



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: _____



1058380

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
_____ 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
-----------------------------------	-----------	---------	-------------	---------------	---------

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Wood 1-7
Doc ID	1058380

All Electric Logs Run

Radiation Guard
Sonic
Compensated Density / Neutron PE
Dual Induction
Micro

Form	ACO1 - Well Completion
Operator	Hess Oil Company
Well Name	Wood 1-7
Doc ID	1058380

Tops

Name	Top	Datum
Heebner	3273	-1341
Toronto	3286	-1354
Douglas	3303	-1371
Brown Lime	3376	-1444
Lansing	3386	-1454
Muncie Creek	3506	-1574
Stark Shale	3566	-1634
Base Kansas City	3608	-1676
Viola	3643	-1711
Simpson Shale	3682	-1750
Simpson Sand	3695	-1763
Arbuckle	3733	-1801
RTD	3840	-1908
LTD	3842	-1910

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/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 27, 2011

Bryan Hess
Hess Oil Company
PO BOX 1009
MCPHERSON, KS 67460-1009

Re: ACO1
API 15-185-23674-00-00
Wood 1-7
NE/4 Sec.07-21S-14W
Stafford 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,
Bryan Hess

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4739

Date	3-24-11	Sec.	7	Twp.	21	Range	14	County	Stafford	State	Ks	On Location		Finish	11:30PM
Lease	Wood	Well No.	-7	Location Great Bend, Ks - W on 156 Hwy to 50 Rd,											
Contractor	Mallard Drilling							Owner S to Curve, W to Curve, 15 Ew, S/S							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4"		T.D.	900'											
Csg.	8 3/8"		Depth	900'											
Tbg. Size	Charge To Hess oil														
Tool	Street														
Cement Left in Csg.	33.00		Shoe Joint	33.00		City _____ State _____									
Meas Line	Displace		55 BLS		The above was done to satisfaction and supervision of owner agent or contractor.										
EQUIPMENT													Cement Amount Ordered 375 sx Common 3%CL		
Pumptrk	5	No.	Cementor	Brandon #3 Doug											
Bulktrk	12	No.	Helper	#10 Cisco											
			Driver	Cory											
			Driver	Rick											
			Driver												
JOB SERVICES & REMARKS													2% Gel Used 525		
Remarks: Cement did NOT Circulate.													Common		
Rat Hole													Gel. 10		
Mouse Hole													Calcium 18		
													Hulls		
													Salt		
													Flowseal		
													CFL-117 or CD110 CAF 38		
													Sand		
42' out 1" pipe on backside													Handling 553		
1 8 3/8" 150 sx Common													Mileage		
3% 2% Gel, shut down.													FLOAT EQUIPMENT		
Cement did Circulate													Guide Shoe		
Let Cement start in cellar 5 min													Centralizer		
stayed full, laydown 1" pipe and													Baskets		
wash up - Rigged down.													AFU Inserts		
													Float Shoe		
													Latch Down		
													1 Baffle plate		
													Pumptrk Charge Long Surface		
													Mileage 13		
													Tax		
													Discount		
													Total Charge		

[Handwritten signature]

JOB LOG

SWIFT Services, Inc.

DATE 3-30-11 PAGE NO. 1

CUSTOMER Hess Oil Co. WELL NO. 1-7 LEASE WOOD JOB TYPE 5 1/2" LONG STRING TICKET NO. 20075

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							ON LOCATION
	0630							START 5 1/2" CASING IN WELL
								TD-3847 SET= 3845
								TP-3845 5 1/2" 15.5
								ST-20
								CENTRALIZERS- 1,2,3,4,5,6
								CMT BSKT-3
	0820							DROP BALL- CIRCULATE
	0850	6	12		✓		400	PUMP 500 GAL MUDFLUSH
	0852	6	20		✓		400	PUMP 20 BBLs KCL- FLUSH
	0900		7-5					PLUG RH (30SKS) MH (20SKS)
	0910	4	24		✓		200	MIX CEMENT- 100SKS @ 15.5 PPG
	0917							WASH OUT PUMP- LINES
	0917							RELEASE LATCH DOWN PLUG
	0920	6 1/2	0		✓			DISPLACE PLUG
	0935	6	91.0				1500	PLUG DOWN - PSE UP LATCH IN PLUG
	0937						OK	RELEASE PSE- HELD
								WASH TRUCK
	1030							JOB COMPLETE
								THANK YOU!
								WAYNE, JEFF, ROB



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

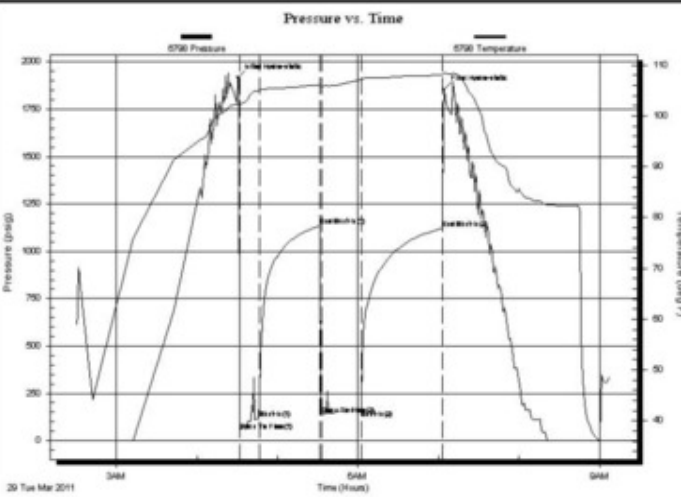
Wood #1-7
7-21S-14W Stafford
Job Ticket: 041399 DST#: 1
Test Start: 2011.03.29 @ 02:30:31

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)

ROCK TYPES

LITHOLOGY

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol
	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Till
	Sltstn
	Shale
	Sandylms
	Lms
	Gry sh
	Dtd
	Dol
	Carb sh
	pipesymbol

	unknown lith
	Red shale

FOSSIL

	Oomoldic
	Fuss
	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Sity

MINERAL

	Sity
--	------

	Sand
	Dol
	Chlorite
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chilt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil

STRINGER

	Red shale
	Sh
	Sandylms
	Lms
	Gryslt
	Grysh
	Dol
	Clystn
	Carbsh
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln

	Sulphur
	Tuff
	Red shale
	Sh
	Sandylms
	Lms
	Gryslt
	Grysh
	Dol
	Clystn
	Carbsh
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OIL SHOW

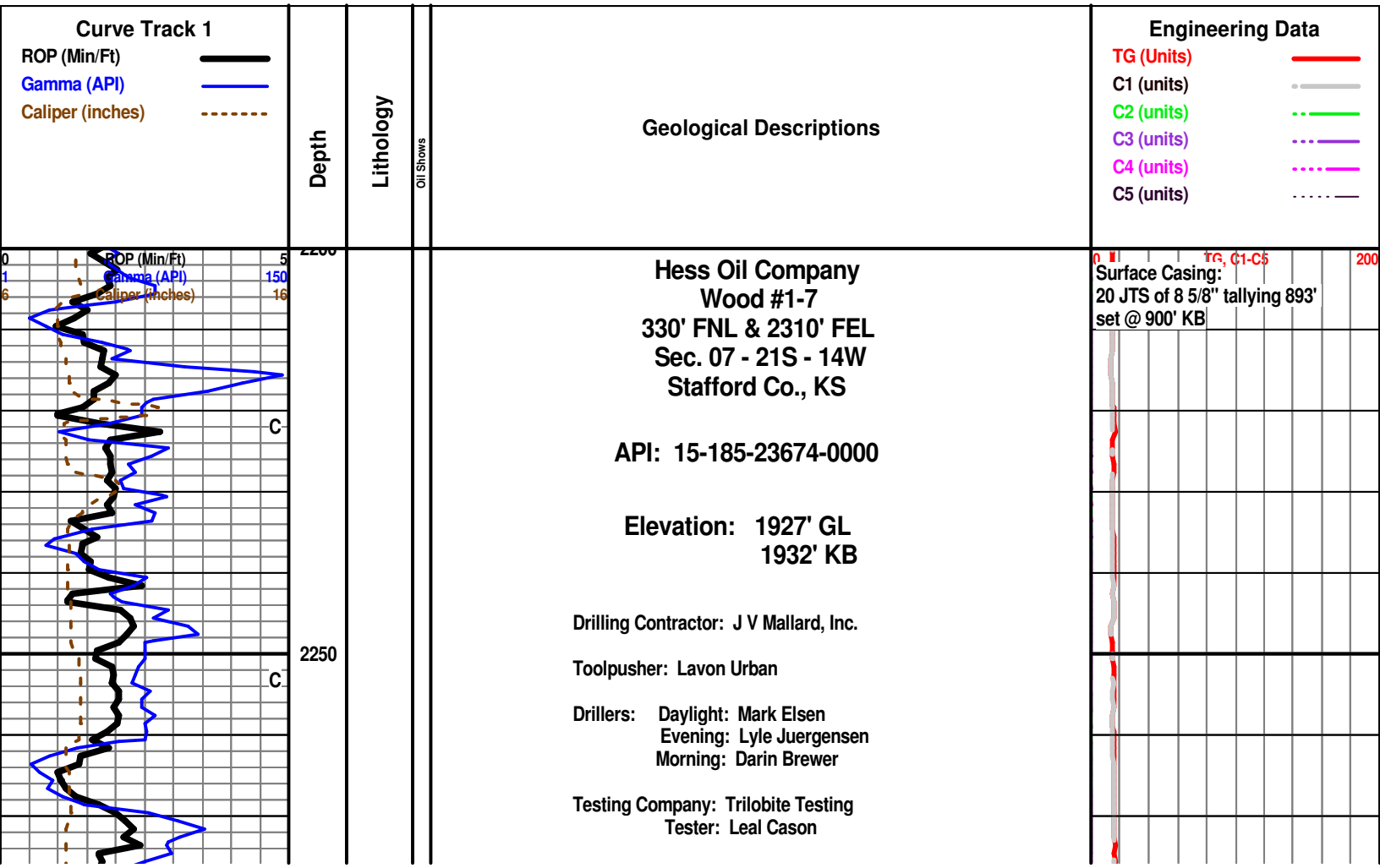
	Gas show
	Good
	Fair
	Poor
	Dead

INTERVAL

	Dst
	Core
	Dst
	Straddle test

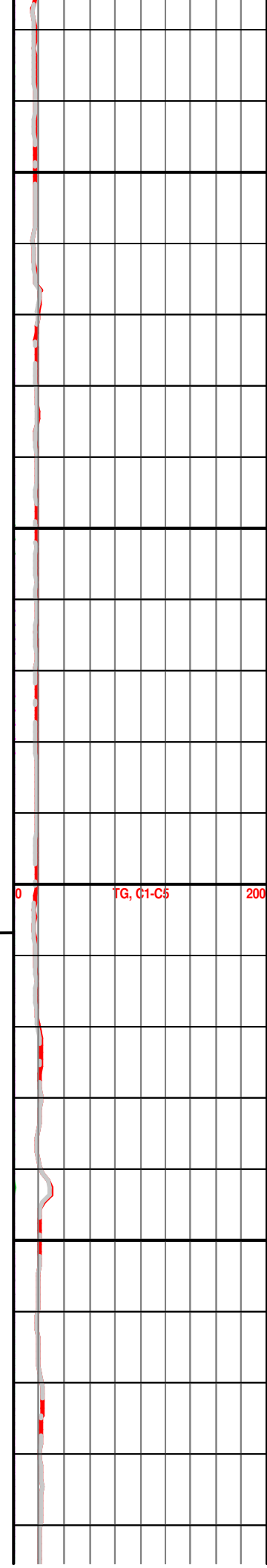
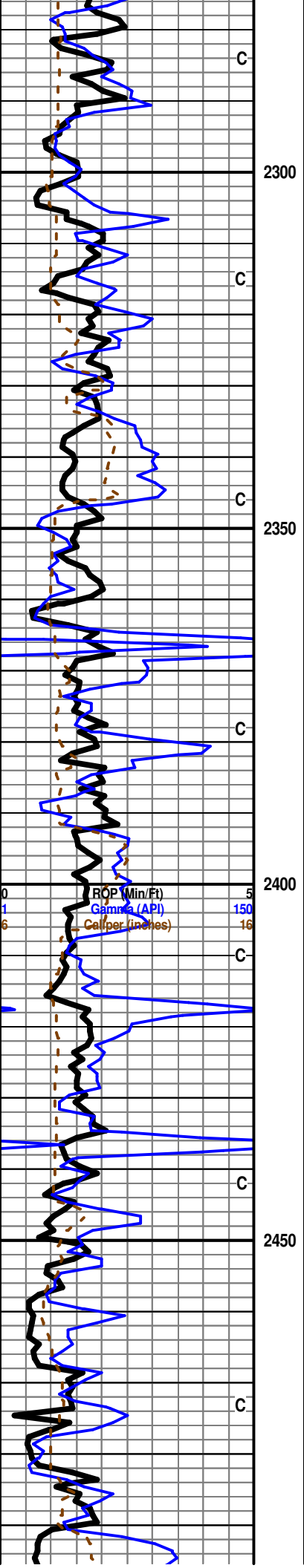
EVENT

	Rft
	Sidewall
	Dst
	Open hole
	Perforations



Geologist: Derek W. Patterson

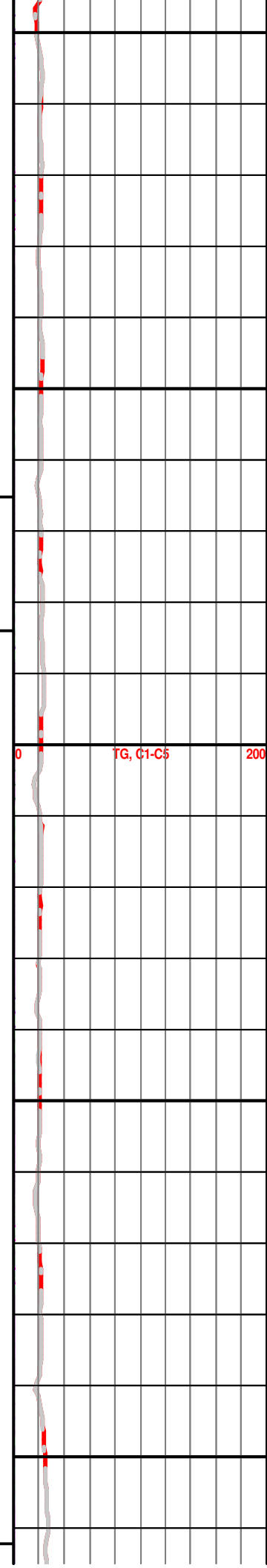
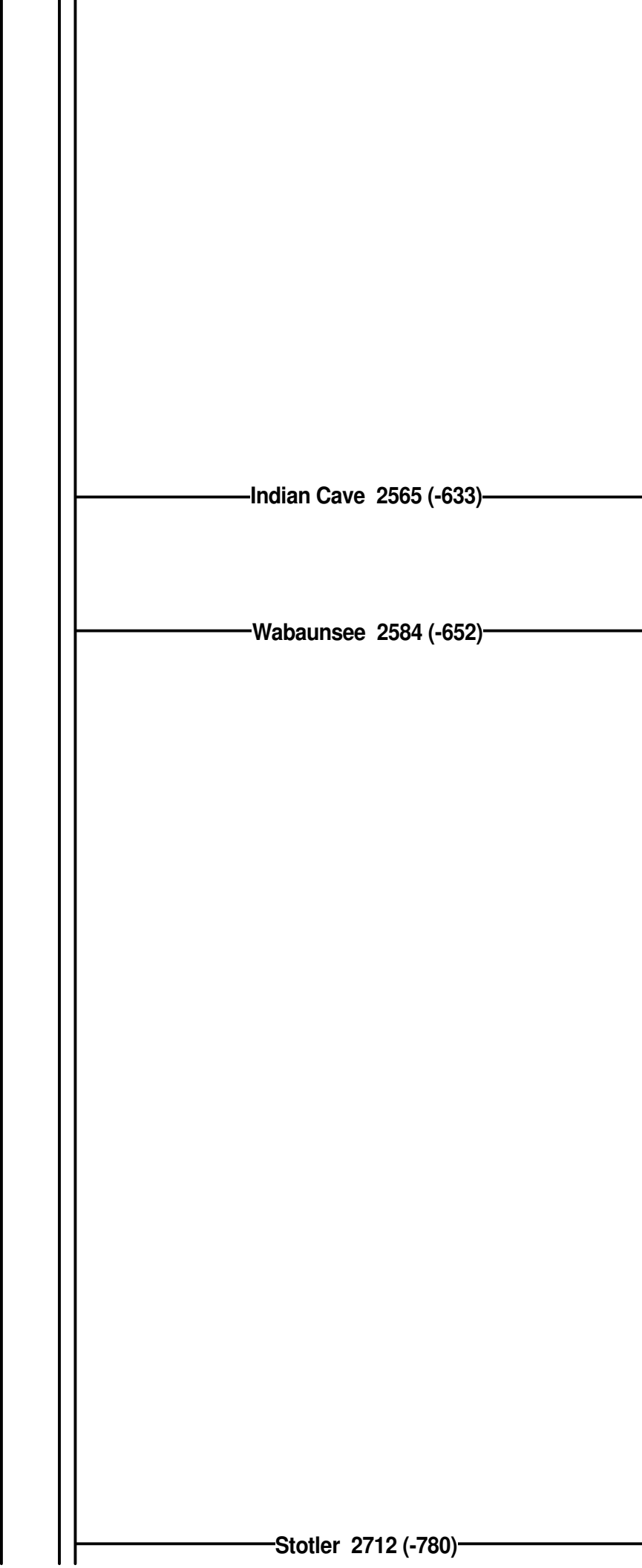
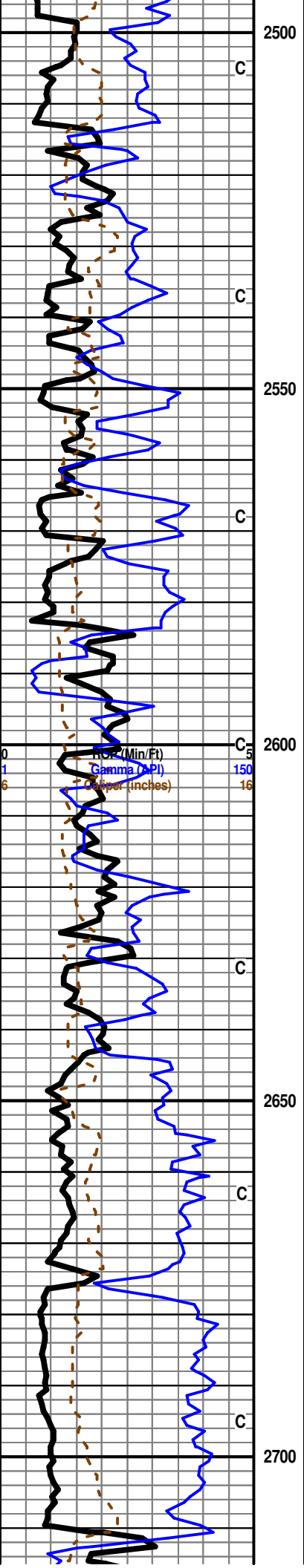
Bloodhound Unit 0259 on location and operational @ 900'. The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Bloodhound Unit 0259. Said DATA was imported and displayed on this Geo Log.

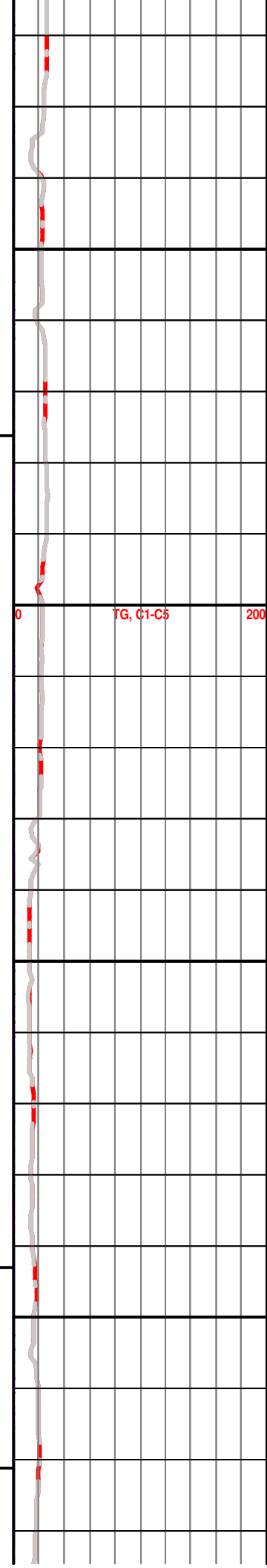
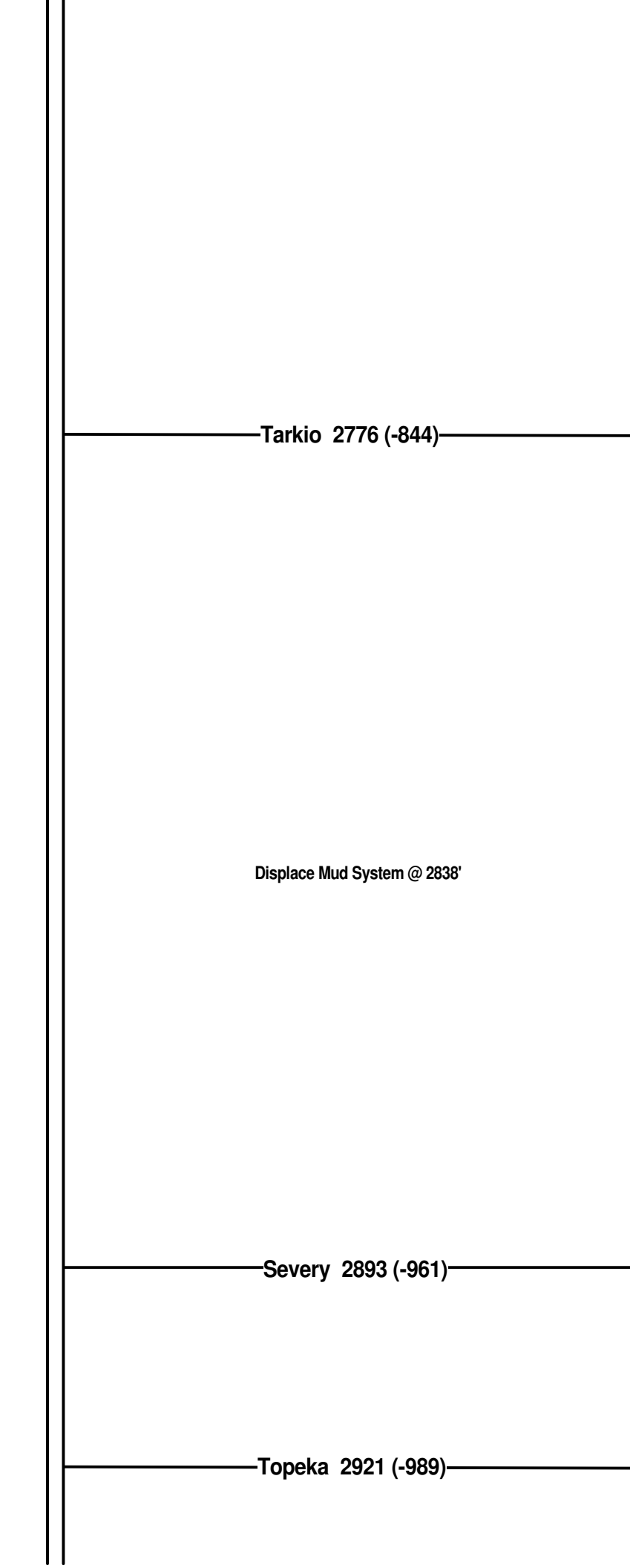
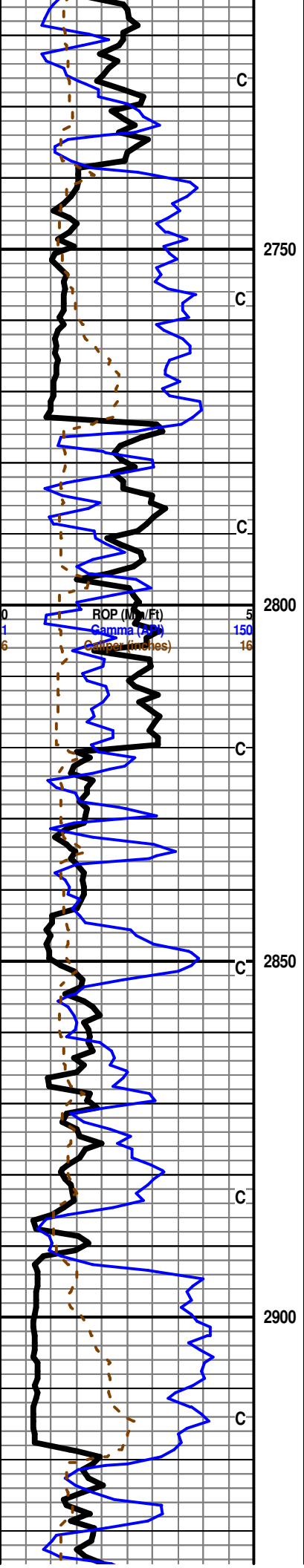


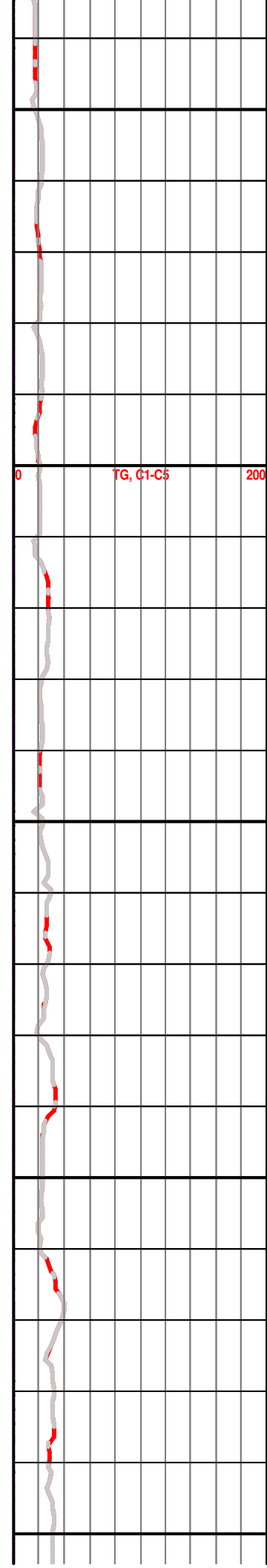
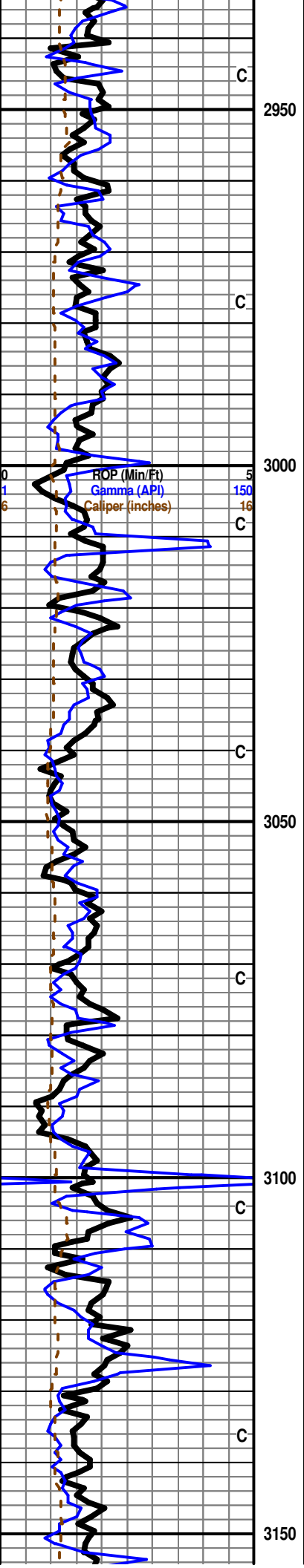
Red Eagle 2407 (-475)

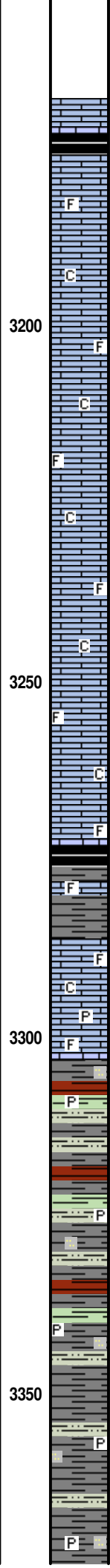
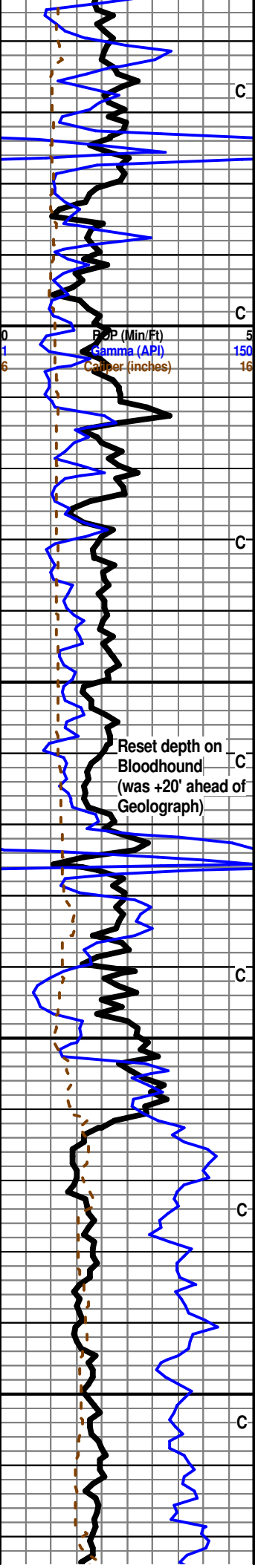
0 ROP (Min/Ft) 5
1 Gamma (API) 150
6 Caliper (inches) 16

0 TG, C1-C5 200









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)

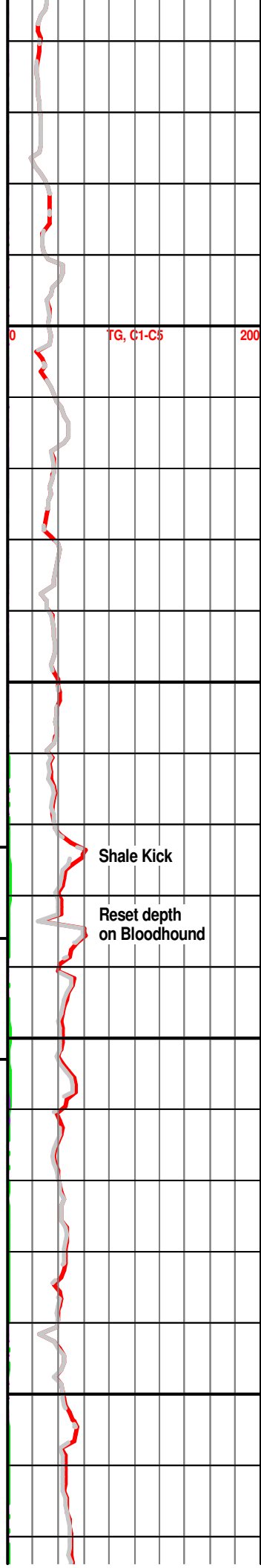
Limestone: off white lt cream, vf-microxln with some cryptoxln, dense slightly chalky matrix, fossiliferous to barren, pyritic in part, fair 2ndary xln in most pieces, overall poor visible porosity, no shows noted, little-no fluorescence.

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.

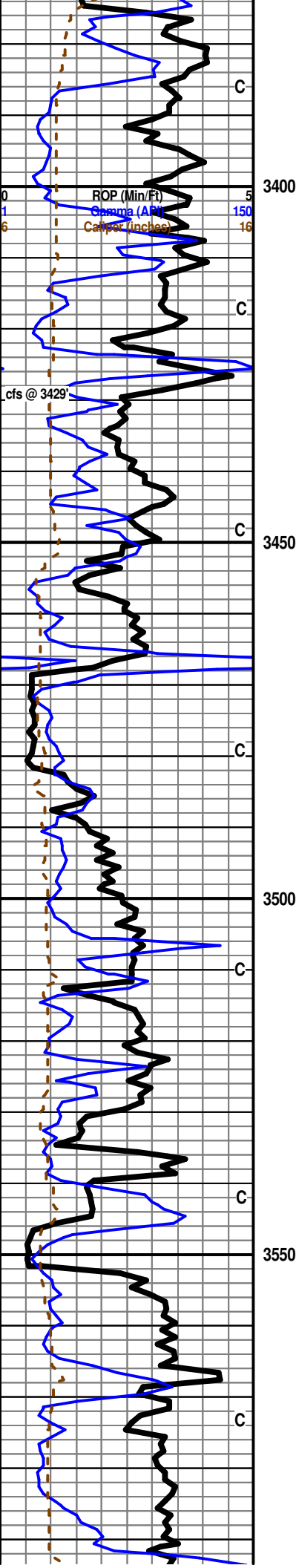
Shale: gray dk gray, round to blocky, mostly soft and waxy, silty to micaceous, some scattered pyritic, with trace interbedded Siltstone: gray lt gray, vf grained, poor visible porosity, pyritic, no shows noted, and trace loose Pyrite nodules in sample, sample washes gray-dk gray.



Shale Kick

Reset depth on Bloodhound

TG, C1-C5



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.

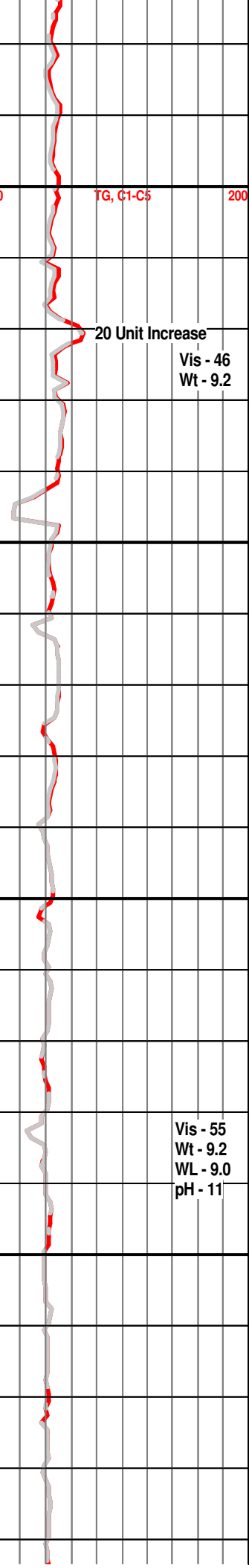
Limestone: cream lt tan, dense matrix, vf-microxln, fossiliferous with oolitic, very good oomoldic development, fair-good oomoldic porosity, abundant 2ndary xln in porosity, no shows noted, spotty-even bright yellow fluorescence, no cut fluorescence.

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)

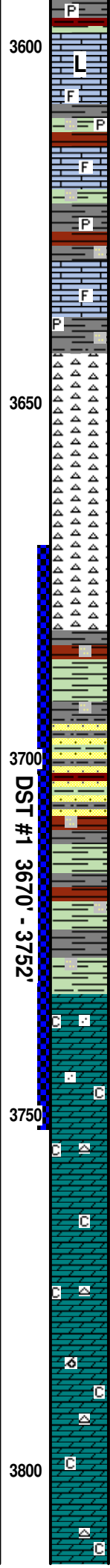
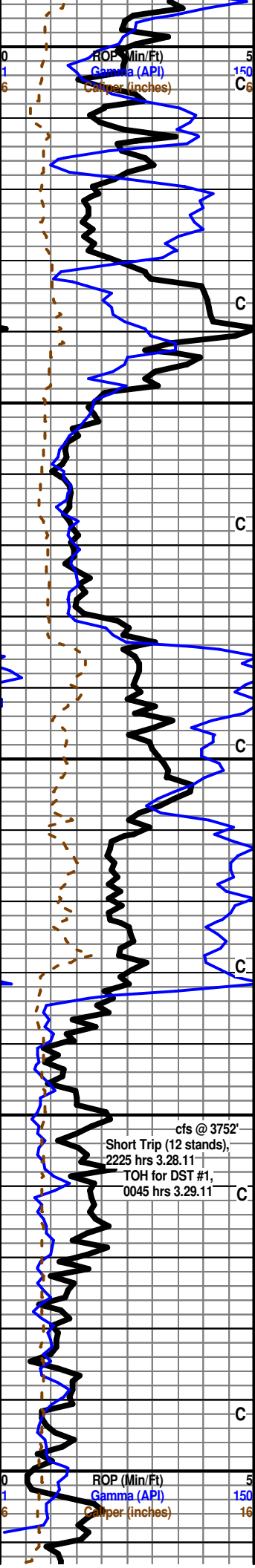


TG, C1-C5 200

20 Unit Increase

Vis - 46
Wt - 9.2

Vis - 55
Wt - 9.2
WL - 9.0
pH - 11



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

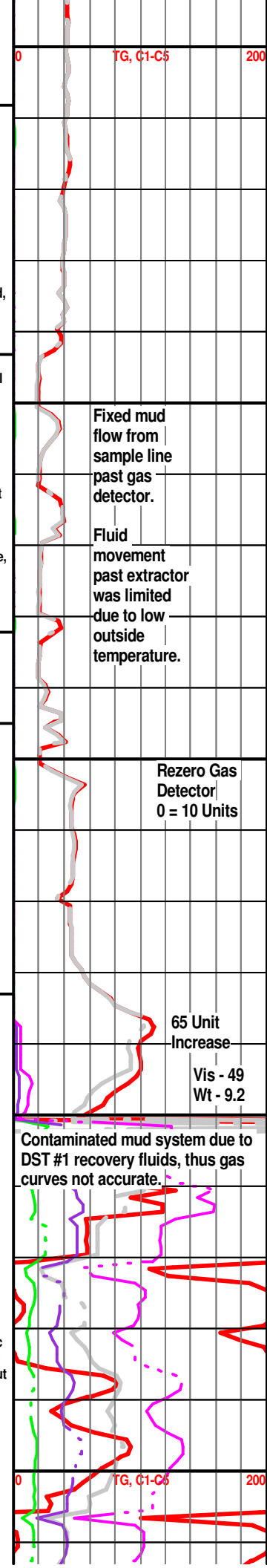
Dolomite: off white lt cream, slightly tight chalky matrix, f-coarsexln, fair-good rhombic development, fair-good rhombic porosity with abundant chalk fill, fair show brown free oil w/ fair-good increase upon break/left under lamp, very slight golden brown saturated stain, even bright lt yellow fluorescence,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

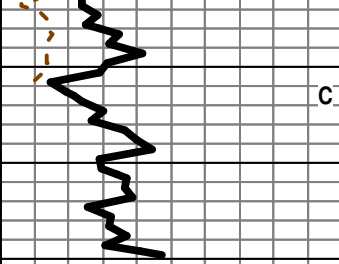
Dolomite: lt cream lt tan some lt pink, dense tight matrix, vfxln, overall poor xln development with some sub-sucrosic to sub-rhombic, poor interxln porosity, only few pieces noted with slight golden sheen upon break, even bright lt yellow fluorescence, little-no cut fluorescence, moderate odor in sample,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

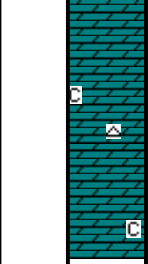
Dolomite: lt cream lt tan off white, slightly dense chalky matrix, vf-fxln, predominately fair rhombic with some scattered sucrosic development, fair interxln porosity in most pieces, no shows noted, even bright pale yellow fluorescence, no cut fluorescence, faint odor in sample, with continued Chert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





TOH for Logging, 1600 hrs 3.29.11

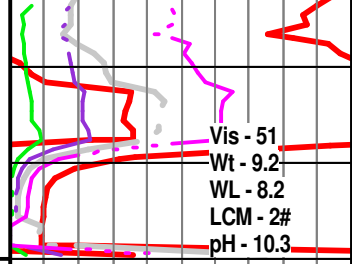


3850

continued Chert and Chalk.

3840' cfs 30" - Dolomite: brown lt brown tan, dense tighter matrix, vf-fxl, fair rhombic development in most, fair-poor rhombic porosity with most spaces filled by 2ndary xln, no shows noted, very poor fluorescence, grading to Dolomite: lt cream, vf-fxl, sucrosic, fair sucrosic porosity, no shows noted, even bright pale yellow fluorescence, no cut fluorescence, no odor in sample, with continued Chert and Chalk.

3840' cfs 60" - Dolomite: lt cream lt tan, vf-fxl, fair sucrosic development, fair sucrosic porosity, no shows noted, even bright pale yellow fluorescence, no cut fluorescence, no odor in sample, with continued Chert and Chalk.



RTD 3840 (-1908)

LTD 3842 (-1910)

Rotary TD @ 3840', 1345 hrs 3.29.11
 Superior Well Services Open Hole Logging TD @ 3842'
 Commence Open Hole Logging Operations, 1800 hrs 3.29.11
 Complete Open Hole Logging Operations, 2230 hrs 3.29.11
 Orders Received to Run 5 1/2" Production Casing

Geologist Derek W. Patterson off location, 2300 hrs 3.29.11

**Respectfully Submitted,
 Derek W. Patterson**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

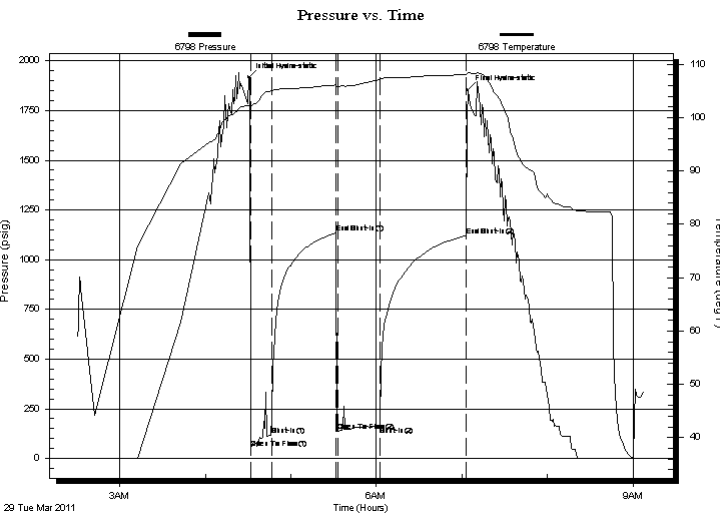
Wood #1-7
7-21S-14W Stafford
Job Ticket: 041399 **DST#: 1**
Test Start: 2011.03.29 @ 02:30:31

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 @ Run Depth: 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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
243.00	GWOCM 5%G 5%W 20%O 70%	1.195
77.00	GOCM 5%G 20%O 75%M	1.080

Total Length: 320.00 ft Total Volume: 2.275 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

