CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

12/23/12

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30931
Name: DAYSTAR PETROLEUM, INC.
Address 1: PO BOX 560
Address 2:
City: EUREKA State: KS Zip: 67045 + 0560
Contact Person: CHARLES SCHMIDT
Phone: (316) 755-3523
CONTRACTOR: License # 5822
Name: VAL ENERGY, INC.
Wellsite Geologist: BRAD RINE
Purchaser: NCRA

Designate Type of Completion:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] 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 #:

8/26/2011	9/17/2011	10/10/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 033-21593-0000
Spot Description:
_ - SW - SW - NE Sec. 5 Twp. 33 S. R. 20 [ ] East [x] West
2,275 Feet from [x] North / [ ] South Line of Section
2,285 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: COMANCHE
Lease Name: BYRAM Well #: 1-5
Field Name: OVEROCKER
Producing Formation: MISSISSIPPIAN
Elevation: Ground: 1886 Kelly Bushing: 1896
Total Depth: 6700 Plug Back Total Depth: 5412
Amount of Surface Pipe Set and Cemented at: 721 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 8000 ppm Fluid volume: 160 bbls
Dewatering method used: HAUL WATER

Location of fluid disposal if hauled offsite:

Operator Name: KBW OIL & GAS
Lease Name: HARMON License #: 5993
Quarter __ Sec. 11 Twp. 33 S. R. 20 [ ] East [x] West
County: COMANCHE Permit #: CD-98[illegible]

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature:
Title: PRESIDENT Date: 12/23/2011

KCC Office Use ONLY

- [x] Letter of Confidentiality Received
  Date: 12/23/11 - 12/23/12
- [ ] Confidential Release Date:
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: NJ Date: 12-28-11

Side Two

Operator Name: DAYSTAR PETROLEUM, INC. Lease Name: BYRAM Well #: 1-5

Sec. 5 Twp. 33 S. R. 20 ☐ East ☑ West County: COMANCHE

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☑ No
(If no, Submit Copy)

List All E. Logs Run:

DIL, N-D LOG, MICRO LOG, SONIC

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

ATTACHED

CASING RECORD ☑ New ☐ 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
CONDUCTOR	30"	20"		45'	CONCRETE	8 YD	2%CC
SURFACE	12 1/4	8 5/8"	24	721	65/35 POZ COMMON	250/100	3% CC/1/4 FLOSEAL
PRODUCTION	7 7/8"	5 1/2"	15.5	5464	ASC	150	5# GILSONITE

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	5200-03	250 GALS 15% MCA	5203
4	5121 - 24	250 GALS 15% MCA	5124

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TUBING RECORD: Size:	Set At:	Packer At:	Liner Run:
2 3/8"	5291	NA	☐ Yes ☑ No

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Date of First, Resumed Production, SWD or ENHR.	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*				
Estimated Production Per 24 Hours	Oil 20 Bbls.	Gas 100 Mcf	Water 15 Bbls.	Gas-Oil Ratio	Gravity 35

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*	5200-03 5121-24

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ALLIED CEMENTING CO., LLC. 040261

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

SERVICE POINT: Medicine Lodge, KS

				9-18	9-19-20	9-19	9-19
DATE 9-19-2011	SEC. 5	TWP. 33S	RANGE 20W	CALLED OUT 11:00 pm	ON LOCATION 2:00 am	JOB START 2:00 am	JOB FINISH 3:00 pm
LEASE Byrom	WELL# 1-5	LOCATION Protection, Ks 1 1/2 W 1 N, 1/2 W, S into				COUNTY Comanche	STATE Ks
OLD OR NEW (Circle one)							

CONTRACTOR VOL #3
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 6700'
CASING SIZE 5 1/2 DEPTH 5468'
~~TUBING SIZE~~ DEPTH
~~DRILL PIPE~~ DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 43'
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 129 bbls of 2% KCL water

OWNER Oxy Star Petroleum

EQUIPMENT

PUMP TRUCK CEMENTER Darin F.
#414-302 HELPER Ron B.
BULK TRUCK
#363-250 DRIVER Ceasar
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 255 sx 60:40:4% Gel
150 sx Class A ASC +5# Kolseal
.5% FL-160

COMMON A	15 sx	@ 16.25	243.75
POZMIX	10 sx	@ 8.50	85.00
GEL	1 sx	@ 21.25	21.25
CHLORIDE		@	
ASC	150 sx	@ 19.00	2850.00
Kolseal	750#	@ .89	742.50
FL-160	70.5#	@ 17.20	1212.60
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	224	@ 2.25	504.00
MILEAGE	55 · 11 / 224		1355.20
		TOTAL	7014.30

REMARKS:

Pipe on bottom & break circulation, pump 3 bbls water, 500 gal mud flush, 8 bbls water, mix 25sx of cement for Rathmore hole, mix 150sx of cement, Shut down, wash pump & lines, Release plug, Start displacement, Lift pressure at 90 bbls, Slow rate to 3 bpm at 120 bbls, bump plug at 129 bbls 800 1500 psi, floats did not hold

SERVICE

DEPTH OF JOB	5468'		
PUMP TRUCK CHARGE			2695.00
EXTRA FOOTAGE		@	
MILEAGE	55	@ 7.00	385.00
MANIFOLD	Head rental	@	200.00
Light Vehicle	55	@ 4.00	220.00
		@	
		TOTAL	3500.00

CHARGE TO: Oxy Star Petroleum
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5 1/2

1-Triplex Shoe	@		812.00
1-Latch Down plug	@		277.00
2-Baskets	@	337.00	674.00
7-Centralizers	@	49.00	343.00
	@		
	TOTAL		2106.00

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 12,620.30
DISCOUNT 20% IF PAID IN 30 DAYS
NET 10,096.24

PRINTED NAME ALLAN WALKER
SIGNATURE

Thank you !!!

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ALLIED CEMENTING CO., LLC. 037790

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

SERVICE POINT: Medicine Lodge KS

DATE 08-27-11	SEC. 05	TWP. 33s	RANGE 20w	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 2:45 PM
LEASE Byram	WELL # 1-5	LOCATION Penteetton KS, 1Kw, 1N, Kw s/s				COUNTY Comanche	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR Val #3
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 725
CASING SIZE 8 5/8 DEPTH 724
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 350# MINIMUM —
MEAS. LINE SHOE JOINT 30'
CEMENT LEFT IN CSG. 30'
PERFS.
DISPLACEMENT 44¼ Bbls Fresh H2O

OWNER Daystar Petro.

EQUIPMENT

PUMP TRUCK CEMENTER D. Felix
#414-302 HELPER D. Felix
BULK TRUCK
#421-252 DRIVER
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 250 sx 65:35:6% gel + 3% cc + ¼# Flosal & ~~250~~ 100 sx class A + 3% cc + 2% gel

COMMON A	100 sx	@ 16.25	1625.00
POZMIX		@	
GEL	2 sx	@ 21.25	42.50
CHLORIDE	11 sx	@ 58.20	640.20
ASC		@	
ALW	250 sx	@ 14.50	3625.00
Flosal	62#	@ 2.70	167.40
		@	
		@	
		@	
		@	
		@	
HANDLING	378	@ 2.25	850.50
MILEAGE	20, 790 / .11		2286.90
		TOTAL	9237.50

REMARKS:

Pipe on Bttm, Break Circ, Pump Spacer, Mix 250 sx Lite weight Cement, Mix 100 sx tail Cement, Stop Pump, Release Plug, Start Disp. w/ Fresh H2O, Bump on Plug, See Steady increase in PSI, Slow Rate, Stop Pump at 44¼ Bbls total Disp., Shut in, Cement Did Circulate

SERVICE

DEPTH OF JOB	725		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE	425	@ .95	380.00
MILEAGE	55	@ 7.00	385.00
MANIFOLD Head rental		@	200.00
Light Vehicle	55	@ 4.00	220.00
		@	
		TOTAL	2310.00

CHARGE TO: Daystar Petro.
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1-TRP		@	112.00
1-Basket		@	478.00
3-centralizers		@ 64.00	192.00
		@	
		@	
		TOTAL	782.00

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 12,329.50
DISCOUNT 20% IF PAID IN 30 DAYS
Net 9863.40

PRINTED NAME Charles Schmidt
SIGNATURE

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Daystar Petroleum, Inc.					Charter Prod "John Herd #1"
KB 1896 Ft.	Section 05 - T33S - R20W				Section 05 - T33S - R20W
Formation:	Sample Top:	Datum:	Log Top:	Datum:	Comparison:
Heebner Sh	4182	(-2296)	4182	(-2296)	.+27
Toronto	4196	(-2300)	4203	(-2307)	.+30
Douglas Sh	Not Called		4284	(-2388)	.+36
Brown Lime	4372	(-2476)	4371	(-2475)	.+40
Lansing	4382	(-2486)	4379	(-2483)	.+43
Lansing "B"	4422	(-2526)	4422	(-2526)	.+42
Lansing "H"	4601	(-2705)	4602	(-2706)	.+46
Stark Sh	4751	(-2855)	4751	(-2855)	.+54
Swope	4758	(-2862)	4759	(-2863)	.+54
LKC "K"	4768	(-2872)	4770	(-2874)	.+54
Hushpuckney Sh	4789	(-2893)	4789	(-2893)	.+57
LKC "L"	4800	(-2904)	4802	(-2906)	.+58
B/Kansas City	4840	(-2944)	4839	(-2943)	.+58
Marmaton	4885	(-2989)	4888	(-2992)	.+54
Pawnee	4972	(-3076)	4973	(-3077)	.+61
Ft. Scott	5011	(-3115)	5010	(-3114)	.+63
Cherokee Sh	5024	(-3128)	5023	(-3127)	.+67
B/Inola-Morrow Sh	5128	(-3232)	5124	(-3228)	.+69
Mississippi (St. Louis)	5146	(-3250)	5143	(-3247)	.+95
Original Total Depth	5265	(-3369)	5266	(-3370)	N/A
Osage	Not Called				* Comparison well did not
Kinderhook	6280	(-4384)	6274	(-4378)	Penetrate below U. Mississippi!
Viola	6307	(-4411)	6292	(-4396)	
Simpson	6525	(-4629)	6520	(-4624)	
Arbuckle	6650	(-4754)	6650	(-4754)	
Final Total Depth	6700	(-4804)	6701	(-4805)	

Well Name:Byram 1-5					
Field Name:	Overocker	S/T/R:	5/33S/20W	County,State:	Comanche,KS
Operator:	Daystar Petroleum	Location Desc:		District:	Comanche
Rig Company:		Rig Name:	Val Energy Rig #3		

Daily Summary Report

DST

DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Int	MCFD	BOPD	BWPD	API	G/O
1	9/3/2011	LKC "L"	4777	4815	95	415	21-20	19-21	*3--60-60-90*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Fair blow - 5 1/2"; 1/2" blow back.				Fair blow; BOB in 50 "; no blow back.						1160 GIP, 20' M				
2	9/5/2011	Pawnee	4895	5030	888	1733	52-36	40-45	*30-60-60-90*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Stg blow; BOB in 4 mins; 3" blow back				Stg blow, BOB in 10"; GTS - 25 ', TSTM						4824 GIP; 64' GCM(2g, 98m)				
3	9/6/2011	Inola	5020	5132	1800	1654	584-477	360-582	*15-60-90-120*	#####	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Stg blow; BOB - 1"; GTS - 5"; gauge 839 MCFD				Stg blow; BOB & GTS immediate. Stable @ 1108 MCFD						4363' GIP; 124' GOCM (28g, 12o, 60m); 186' GMCO(22g, 20m, 58o); 310' GOCM (10g, 8o, 82m); 30' GOCM (5g, 2o, 93m)				
4	9/8/2011	Inola	5022	5149	1680	1549	402-448	356-453	*2--60-90-120*	903	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Str blow; BOB 1"; Would not bleed off on SI				Stg blow; BOB immed; GTS-5'. Stable @ 903						4373' GIP; 186' GOCM 924g, 12o, 64m); 248' GOCM (20g, 20o, 60m); 206' GCM (10g, 90m)				
5	9/9/2011	LKC "H"	4582	4613	1722	1694	58-97	65-213	*2--60-60-90*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Srg blow; BOB 45"; no blow back.				Stg blow; BOB 45"; 2" blow back.						4042 GIP: 124' GOCM (10g, 10o, 80m); 124' GOCM (30g, 20o, 50m); 80' GO (5g, 95o)				
6	9/13/2011	Viola	6315	6350	110	85	22-25	24-24	*30-60-30-60*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Weak surface blow for 30'; no blow back.				Weak surface blow for 30 '; no blow back.						20' mud				
7	9/15/2011	Simpson	6517	6551	526	111	20-22	22-22	*30-60-30-60*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Weak blow; decreasing				No blow						10' Mud				
8	9/18/2011	Arbuckle	6648	6681	2616	2591	25-57	49-303	*3--60-90-90*	0	0	0	0	0
1st Open:				2nd Open:						Recovery:				
Weak blow; 1" in 2"; no blow back				BOB 35" no blow back						550' MCW (90w, 10m)				

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
8/27/2011	721	17	3. Surface	8.625	24	J-55		12.25	721

M. Bradford Rine

Consulting Geologist, Licensed and Certified

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

Well Name: BYRAM #1-5
Location: SW - SW - NE, Section 05 - 33S - 20W
License Number: API: 15-033-21593-00-00 Region: Comanche Co., Kansas
Spud Date: August 26, 2011 Drilling Completed: September 18, 2011
Surface Coordinates: 2275' FNL & 2285' FEL

Bottom Hole Coordinates: Vertical Well Prod. Casing Set @ 5464 Ft.

Ground Elevation (ft): 1886 K.B. Elevation (ft): 1896
Logged Interval (ft): 4000 To: 6700 Total Depth (ft): 6700
Formation: Pennsylvanian (Topeka) to Ordovician (Arbuckle)
Type of Drilling Fluid: Chemical

OPERATOR

Company: DAYSTAR PETROLEUM, INC.
Address: PO Box 360
Valley Center, Kansas 67147-0360

GEOLOGIST

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas License #204

Address: 100 South Main, Suite #415
Wichita, Kansas 67202

Remarks

Original RTD was at 5265 Feet, in the Mlssissippian. After logging, based on structural position, Operator made decision to drill deeper in order to evaluate the Ordovician. Therefore, Final RTD is 6700 Feet in the Arbuckle.

Based on sample observations, gas detector responses, drill stem test results, and electric log evaluation, it was the decision of the Operator, to set production casing for further testing, in the Byram #1-5, on September 18, 2011.

Respectfully submitted,

Casing, Bit Record, and Deviation Surveys

Conductor:
(Big Bucket) Set 45 ft of 20" @ 45' GL. Cement with 4-1/2 yards, 8 sx grout with 2% CC.
Surface:
Ran 17 jts, 8-5/8" 24# surf csg, set @ 721 ft. (Allied) Cem with 250 sx 65/35 Poz, 6% gel 3% CC 1/4# floseal and 100 sx Class A with 3% CC 2% gel. Cement did circulate. Plug down @ 2:45 PM on August 27, 2011.
Production:
Ran 128 joints of 5-1/2", 10.5# casing at 5464 ft. (Allied) cement through tri-plex shoe with 150 sx ASC/5#Kol-seal/sk. Bump plug with 1500#, did not hold. Shut in under pressure.

Bit Record:

Bit #	Size	Make	Type	Depth In	Depth Out	FTG	Hours
1	12-1/4	Q-Logic	PDC	0	724	724	15-1/2
2	7-7/8	Q-Logic	PDC	724	3804	3080	76
3	7-7/8	Q-Logic	Button	3804	5265	1461	68-1/2
4	7-7/8	JZ	Button	5265	6551	1286	1003/4
5	7-7/8	JZ	Button	6551	6700	149	11-1/2

Deviation Surveys:

Deviaton	Depth	Deviation	Depth
1*	724'	1-3/4*	6350'
3/4*	3804'	1-1/4*	6700'
3/4*	4818'		
1*	5132'		

Drilling Information & Daily Drilling Status

Rig: Val Energy, Inc. #3
Pump: National K-500 6 x 15
Drawworks: Unit 14
Collars: 470' 2-1/4" x 6-1/4"

Collars: 4¾ 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Greg Davidson
Mud: Mudco (Brad Bortz)
Gas Detector: MBC Well Logging (Brad Rine)
Drill Stem Tests: Trilobite (Leal Cason 1-5,Mike Slemp 6&8,
Gary Pevetoux 7)
Logs: Log Tech-Log Run #1& #2 (R. Barnhart)
Water: Nearby Stream (clear hard water)
Fishing Tools: Kansas Fishing Tools, unmanned
Company Representatives:
Office: Chuck Schmidt
Field: Chuck Schmidt/surface casing, Allan Walker/production casing.

Daily Drilling Status

Date:	Operations:
08-26-11	MIRT, RU, Spud @ Noon
08-27-11	Drilling surface hole at 620 ft.
08-28-11	Drilling @ 761 ft.
08-29-11	Drilling @ 1815 ft.
08-30-11	Drilling @ 2519 ft.
08-31-11	Drilling @ 3380 ft.
09-01-11	Bit Trip @ 3800 ft.
09-02-11	Drilling @ 4370 ft.
09-03-11	CFS @ 4780 ft.
09-04-11	On bottom @ 4815, after DST#1,prep to drill ahead
09-05-11	On bottom/DST #2 @ 5030 ft.
09-06-11	TIH/DST3 @ 5132 ft.
09-07-11	Down, work on swivel @ 5210 ft. logging late.
09-08-11	Trip in Hole with DST #4 @ 5265'.
09-09-11	Trip in Hole after DST #5 @ 5265'.
09-10-11	Drilling @ 5540 ft.
09-11-11	Drilling @ 5837 ft.
09-12-11	Down for Repairs @ 6055 ft.
09-13-11	Drilling @ 6285 ft.
09-14-11	Trip Out of Hole with DST#6 @ 6350 ft.
09-15-11	Drilling @ 6498 ft.
09-16-11	Tripping Out of Hole with DST#7 @ 6551'. PM Fishing
09-17-11	Drilling @ 6646 ft.
09-18-11	Trip In Hole with DST #8 @ 6700 Ft.
09-19-11	Cementing production casing

Daystar Petroleum, Inc.					Charter Prod "John Herd #1"
KB 1896 Ft.	Section 05 - T33S - R20W				Section 05 - T33S - R20W
Formation:	Sample Top:	Datum:	Log Top:	Datum:	Comparison:

Heebner Sh	4162	(-2296)	4182	(-2296)	+27
Toronto	4190	(-2300)	4203	(-2307)	+30
Douglas Sh	Not Called		4284	(-2388)	+36
Brown Lime	4372	(-2476)	4371	(-2475)	+40
Lansing	4382	(-2486)	4379	(-2483)	+43
Lansing "B"	4422	(-2526)	4422	(-2526)	+42
Lansing "H"	4601	(-2705)	4602	(-2706)	+46
Stark Sh	4751	(-2855)	4751	(-2855)	+54
Swope	4758	(-2862)	4759	(-2863)	+54
LKC "K"	4768	(-2872)	4770	(-2874)	+54
Hushpuckney Sh	4789	(-2893)	4789	(-2893)	+57
LKC "L"	4800	(-2904)	4802	(-2906)	+58
B/Kansas City	4840	(-2944)	4839	(-2943)	+58
Marmaton	4965	(-2969)	4966	(-2992)	+54
Pawnee	4972	(-3076)	4973	(-3077)	+61
Ft. Scott	5011	(-3115)	5010	(-3114)	+63
Cherokee Sh	5024	(-3128)	5023	(-3127)	+67
B/Inola-Morrow Sh	5128	(-3232)	5124	(-3228)	+69
Mississippi (St. Louis)	6146	(3250)	6143	(3247)	+05
Original Total Depth	5265	(-3369)	5266	(-3370)	N/A
Osage	Not Called				* Comparison well did not
Kinderhook	6280	(-4384)	6274	(-4378)	Penetrate below U Mississippi
Viola	6307	(-4411)	6292	(-4396)	
Simpson	6525	(-4629)	6520	(-4624)	
Arbuckle	6650	(-4754)	6650	(-4754)	
Final Total Depth	6700	(-4804)	6701	(-4805)	

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

5-33S-20W Comanche

Job Ticket: 43978 DST#: 1

Test Start: 2011.09.03 @ 15:23:58

GENERAL INFORMATION:

Formation: Lansing "L"
Deviated: No Whipstock ft (KB)
Time Tool Opened: 19:41:43
Time Test Ended: 03:10:28

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

Interval: 4777.00 ft (KB) To 4815.00 ft (KB) (TVD)
Total Depth: 4815.00 ft (KB) (TVD)

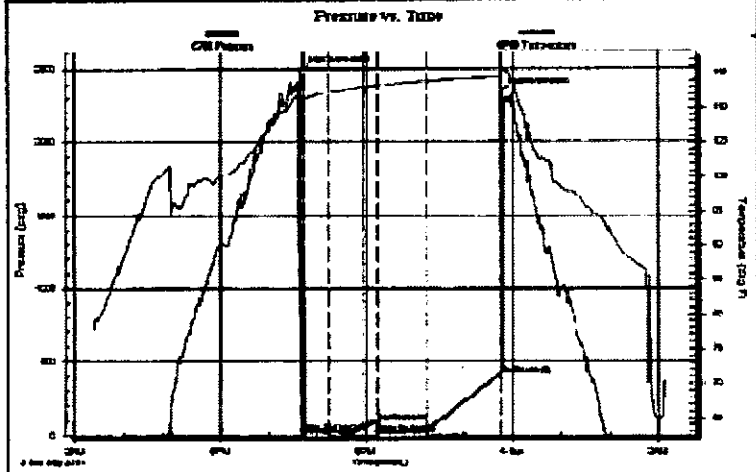
Reference Elevations: 1896.00 ft (KB)
1888.00 ft (CF)

Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft

Serial #: 6798 Inside

Press@RunDepth:	20.58 psig @	4778.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2011.09.03	End Date:	2011.09.04	Last Calib.:	2011.09.04
Start Time:	15:23:58	End Time:	03:10:28	Time On Btm:	2011.09.03 @ 19:39:13
				Time Off Btm:	2011.09.03 @ 23:46:58

TEST COMMENT: IF: Fair Blow, 5 1/2 inches
ISI: 1/2 inch Blow back
FF: Fair Blow , BOB in 30 minutes
FSI: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2491.31	111.61	Initial Hydro-static
3	21.03	111.44	Open To Flow (1)
35	19.39	112.31	Shut-In(1)
96	95.14	113.27	End Shut-In(1)
96	19.16	113.25	Open To Flow (2)
156	20.56	113.86	Shut-In(2)
247	414.67	114.52	End Shut-In(2)
248	2338.64	115.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1160 GIP	0.00
20.00	Mud	0.26

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum Inc

Byram 1-6

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

5-33S-20W Comanche

Job Ticket: 43979 DST#: 2

Test Start: 2011.09.05 @ 09:32:05

GENERAL INFORMATION:

Formation: Marmaton, Pawnee, Ft
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:00:50
Time Test Ended: 13:39:20

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

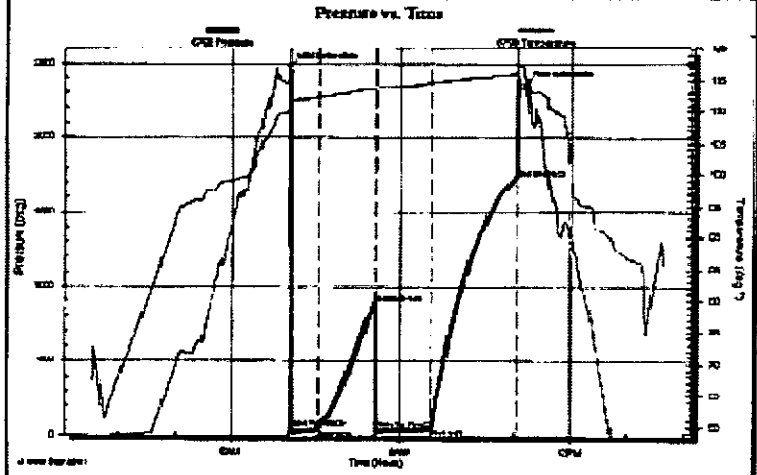
Interval: 4895.00 ft (KB) To 5030.00 ft (KB) (TVD)
Total Depth: 5030.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 Inside
Press @ Run Depth: 45.45 psig @ 4896.00 ft (KB)
Start Date: 2011.09.05 End Date: 2011.09.05
Start Time: 03:32:05 End Time: 13:39:20

Capacity: 6000.00 psig
Last Calib.: 2011.09.05
Time On Btm: 2011.09.05 @ 06:59:35
Time Off Btm: 2011.09.05 @ 11:10:05

TEST COMMENT: IF: Strong Blow, BOB in 4 minutes
ISI: 3 inch Blowback
FF: Strong Blow, BOB in 10 seconds, GTS in 25 minutes, TSTM, Caught Sample
FSI: No Blowback



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2480.94	109.68	Initial Hydro-static
2	51.85	109.51	Open To Flow (1)
34	36.25	112.22	Shut-In(1)
93	686.02	113.54	End Shut-In(1)
94	40.18	113.52	Open To Flow (2)
153	45.45	114.56	Shut-In(2)
243	1733.22	115.94	End Shut-In(2)
251	2357.97	116.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4824 GIP	0.00
64.00	GCM 2%G 98%M	0.90

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

DRILL STEM TEST REPORT

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

5-33S-20W Comanche

Job Ticket: 43980 DST#: 3

Test Start: 2011.09.06 @ 04:32:15

GENERAL INFORMATION:

Formation: Cherokee & Inola
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:35:15
Time Test Ended: 16:53:15

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45

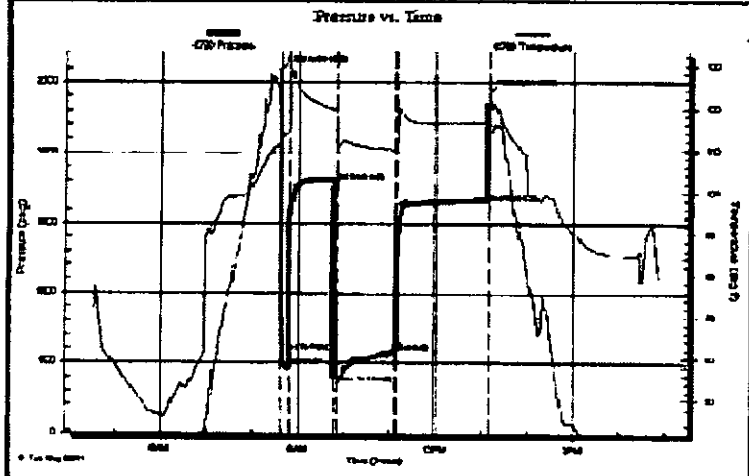
Interval: 5020.00 ft (KB) To 5132.00 ft (KB) (TVD)
Total Depth: 5132.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF 10.00 ft

Serial #: 6798 Inside
Press@RunDepth: 581.88 psig @ 5021.00 ft (KB)
Start Date: 2011.09.06 End Date: 2011.09.06
Start Time: 04:32:16 End Time: 16:53:15

Capacity: 6000.00 psig
Last Calib.: 2011.09.06
Time On Btm: 2011.09.06 @ 08:35:15
Time Off Btm: 2011.09.06 @ 13:10:30

TEST COMMENT: IF: Strong Blow, BOB in 1 minute, GTS in 5 minutes, Caught Sample, and Gauged Gas
IS: Would Not Bleed Off
FF: Strong Blow, BOB & GTS Immediate, Gauged Gas
FF: Would Not Bleed Off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2588.58	111.30	Initial Hydro-static
1	583.78	111.03	Open To Flow (1)
14	477.05	114.07	Shut-In(1)
73	1799.64	116.71	End Shut-In(1)
77	380.45	111.14	Open To Flow (2)
154	581.88	116.06	Shut-In(2)
275	1004.25	116.63	End Shut-In(2)
276	2424.02	117.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4963 GIP	0.00
124.00	GOCM 28%G 12%O 60%M	1.74
186.00	GMCO 22%G 20%M 58%O	2.61
310.00	GOCM 10%G 8%O 82%M	4.35
30.00	5%O 2%O 93%M	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	110.00	839.16
Last Gas Rate	0.50	150.00	1108.99
Max Gas Rate	0.50	175.00	1277.63

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

5 33S 20W Comanche

Job Ticket: 43991 DST#: 4

Test Start: 2011.09.08 @ 04:38:25

GENERAL INFORMATION:

Formation: Cherokee
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:08:25
Time Test Ended: 16:23:40

Test Type: Conventional Straddle
Tester: Leal Cason
Unit No: 45

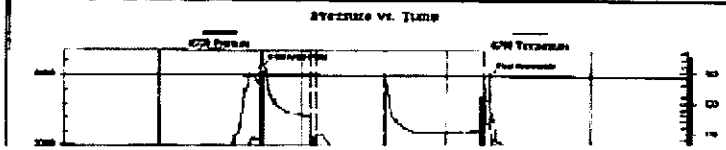
Interval: 5022.00 ft (KB) To 5149.00 ft (KB) (TVD)
Total Depth: 5285.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 Inside
Press@RunDepth: 452.58 psig @ 5023.00 ft (KB)
Start Date: 2011.09.08 End Date: 2011.09.08
Start Time: 04:38:25 End Time: 16:23:40

Capacity: 6000.00 psig
Last Calib.: 2011.09.08
Time On Btm: 2011.09.08 @ 08:06:55
Time Off Btm: 2011.09.08 @ 12:54:10

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
ISI Would Not Bleed Off
FF: Strong Blow , BOB immediate, GTS in 5 minutes, Gauged Gas & Caught Sample
FSI Would Not Bleed Off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2559.98	113.80	Initial Hydro-static
2	402.15	113.42	Open To Flow (1)

4	447.66	113.90	Shut-In(1)
66	1680.38	117.42	End Shut-In(1)
71	355.79	113.97	Open To Flow (2)
156	452.58	109.22	Shut-In(2)
270	1649.11	115.45	End Shut-In(2)
288	2508.26	115.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4373 GIP	0.00
186.00	GOCM 24%G 12%O 64%M	2.61
248.00	GOCM 20%G 20%O 60%M	3.48
206.00	GCM 10%G 90%M	2.89

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)
First Gas Rate	1.00	22.00	1046.46
Last Gas Rate	1.00	17.00	902.71
Max. Gas Rate	1.00	22.00	1046.46

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

5-33S-20W Comanche

Job Ticket: 43982 DST#: 5

Test Start: 2011.09.08 @ 17:13:17

GENERAL INFORMATION:

Formation: LKC "H"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:45:02
Time Test Ended: 04:06:17

Test Type: Conventional Straddle
Tester: Leal Cason
Unit No: 45

Interval: 4582.00 ft (KB) To 4613.00 ft (KB) (TVD)
Total Depth: 5265.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

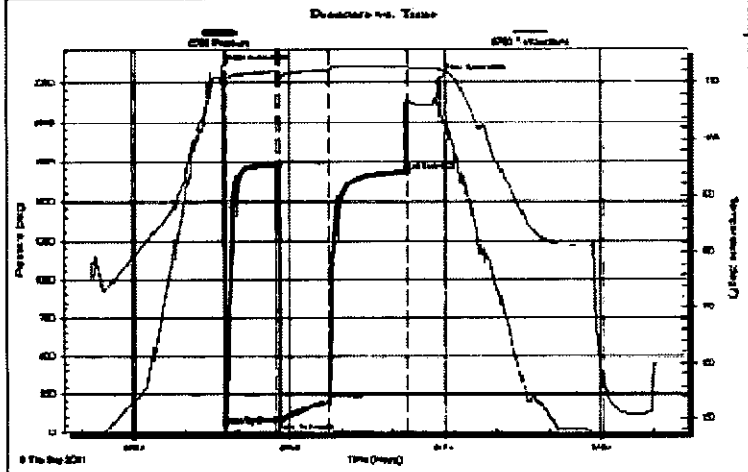
Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 Inside
Press@RunDepth: 212.76 psig @ 4583.00 ft (KB)
Start Date: 2011.09.08 End Date: 2011.09.09

Capacity: 8000.00 psig
Last Calib.: 2011.09.09

Start Date: 17:13:17 End Date: 04:06:17 Time Off Btm: 2011.09.08 @ 23:52:47

TEST COMMENT: IF: Strong Blow , BOB in 45 seconds
ISI: No Blowback
FF: Strong Blow , BOB in 45 seconds
FSI: 2 inch Blowback



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2349.03	110.96	Initial Hydro-static
3	58.26	110.39	Open To Flow (1)
5	96.97	110.49	Shut-In(1)
64	1721.74	112.02	End Shut-In(1)
66	85.02	110.88	Open To Flow (2)
125	212.76	112.33	Shut-In(2)
215	1693.70	112.68	End Shut-In(2)
251	2277.08	112.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4042 GIP	0.00
124.00	GOCM 10%G 10%O 80%M	1.74
124.00	GOCM 30%G 20%O 50%M	1.74
80.00	Gassy Oil 5%G 95%O	1.12

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

5-33S-20W Comanche

Job Ticket: 42265 DST#: 6

Test Start: 2011.09.13 @ 19:35:41

GENERAL INFORMATION:

Formation: Viola
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:55:41
Time Test Ended: 08:25:11

Test Type: Conventional Bottom Hole
Tester: Mike Slemp
Unit No: 53

Interval: 6315.00 ft (KB) To 6350.00 ft (KB) (TVD)
Total Depth: 6350.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

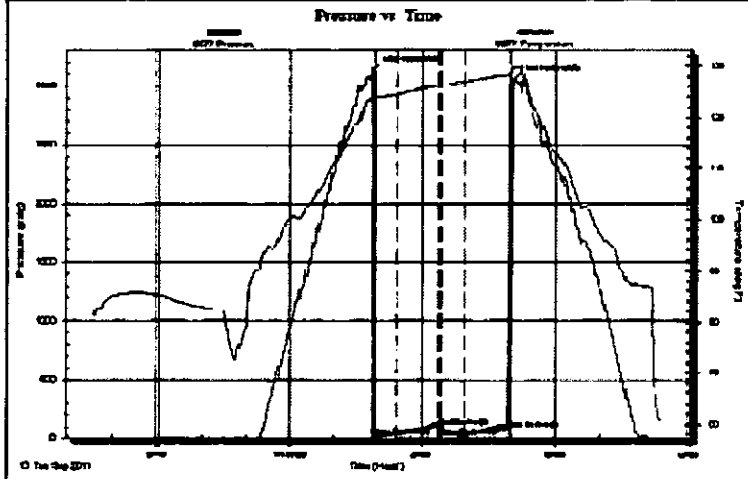
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8677 Inside

Press@RunDepth: 23.83 psig @ 6317.00 ft (KB)
Start Date: 2011.09.13 End Date: 2011.09.14
Start Time: 19:35:41 End Time: 08:25:11

Capacity: 8000.00 psig
Last Calib.: 2011.09.14
Time On Btm: 2011.09.14 @ 01:53:56
Time Off Btm: 2011.09.14 @ 05:02:56

TEST COMMENT: IF- Weak surface blow for 30 min
ISI- No blow back
FF- Weak surface blow for 30 min
FSI- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3136.73	124.49	Initial Hydro-static
2	21.62	124.03	Open To Flow (1)
34	25.11	124.55	Shut-In(1)
90	110.47	126.24	End Shut-In(1)
91	23.65	126.24	Open To Flow (2)
123	23.03	127.00	Shut-In(2)
186	85.48	128.45	End Shut-In(2)
189	3053.20	126.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%mud	0.28

Gas Rates

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

DRILL STEM TEST REPORT

Weatherford Completion Systems

Dayster Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram #1-5

5-33s-20w Comanche, KS

Job Ticket: 43968 DST#: 7

Test Start: 2011.09.15 @ 20:55:28

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 01:03:43
Time Test Ended: 08:22:13

Interval: 6517.00 ft (KB) To 6551.00 ft (KB) (TVD)
Total Depth: 6551.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

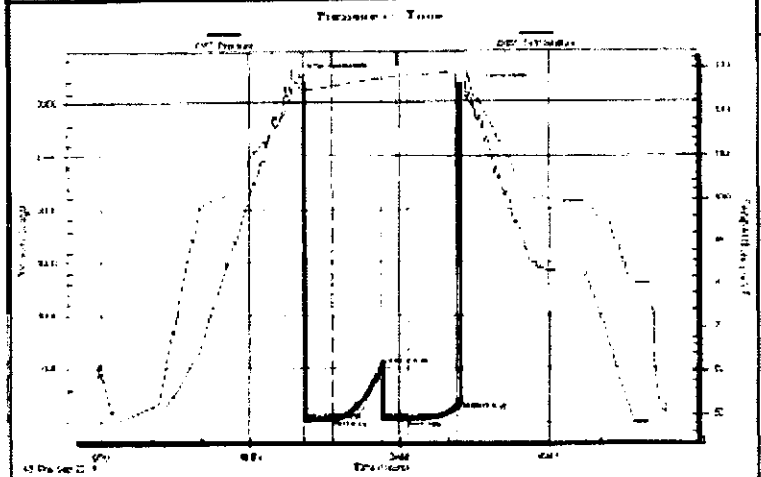
Test Type: Conventional Bottom Hole
Tester: Gary Pevoteaux
Unit No: 56

Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8167 Inside
Press@RunDepth: 22.32 psig @ 6518.00 ft (KB)
Start Date: 2011.09.15 End Date: 2011.09.16
Start Time: 20:55:28 End Time: 08:22:13

Capacity: 8000.00 psig
Last Calib.: 2011.09.16
Time On Btm: 2011.09.16 @ 01:01:43
Time Off Btm: 2011.09.16 @ 04:12:43

TEST COMMENT: IF:Weak blow. 1/4 1/2". Decreasing
ISI:No blow
FF:No blow.
FSI:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3247.82	126.49	Initial Hydro-static
2	20.21	125.68	Open To Flow (1)
39	22.01	126.14	Shut-In(1)
96	525.90	127.77	End Shut-In(1)
96	21.71	127.64	Open To Flow (2)
129	22.32	128.38	Shut-In(2)
190	111.18	129.54	End Shut-In(2)
191	3143.34	129.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drlg.mud	0.14

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Daystar Petroleum Inc

PO Box 360
Valley Center, KS 67147

ATTN: Brad Rine

Byram 1-5

6-33S-20W Comanche

Job Ticket: 42266 DST#: 6

Test Start: 2011.09.18 @ 03:55:40

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:52:10
Time Test Ended: 12:30:40

Test Type: Conventional Straddle
Tester: Mike Slemp
Unit No: 53

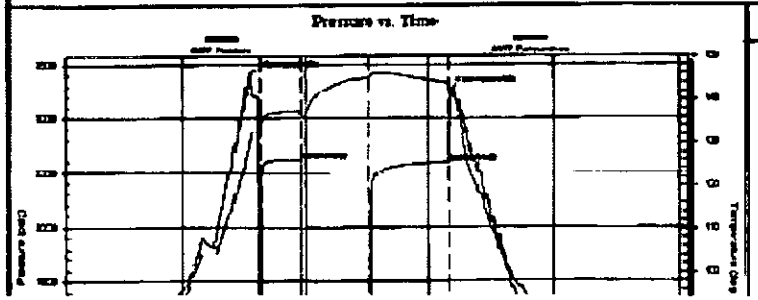
Interval: 6648.00 ft (KB) To 6681.00 ft (KB) (TVD)
Total Depth: 6700.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1896.00 ft (KB)
1886.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8677 Inside
Press@RunDepth: 303.36 psig @ 6649.00 ft (KB)
Start Date: 2011.09.18 End Date: 2011.09.18
Start Time: 03:55:40 End Time: 12:30:40

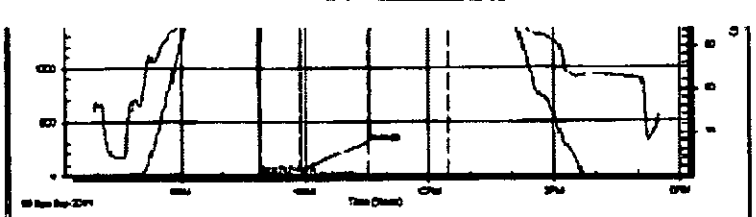
Capacity: 8000.00 psig
Last Calib.: 2011.09.18
Time On Btm: 2011.09.18 @ 07:41:40
Time Off Btm: 2011.09.18 @ 12:30:25

TEST COMMENT: IF- Weak blow 1 inch in 2 min
ISI- No blow back
FF-BOB in 35 min
FSI- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3410.40	130.60	Initial Hydro-static
11	25.35	131.32	Open To Flow (1)
13	57.47	133.01	Shut-In(1)
70	2615.51	137.13	End Shut In(1)
72	49.42	136.34	Open To Flow (2)
170	303.36	145.19	Shut-In(2)
287	2590.97	143.97	End Shut-In(2)



289	3253.48	142.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (Bbl)
550.00	mcw 60% water 10% mud	7.17

Gas Rates

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

ROCK TYPES

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

ACCESSORIES

MINERAL

- 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

FOSSIL

- Algae
- Amph
- Belm
- Biocist
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

LITHOLOGY
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till

MINERAL
- 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

FOSSIL
- Algae
- Amph
- Belm
- Biocist
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

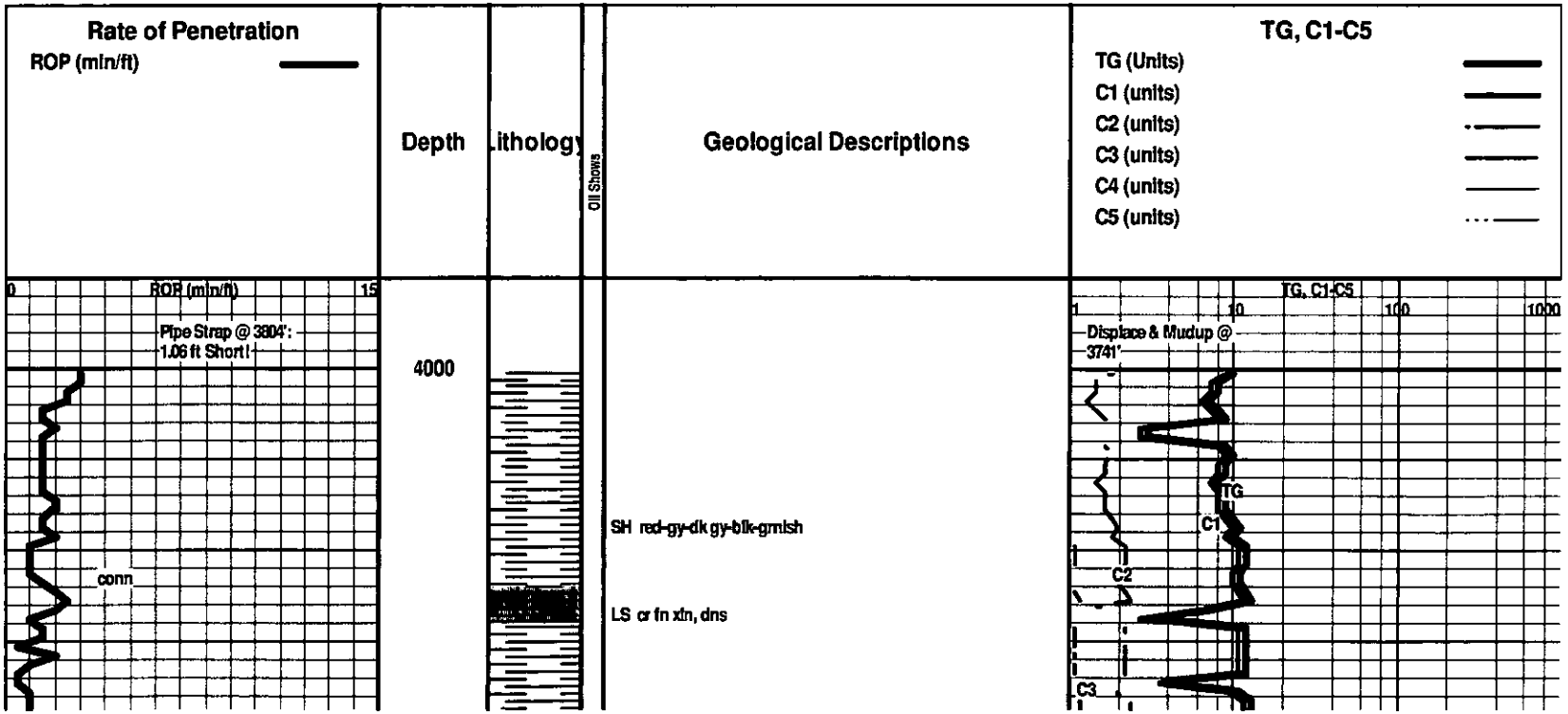
SORTING
- Well
- Moderate
- Poor

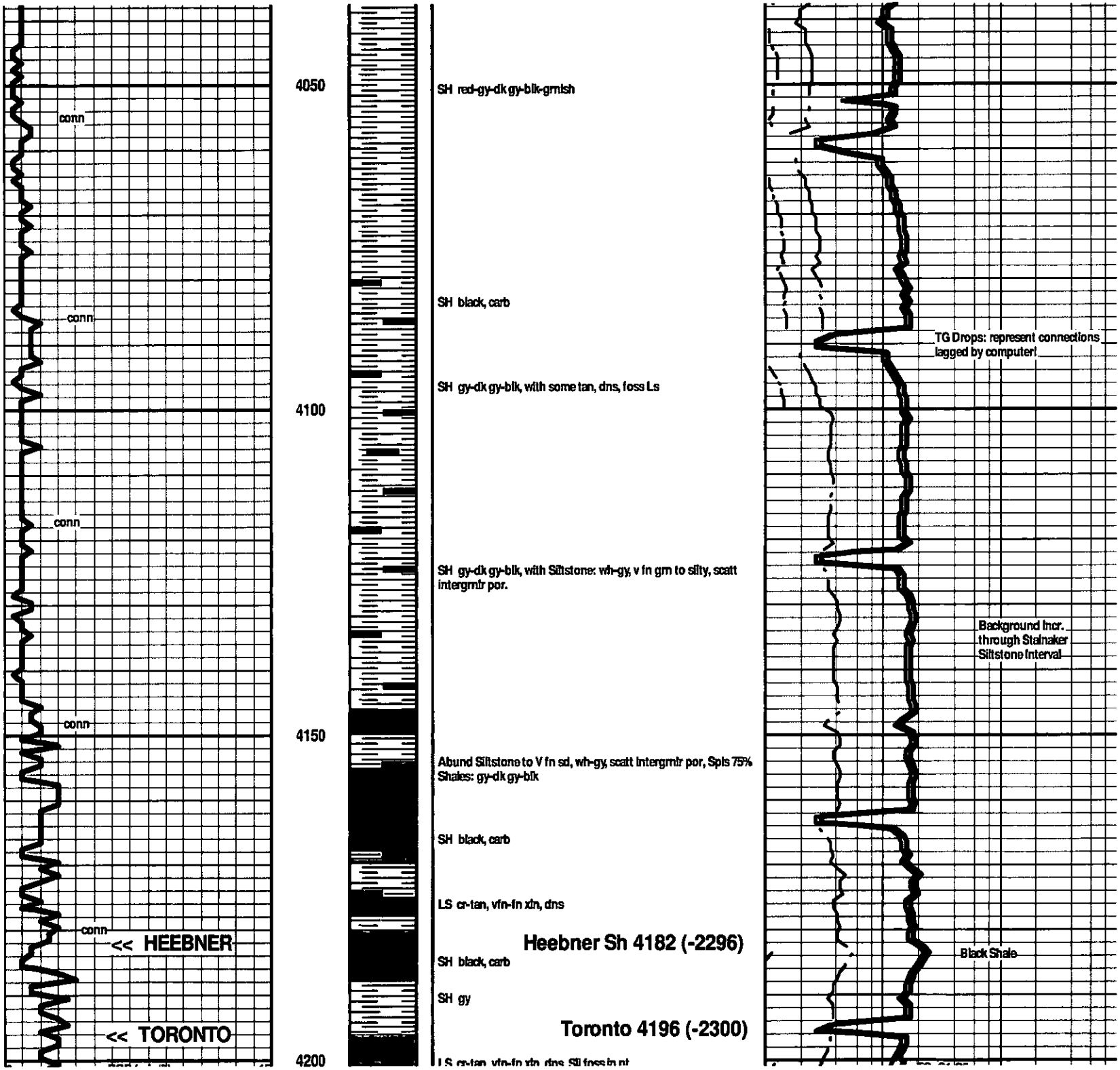
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

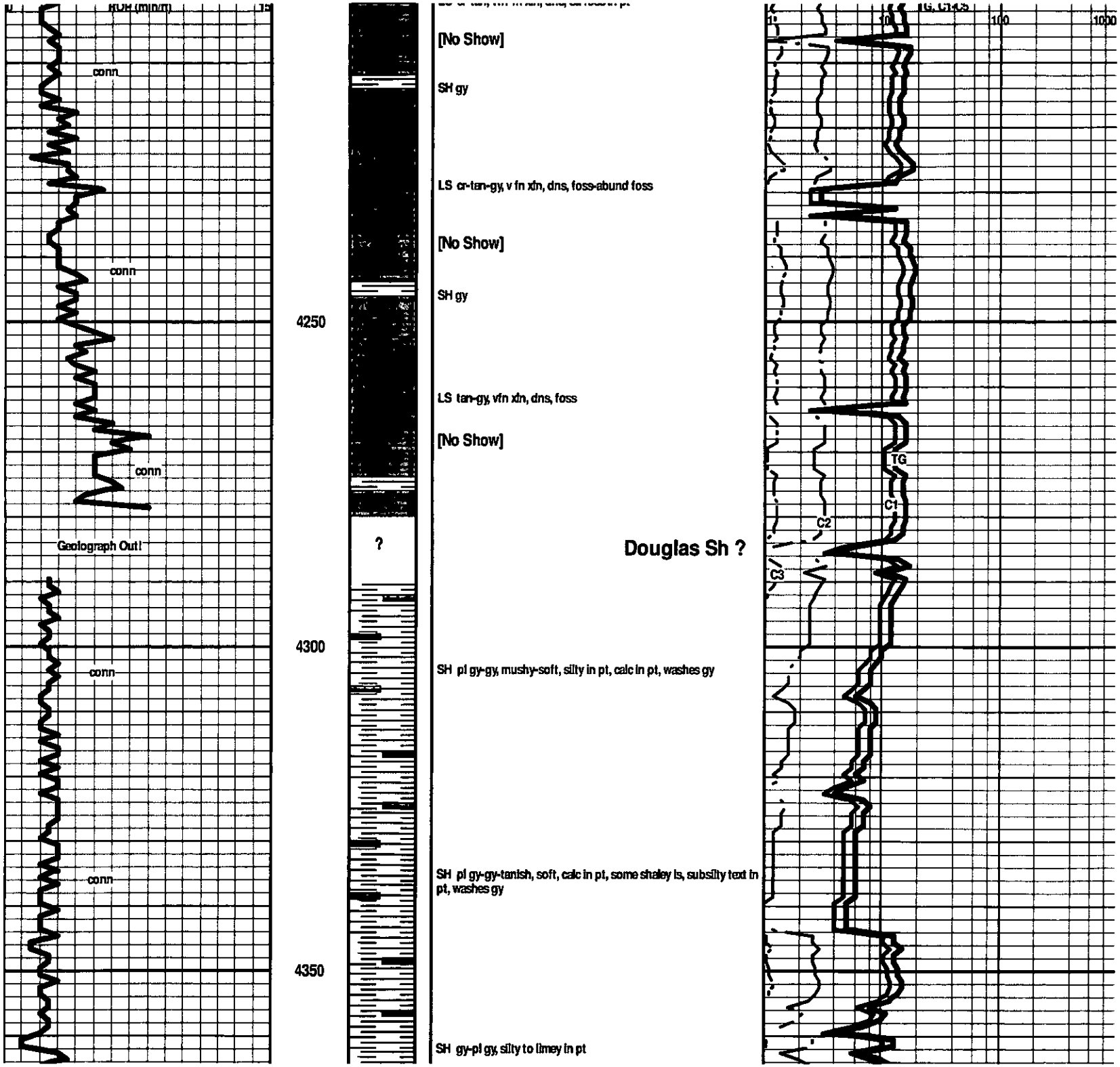
OIL SHOW
- Even
- Spotted
- Ques
- Dead

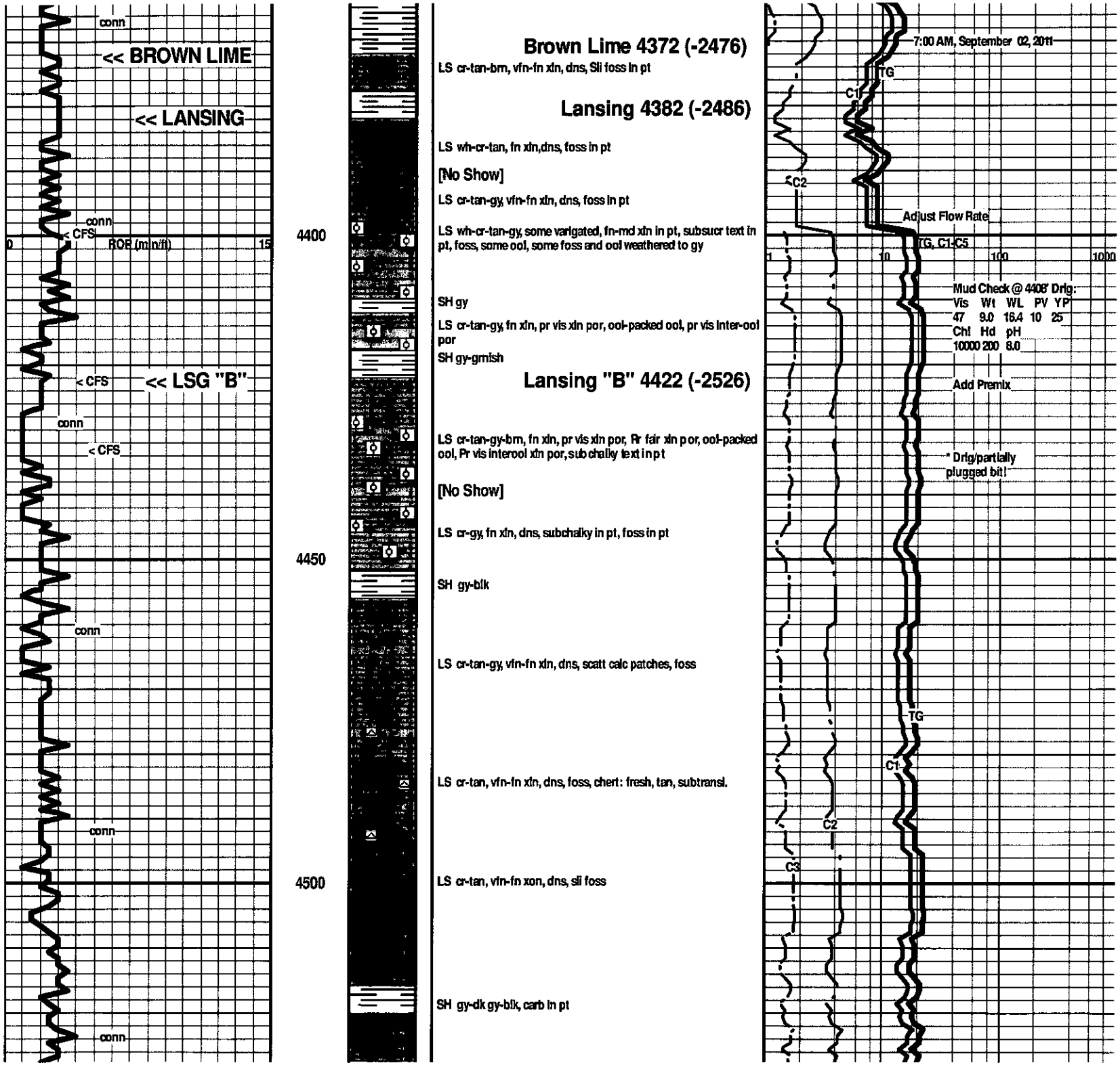
INTERVAL
- Core
- Dst

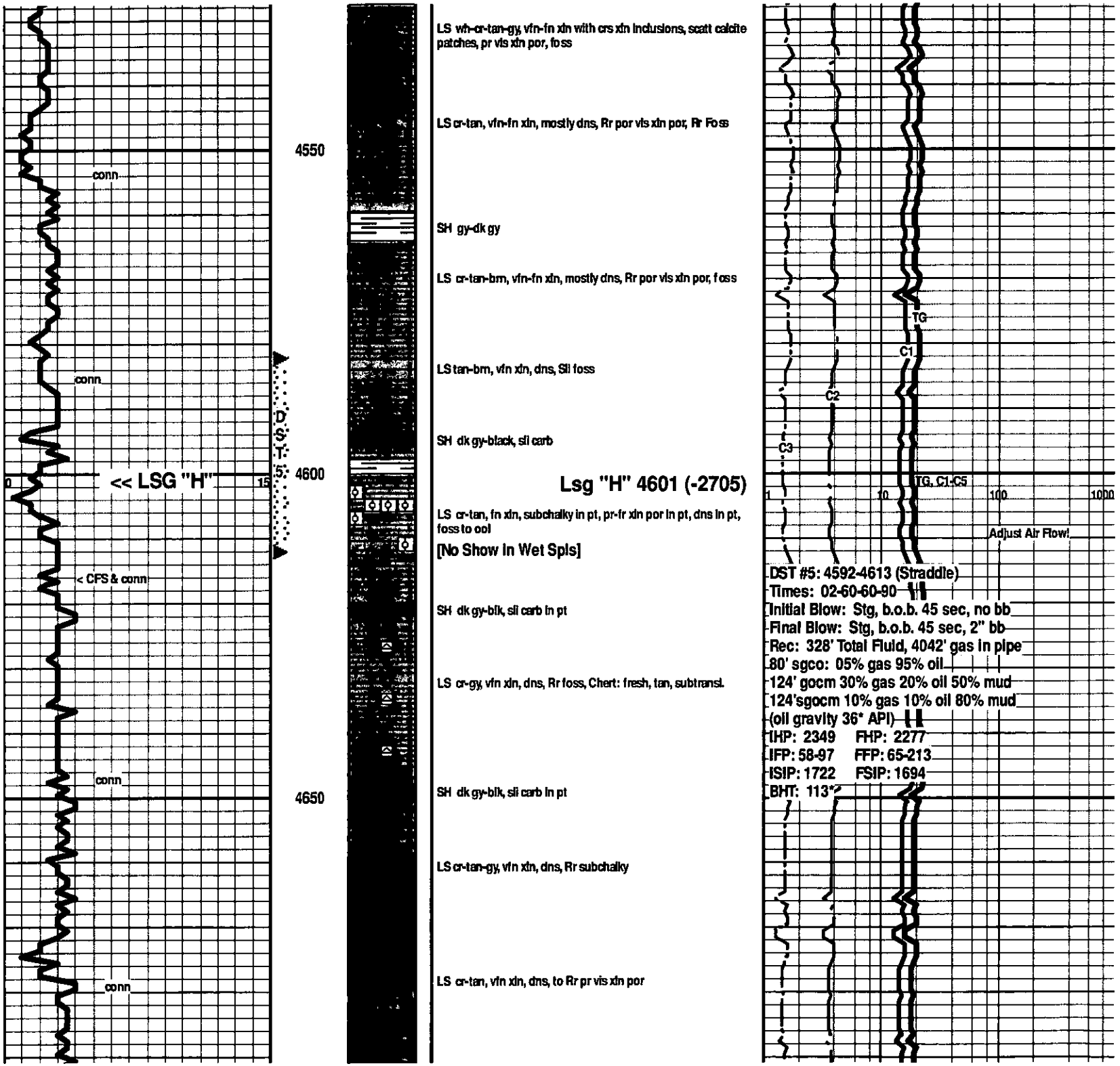
EVENT
- Rft
- Sidewall

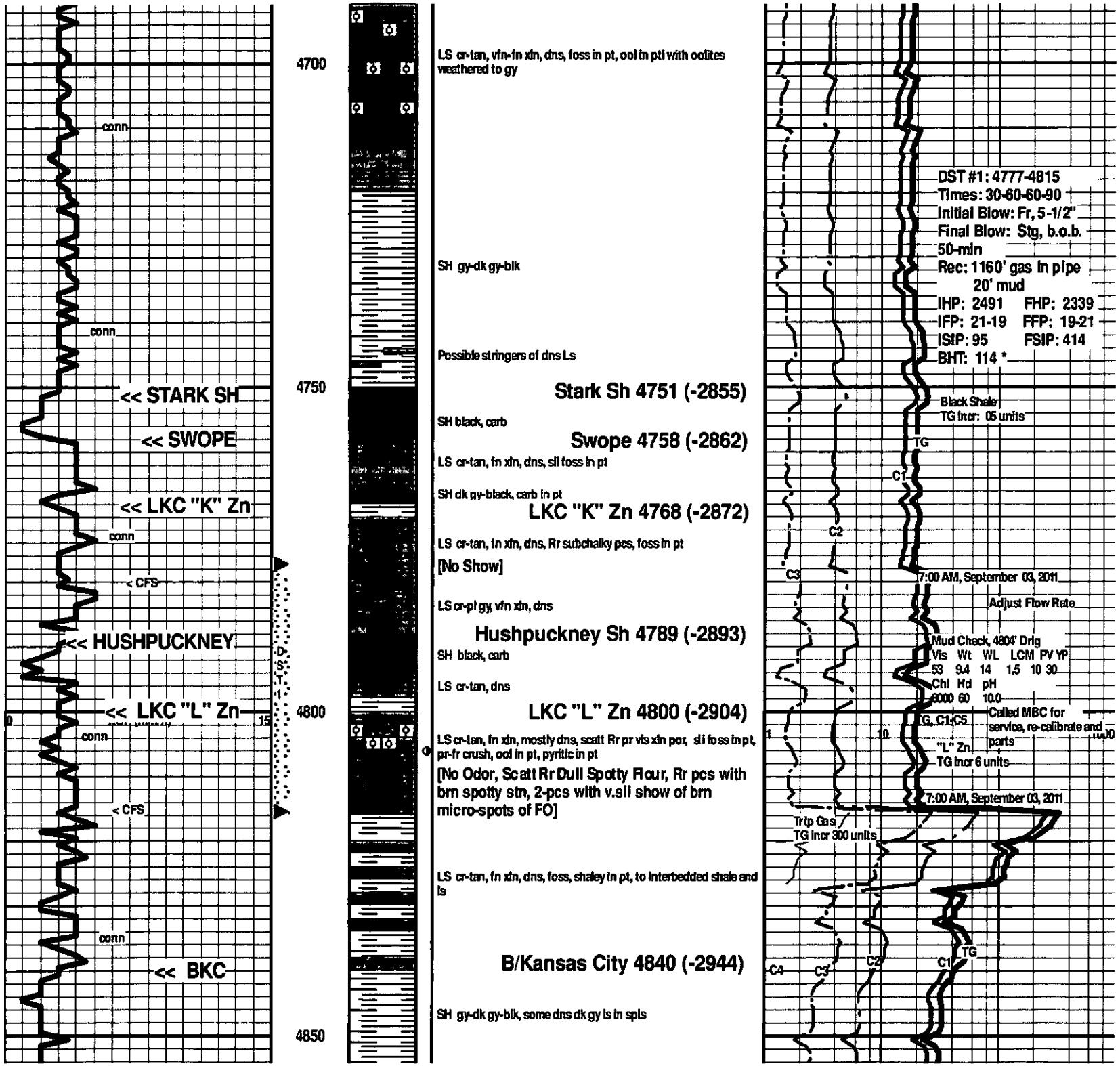


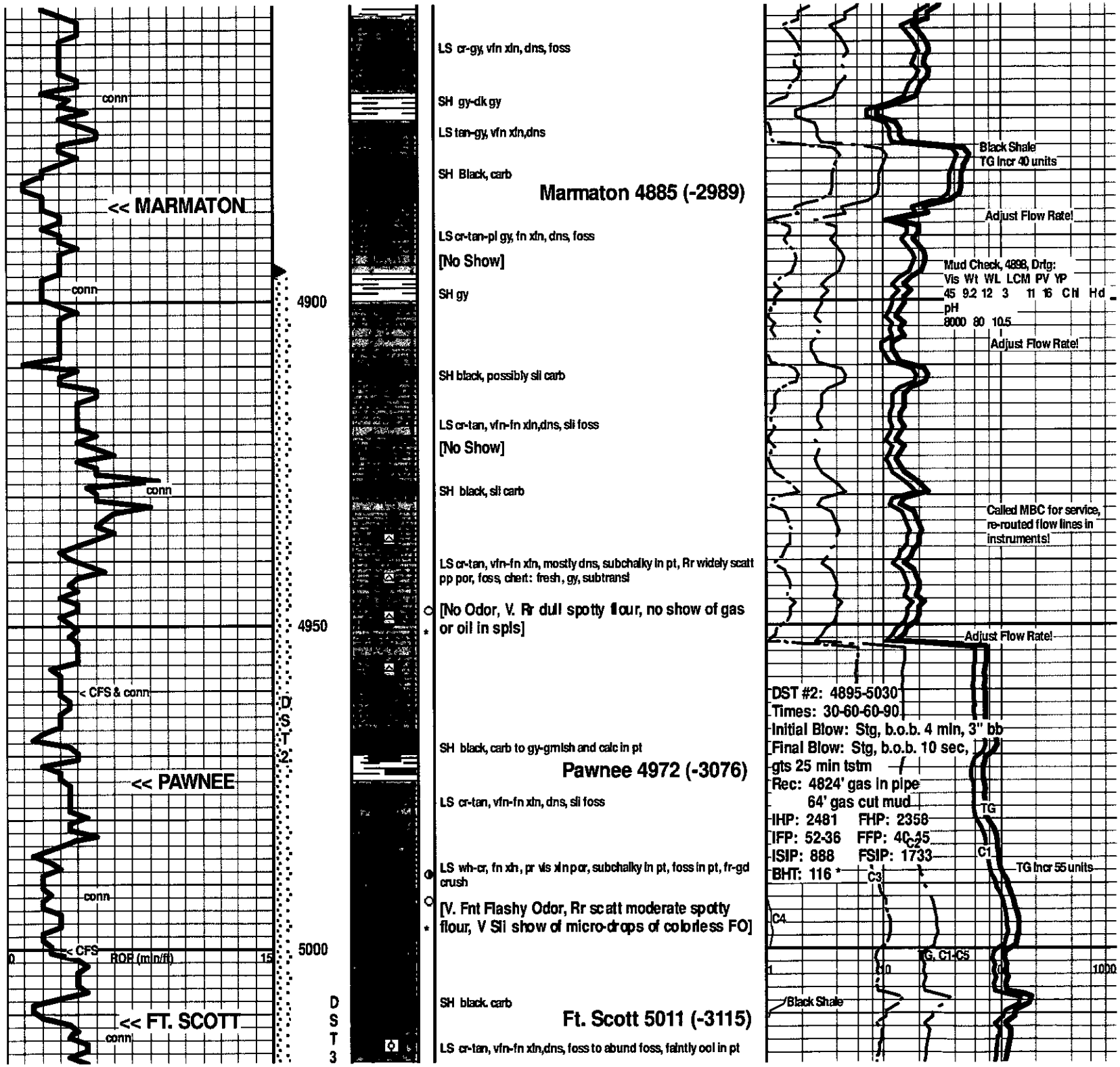

4050
4100
4150
4200
conn
conn
conn
conn
conn
<< HEEBNER
<< TORONTO
SH red-gy-dk gy-blk-grnish
SH black, carb
SH gy-dk gy-blk, with some tan, dns, foss Ls
SH gy-dk gy-blk, with Siltstone: wh-gy, v fn grn to silty, scatt intergrnlr por.
Abund Siltstone to V fn sd, wh-gy, scatt intergrnlr por, Spls 75% Shales: gy-dk gy-blk
SH black, carb
LS cr-tan, vfn-fn xln, dns
Heebner Sh 4182 (-2296)
SH black, carb
SH gy
Toronto 4196 (-2300)
TG Drops: represent connections lagged by computer!
Background Incr. through Stalnaker Siltstone Interval
Black Shale

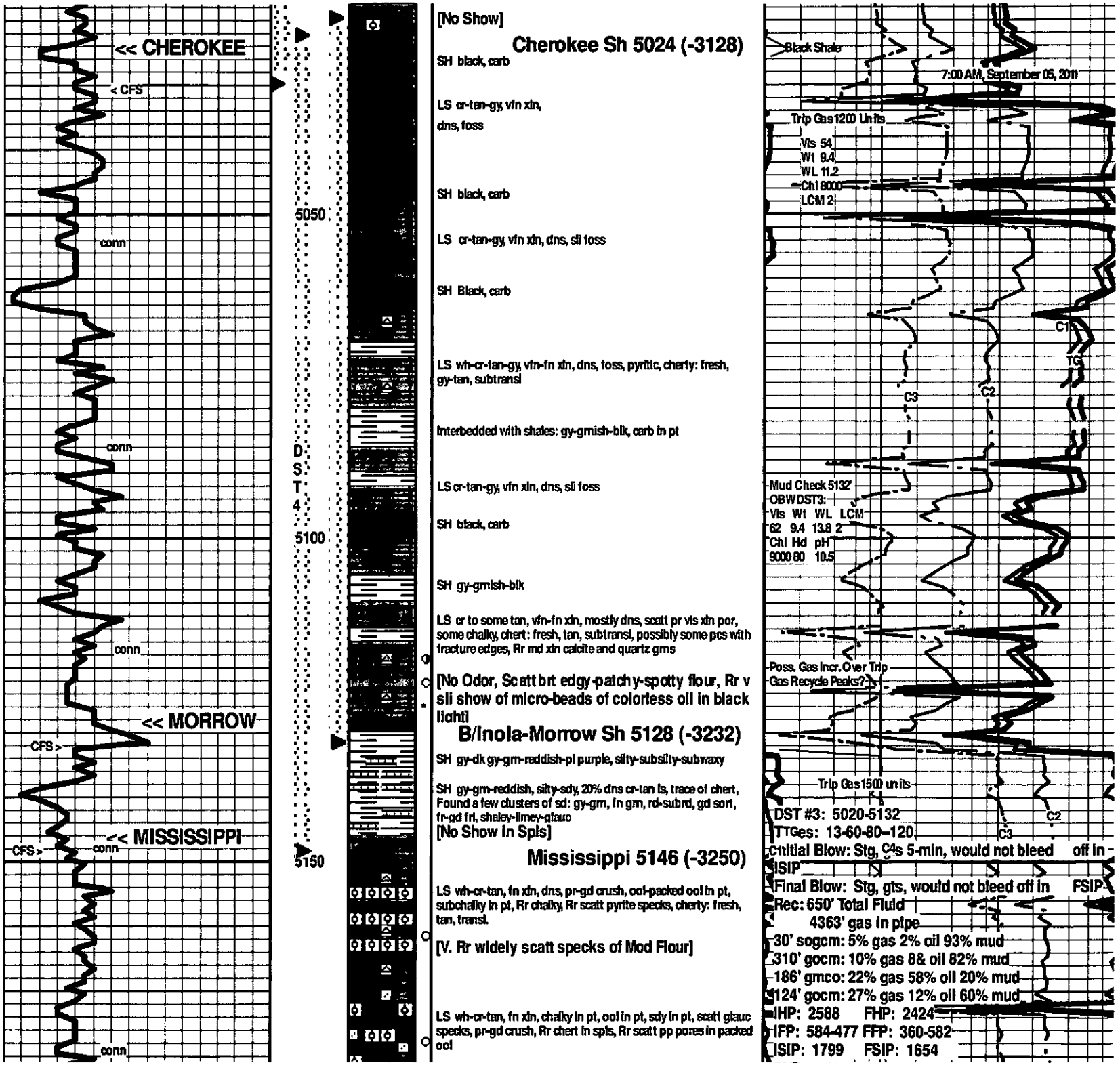

ROP (min/m)
conn
conn
conn
Geograph Out!
conn
conn
4250
4300
4350
?
[No Show]
SH gy
LS cr-tan-gy, v fn xln, dns, foss-abund foss
[No Show]
SH gy
LS tan-gy, vfn xln, dns, foss
[No Show]
Douglas Sh ?
SH pl gy-gy, mushy-soft, silty in pt, calc in pt, washes gy
SH pl gy-gy-tanish, soft, calc in pt, some shaley ls, subsilty text in pt, washes gy
SH gy-pl gy, silty to limey in pt
TG
C1
C2
C3
1
10
100
1000

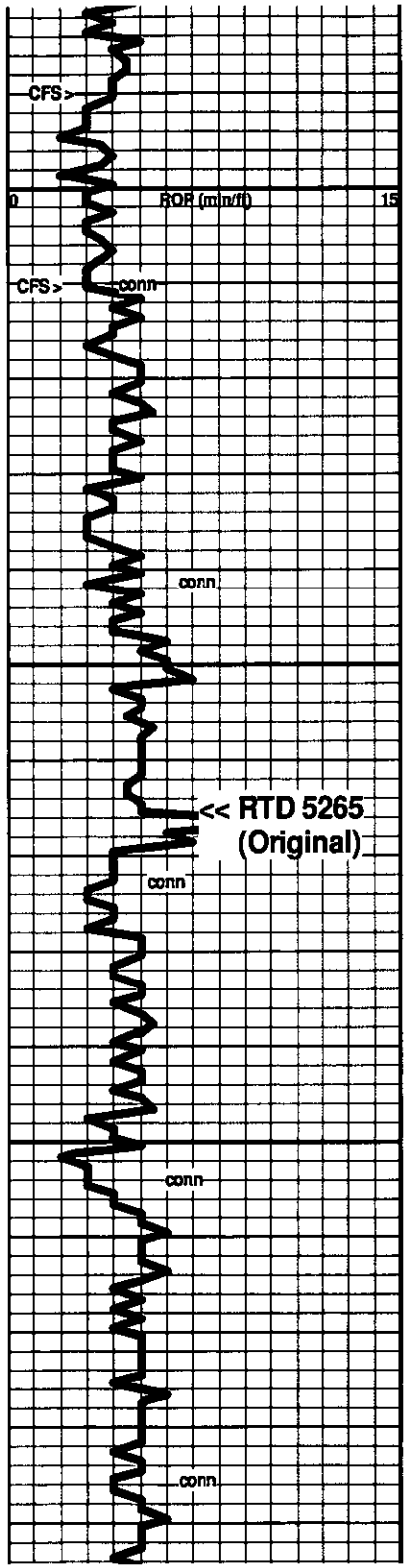

conn
<< BROWN LIME
<< LANSING
conn
< CFS
0
ROP (min/ft)
15
4400
< CFS
<< LSG "B"
conn
< CFS
4450
conn
conn
4500
conn
Brown Lime 4372 (-2476)
LS cr-tan-brn, vfn-fn xln, dns, Sli foss in pt
Lansing 4382 (-2486)
LS wh-cr-tan, fn xln,dns, foss in pt
[No Show]
LS cr-tan-gy, vfn-fn xln, dns, foss in pt
LS wh-cr-tan-gy, some varigated, fn-md xln in pt, subsucr text in pt, foss, some ool, some foss and ool weathered to gy
SH gy
LS cr-tan-gy, fn xln, pr vis xln por, ool-packed ool, pr vis inter-ool por
SH gy-grnish
Lansing "B" 4422 (-2526)
LS cr-tan-gy-brn, fn xln, pr vis xln por, Pr fair xln por, ool-packed ool, Pr vis interool xln por, subchalky text in pt
[No Show]
LS cr-gy, fn xln, dns, subchalky in pt, foss in pt
SH gy-blk
LS cr-tan-gy, vfn-fn xln, dns, scatt calc patches, foss
LS cr-tan, vfn-fn xln, dns, foss, chert: fresh, tan, subtransl.
LS cr-tan, vfn-fn xon, dns, sli foss
SH gy-dk gy-blk, carb in pt
7:00 AM, September 02, 2011
TG
C1
C2
Adjust Flow Rate
TG, C1-C5
1
10
100
1000
Mud Check @ 4408' Drlg:
Vis Wt WL PV YP
47 9.0 16.4 10 25
Chl Hd pH
10000 200 8.0
Add Premix
* Drlg/partially plugged bit!
TG
C1
C2
C3


4550
conn
conn
D
S
T
5
4600
0
<< LSG "H"
15
< CFS & conn
conn
4650
conn
LS wh-cr-tan-gy, vfn-fn xln with crs xln inclusions, scatt calcite patches, pr vis xln por, foss
LS cr-tan, vfn-fn xln, mostly dns, Rr por vis xln por, Rr Foss
SH gy-dk gy
LS cr-tan-brn, vfn-fn xln, mostly dns, Rr por vis xln por, foss
LS tan-brn, vfn xln, dns, Sli foss
SH dk gy-black, sli carb
Lsg "H" 4601 (-2705)
LS cr-tan, fn xln, subchalky in pt, pr-fr xln por in pt, dns in pt, foss to ool
[No Show in Wet Spls]
SH dk gy-blk, sli carb in pt
LS cr-gy, vfn xln, dns, Rr foss, Chert: fresh, tan, subtransl.
SH dk gy-blk, sli carb in pt
LS cr-tan-gy, vfn xln, dns, Rr subchalky
LS cr-tan, vfn xln, dns, to Rr pr vis xln por
TG
C1
C2
C3
TG, C1-C5
1
10
100
1000
Adjust Air Flow!
DST #5: 4592-4613 (Straddle)
Times: 02-60-60-90
Initial Blow: Stg, b.o.b. 45 sec, no bb
Final Blow: Stg, b.o.b. 45 sec, 2" bb
Rec: 328' Total Fluid, 4042' gas in pipe
80' sgco: 05% gas 95% oil
124' gocm 30% gas 20% oil 50% mud
124'sgocm 10% gas 10% oil 80% mud
(oil gravity 36° API)
IHP: 2349 FHP: 2277
IFP: 58-97 FFP: 65-213
ISIP: 1722 FSIP: 1694
BHT: 113°


4700
4750
4800
4850
conn
conn
conn
conn
conn
<< STARK SH
<< SWOPE
<< LKC "K" Zn
< CFS
<< HUSHPUCKNEY
D S T 1
<< LKC "L" Zn
< CFS
<< BKC
LS cr-tan, vfn-fn xln, dns, foss in pt, ool in pt with oolites weathered to gy
SH gy-dk gy-blk
Possible stringers of dns Ls
Stark Sh 4751 (-2855)
SH black, carb
Swope 4758 (-2862)
LS cr-tan, fn xln, dns, sli foss in pt
SH dk gy-black, carb in pt
LKC "K" Zn 4768 (-2872)
LS cr-tan, fn xln, dns, Rr subchalky pcs, foss in pt
[No Show]
LS cr-pl gy, vfn xln, dns
Hushpuckney Sh 4789 (-2893)
SH black, carb
LS cr-tan, dns
LKC "L" Zn 4800 (-2904)
LS cr-tan, fn xln, mostly dns, scatt Rr pr vis xln por, sli foss in pt, pr-fr crush, ool in pt, pyritic in pt
[No Odor, Scatt Rr Dull Spotty Flour, Rr pcs with brn spotty stn, 2-pcs with v.sli show of brn micro-spots of FO]
LS cr-tan, fn xln, dns, foss, shaley in pt, to interbedded shale and ls
B/Kansas City 4840 (-2944)
SH gy-dk gy-blk, some dns dk gy ls in spls
DST #1: 4777-4815
Times: 30-60-60-90
Initial Blow: Fr, 5-1/2"
Final Blow: Stg, b.o.b.
50-min
Rec: 1160' gas in pipe
20' mud
IHP: 2491 FHP: 2339
IFP: 21-19 FFP: 19-21
ISIP: 95 FSIP: 414
BHT: 114 *
Black Shale
TG incr: 05 units
TG
C1
C2
C3
7:00 AM, September 03, 2011
Adjust Flow Rate
Mud Check, 4804' Drlg
Vis Wt WL LCM PV YP
53 9.4 14 1.5 10 30
Chl Hd pH
6000 60 10.0
Called MBC for service, re-calibrate and parts
TG, C1-C5
"L" Zn
TG incr 6 units
7:00 AM, September 03, 2011
Trip Gas
TG incr 300 units
C4
C3
C2
C1
TG


conn
<< MARMATON
conn
4900
conn
< CFS & conn
4950
D
S
T
2
<< PAWNEE
conn
< CFS
ROP (m/n/ft)
0
15
5000
<< FT. SCOTT
conn
D
S
T
3
LS cr-gy, vfn xln, dns, foss
SH gy-dk gy
LS tan-gy, vfn xln,dns
SH Black, carb
Marmaton 4885 (-2989)
LS cr-tan-pl gy, fn xln, dns, foss
[No Show]
SH gy
SH black, possibly sli carb
LS cr-tan, vfn-fn xln,dns, sli foss
[No Show]
SH black, sli carb
LS cr-tan, vfn-fn xln, mostly dns, subchalky in pt, Rr widely scatt pp por, foss, chert: fresh, gy, subtransl
[No Odor, V. Rr dull spotty flour, no show of gas or oil in spls]
SH black, carb to gy-grnish and calc in pt
Pawnee 4972 (-3076)
LS cr-tan, vfn-fn xln, dns, sli foss
LS wh-cr, fn xln, pr vis xln por, subchalky in pt, foss in pt, fr-gd crush
[V. Fnt Flashy Odor, Rr scatt moderate spotty flour, V Sli show of micro-drops of colorless FO]
SH black, carb
Ft. Scott 5011 (-3115)
LS cr-tan, vfn-fn xln,dns, foss to abund foss, faintly ool in pt
Black Shale
TG Incr 40 units
Adjust Flow Rate!
Mud Check, 4898, Drlg:
Vis Wt WL LCM PV YP
45 9.2 12 3 11 16 Chl Hd
pH
8000 80 10.5
Adjust Flow Rate!
Called MBC for service, re-routed flow lines in instruments!
Adjust Flow Rate!
DST #2: 4895-5030
Times: 30-60-60-90
Initial Blow: Stg, b.o.b. 4 min, 3" bb
Final Blow: Stg, b.o.b. 10 sec,
gts 25 min tstm
Rec: 4824' gas in pipe
64' gas cut mud
IHP: 2481 FHP: 2358
IFP: 52-36 FFP: 40-45
ISIP: 888 FSIP: 1733
BHT: 116 *
TG
C1
C2
C3
C4
TG Incr 55 units
TG, C1-C5
1
10
100
1000
Black Shale


<< CHEROKEE
< CFS
conn
conn
conn
<< MORROW
CFS >
<< MISSISSIPPI
CFS >
conn
conn
5050
5100
5150
DST 4
[No Show]
Cherokee Sh 5024 (-3128)
SH black, carb
LS cr-tan-gy, vfn xln, dns, foss
SH black, carb
LS cr-tan-gy, vfn xln, dns, sli foss
SH Black, carb
LS wh-cr-tan-gy, vfn-fn xln, dns, foss, pyritic, cherty: fresh, gy-tan, subtransl
Interbedded with shales: gy-grnish-blk, carb in pt
LS cr-tan-gy, vfn xln, dns, sli foss
SH black, carb
SH gy-grnish-blk
LS cr to some tan, vfn-fn xln, mostly dns, scatt pr vis xln por, some chalky, chert: fresh, tan, subtransl, possibly some pcs with fracture edges, Rr md xln calcite and quartz grns
[No Odor, Scatt brt edgy-patchy-spotty flour, Rr v sli show of micro-beads of colorless oil in black light]
B/Inola-Morrow Sh 5128 (-3232)
SH gy-dk gy-grn-reddish-pl purple, silty-subsilty-subwaxy
SH gy-grn-reddish, silty-sdy, 20% dns cr-tan ls, trace of chert, Found a few clusters of sd: gy-grn, fn grn, rd-subrd, gd sort, fr-gd fri, shaley-limey-glauc
[No Show In Spls]
Mississippi 5146 (-3250)
LS wh-cr-tan, fn xln, dns, pr-gd crush, ool-packed ool in pt, subchalky in pt, Rr chalky, Rr scatt pyrite specks, cherty: fresh, tan, transl.
[V. Rr widely scatt specks of Mod Flour]
LS wh-cr-tan, fn xln, chalky in pt, ool in pt, sdy in pt, scatt glauc specks, pr-gd crush, Rr chert in spls, Rr scatt pp pores in packed ool
Black Shale
7:00 AM, September 05, 2011
Trip Gas1200 Units
Vis 54
Wt 9.4
WL 11.2
Chl 8000
LCM 2
C1
TG
C3
C2
Mud Check 5132'
OBWDST3:
Vis Wt WL LCM
62 9.4 13.8 2
Chl Hd pH
9000 80 10.5
Poss. Gas Incr. Over Trip
Gas Recycle Peaks?
Trip Gas1500 units
DST #3: 5020-5132
TTGes: 13-60-80-120
Initial Blow: Stg, 4s 5-min, would not bleed off in
ISIP
Final Blow: Stg, gts, would not bleed off in
FSIP
Rec: 650' Total Fluid
4363' gas in pipe
30' sogcm: 5% gas 2% oil 93% mud
310' gocm: 10% gas 8& oil 82% mud
186' gmco: 22% gas 58% oil 20% mud
124' gocm: 27% gas 12% oil 60% mud
IHP: 2588 FHP: 2424
IFP: 584-477 FFP: 360-582
ISIP: 1799 FSIP: 1654



5200

5250

5300

[No Odor, Fr scatt moderate specks of flour in por]

LS wh-cr, fn xln, chalky-subchalky in pt, col-packed col, slisdy in pt,

[No Odor, V. Fr streaks, spots & patches of Brt Flour]

LS wh-cr, fn xln, packed col mostlywell-cem, some vis xln por in inter-col cem, fr-gd crush, No vis show

[No Show in Spls]

LS wh-cr, fn xln, dns, packed col, mostlywell-cem, pr-fr-gd crush

[No Show in Spls]

LS cr-pl gy, fn xln, dns, silty test in pt, col in pt, pr-fr crush

[No Show in Spls]

* Note: Extreme Dilution applied for readibilitiy of gas! >>>

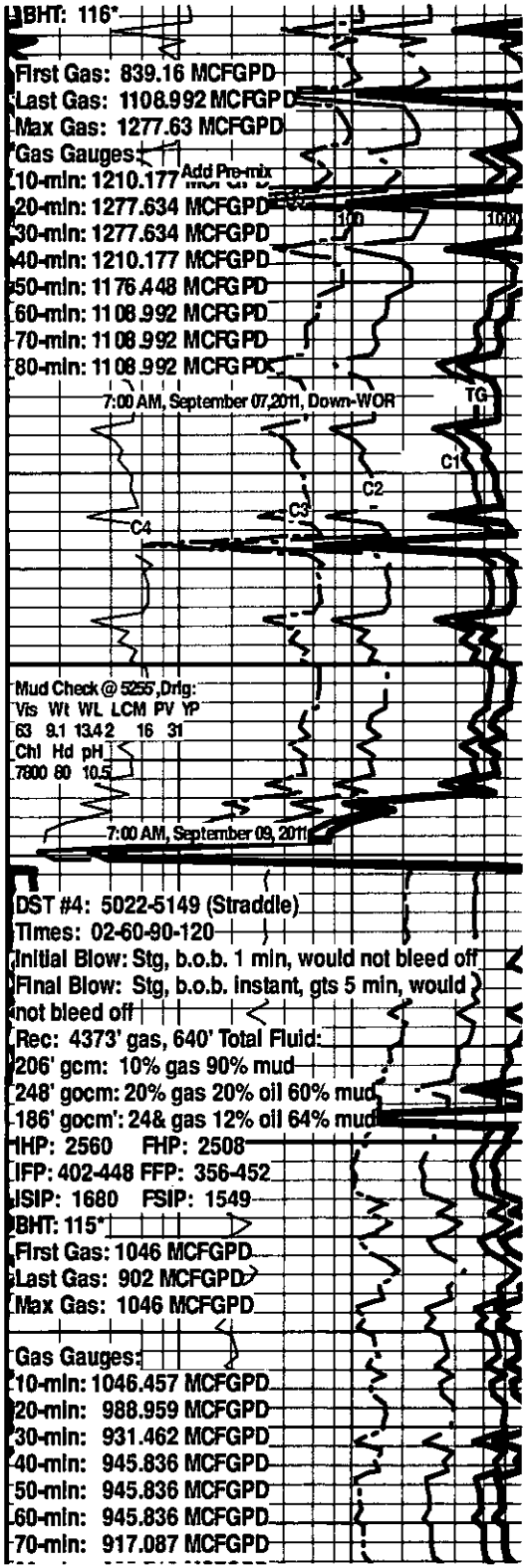
LS wh-cr-pl gy, fn xln, dns, col in pt, chert: pl gy, fresh, transl.

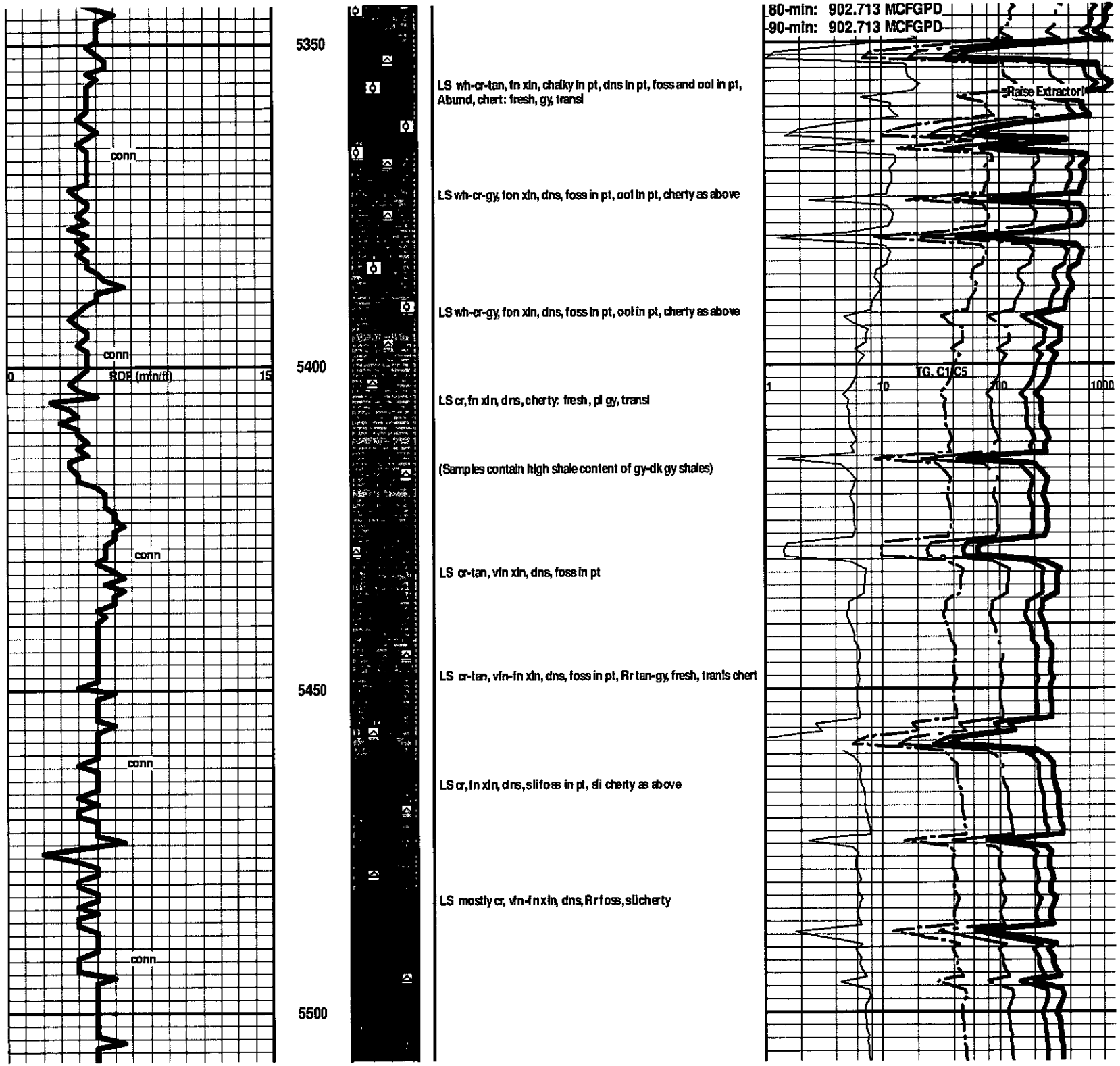
(Samples 50% shales)

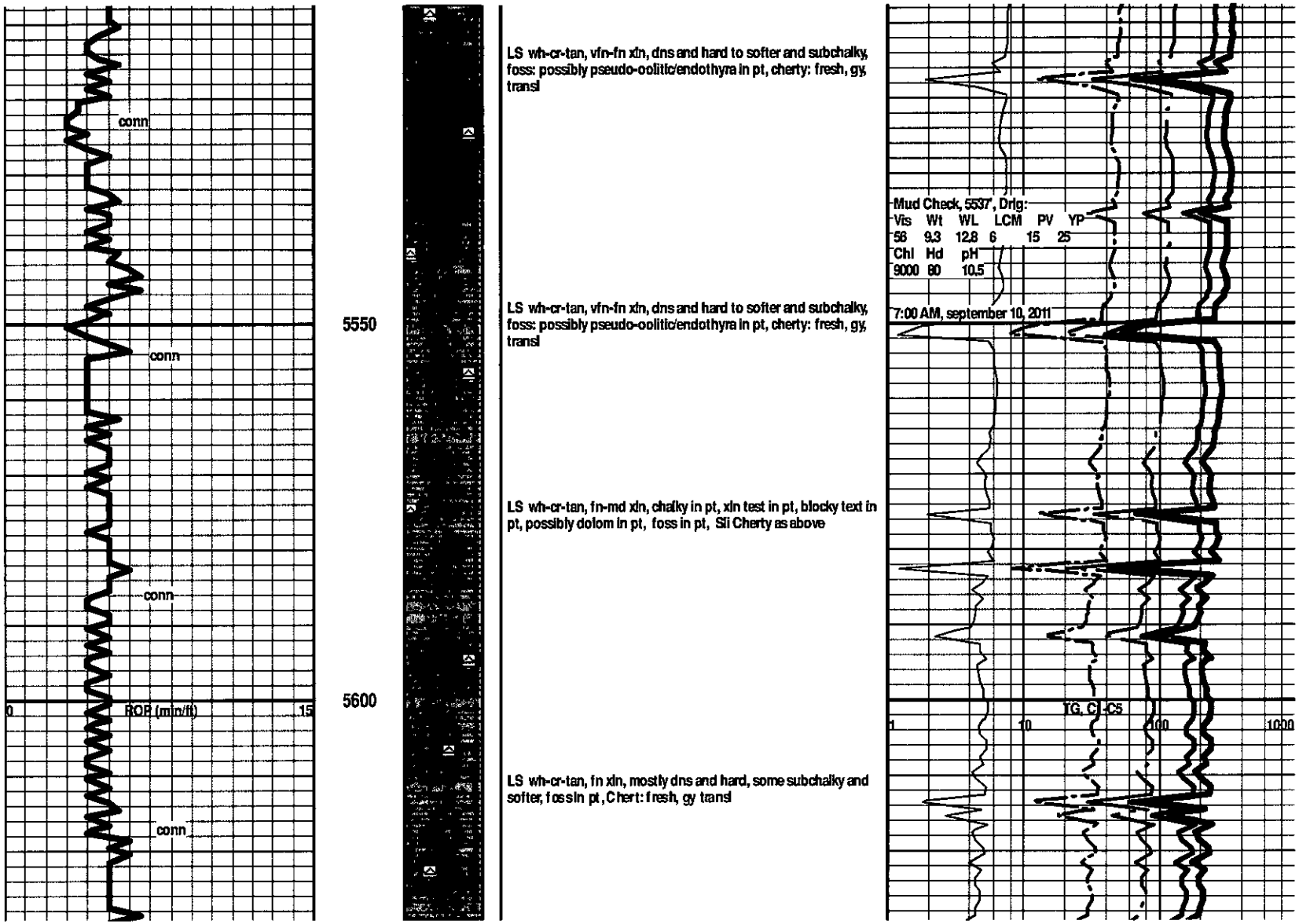
LS wh-cr-pl gy, fn xln, col-packed col, well-cem in pt, Fr scatt interool por, gd-exc crush, subchalky cem in pt, sdy in pt cherty as above

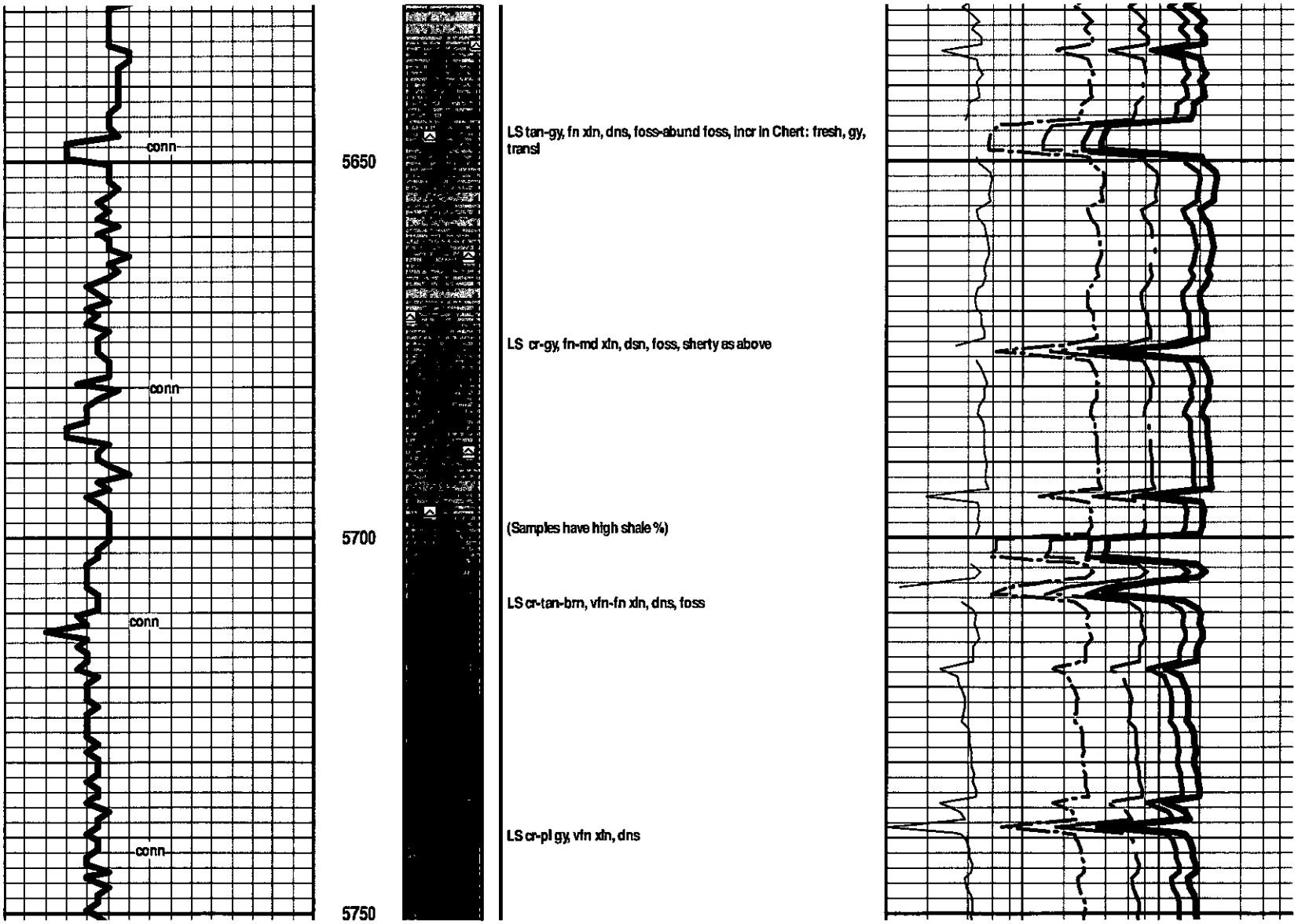
[No Odor, Found few pcs with scatt spots of flour, 2-pcs with spot of v.lt. tan stn, 1pc with a gas bubble in a pore, poss gas incr-but not confirmable within recycling trip gas]

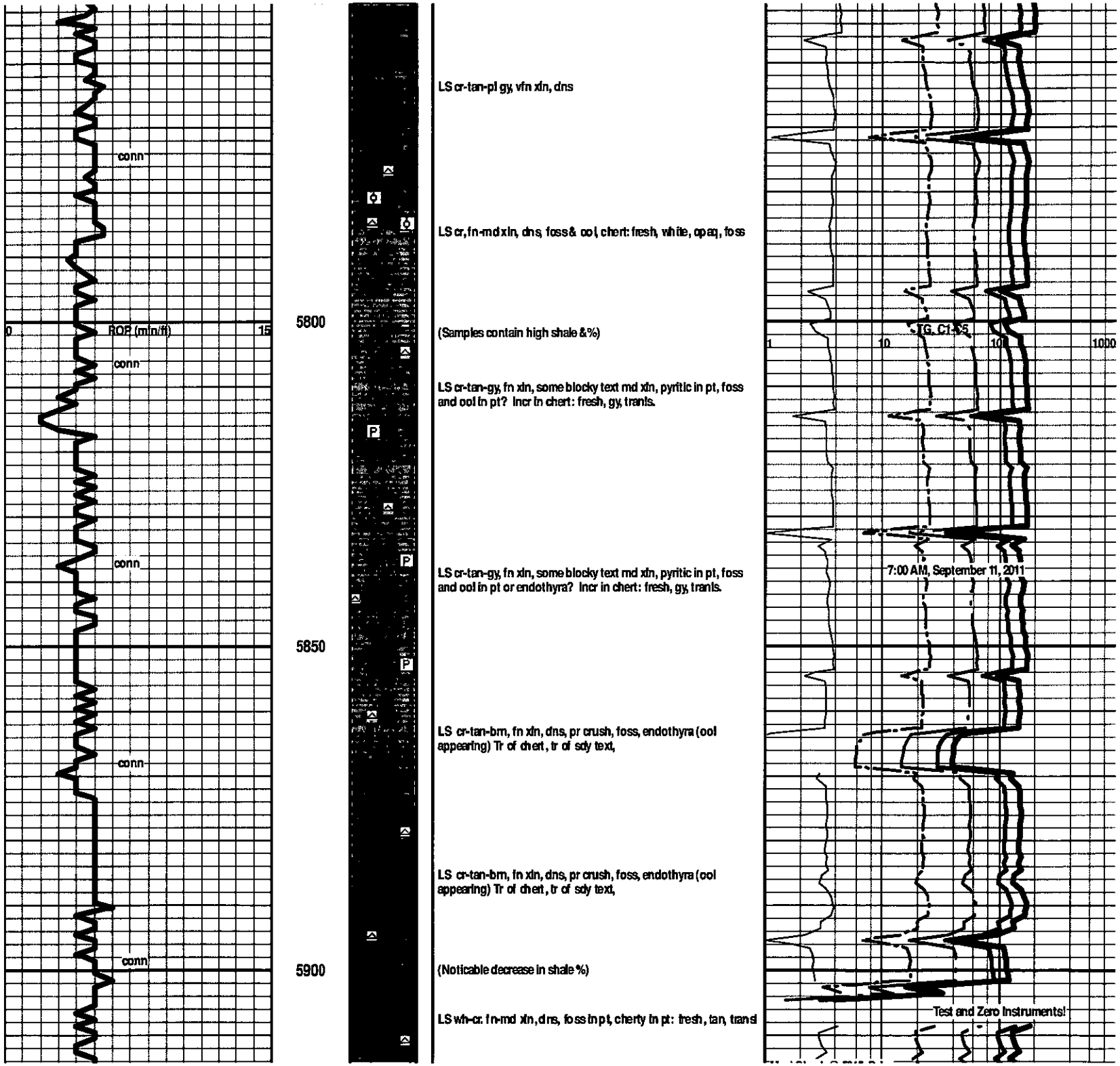
LS wh-cr-gy, fn xln with md xln inclusions, foss in pt, col in pt, cherty: fresh, gy, transl

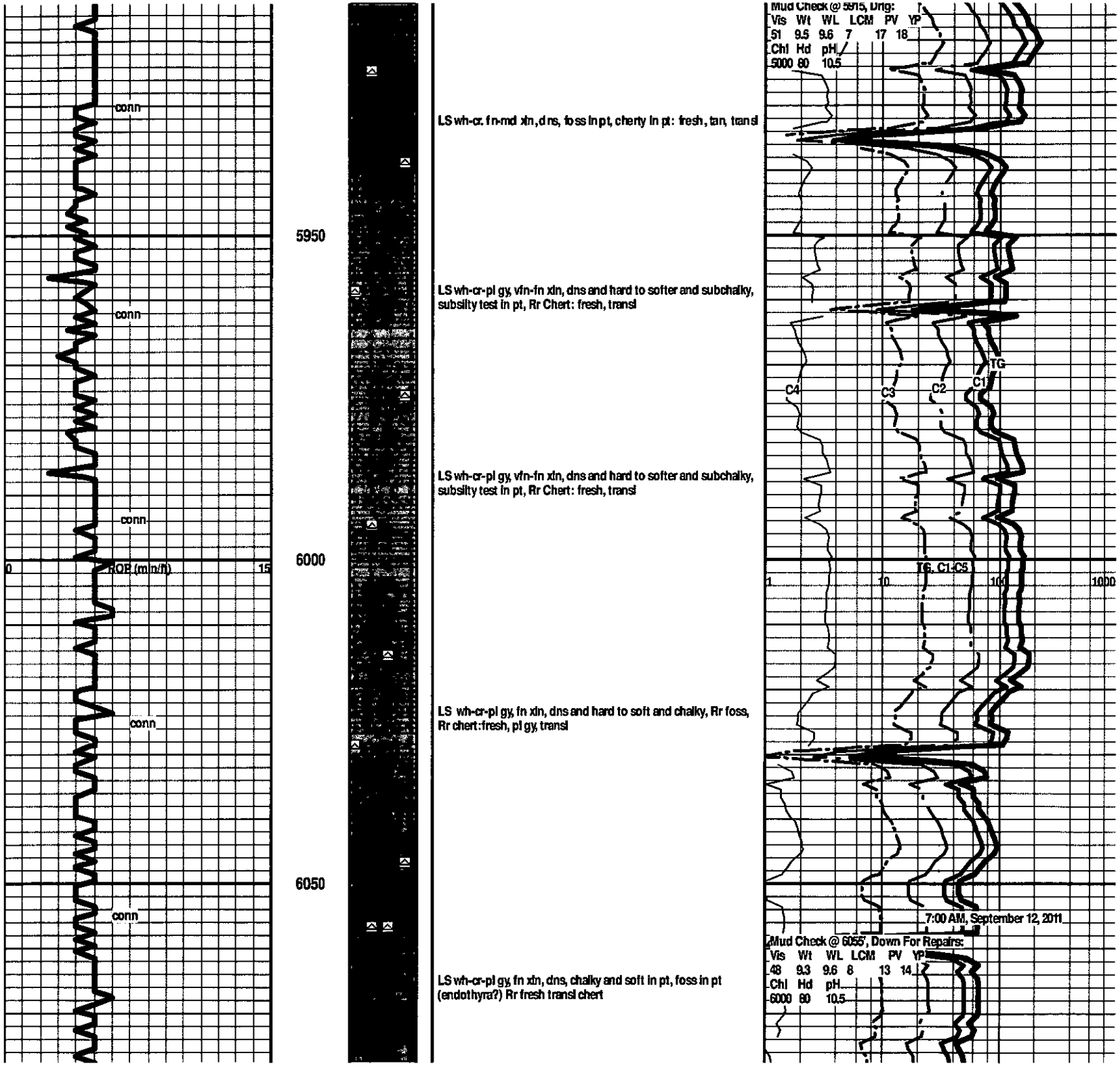


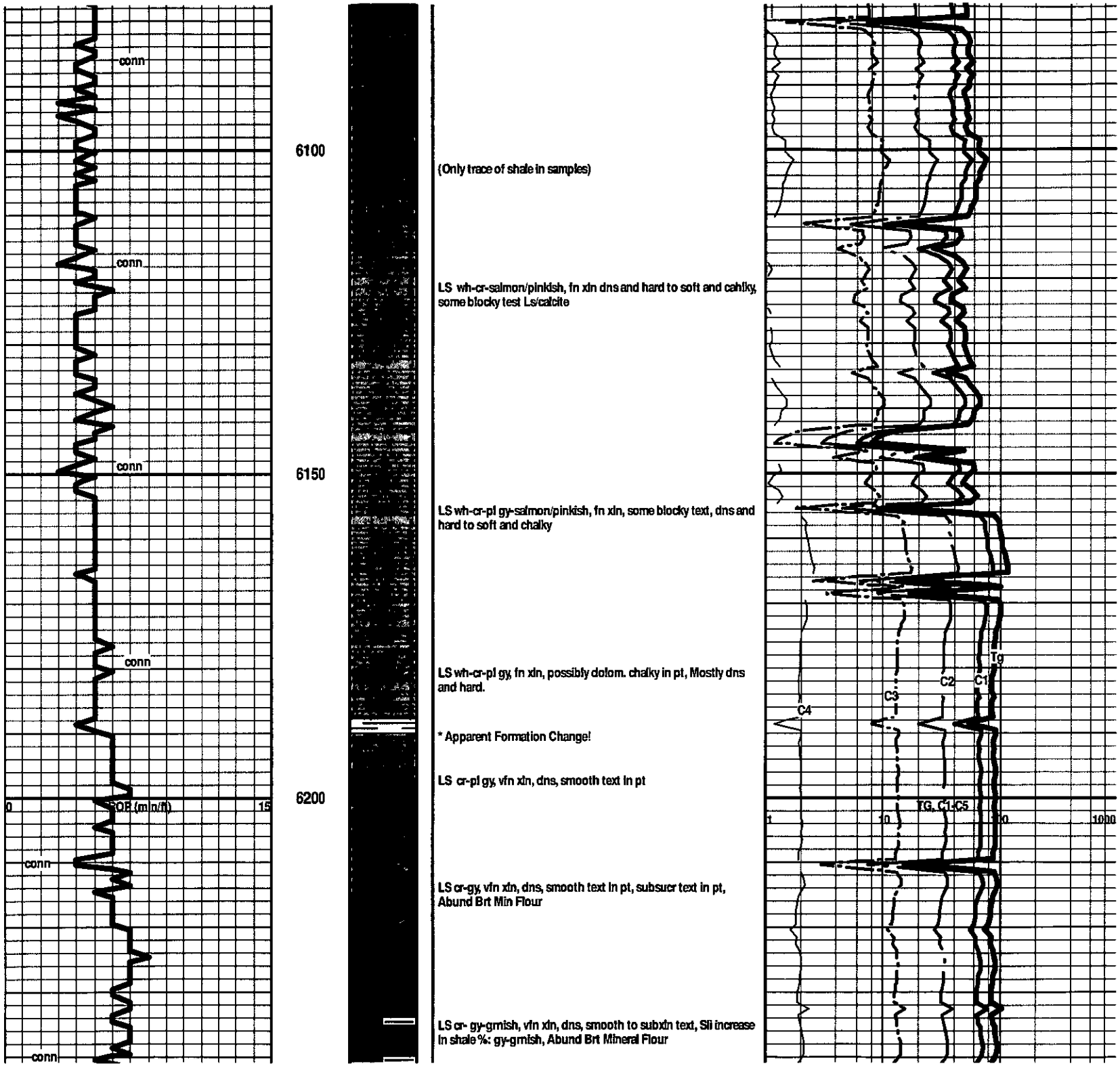

conn
conn
conn
conn
conn
0
ROP (min/ft)
15
5350
5400
5450
5500
LS wh-cr-tan, fn xln, chalky in pt, dns in pt, foss and ool in pt, Abund, chert: fresh, gy, transl
LS wh-cr-gy, fon xln, dns, foss in pt, ool in pt, cherty as above
LS wh-cr-gy, fon xln, dns, foss in pt, ool in pt, cherty as above
LS cr, fn xln, dns, cherty: fresh, pl gy, transl
(Samples contain high shale content of gy-dk gy shales)
LS cr-tan, vfn xln, dns, foss in pt
LS cr-tan, vfn-fn xln, dns, foss in pt, Rr tan-gy, fresh, trans chert
LS cr, fn xln, dns, sli foss in pt, sli cherty as above
LS mostly cr, vfn-fn xln, dns, Rr foss, sli cherty
80-min: 902.713 MCFGPD
90-min: 902.713 MCFGPD
Raise Extractor!
TG, C1, C5
1
10
100
1000

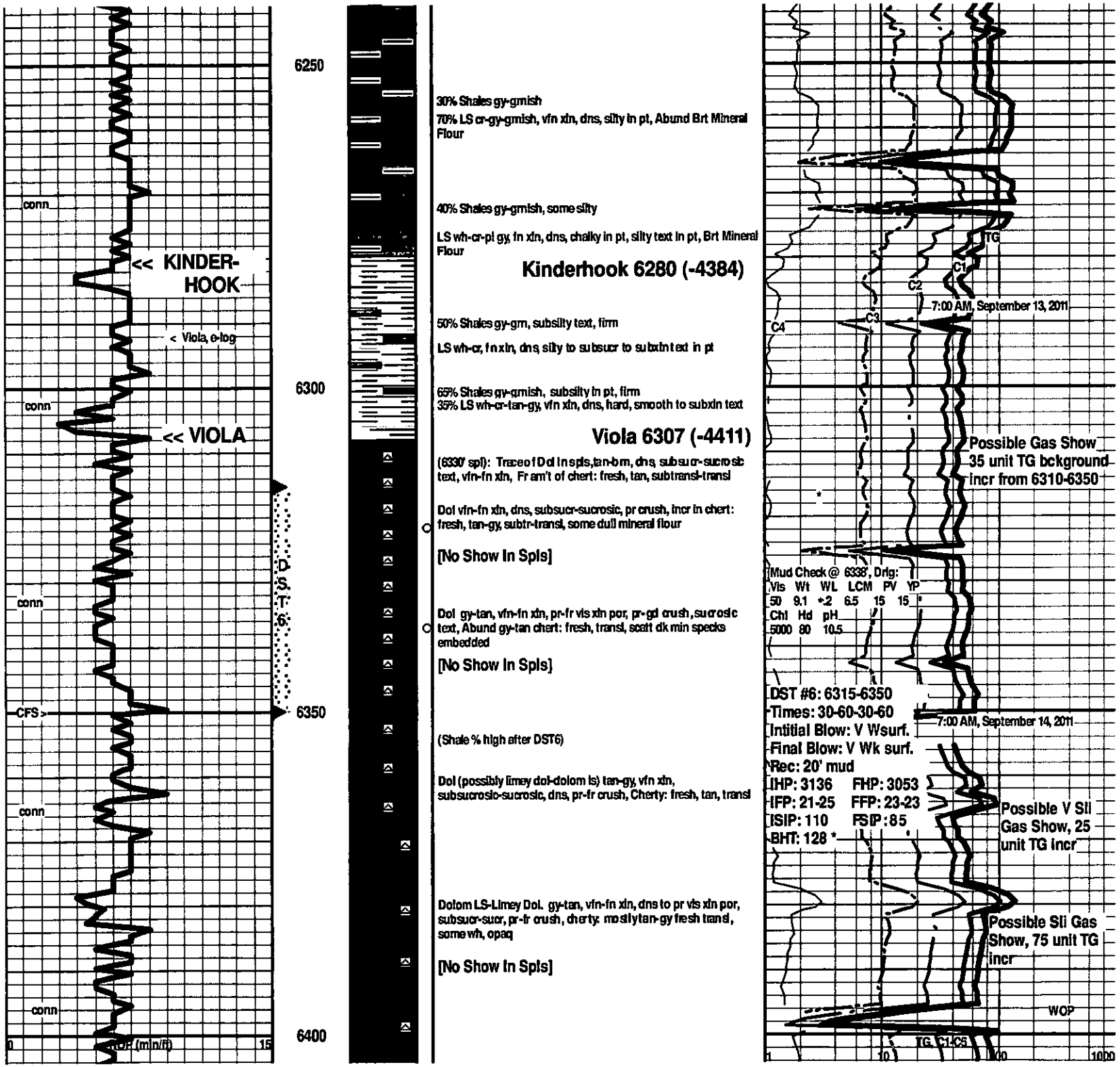

conn
conn
conn
conn
0
ROP (min/ft)
15
5550
5600
LS wh-cr-tan, vfn-fn xln, dns and hard to softer and subchalky, foss: possibly pseudo-oolitic/endothyra in pt, cherty: fresh, gy, transl
LS wh-cr-tan, vfn-fn xln, dns and hard to softer and subchalky, foss: possibly pseudo-oolitic/endothyra in pt, cherty: fresh, gy, transl
LS wh-cr-tan, fn-md xln, chalky in pt, xln test in pt, blocky text in pt, possibly dolom in pt, foss in pt, Sli Cherty as above
LS wh-cr-tan, fn xln, mostly dns and hard, some subchalky and softer, foss in pt, Chert: fresh, gy transl
Mud Check, 5537', Drlg:
Vis Wt WL LCM PV YP
56 9.3 12.8 6 15 25
Chl Hd pH
9000 80 10.5
7:00 AM, september 10, 2011
TG, C1-C5
1
10
100
1000

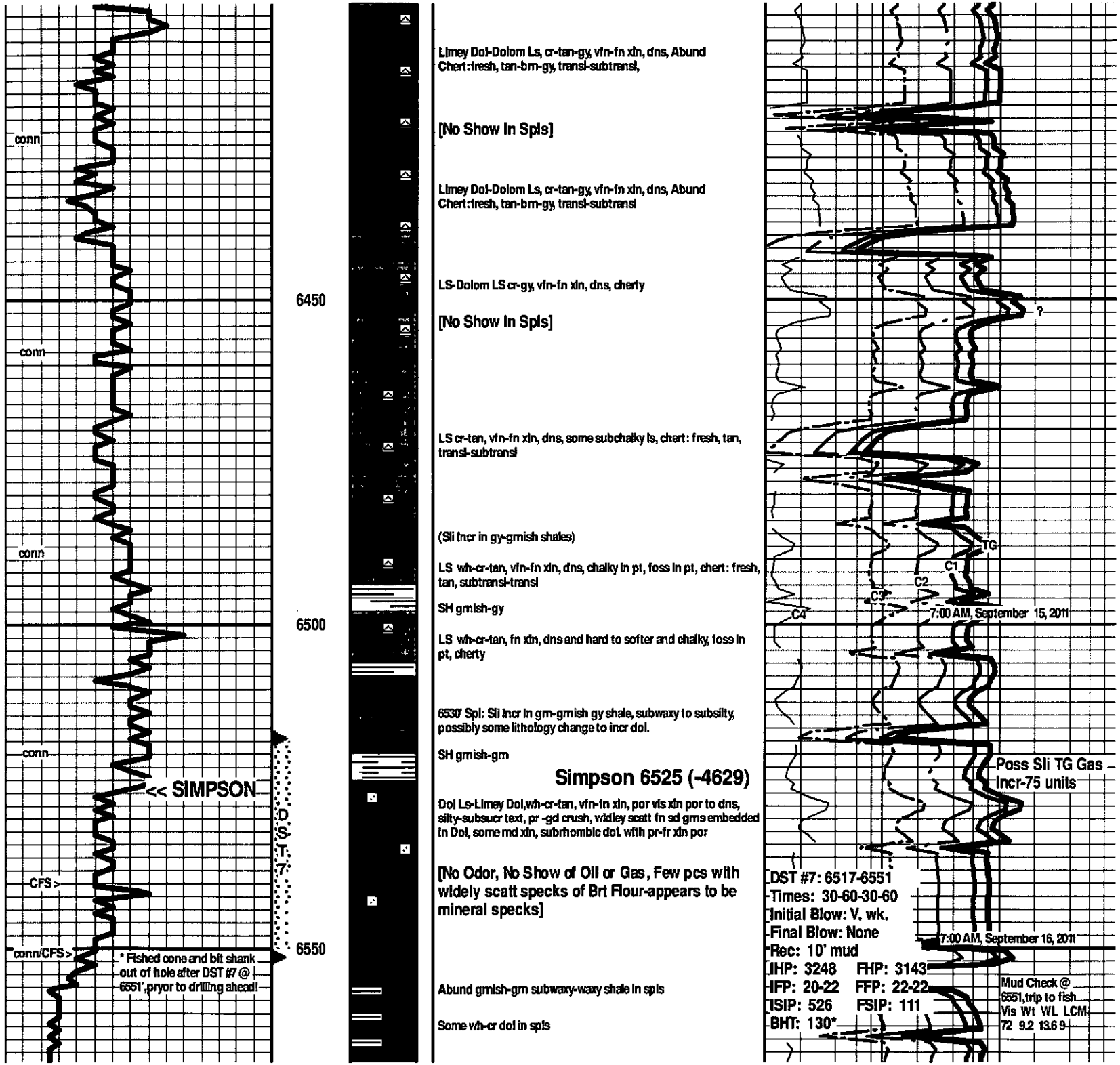

conn
conn
conn
conn
5650
5700
5750
LS tan-gy, fn xln, dns, foss-abund foss, incr in Chert: fresh, gy, transl
LS cr-gy, fn-md xln, dsn, foss, sherty as above
(Samples have high shale %)
LS cr-tan-brn, vfn-fn xln, dns, foss
LS cr-pl gy, vfn xln, dns

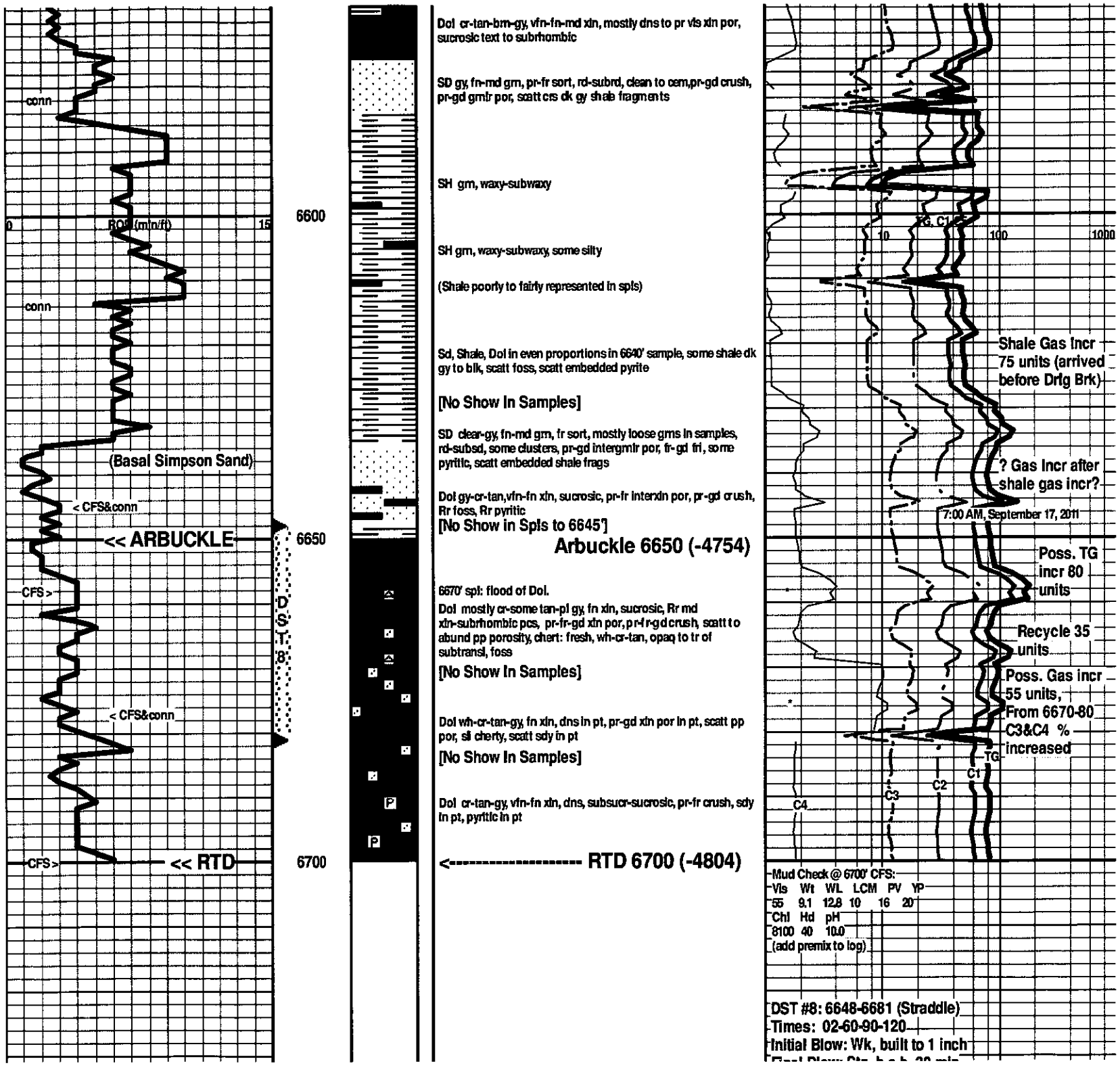

conn
0
ROP (min/ft)
15
conn
conn
conn
conn
5800
5850
5900
LS cr-tan-pl gy, vfn xln, dns
LS cr, fn-md xln, dns, foss & ool, chert: fresh, white, opaq, foss
(Samples contain high shale &%)
LS cr-tan-gy, fn xln, some blocky text md xln, pyritic in pt, foss and ool in pt? Incr in chert: fresh, gy, tranls.
LS cr-tan-gy, fn xln, some blocky text md xln, pyritic in pt, foss and ool in pt or endothyra? Incr in chert: fresh, gy, tranls.
LS cr-tan-brn, fn xln, dns, pr crush, foss, endothyra (ool appearing) Tr of chert, tr of sdy text,
LS cr-tan-brn, fn xln, dns, pr crush, foss, endothyra (ool appearing) Tr of chert, tr of sdy text,
(Noticable decrease in shale %)
LS wh-cr, fn-md xln, dns, foss in pt, cherty in pt: fresh, tan, transl
TG, C1-C5
1
10
100
1000
7:00 AM, September 11, 2011
Test and Zero Instruments!

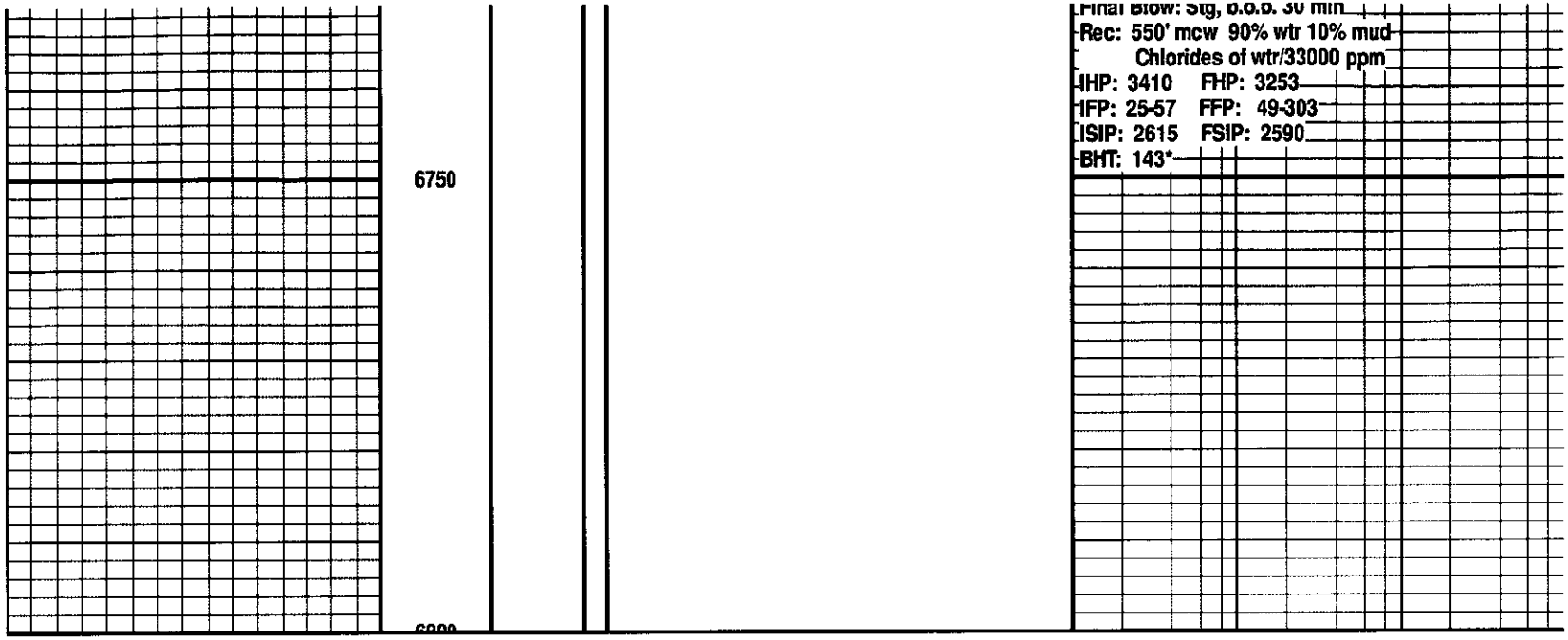

conn
conn
conn
conn
conn
0
ROP (m/h/ft)
15
5950
6000
6050
LS wh-cr, fn-md xln, dns, foss in pt, cherty in pt: fresh, tan, transl
LS wh-cr-pl gy, vfn-fn xln, dns and hard to softer and subchalky, subsilty test in pt, Rr Chert: fresh, transl
LS wh-cr-pl gy, vfn-fn xln, dns and hard to softer and subchalky, subsilty test in pt, Rr Chert: fresh, transl
LS wh-cr-pl gy, fn xln, dns and hard to soft and chalky, Rr foss, Rr chert:fresh, pl gy, transl
LS wh-cr-pl gy, fn xln, dns, chalky and soft in pt, foss in pt (endothyra?) Rr fresh transl chert
Mud Check @ 5915, Drlg:
Vis Wt WL LCM PV YP
51 9.5 9.6 7 17 18
Chl Hd pH
5000 80 10.5
TG
C4
C3
C2
C1
1
10
100
1000
TG, C1-C5
7:00 AM, September 12, 2011
Mud Check @ 6055', Down For Repairs:
Vis Wt WL LCM PV YP
48 9.3 9.6 8 13 14
Chl Hd pH
6000 80 10.5


conn
conn
conn
conn
conn
6100
6150
6200
0
ROP (m/n/ft)
15
(Only trace of shale in samples)
LS wh-cr-salmon/pinkish, fn xln dns and hard to soft and cahlky, some blocky test Ls/calcite
LS wh-cr-pl gy-salmon/pinkish, fn xln, some blocky text, dns and hard to soft and chalky
LS wh-cr-pl gy, fn xln, possibly dolom. chalky in pt, Mostly dns and hard.
* Apparent Formation Change!
LS cr-pl gy, vfn xln, dns, smooth text in pt
LS cr-gy, vfn xln, dns, smooth text in pt, subsucr text in pt, Abund Brt Min Flour
LS cr- gy-grnish, vfn xln, dns, smooth to subxln text, Sli increase in shale %: gy-grnish, Abund Brt Mineral Flour
Tg
C1
C2
C3
C4
TG, C1-C5
1
10
100
1000


6250
6300
6350
6400
conn
<< KINDER-
HOOK
< Viola, e-log
<< VIOLA
DST 6
CFS >
ROP (min/ft)
0
15
30% Shales gy-gmish
70% LS cr-gy-gmish, vfn xln, dns, silty in pt, Abund Brt Mineral Flour
40% Shales gy-gmish, some silty
LS wh-cr-pl gy, fn xln, dns, chalky in pt, silty text in pt, Brt Mineral Flour
Kinderhook 6280 (-4384)
50% Shales gy-grn, subsilty text, firm
LS wh-cr, fn xln, dns, silty to subsucr to subxln text in pt
65% Shales gy-gmish, subsilty in pt, firm
35% LS wh-cr-tan-gy, vfn xln, dns, hard, smooth to subxln text
Viola 6307 (-4411)
(6330' spl): Trace of Dol in spls,tan-brn, dns, subsucr-sucrosic text, vfn-fn xln, Fr am't of chert: fresh, tan, subtransl-transl
Dol vfn-fn xln, dns, subsucr-sucrosic, pr crush, incr in chert: fresh, tan-gy, subtr-transl, some dull mineral flour
[No Show In Spls]
Dol gy-tan, vfn-fn xln, pr-fr vis xln por, pr-gd crush, sucrosic text, Abund gy-tan chert: fresh, transl, scatt dk min specks embedded
[No Show In Spls]
(Shale % high after DST6)
Dol (possibly limey dol-dolom ls) tan-gy, vfn xln, subsucrosic-sucrosic, dns, pr-fr crush, Cherty: fresh, tan, transl
Dolom LS-Limey Dol. gy-tan, vfn-fn xln, dns to pr vis xln por, subsucr-sucr, pr-fr crush, cherty: mostly tan-gy fresh transl, some wh, opaq
[No Show In Spls]
TG
C1
C2
C3
C4
7:00 AM, September 13, 2011
Possible Gas Show
35 unit TG bckground
incr from 6310-6350
Mud Check @ 6338', Drlg:
Vis Wt WL LCM PV YP
50 9.1 +2 6.5 15 15
Chl Hd pH
5000 80 10.5
DST #6: 6315-6350
Times: 30-60-30-60
Initial Blow: V Wsurf.
Final Blow: V Wk surf.
Rec: 20' mud
IHP: 3136 FHP: 3053
IFP: 21-25 FFP: 23-23
ISIP: 110 FSIP: 85
BHT: 128 *
7:00 AM, September 14, 2011
Possible V Sli
Gas Show, 25
unit TG incr
Possible Sli Gas
Show, 75 unit TG
incr
WOP
TG, C1-C5
1
10
100
1000


conn
conn
conn
conn
conn/CFS>
CFS>
6450
6500
6550
<< SIMPSON
D S T 7
* Fished cone and bit shank out of hole after DST #7 @ 6551', pryor to drilling ahead!
Limey Dol-Dolom Ls, cr-tan-gy, vfn-fn xln, dns, Abund Chert: fresh, tan-brn-gy, transl-subtransl,
[No Show In Spls]
Limey Dol-Dolom Ls, cr-tan-gy, vfn-fn xln, dns, Abund Chert: fresh, tan-brn-gy, transl-subtransl
LS-Dolom LS cr-gy, vfn-fn xln, dns, cherty
[No Show In Spls]
LS cr-tan, vfn-fn xln, dns, some subchalky ls, chert: fresh, tan, transl-subtransl
(Sli Incr in gy-grnish shales)
LS wh-cr-tan, vfn-fn xln, dns, chalky in pt, foss in pt, chert: fresh, tan, subtransl-transl
SH grnish-gy
LS wh-cr-tan, fn xln, dns and hard to softer and chalky, foss in pt, cherty
6530' Spl: Sli Incr in grn-grnish gy shale, subwaxy to subsilty, possibly some lithology change to incr dol.
SH grnish-grn
Simpson 6525 (-4629)
Dol Ls-Limey Dol,wh-cr-tan, vfn-fn xln, por vis xln por to dns, silty-subsucr text, pr -gd crush, widley scatt fn sd grns embedded in Dol, some md xln, subrhombic dol. with pr-fr xln por
[No Odor, No Show of Oil or Gas, Few pcs with widely scatt specks of Brt Flour-appears to be mineral specks]
Abund grnish-grn subwaxy-waxy shale in spls
Some wh-cr dol in spls
?
TG
C1
C2
C3
C4
7:00 AM, September 15, 2011
Poss Sli TG Gas Incr-75 units
DST #7: 6517-6551
Times: 30-60-30-60
Initial Blow: V. wk.
Final Blow: None
Rec: 10' mud
IHP: 3248 FHP: 3143
IFP: 20-22 FFP: 22-22
ISIP: 526 FSIP: 111
BHT: 130*
7:00 AM, September 16, 2011
Mud Check @ 6551, trip to fish
Vis Wt WL LCM
72 9.2 13.6 9


conn
0
ROP (m/n/ft)
15
6600
conn
(Basal Simpson Sand)
< CFS&conn
<< ARBUCKLE
6650
CFS >
DST 8
< CFS&conn
CFS >
<< RTD
6700
Dol cr-tan-brn-gy, vfn-fn-md xln, mostly dns to pr vis xln por, sucrosic text to subrhombic
SD gy, fn-md grn, pr-fr sort, rd-subrd, clean to cem,pr-gd crush, pr-gd grnlr por, scatt crs dk gy shale fragments
SH grn, waxy-subwaxy
SH grn, waxy-subwaxy, some silty
(Shale poorly to fairly represented in spls)
Sd, Shale, Dol in even proportions in 6640' sample, some shale dk gy to blk, scatt foss, scatt embedded pyrite
[No Show In Samples]
SD clear-gy, fn-md grn, fr sort, mostly loose grns in samples, rd-subsd, some clusters, pr-gd intergrnlr por, fr-gd fri, some pyritic, scatt embedded shale frags
Dol gy-cr-tan,vfn-fn xln, sucrosic, pr-fr interxln por, pr-gd crush, Rr foss, Rr pyritic
[No Show in Spls to 6645']
Arbuckle 6650 (-4754)
6670' spl: flood of Dol.
Dol mostly cr-some tan-pl gy, fn xln, sucrosic, Rr md xln-subrhombic pcs, pr-fr-gd xln por, pr-fr-gd crush, scatt to abund pp porosity, chert: fresh, wh-cr-tan, opaq to tr of subtransl, foss
[No Show In Samples]
Dol wh-cr-tan-gy, fn xln, dns in pt, pr-gd xln por in pt, scatt pp por, sli cherty, scatt sdy in pt
[No Show In Samples]
Dol cr-tan-gy, vfn-fn xln, dns, subsucr-sucrosic, pr-fr crush, sdy in pt, pyritic in pt
<---------- RTD 6700 (-4804)
TG, C1-C4
10
100
1000
Shale Gas Incr 75 units (arrived before Drlg Brk)
? Gas Incr after shale gas incr?
7:00 AM, September 17, 2011
Poss. TG incr 80 units
Recycle 35 units
Poss. Gas incr 55 units, From 6670-80 C3&C4 % increased
TG
C1
C2
C3
C4
Mud Check @ 6700' CFS:
Vis Wt WL LCM PV YP
55 9.1 12.8 10 16 20
Chl Hd pH
8100 40 10.0
(add premix to log)
DST #8: 6648-6681 (Straddle)
Times: 02-60-90-120
Initial Blow: Wk, built to 1 inch


6750
Final Blow: Stg, b.o.b. 30 min
Rec: 550' mcw 90% wtr 10% mud
Chlorides of wtr/33000 ppm
IHP: 3410 FHP: 3253
IFP: 25-57 FFP: 49-303
ISIP: 2615 FSIP: 2590
BHT: 143°