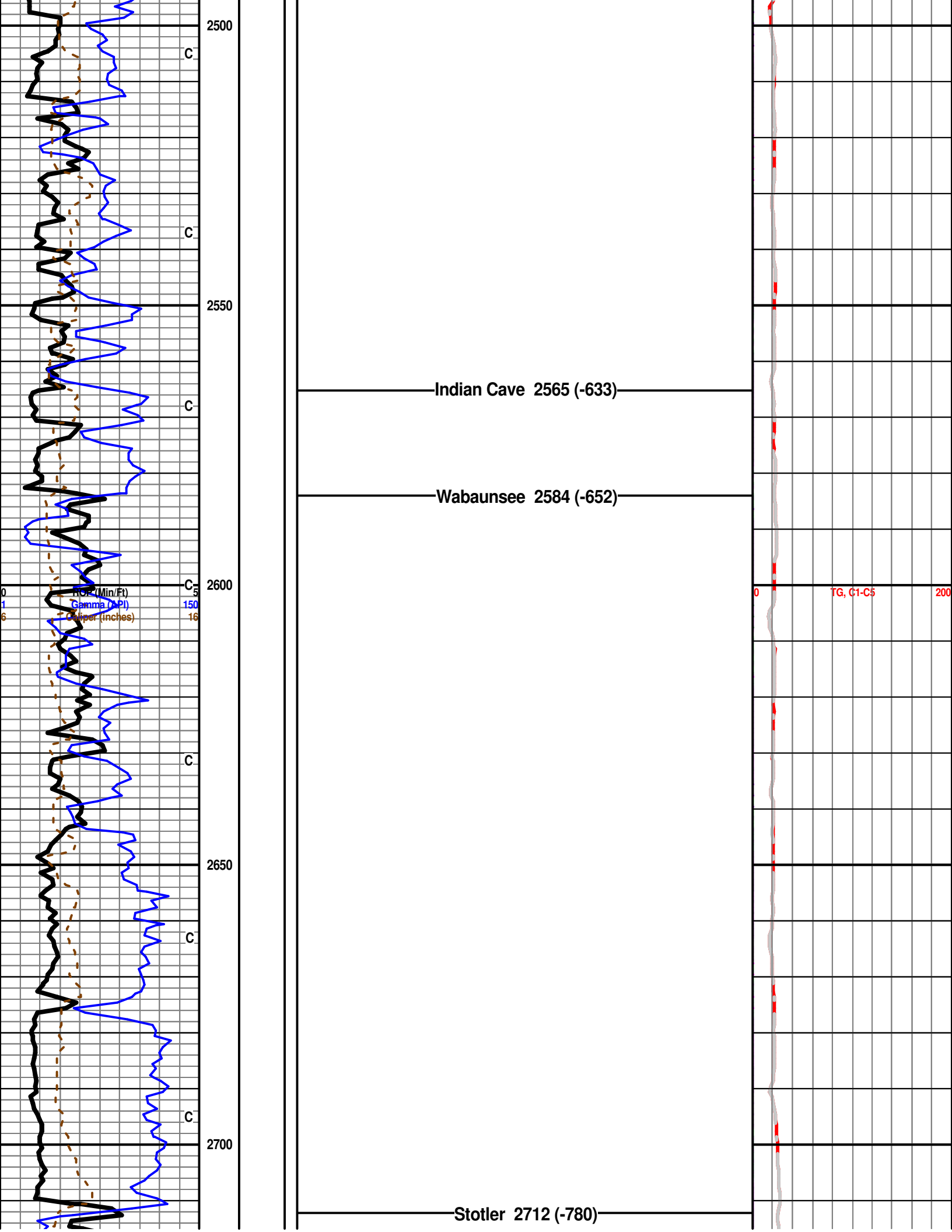
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

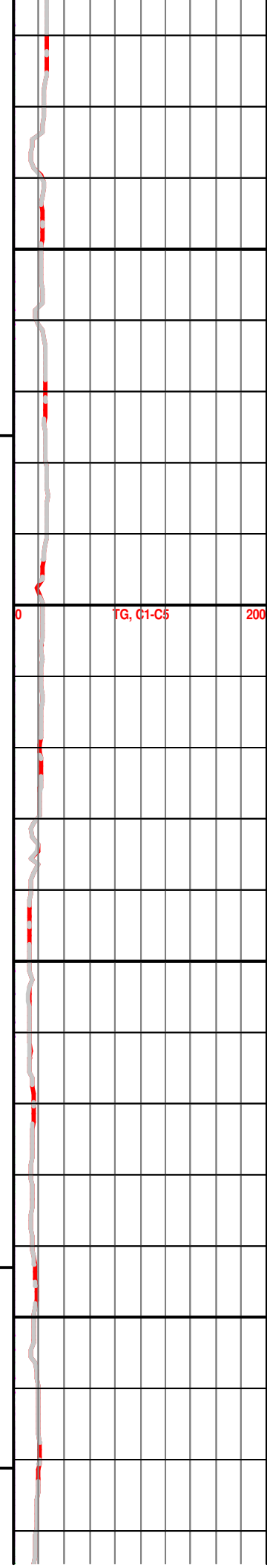
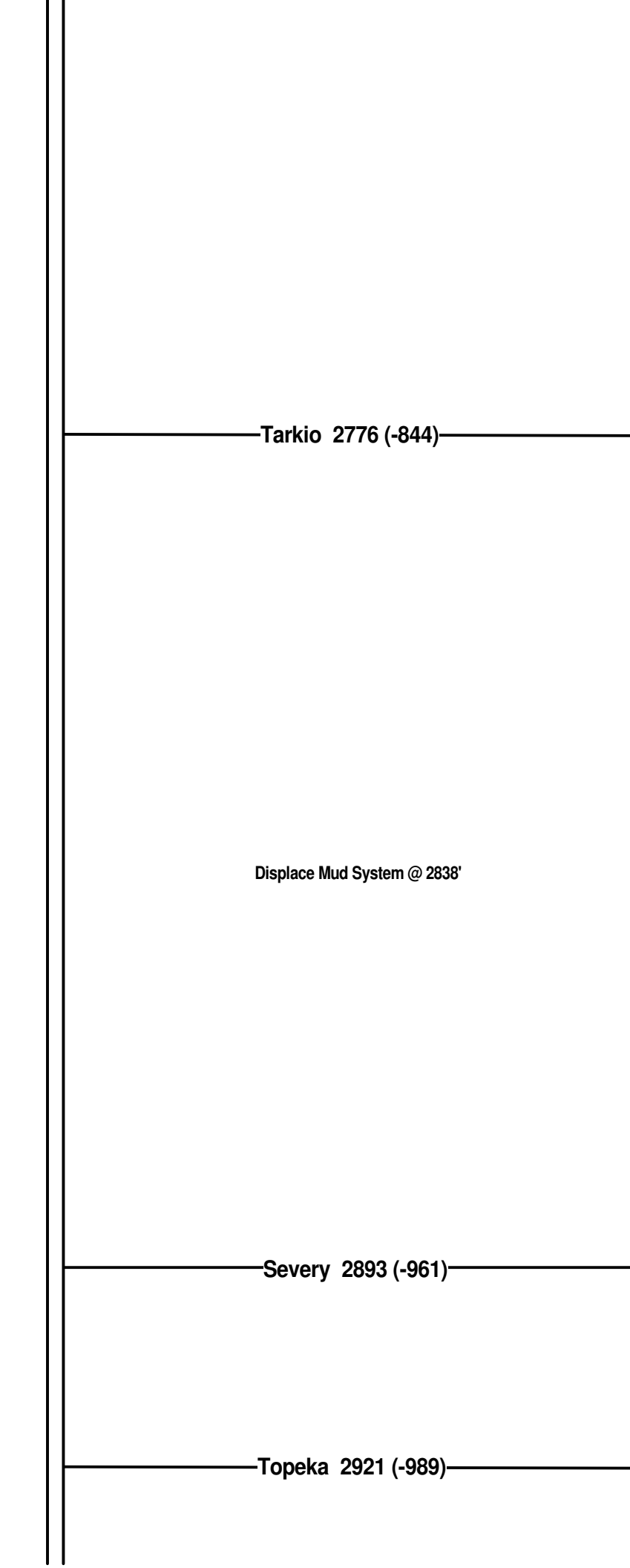
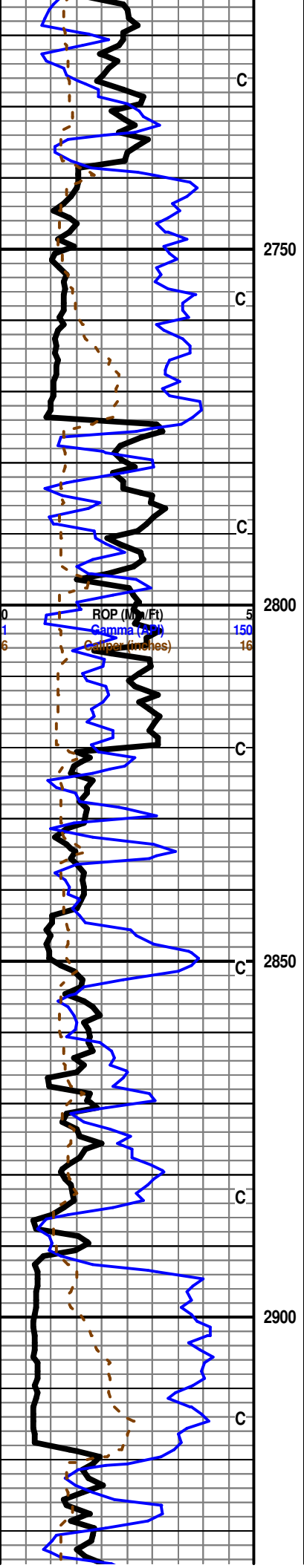
Geologist: Derek W. Patterson

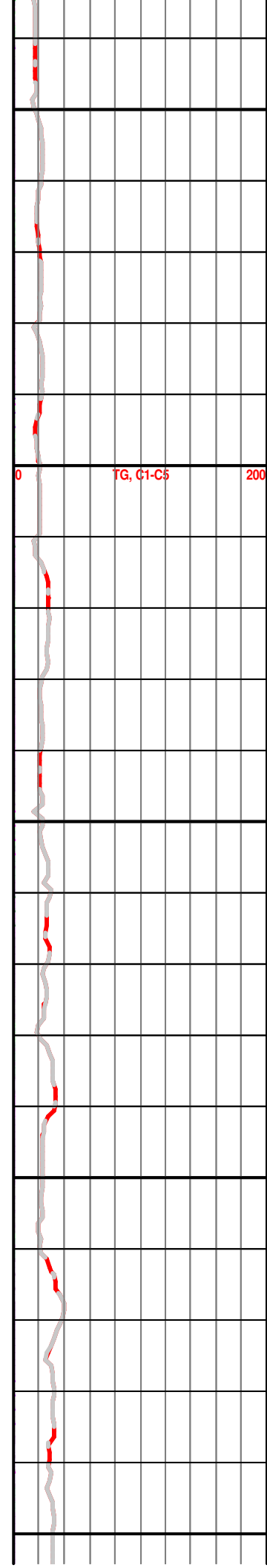
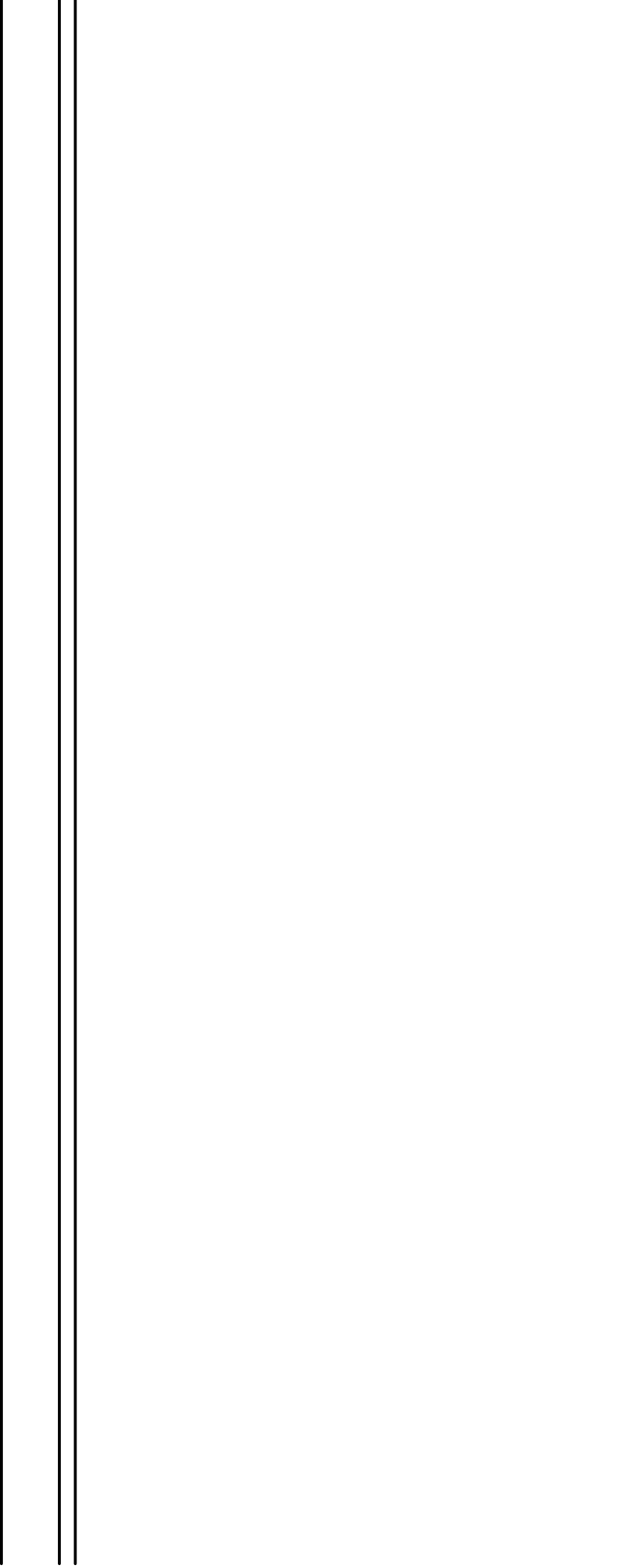
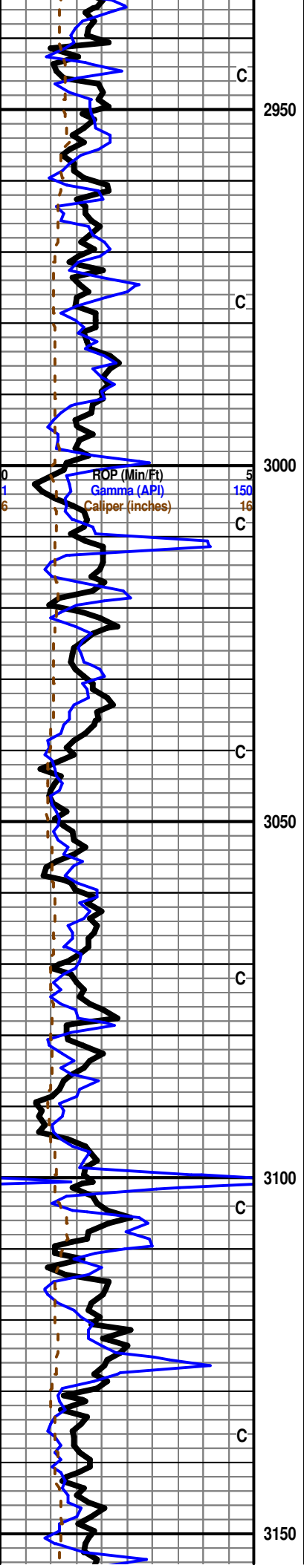
Bloodhound Unit 0259 on location and operational @ 900'. The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Bloodhound Unit 0259. Said DATA was imported and displayed on this Geo Log.

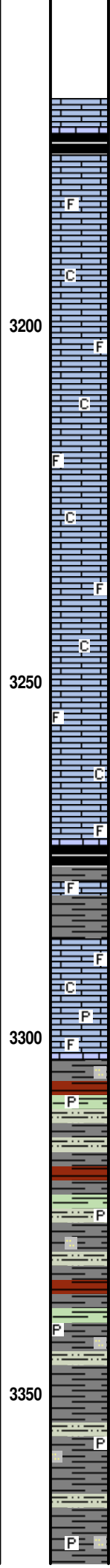
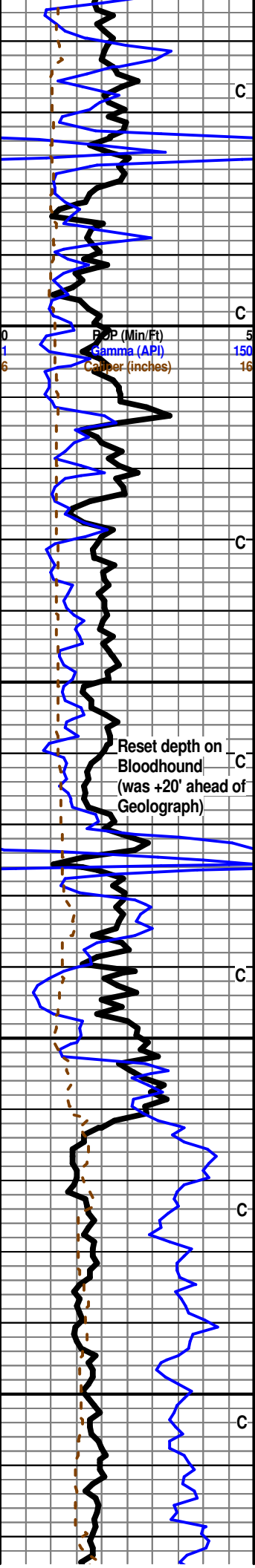


Red Eagle 2407 (-475)









Shale: black, carbonaceous, mostly round and soft, waxy in part.

Limestone: cream lt tan, dense matrix, micro-vfxln, some cryptoxln, heavily fossiliferous in part, poor visible porosity, no shows noted, no fluorescence, with some scattered Chalk in sample.

Start 10' Wet & Dry Samples @ 3210'

Limestone: It cream lt tan, dense matrix, micro-vfxln, fossiliferous, some slightly chalky, poor visible porosity, no shows noted, no fluorescence.

Limestone: It cream lt gray, dense slightly chalky matrix, vf-microxln, fossiliferous in part, scattered fair 2ndary xln, poor visible porosity, few pieces with slight dead black tarry oil staining along edges, no show live oil, no other shows noted, no fluorescence, with moderate Chalk in sample.

Geologist Derek W. Patterson on location, 2200 hrs 3.27.11

Limestone: It cream tan lt brown, dense matrix, vf-microxln, very xln, fossiliferous in part, overall poor visible porosity, decrease in stained pieces above, no shows noted, no fluorescence.

Heebner 3273 (-1341)

Shale: black, carbonaceous, some fissile, no show gas bubbles, with Shale: gray dk gray, mostly blocky, soft to hard, some fissile.

Toronto 3286 (-1354)

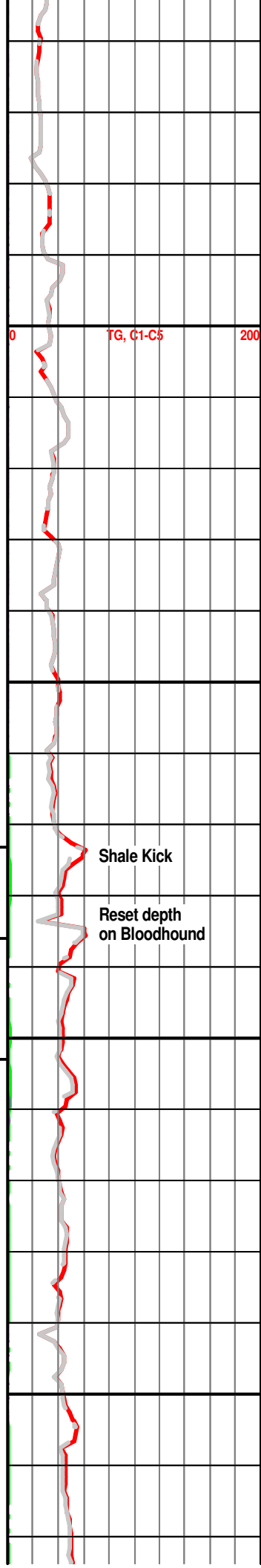
Limestone: off white lt cream, vf-microxln with some cryptoxln, dense slightly chalky matrix, fossiliferous to barren, pyritic in part, fair 2ndary xln in most pieces, overall poor visible porosity, no shows noted, little-no fluorescence.

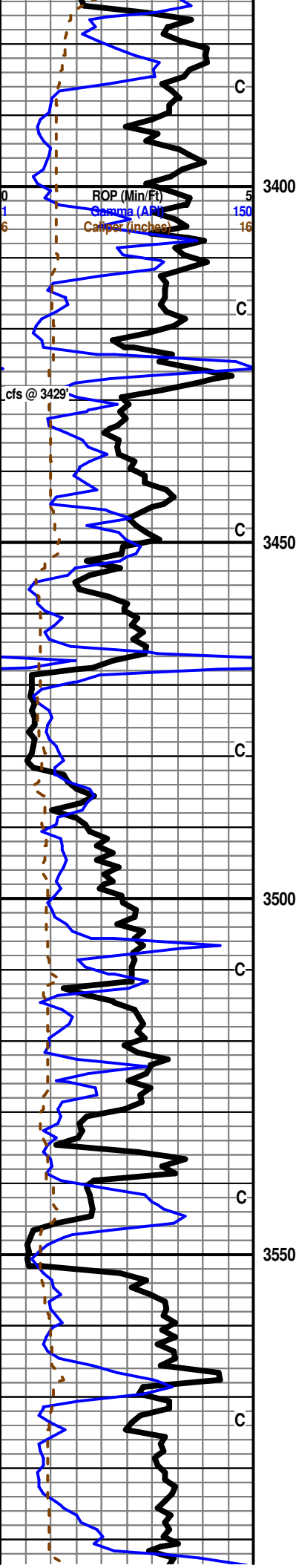
Douglas 3303 (-1371)

Shale: gray dk gray green brick red, mostly blocky, soft to hard, some silty and pyritic, with trace interbedded Siltstone: gray lt gray, vf grained, poor visible porosity, pyritic, no shows noted, and loose Pyrite nodules in sample, sample washes brown-gray.

Shale: gray dk gray green trace brick red, mostly blocky with some rounded, soft to hard, silty to micaceous, some scattered pyritic, with continued interbedded Siltstone as above, no shows noted, and loose Pyrite nodules in sample, sample washes gray-dk gray.

Shale: gray dk gray, round to blocky, mostly soft and waxy, silty to micaceous, some scattered pyritic, with trace interbedded Siltstone: gray lt gray, vf grained, poor visible porosity, pyritic, no shows noted, and trace loose Pyrite nodules in sample, sample washes gray-dk gray.





Brown Lime 3376 (-1444)
Limestone: tan brown lt brown, dense tight matrix, microxln, fossiliferous to heavily fossiliferous, poor visible porosity, no shows noted, no fluorescence.

Lansing 3386 (-1454)
Limestone: It cream off white, dense sub-chalky matrix, vf-microxln, some lithographic non-descript, fossiliferous in part, fair 2ndary xln along edges in most, poor visible porosity, no shows noted, little-no fluorescence.
Shale: gray dk gray dk green, mostly blocky with some rounded, mostly soft, slightly silty and pyritic.

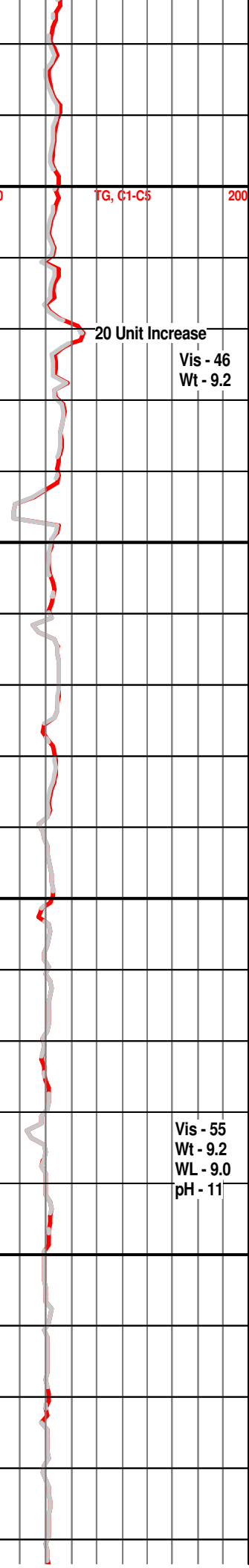
3429' cfs 15"/30" - Limestone: It cream off white lt gray, dense chalky matrix, vf-microxln, fossiliferous, fair amount of 2ndary xln along edges in most pieces, cherty in part, poor interxln porosity with few pieces having fair pinpoint porosity, slight oily sheen across sample, few pieces with slight show lt brown oil from porosity with fair increase upon break/left under lamp, even lt pale yellow fluorescence, streaming milky-white cut fluorescence, moderate odor in sample.
Limestone: It cream lt gray off white, dense sub-chalky matrix, vf-microxln, sub-fossiliferous, overall poor visible porosity with scattered poor pinpoint porosity, no shows noted, little-no fluorescence, with scattered Chalk in sample.
Limestone: dk brown dk gray, dense tight matrix, microxln, heavily fossiliferous to bioclastic with oolitic, some interclast porosity in few pieces, no shows noted, little-no spotty fluorescence.

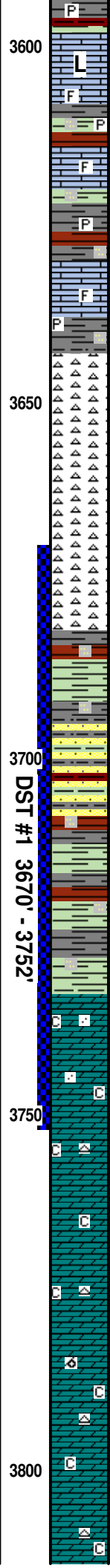
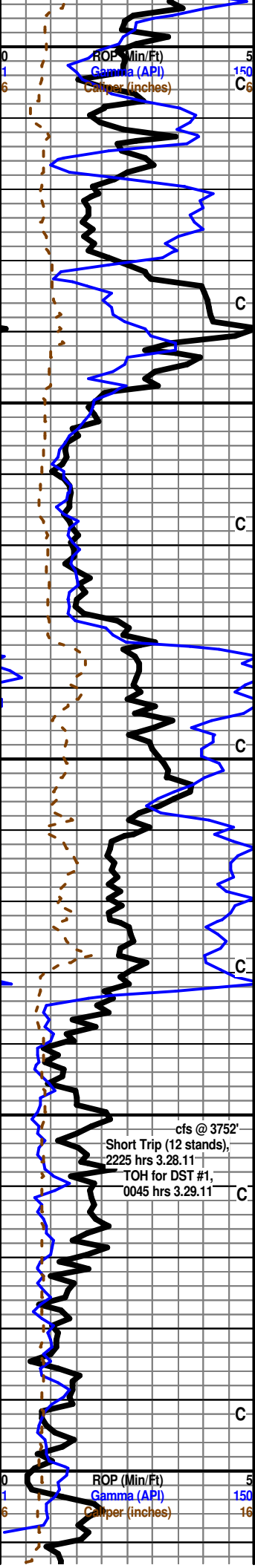
Shale: gray dk gray, mostly blocky and hard, some fissile.
Limestone: It cream tan off white lt gray, slightly chalky dense matrix, micro-vfxln some lithographic, fossiliferous with trace oolitic, fair 2ndary xln in most pieces along edges and between faces, poor visible porosity in most pieces with a few having fair pinpoint porosity, no shows noted, little-no fluorescence, with scattered Chalk in sample.
Limestone: cream lt tan lt brown, dense sub-chalky matrix, micro-vfxln, fossiliferous with oolitic, heavily oomoldic with varying small-large molds, fair-good oomoldic porosity in most pieces, fair 2ndary xln in porosity, no shows noted, even-spotty bright yellow mineral fluorescence, no cut fluorescence.

Limestone: It gray tan cream, dense matrix, microxln, very xln, slightly fossiliferous with scattered oolitic, some poor oomoldic development, overall poor interxln porosity, no shows noted, little-no fluorescence.
Muncie Creek 3506 (-1574)
Shale: gray dk gray, mostly blocky, soft to hard, fissile, some silty and pyritic in part.
Limestone: It cream off white lt gray, microxln, fossiliferous in part with some sub-oolitic, poor oomoldic development with few pieces having poor oomoldic porosity, overall poor visible porosity, no shows noted, spotty bright pale yellow fluorescence in few pieces, no cut fluorescence.
Limestone: It cream cream lt tan, slightly dense chalky matrix, vf-microxln, most heavily oolitic fossiliferous, fair-poor interoolitic porosity, no shows noted, very poor fluorescence, no cut fluorescence, with scattered Chalk in sample.
Shale: gray dk gray dk green, mostly blocky, soft to hard, some fissile.
Limestone: cream lt tan, dense matrix, vf-microxln, fossiliferous with oolitic, very good oomoldic development, fair-good oomoldic porosity, abundant 2ndary xln in porosity, no shows noted, spotty-even bright yellow fluorescence, no cut fluorescence.

Limestone: It cream off white lt tan, dense tight matrix, micro-vfxln, fossiliferous with oolitic, scattered sub-oomoldic, overall poor interxln/oomoldic porosity, no shows noted, little-no fluorescence, with scattered Chalk in sample.
Stark Shale 3566 (-1634)
Shale: gray dk gray dk green, blocky, mostly hard with some softer and waxy, fissile, pyritic in part.
Limestone: cream tan lt cream, dense tight matrix, micro-vfxln, fossiliferous with oolitic, scattered sub-oomoldic, overall poor interxln/oomoldic porosity, abundant 2ndary xln along edges in most pieces, no shows noted, little-no fluorescence.

Hushbuckney 3593 (-1661)





Shale: gray dk gray dk green brick red, blocky and hard, scattered waxy, most fissile, pyritic in part.

Limestone: cream tan, dense tight matrix, microxln, very xln with abundant 2ndary xln along edges, sub-fossiliferous, poor visible porosity, no shows noted, little-no fluorescence.

Base Kansas City 3608 (-1676)

Shale: gray dk gray dk green brick red, mostly blocky and hard, some fissile, scattered silty and pyritic, with Limestone: brown dk brown tan, dense tight matrix, microxln, fossiliferous in part, poor interxln porosity, no shows noted, no fluorescence, sample washes reddish-brown.

Shale: gray dk gray dk green pale green brick red, blocky and hard, fissile, some silty and pyritic in part, sample washes reddish-brown.

Limestone: off white lt cream lt gray, dense tight matrix, micro-vfxln with some cryptoxln, slightly fossiliferous, scattered 2ndary xln along edges, overall poor interxln/visible porosity, no shows noted, little-no fluorescence, with Shale: gray dk gray, blocky and hard, fissile, silty and pyritic in part.

Viola 3643 (-1711)

Chert: off white bone white cream tan yellow, fresh and sharp with some slightly weathered, nearly all barren, poor visible porosity in most pieces, fair amount having dk black dead staining along edges, no show free oil or gas, little-no fluorescence, no cut fluorescence, no odor in sample.

Chert: as above with influx Chert: black dk gray, weathered to slightly tripolitic, fair visible porosity, fair amount dk black dead staining along edges, no show free oil or gas, little-no fluorescence, no cut fluorescence, no odor in sample.

Chert: clear opaque cream tan off white, mostly fresh and sharp, with some weathered black as above, overall poor porosity, few pieces with slight dk black dead staining along edges, no show free oil or gas, little-no fluorescence, no cut fluorescence, no odor in sample.

Simpson Shale 3682 (-1750)

Shale: gray dk gray teal green pale green pale yellow brick red purple, blocky and hard with some softer and waxy, silty in part, sample washes dk reddish-brown.

Simpson Sand 3695 (-1763)

Sandstone (trace): clear quartz grains, sub-rounded to sub-angular, well cemented and sorted, very slight trace free lt brown oil in few pieces with fair increase upon break/left under lamp, little-no fluorescence, poor cut fluorescence, no odor in sample, with abundant Shale as above, sample washes dk reddish-brown.

Shale: teal green purple gray dk gray some pale green brick red, blocky and hard, some softer and waxy, fissile in part, silty, sample washes dk reddish-brown.

Arbuckle 3733 (-1801)

3752' cfs 15"/30"/45" - Dolomite: lt cream lt tan some lt pink, slightly tight chalky matrix, vf-fxln, sub-rhombic/sucrosic to good rhombic development, arenaceous, fair interxln/rhombic porosity in most with some scattered pinpoint porosity in the tighter pieces, fair show brown free oil and gas w/ good-excellent increase upon break/left under lamp, slight golden brown saturated stain in most pieces, even bright yellow fluorescence, streaming milky-white cut fluorescence, strong odor in sample.

Resume Drilling Following DST #1, 1130 hrs 3.29.11

Dolomite: off white lt cream, slightly tight chalky matrix, f-coarsexln, fair-good rhombic development, fair-good rhombic porosity with abundant chalk fill, fair show brown free oil w/ fair-good increase upon break/left under lamp, very slight golden brown saturated stain, even bright lt yellow fluorescence, fair milky-white cut fluorescence, strong odor in sample with scattered Chert: bone white opaque, fresh and sharp, and Chalk.

Dolomite: lt cream lt tan some lt pink, dense tight matrix, vfxln, overall poor xln development with some sub-sucrosic to sub-rhombic, poor interxln porosity, only few pieces noted with slight golden sheen upon break, even bright lt yellow fluorescence, little-no cut fluorescence, moderate odor in sample, with continued Chert and Chalk as above.

Dolomite: lt cream lt gray lt tan, dense tight matrix, vf-fxln, scattered fair sub-rhombic to sub-sucrosic with overall poor xln development, poor interxln porosity in most with some scattered poor oomoldic porosity, few pieces with very slight oil show upon break, even bright pale yellow fluorescence, no cut fluorescence, faint odor in sample, with trace Chert and Chalk as above.

Dolomite: lt cream lt tan off white, slightly dense chalky matrix, vf-fxln, predominately fair rhombic with some scattered sucrosic development, fair interxln porosity in most pieces, no shows noted, even bright pale yellow fluorescence, no cut fluorescence, faint odor in sample, with continued Chert and Chalk.

Dolomite: lt cream off white lt tan, dense matrix, vf-microxln, sub-sucrosic to fair sucrosic development in most pieces with some having little xln development, fair-poor interxln porosity, no shows noted, even bright pale yellow fluorescence, no cut fluorescence, faint odor in sample. with

