KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1104043

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 # 31725
Name: Shelby Resources LLC
Address 1: 445 Union Boulevard
Address 2: Suite 208
City: LAKEWOOD State: CO Zip: 80228 + __ __ __ __
Contact Person: Chris Gottschalk
Phone: (720) 274-4682
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Charlie Sturdavant
Purchaser:

Designate Type of Completion:

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

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [x] 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 #:

01/31/2012	02/09/2012	04/17/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21668-00-00
Spot Description:
NE - NW - NE - SW Sec. 13 Twp. 21 S. R. 16 [ ] East [x] West
2530 Feet from [ ] North / [x] South Line of Section
1803 Feet from [ ] East / [x] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [ ] NE
- [ ] NW
- [ ] SE
- [x] SW

County: Pawnee
Lease Name: F-N Unit Well #: 1b
Field Name:
Producing Formation: N/A
Elevation: Ground: 1964 Kelly Bushing: 1973
Total Depth: 3900 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 965 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: 25000 ppm Fluid volume: 1000 bbls
Dewatering method used: Haul Off Pit

Location of fluid disposal if hauled offsite:

Operator Name: Shelby Resources/ Captiva II
Lease Name: Eakin #2-7 License #: 31725
Quarter NE Sec. 7 Twp. 22 S. R. 16 [ ] East [x] West
County: Pawnee Permit #: D-30,939-1-1772772

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:**
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrison **Date:** 12/12/2012

Side Two

1104043

Operator Name: Shelby Resources LLC Lease Name: F-N Unit Well #: 1b

Sec. 13 Twp. 21 S. R. 16 ☐ East ☑ West County: Pawnee

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:
Attached

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

Name	Top	Datum
Heebner	3340	-1367
Lansing	3448	-1475
Base KC	3675	-1702
Viola	3728	-1755
Simpson Sand	3782	-1809
Arbuckle	3798	-1825

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
Surface	12.25	8.625	24	965	60/40 Poz	450	2% gel/ 3%cc
Production	7.875	5.5	15.5	3878	AA2	150	2%gel/ 3% cc

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
3814-3816	AA2	50	D.O.C.
-			

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	3820-22	CIBP	3819'
4	3820-22	CIBP	3819
4	3814-16	250 20% INS	

TUBING RECORD: Size: 2.387 Set At: 3816 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 04/17/2012

Producing Method: ☑ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		200	60		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

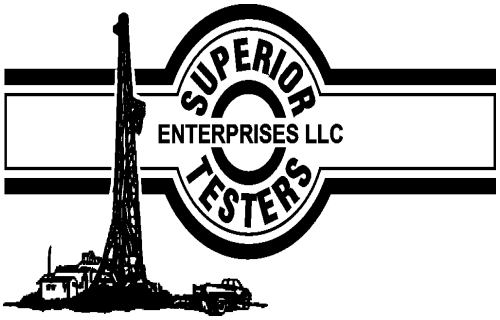
PRODUCTION INTERVAL:

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

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	F-N Unit 1b
Doc ID	1104043

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Captiva 2**

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

F-N Unit # 1-B

13-21s-16w-Pawnee

Start Date: 2012.02.06 @ 04:35:00

End Date: 2012.02.06 @ 11:17:00

Job Ticket #: 17181 DST #: 1

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2012.02.06 @ 23:32:39

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:46:30
Time Test Ended: 11:17:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3760.00 ft (KB) To 3805.00 ft (KB) (TVD)
Total Depth: 3805.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

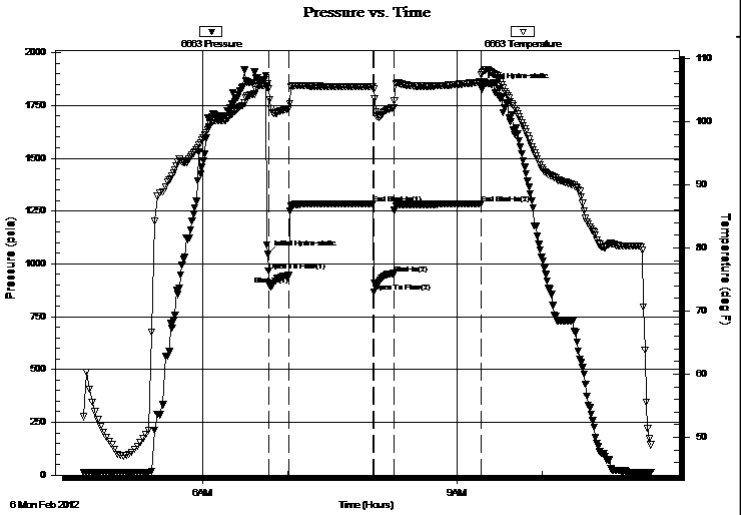
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6663 **Outside**

Press@RunDepth: 954.78 psia @ 3802.00 ft (KB)
Start Date: 2012.02.06 End Date: 2012.02.06
Start Time: 04:35:00 End Time: 11:17:00

Capacity: 5000.00 psia
Last Calib.: 2012.02.06
Time On Btm: 2012.02.06 @ 06:46:00
Time Off Btm: 2012.02.06 @ 09:17:00

TEST COMMENT: 1st Open 15 minutes Strong blow bottom bucket instantly .
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1044.60	106.07	Initial Hydro-static
1	965.26	105.29	Open To Flow (1)
15	945.07	102.08	Shut-In(1)
75	1285.32	105.59	End Shut-In(1)
75	868.41	105.19	Open To Flow (2)
89	954.78	102.22	Shut-In(2)
151	1283.68	106.28	End Shut-In(2)
151	1832.52	107.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	12.00	344.99
Last Gas Rate	1.00	13.20	379.48
Max. Gas Rate	1.00	13.20	379.48

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:46:30
Time Test Ended: 11:17:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3760.00 ft (KB) To 3805.00 ft (KB) (TVD)
Total Depth: 3805.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

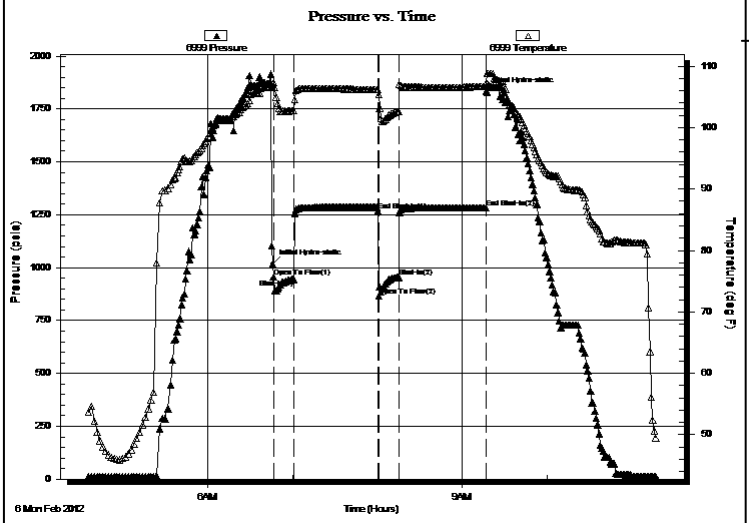
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6999 **Inside**

Press@RunDepth: 1283.49 psia @ 3801.00 ft (KB)
Start Date: 2012.02.06 End Date: 2012.02.06
Start Time: 04:35:00 End Time: 11:16:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.06
Time On Btm: 2012.02.06 @ 06:46:00
Time Off Btm: 2012.02.06 @ 09:17:00

TEST COMMENT: 1st Open 15 minutes Strong blow bottom bucket instantly .
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1017.50	107.17	Initial Hydro-static
1	955.75	107.36	Open To Flow (1)
15	944.26	102.75	Shut-In(1)
75	1268.79	106.17	End Shut-In(1)
75	865.42	105.41	Open To Flow (2)
89	953.93	102.64	Shut-In(2)
151	1283.49	106.72	End Shut-In(2)
151	1830.56	107.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	12.00	344.99
Last Gas Rate	1.00	13.20	379.48
Max. Gas Rate	1.00	13.20	379.48

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

Tool Information

Drill Pipe:	Length:	3497.00 ft	Diameter:	3.80 inches	Volume:	49.05 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	252.50 ft	Diameter:	2.25 inches	Volume:	1.24 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	50.29 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		17.50 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		3760.00 ft						Final	71000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		45.00 ft							
Tool Length:		73.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3737.00		
Hydrolic Tool	5.00			3742.00		
Jars	6.00			3748.00		
Safety Joint	2.00			3750.00		
Packer	5.00			3755.00	28.00	Bottom Of Top Packer
Packer	5.00			3760.00		
Perforations	40.00			3800.00		
Recorder	1.00	6999	Inside	3801.00		
Recorder	1.00	6663	Outside	3802.00		
Bull Plug	3.00			3805.00	45.00	Bottom Packers & Anchor
Total Tool Length:	**73.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

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:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	6800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud 100%	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gas to surface.

DRILL STEM TEST REPORT

GAS RATES

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

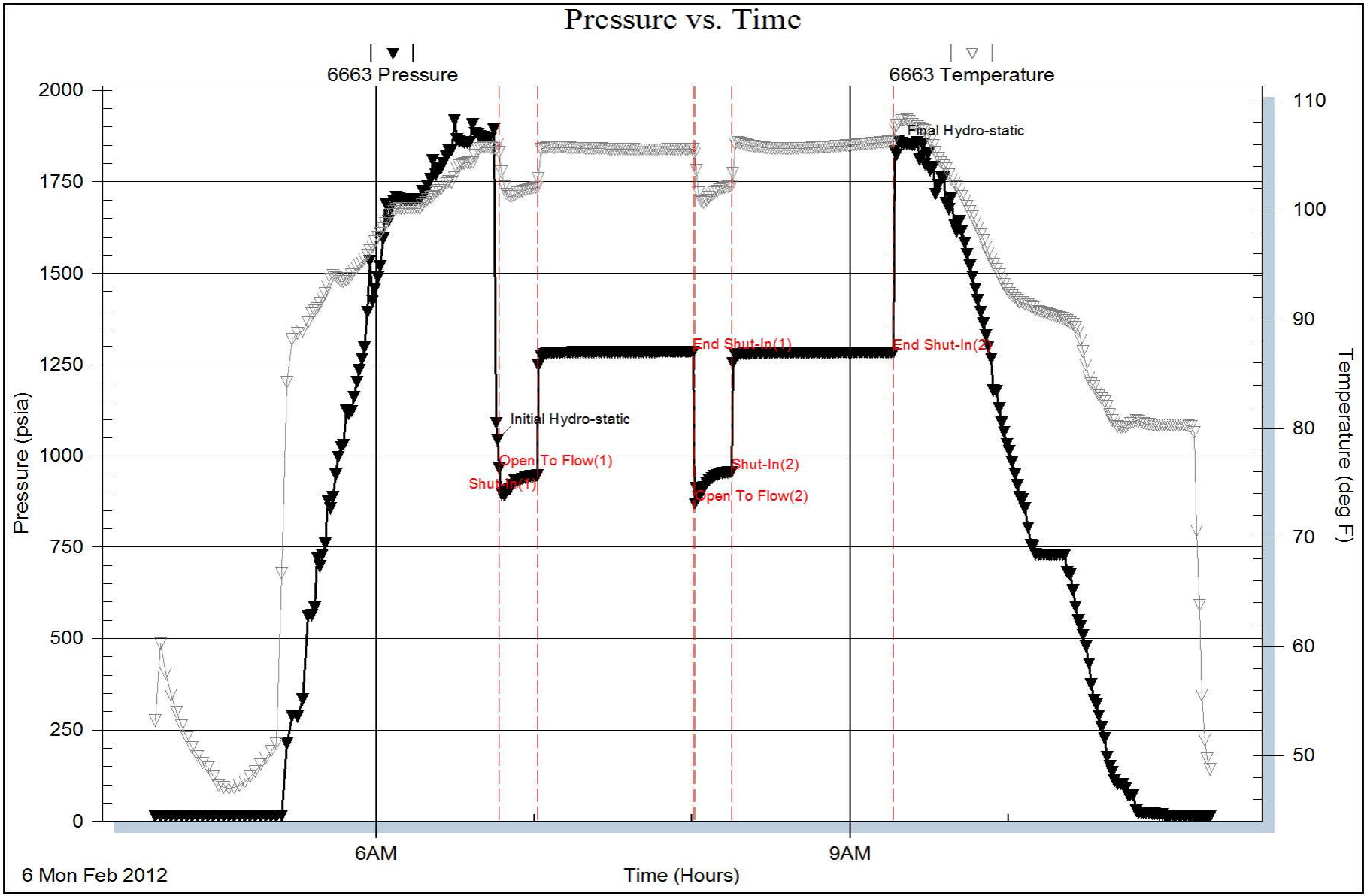
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

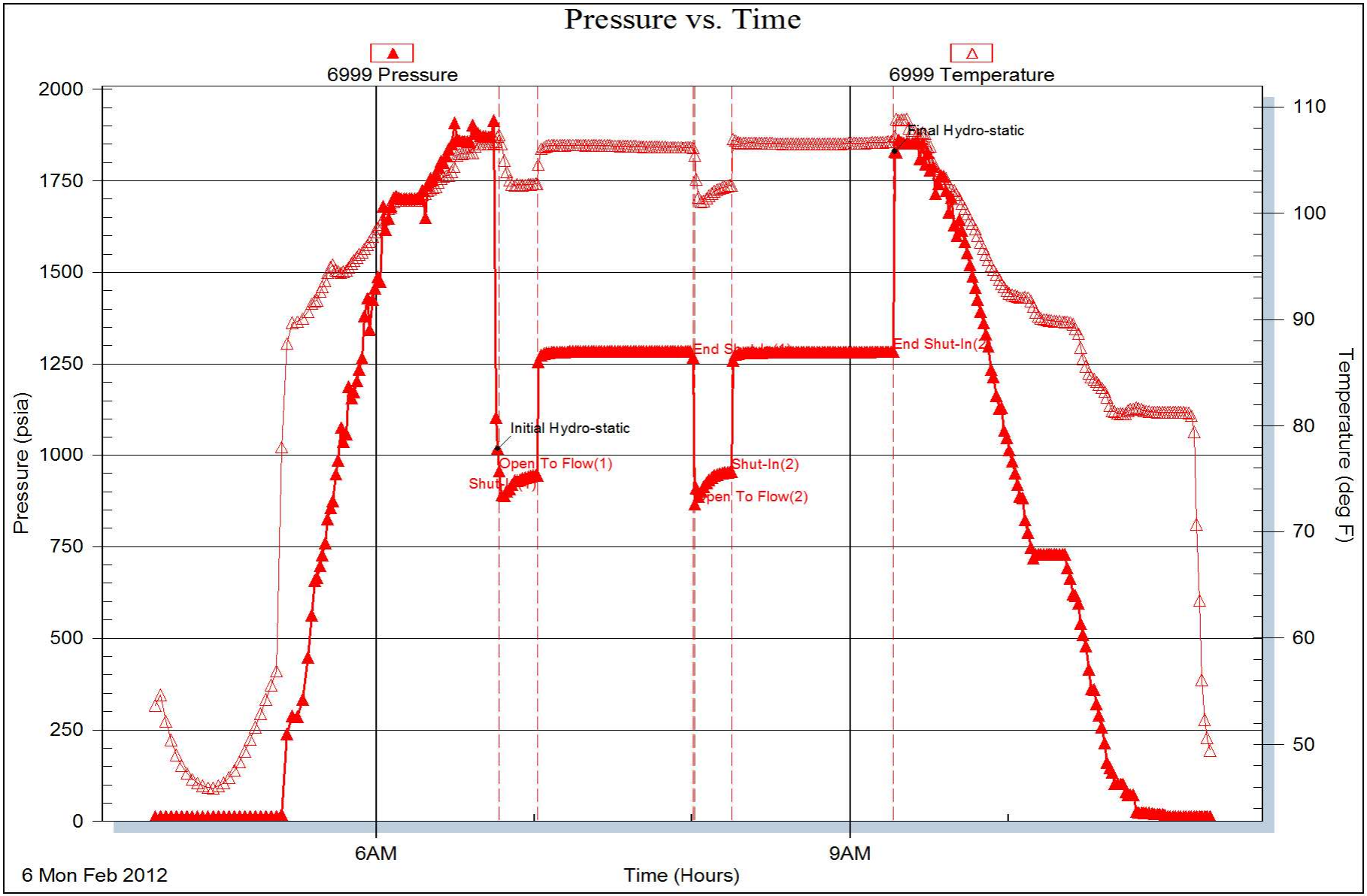
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	10	1.00	12.00	344.99
2	20	1.00	12.00	344.99
3	30	1.00	13.20	379.48
4	40	1.00	13.20	379.48

Serial #: 6663 **Outside** Captiva 2 F-N Unit # 1-B DST Test Number: 1

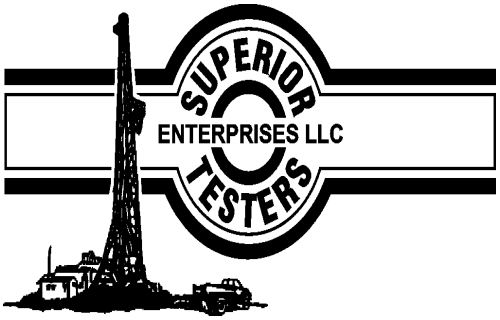


Superior Testers Enterprises LLC Ref. No: 17181 Printed: 2012.02.06 @ 23:32:40

Serial #: 6999 **Inside** Captiva 2 F-N Unit # 1-B DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 17181 Printed: 2012.02.06 @ 23:32:40



DRILL STEM TEST REPORT

Prepared For: **Captiva 2**

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

F-N Unit # 1-B

13-21s-16w-Pawnee

Start Date: 2012.02.07 @ 06:39:00

End Date: 2012.02.07 @ 12:28:30

Job Ticket #: 17182 DST #: 2

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2012.02.07 @ 12:41:52

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:24:30
Time Test Ended: 12:28:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3807.00 ft (KB) To 3820.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

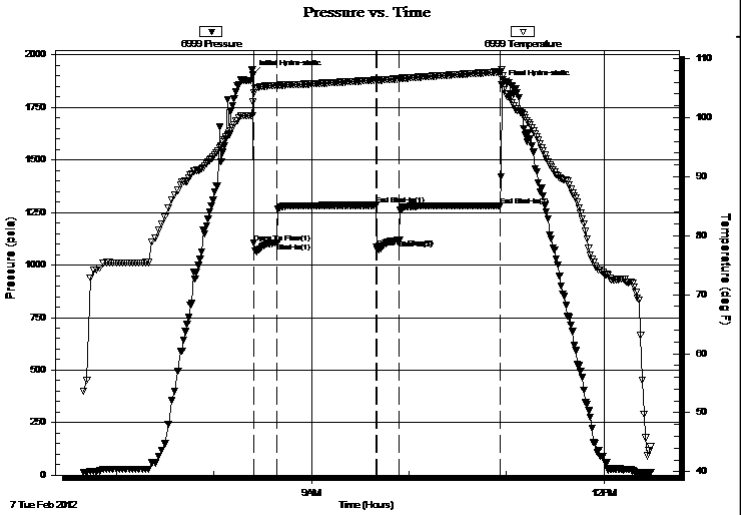
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6999 **Inside**

Press@RunDepth: 1119.38 psia @ 3816.00 ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 06:39:00 End Time: 12:28:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.07
Time On Btm: 2012.02.07 @ 08:24:00
Time Off Btm: 2012.02.07 @ 10:57:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow blew bottom bucket instantly.
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1903.92	102.61	Initial Hydro-static
1	1103.75	104.18	Open To Flow (1)
15	1105.57	105.45	Shut-In(1)
76	1284.31	106.37	End Shut-In(1)
76	1083.60	106.32	Open To Flow (2)
90	1119.38	106.59	Shut-In(2)
152	1282.60	107.76	End Shut-In(2)
153	1858.12	108.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Clean oil 100%	0.01

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	13.80	396.73
Last Gas Rate	1.00	13.80	396.73

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:24:30
Time Test Ended: 12:28:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3807.00 ft (KB) To 3820.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

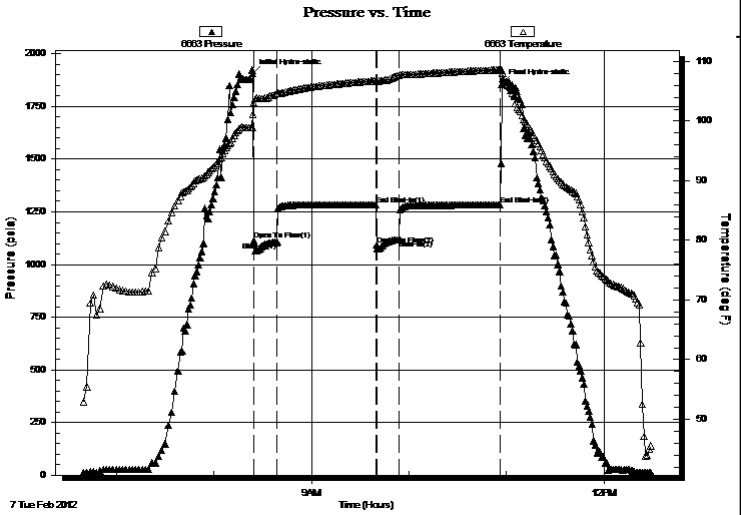
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6663 **Outside**

Press@RunDepth: 1282.65 psia @ 3817.00 ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 06:39:00 End Time: 12:28:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.07
Time On Btm: 2012.02.07 @ 08:24:00
Time Off Btm: 2012.02.07 @ 10:57:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow blew bottom bucket instantly.
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1905.36	101.19	Initial Hydro-static
1	1115.43	103.07	Open To Flow (1)
15	1106.37	104.66	Shut-In(1)
76	1284.20	106.75	End Shut-In(1)
76	1094.22	106.68	Open To Flow (2)
90	1119.27	107.68	Shut-In(2)
152	1282.65	108.60	End Shut-In(2)
153	1856.99	108.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Clean oil 100%	0.01

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	13.80	396.73
Last Gas Rate	1.00	13.80	396.73

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

Tool Information

Drill Pipe:	Length:	3535.00 ft	Diameter:	3.80 inches	Volume:	49.59 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	252.50 ft	Diameter:	2.25 inches	Volume:	1.24 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	50.83 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		8.50 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		3807.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		13.00 ft							
Tool Length:		41.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3784.00		
Hydrolic Tool	5.00			3789.00		
Jars	6.00			3795.00		
Safety Joint	2.00			3797.00		
Packer	5.00			3802.00	28.00	Bottom Of Top Packer
Packer	5.00			3807.00		
Perforations	8.00			3815.00		
Recorder	1.00	6999	Inside	3816.00		
Recorder	1.00	6663	Outside	3817.00		
Bull Plug	3.00			3820.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

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:	44.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	6800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Clean oil 100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

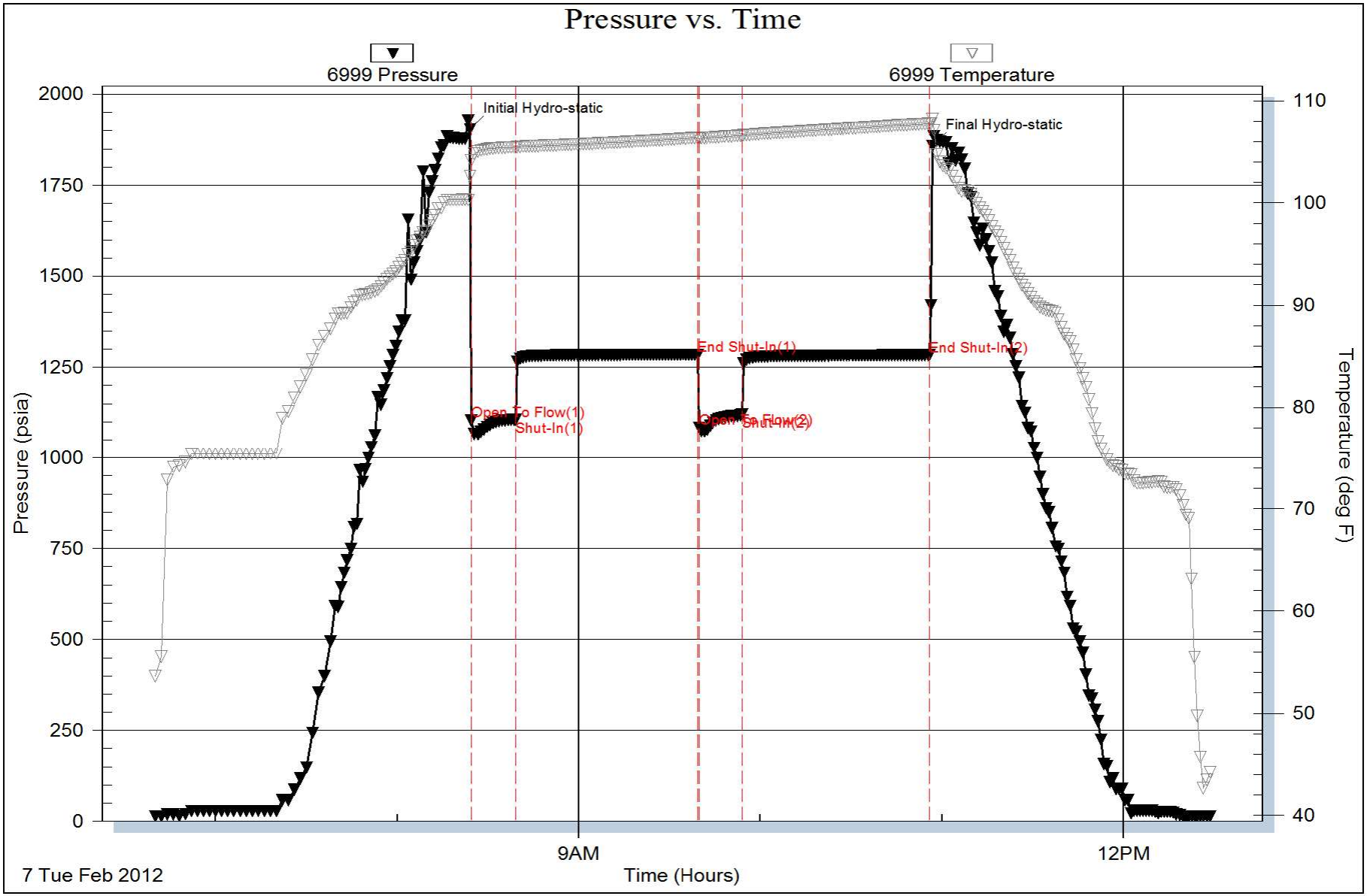
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

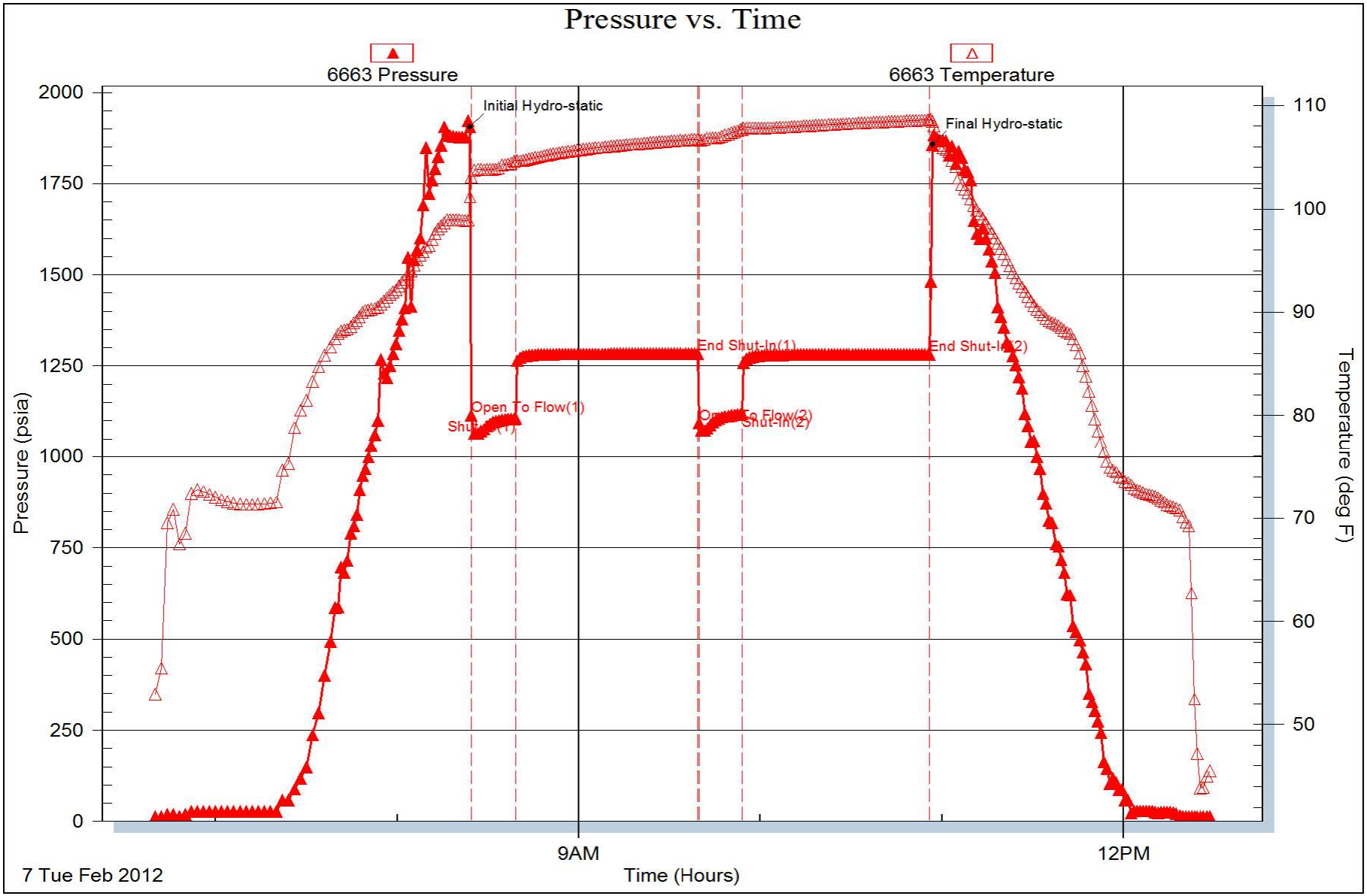
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	10	1.00	13.80	396.73
1	10	1.00	13.80	396.73

Serial #: 6999 **Inside** Captiva 2 F-N Unit # 1-B DST Test Number: 2

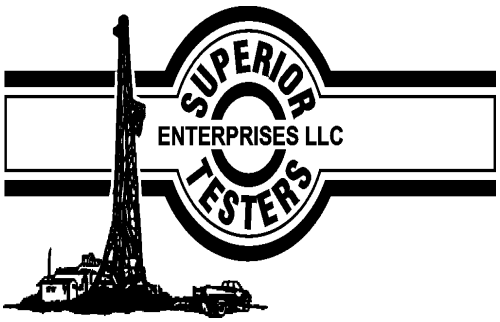


Superior Testers Enterprises LLC Ref. No: 17182 Printed: 2012.02.07 @ 12:41:53

Serial #: 6663 **Outside** Captiva 2 F-N Unit # 1-B DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 17182 Printed: 2012.02.07 @ 12:41:53



DRILL STEM TEST REPORT

Prepared For: **Captiva 2**

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

F-N Unit # 1-B

13-21s-16w-Pawnee

Start Date: 2012.02.07 @ 07:30:00

End Date: 2012.02.07 @ 16:06:53

Job Ticket #: 17183 DST #: 3

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2012.02.08 @ 05:00:22

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17183 **DST#: 3**

Test Start: 2012.02.07 @ 07:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:22:53
Time Test Ended: 16:06:53

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-30 m

Interval: 3820.00 ft (KB) To 3833.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

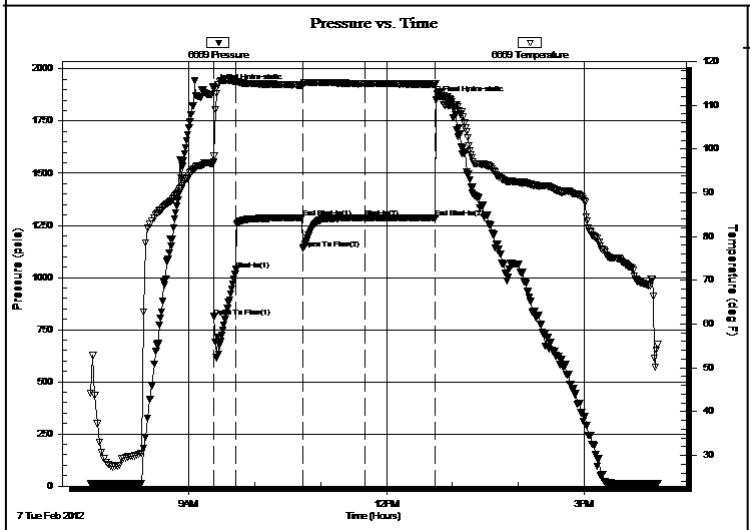
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6669

Press@RunDepth: 1285.71 psia @ ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 07:30:00 End Time: 16:06:53

Capacity: 5000.00 psia
Last Calib.: 2012.02.08
Time On Btm: 2012.02.07 @ 09:22:23
Time Off Btm: 2012.02.07 @ 12:44:53

TEST COMMENT: 1st Open 20 minutes Strong blow bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 60 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1904.18	97.16	Initial Hydro-static
1	812.64	98.38	Open To Flow (1)
21	1039.22	115.45	Shut-In(1)
81	1286.47	114.62	End Shut-In(1)
82	1139.21	114.72	Open To Flow (2)
138	1285.71	114.92	Shut-In(2)
202	1287.02	114.83	End Shut-In(2)
203	1850.41	114.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil cut mud 20%Oil 80% Mud	0.30
90.00	Oil and gas cut mud 20%gas 40%oil 50%	0.44
60.00	Clean oil 100%	0.30
90.00	Oil cut muddy w ater 10%oil70%mud20%	0.88
150.00	Mud cut oil 5%oil 95%mud	2.10
2468.00	Salt w ater 100%	34.62

Gas Rates

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

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17183 **DST#: 3**

Test Start: 2012.02.07 @ 07:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:22:53
Time Test Ended: 16:06:53

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-30 m

Interval: 3820.00 ft (KB) To 3833.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

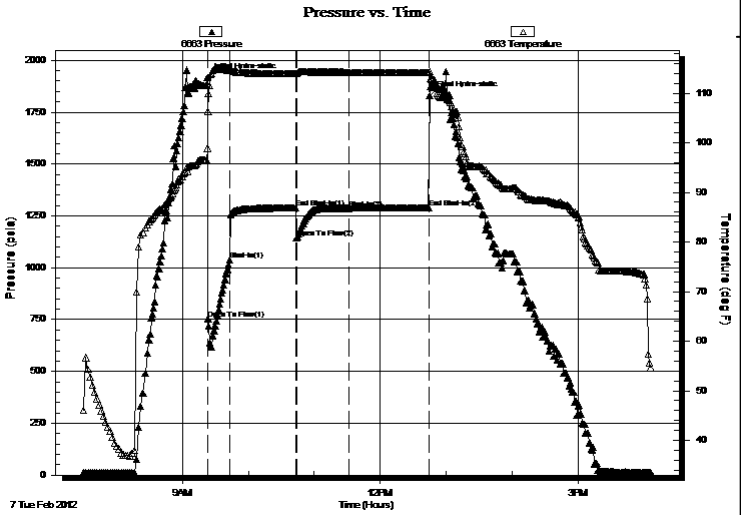
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6663

Press@RunDepth: 1288.72 psia @ ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 07:30:00 End Time: 16:06:23

Capacity: 5000.00 psia
Last Calib.: 2012.02.08
Time On Btm: 2012.02.07 @ 09:22:53
Time Off Btm: 2012.02.07 @ 12:44:53

TEST COMMENT: 1st Open 20 minutes Strong blow bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 60 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1917.13	98.88	Initial Hydro-static
1	753.58	106.32	Open To Flow (1)
20	1037.97	114.60	Shut-In(1)
81	1288.14	113.96	End Shut-In(1)
81	1143.46	113.94	Open To Flow (2)
129	1285.95	114.17	Shut-In(2)
202	1288.72	114.17	End Shut-In(2)
202	1831.00	114.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil cut mud 20%Oil 80% Mud	0.30
90.00	Oil and gas cut mud 20%gas 40%oil 50%	0.44
60.00	Clean oil 100%	0.30
90.00	Oil cut muddy w ater 10%oil70%mud20%	0.88
150.00	Mud cut oil 5%oil 95%mud	2.10
2468.00	Salt w ater 100%	34.62

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17183 **DST#: 3**

Test Start: 2012.02.07 @ 07:30:00

Tool Information

Drill Pipe:	Length:	3568.00 ft	Diameter:	3.80 inches	Volume:	50.05 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	252.50 ft	Diameter:	2.25 inches	Volume:	1.24 bbl	Weight to Pull Loose:		95000.00 lb
					Total Volume:	51.29 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.50 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		3820.00 ft						Final	84000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		13.00 ft							
Tool Length:		41.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments: Gas to surface.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3797.00		
Hydrolic Tool	5.00			3802.00		
Jars	6.00			3808.00		
Safety Joint	2.00			3810.00		
Packer	5.00			3815.00	28.00	Bottom Of Top Packer
Packer	5.00			3820.00		
Perforations	8.00			3828.00		
Recorder	1.00	6999	Inside	3829.00		
Recorder	1.00	6663	Outside	3830.00		
Bull Plug	3.00			3833.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17183 **DST#: 3**

Test Start: 2012.02.07 @ 07:30:00

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.40 ohm.m	Gas Cushion Pressure:	psia		
Salinity:	72000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Oil cut mud 20%Oil 80% Mud	0.295
90.00	Oil and gas cut mud 20%gas 40%oil 50%mud	0.443
60.00	Clean oil 100%	0.295
90.00	Oil cut muddy w ater 10%oil70%mud20%w ate	0.875
150.00	Mud cut oil 5%oil 95%mud	2.104
2468.00	Salt w ater 100%	34.620
0.00	Chlorides 18000	0.000

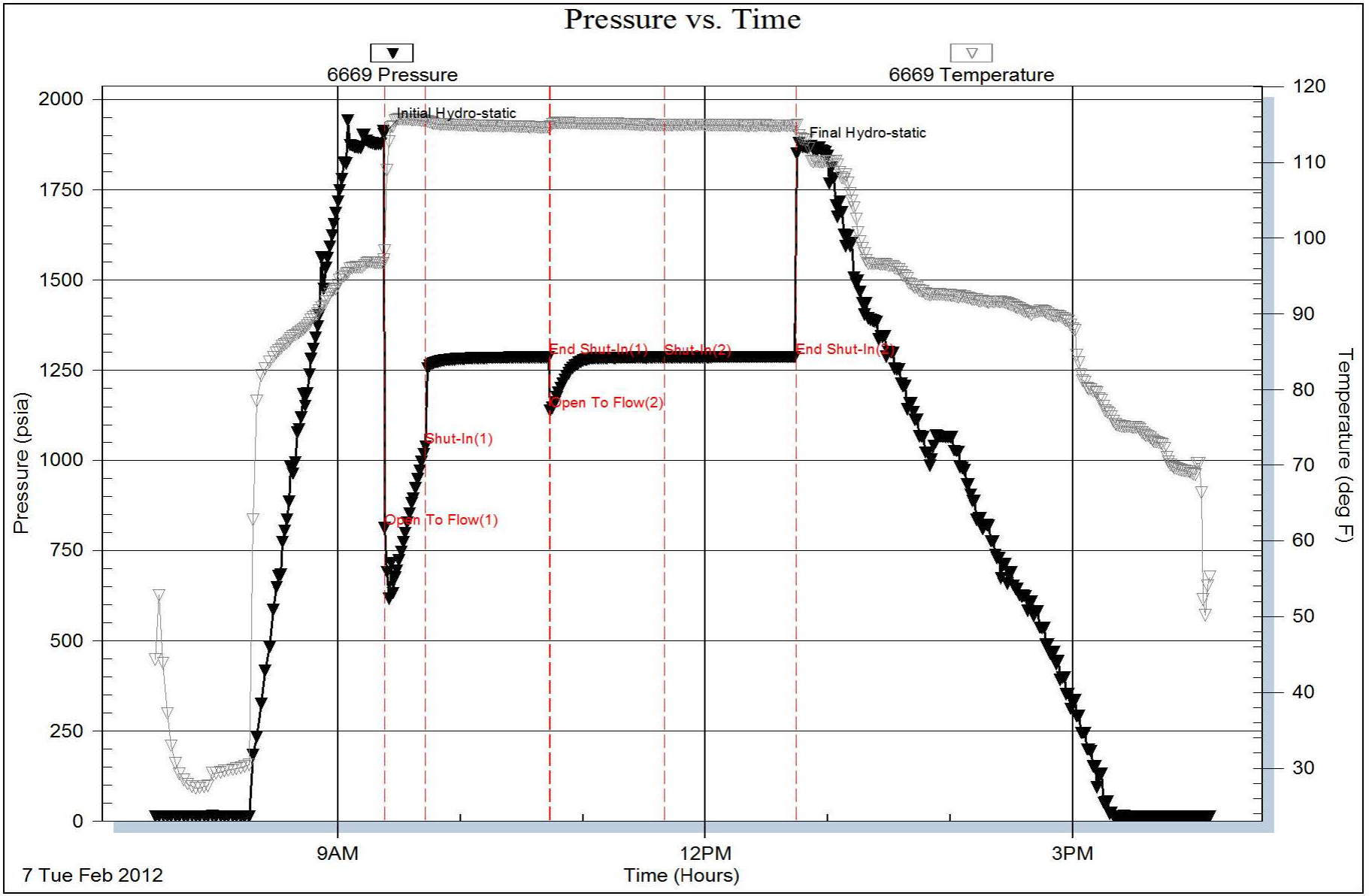
Total Length: 2918.00 ft Total Volume: 38.632 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

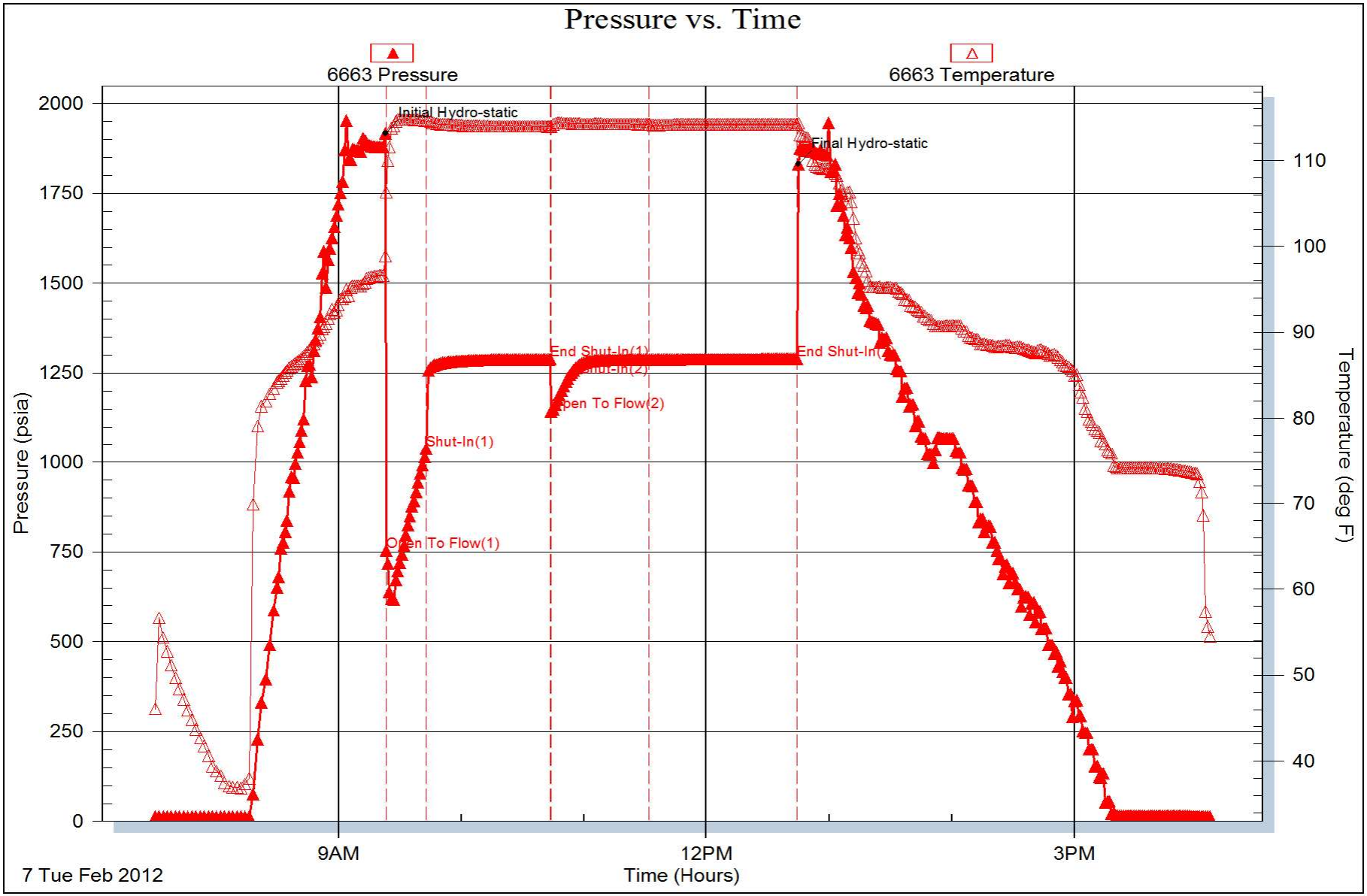
Recovery Comments:

Serial #: 6669 Captiva 2 F-N Unit # 1-B DST Test Number: 3



Superior Testers Enterprises LLC Ref. No: 17183 Printed: 2012.02.08 @ 05:00:23

Serial #: 6663 Captiva 2 F-N Unit # 1-B DST Test Number: 3



Superior Testers Enterprises LLC Ref. No: 17183 Printed: 2012.02.08 @ 05:00:23

Scale 1:240 Imperial

Well Name:	F-N Unit # 1-B		
Surface Location:	2530' FNL, 1803' FWL, Sec. 13 T21S R16W		
Bottom Location:			
API:	15-145-21668-00-00		
License Number:			
Spud Date:	1/31/2012	Time:	3:00 PM
Region:	Pawnee County		
Drilling Completed:	2/8/2012	Time:	10:38 AM
Surface Coordinates:	567837 & 1846600		
Bottom Hole Coordinates:			
Ground Elevation:	1964.00ft		
K.B. Elevation:	1973.00ft		
Logged Interval:	3000.00ft	To:	3901.00ft
Total Depth:	3900.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Captiva II		
Address:	445 Union Blvd., Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209		
Well Name:	F-N Unit # 1-B		
Location:	2530' FNL, 1803' FWL, Sec. 13 T21S R16W	API:	15-145-21668-00-00
Pool:		Field:	Wildcat
State:	Kansas	Country:	USA

LOGGED BY

Charlie Sturdavant Consulting

Company:	Charlie Sturdavant Consulting		
Address:	920 12th Street Golden, CO 80401		
Phone Nbr:	303-907-2295----303-384-9481		
Logged By:	Geologist	Name:	Charlie Sturdavant

NOTES

The Captiva II #1-B F-N Unit well was drilled to a LTD of 3900', bottoming in the Arbuckle. A TookeDAQ gas detector was employed during the drilling of all prospective formations. Gas was detected in the Viola and in the Arbuckle. Sample shows were noted in the Lansing "I" zone, Viola, and in the Arbuckle. Three drill stem tests were conducted in progressively deeper zones in the Arbuckle. Gas flowed to surface immediately during the first 2 tests, gauging as much as 396 MCFD.

After log analysis, sample evaluation, and the favorable DST's, it was determined by all parties involved, that production casing should be run, and that the Arbuckle should be further evaluated through perforations.

The dry samples were saved and will be available for review at the Kansas Geological Survey well sample library, located in Wichita, Kansas.

Respectfully submitted,
Charlie Sturdavant
Consulting Geologist

Daily Drilling Report

Charlie Sturdavant Consulting

DAILY DRILLING REPORT

Company: Charlie Sturdavant Consulting
920 12th Street
Golden, CO 80401

Captiva II
Jim Waechter
Office: 303-274-4682
Cell: 303-478-3388

Wellsite Geologist: Charlie Sturdavant
Cell: (303) 907-2295
Office: (303) 384-9481

Well: #1-B F-N Unit
Location: 2530' FSL & 1803' FWL
Sec. 13 T21S R16W
Pawnee County, KS

Elevation: 1973' KB 1964' GL
Field: Wildcat
API No.: 15-145-21668-0000
Surface Casing: 8 5/8" set @ 965 ' KB

Drilling Contractor: Sterling Drilling Rig #4 620-388-4192, Tool Pusher: Lanny Saloga, cell: 620-388-4193

DATE	7:00 AM DEPTH	REMARKS
1/31/2012	0 ft.	Skid rig 50' from the #1 F-N Unit location. Spud new hole @ 1500 hrs.
2/1/2012	770 ft.	Drilling ahead w/ 12-1/8" bit.
2/2/1012	965 ft.	WOC. Set 23 joints of new 24# 8-5/8" casing at 965'.
2/3/2012	1445 ft.	Drilling ahead.
2/4/2012	2530 ft.	Drilling ahead.
2/5/2012	3233 ft.	Drilling ahead.
2/6/2012	3739 ft.	Drillling ahead. To short trip at 3743'. DST #1: GTS 381 MCD, rec 65' mud.
2/7/2012	3820 ft.	To conduct DST #2, 3807-3820'.
2/8/2012	3833 ft.	CTCH. DST #3 recovered 450' OC, GC, MC, and clean oil, and 2468' water. Reach LTD of 3900' @ 1038 hrs. Logging completed @ 1930 hrs. Geologist off location @ 2000 hrs.

Well Comparison Sheet

Charlie Sturdavant Consulting

WELL COMPARISON SHEET

	DRILLING WELL Captiva II #1-B F-N Unit 2530' FSL & 1803' FWL Sec. 13, T21S R16W 1973 KB				COMPARISON WELL Captiva II #1-13 Fleske 2310' FSL & 1618' FEL Sec. 13, T21S R16W 1976 KB		Structural Relationship		COMPARISON WELL D. R. Lauck #1 Haney NW-SW-NW Sec. 13, T21S R16W 1975 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	955	1018	1010	963	952	1024	-6	-61	968	1007	11	-44
Tarkio	2781	-808	2782	-809	2780	-804	-4	-5	2788	-813	5	4
Elmont	2841	-868	2840	-867	2836	-860	-8	-7	2846	-871	3	4
Howard	2988	-1015	2986	-1013	2982	-1006	-9	-7	2990	-1015	0	2
Topeka	3069	-1096	3068	-1095	3064	-1088	-8	-7	3070	-1095	-1	0
Queen Hill	3236	-1263	3234	-1261	3232	-1256	-7	-5	3233	-1258	-5	-3
Heebner	3340	-1367	3338	-1365	3335	-1359	-8	-6	3341	-1366	-1	1
Toronto	3368	-1395	3356	-1383	3362	-1386	-9	3	3360	-1385	-10	2
Douglas	3378	-1405	3374	-1401	3372	-1396	-9	-5	3374	-1399	-6	-2
Brown Lime	3436	-1463	3436	-1463	3434	-1458	-5	-5	3436	-1461	-2	-2
Lansing	3448	-1475	3445	-1472	3447	-1471	-4	-1	3442	-1467	-6	-5
Stark Shale	3636	-1663	3633	-1660	3632	-1656	-7	-4	3636	-1661	-2	1
Base KC	3675	-1702	3676	-1703	3673	-1697	-5	-6	3680	-1705	3	2
Conglomerate	3690	-1717	3698	-1725	3700	-1724	7	-1	3709	-1734	17	9
Viola	3728	-1755	3728	-1755	3714	-1738	-17	-17	3730	-1755	0	0
Simpson Shale	3767	-1794	3770	-1797	3760	-1784	-10	-13	3776	-1801	7	4
Simpson Sand	3782	-1809	3772	-1799	3782	-1806	-3	7	3788	-1813	4	14
Arbuckle	3798	-1825	3798	-1825	3802	-1826	1	1	3819	-1844	19	19
Total Depth	3900	-1927	3896	-1923	3927	-1951	24	28	4000	-2025	98	102

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 567837
E/W Co-ord: 1846600

CONTRACTOR

Contractor: Sterling Drilling
Rig #: 4
Rig Type: mud rotary
Spud Date: 1/31/2012 Time: 3:00 PM
TD Date: 2/8/2012 Time: 10:38 AM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1973.00ft Ground Elevation: 1964.00ft
K.B. to Ground: 9.00ft

ROCK TYPES

Cht, Dolprim, Dolsec, Lmst fw<7, Lmst fw7>, shale, grn, Shgy, shale, gry, Carbon Sh, shale, red, Shcol, Ss

ACCESSORIES

MINERAL
- Calcareous
- Chert White
- Chert, dark
- Dolomitic

FOSSIL
- Algae
- Bioclastic or Fragmental
- Brachiopod
- Bryozoa

STRAT./SED. STRUCTS
- Stylolite
- Stylolites

STRINGER
- Shale
- green shale
- red shale

TEXTURE
- C Chalky
- L Lithogr

P Pyrite

Crinoids
F Fossils < 20%
Fussilinid
Oolites
Oomoldic
Pelloids
Pellets
Spicules

OTHER SYMBOLS

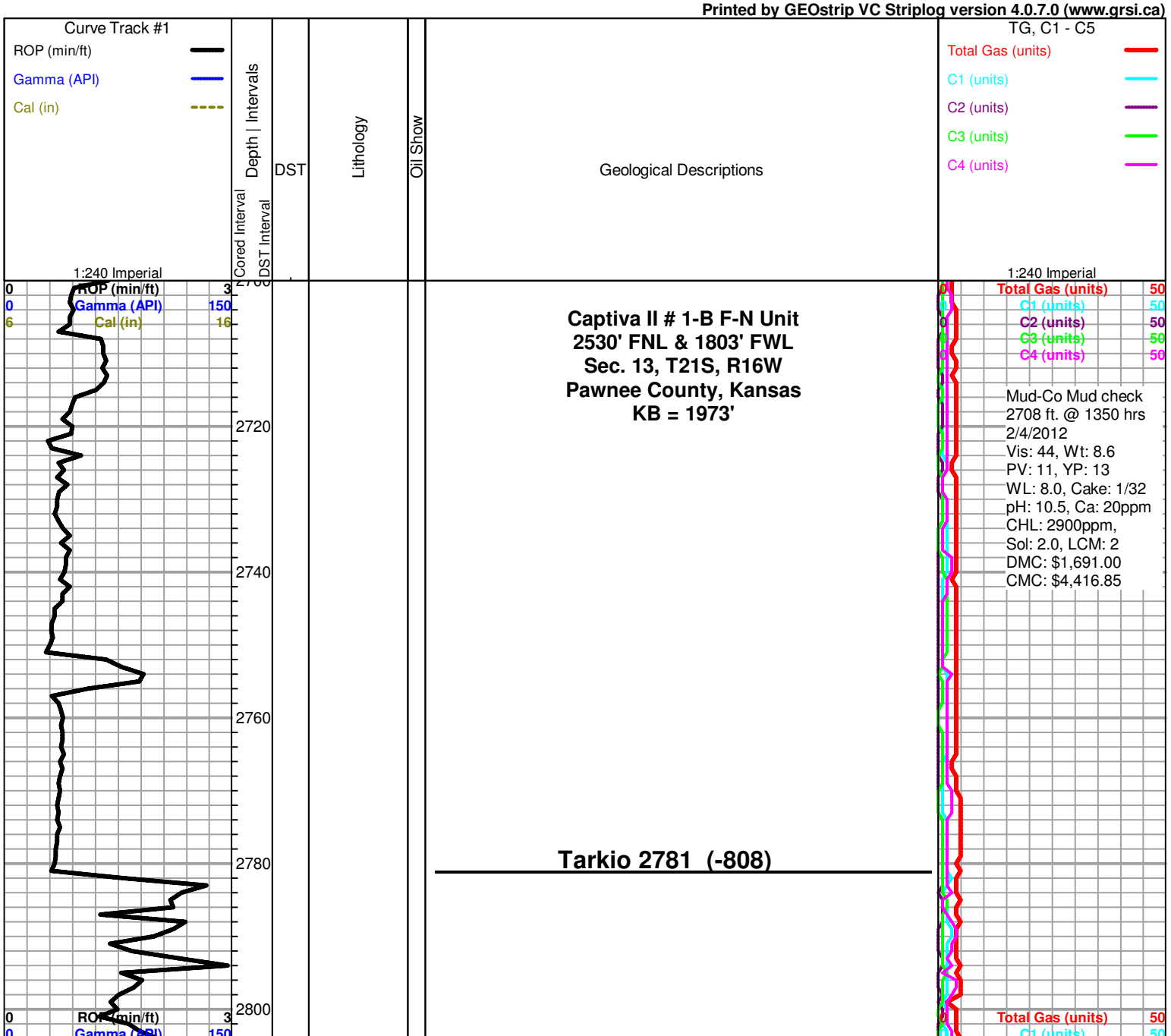
MISC

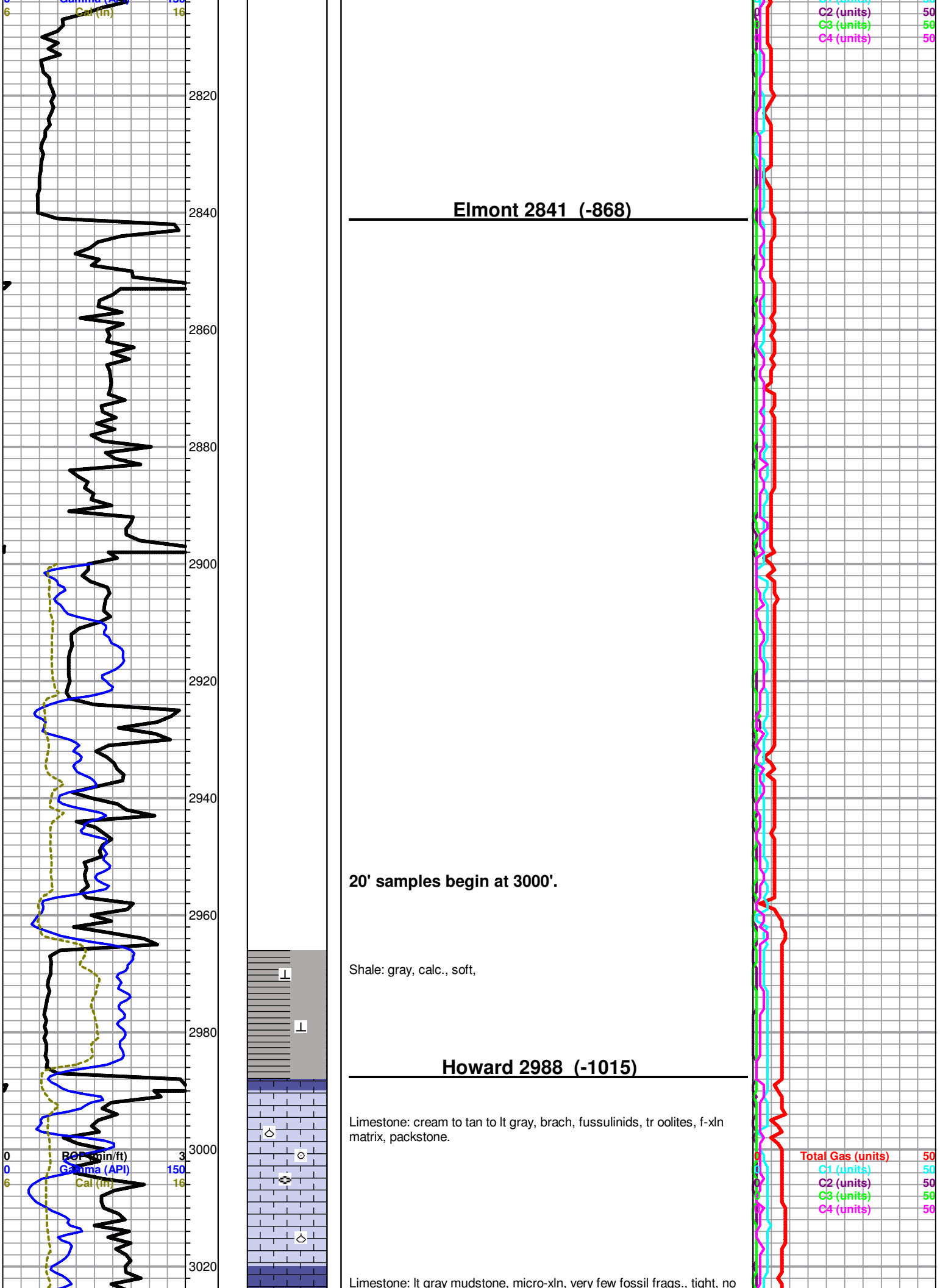
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

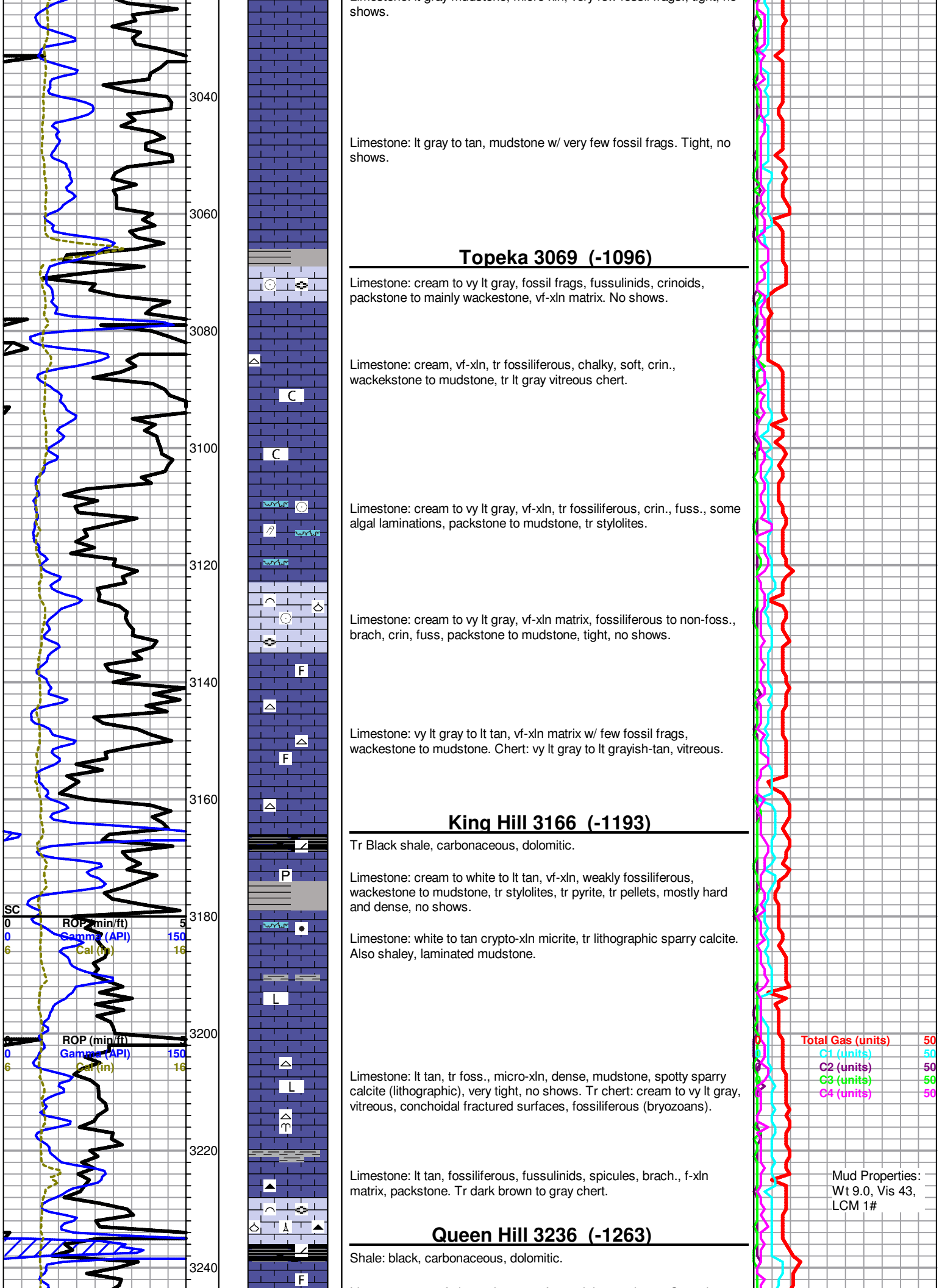
DST

DST Int
DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)




Cal (in) 6 16
2820
2840
Elmont 2841 (-868)
2860
2880
2900
2920
2940
20' samples begin at 3000'.
2960
Shale: gray, calc., soft,
2980
Howard 2988 (-1015)
Limestone: cream to tan to lt gray, brach, fussulinids, tr oolites, f-xln matrix, packstone.
ROP (min/ft) 0 3
Gamma (API) 0 150
Cal (in) 6 16
3000
3020
Limestone: lt gray mudstone, micro-xln, very few fossil frags., tight, no
C2 (units) 0 50
C3 (units) 0 50
C4 (units) 0 50
Total Gas (units) 0 50
C1 (units) 0 50
C2 (units) 0 50
C3 (units) 0 50
C4 (units) 0 50



shows.

Limestone: lt gray to tan, mudstone w/ very few fossil frags. Tight, no shows.

Topeka 3069 (-1096)

Limestone: cream to vy lt gray, fossil frags, fussulinids, crinoids, packstone to mainly wackestone, vf-xln matrix. No shows.

Limestone: cream, vf-xln, tr fossiliferous, chalky, soft, crin., wackekstone to mudstone, tr lt gray vitreous chert.

Limestone: cream to vy lt gray, vf-xln, tr fossiliferous, crin., fuss., some algal laminations, packstone to mudstone, tr stylolites.

Limestone: cream to vy lt gray, vf-xln matrix, fossiliferous to non-foss., brach, crin, fuss, packstone to mudstone, tight, no shows.

Limestone: vy lt gray to lt tan, vf-xln matrix w/ few fossil frags, wackestone to mudstone. Chert: vy lt gray to lt grayish-tan, vitreous.

King Hill 3166 (-1193)

Tr Black shale, carbonaceous, dolomitic.

Limestone: cream to white to lt tan, vf-xln, weakly fossiliferous, wackestone to mudstone, tr stylolites, tr pyrite, tr pellets, mostly hard and dense, no shows.

Limestone: white to tan crypto-xln micrite, tr lithographic sparry calcite. Also shaley, laminated mudstone.

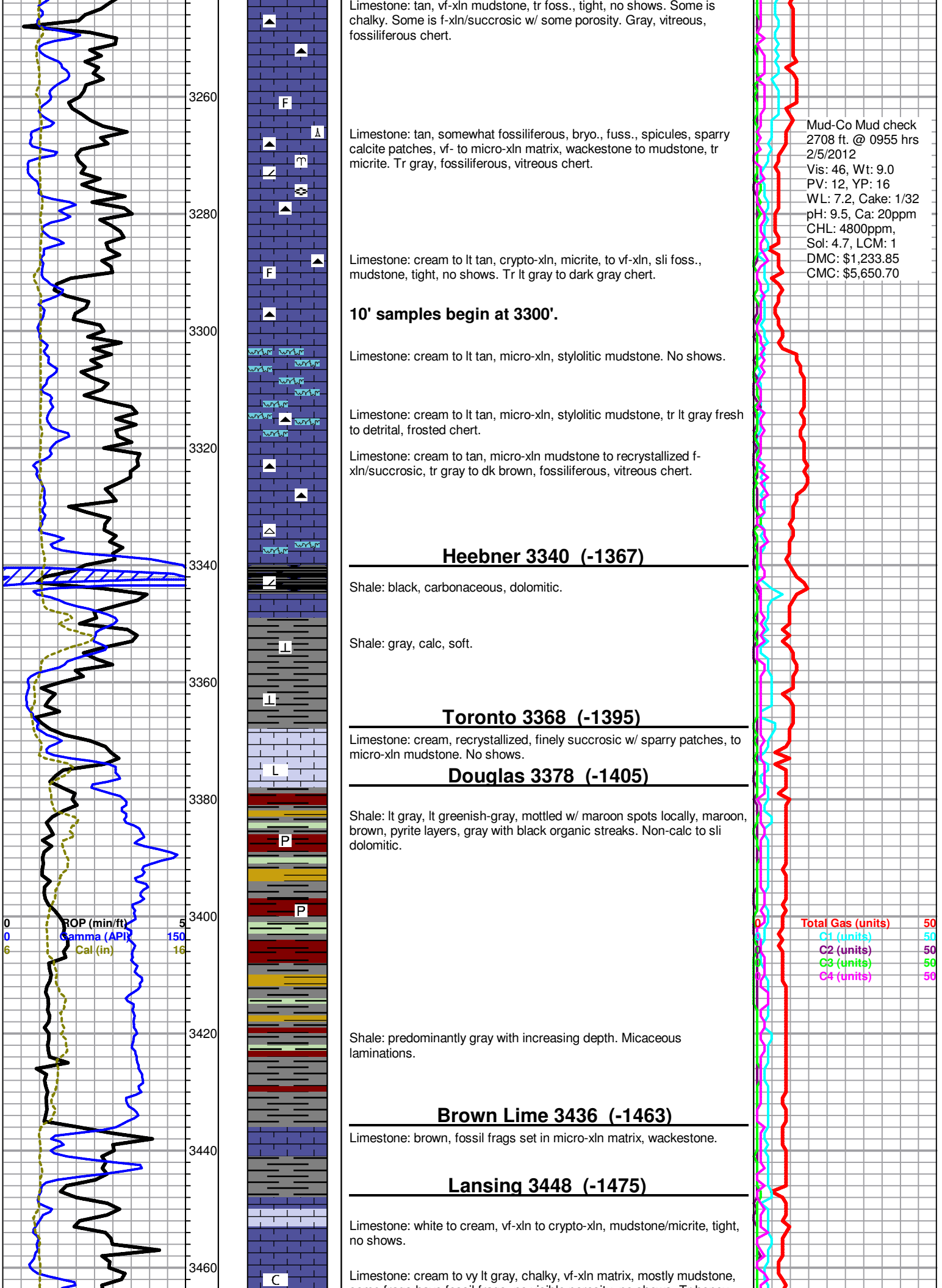
Limestone: lt tan, tr foss., micro-xln, dense, mudstone, spotty sparry calcite (lithographic), very tight, no shows. Tr chert: cream to vy lt gray, vitreous, conchoidal fractured surfaces, fossiliferous (bryozoans).

Limestone: lt tan, fossiliferous, fussulinids, spicules, brach., f-xln matrix, packstone. Tr dark brown to gray chert.

Mud Properties:
Wt 9.0, Vis 43,
LCM 1#

Queen Hill 3236 (-1263)

Shale: black, carbonaceous, dolomitic.



Limestone: tan, vf-xln mudstone, tr foss., tight, no shows. Some is chalky. Some is f-xln/succrosic w/ some porosity. Gray, vitreous, fossiliferous chert.

Limestone: tan, somewhat fossiliferous, bryo., fuss., spicules, sparry calcite patches, vf- to micro-xln matrix, wackestone to mudstone, tr micrite. Tr gray, fossiliferous, vitreous chert.

Limestone: cream to lt tan, crypto-xln, micrite, to vf-xln, sli foss., mudstone, tight, no shows. Tr lt gray to dark gray chert.

10' samples begin at 3300'.

Limestone: cream to lt tan, micro-xln, stylolitic mudstone. No shows.

Limestone: cream to lt tan, micro-xln, stylolitic mudstone, tr lt gray fresh to detrital, frosted chert.

Limestone: cream to tan, micro-xln mudstone to recrystallized f-xln/succrosic, tr gray to dk brown, fossiliferous, vitreous chert.

Heebner 3340 (-1367)

Shale: black, carbonaceous, dolomitic.

Shale: gray, calc, soft.

Toronto 3368 (-1395)

Limestone: cream, recrystallized, finely succrosic w/ sparry patches, to micro-xln mudstone. No shows.

Douglas 3378 (-1405)

Shale: lt gray, lt greenish-gray, mottled w/ maroon spots locally, maroon, brown, pyrite layers, gray with black organic streaks. Non-calc to sli dolomitic.

Shale: predominantly gray with increasing depth. Micaceous laminations.

Brown Lime 3436 (-1463)

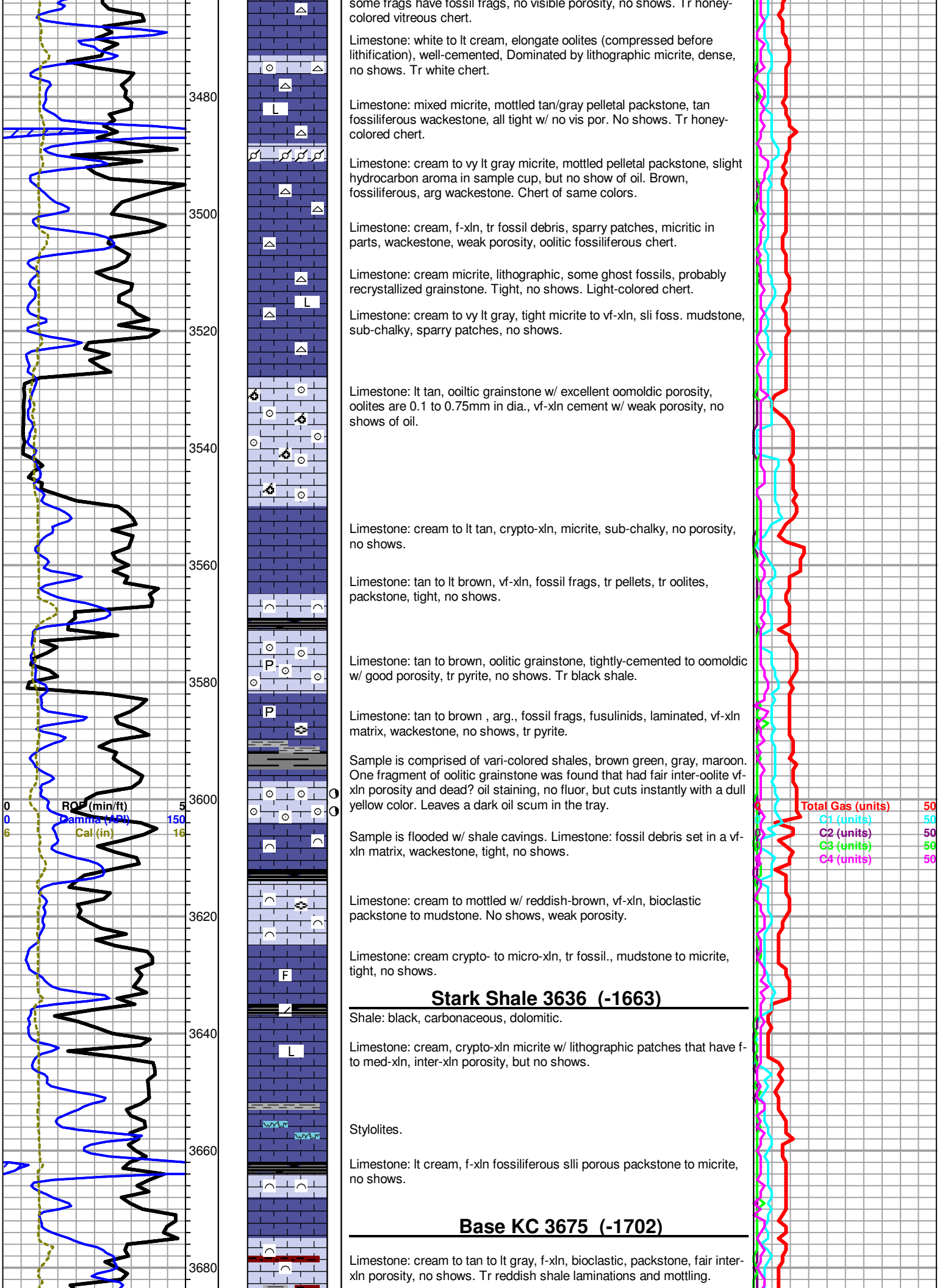
Limestone: brown, fossil frags set in micro-xln matrix, wackestone.

Lansing 3448 (-1475)

Limestone: white to cream, vf-xln to crypto-xln, mudstone/micrite, tight, no shows.

Limestone: cream to vy lt gray, chalky, vf-xln matrix, mostly mudstone,

Mud-Co Mud check
2708 ft. @ 0955 hrs
2/5/2012
Vis: 46, Wt: 9.0
PV: 12, YP: 16
WL: 7.2, Cake: 1/32
pH: 9.5, Ca: 20ppm
CHL: 4800ppm,
Sol: 4.7, LCM: 1
DMC: $1,233.85
CMC: $5,650.70



some frags have fossil frags, no visible porosity, no shows. Tr honey-colored vitreous chert.

Limestone: white to lt cream, elongate oolites (compressed before lithification), well-cemented, Dominated by lithographic micrite, dense, no shows. Tr white chert.

Limestone: mixed micrite, mottled tan/gray pelletal packstone, tan fossiliferous wackestone, all tight w/ no vis por. No shows. Tr honey-colored chert.

Limestone: cream to vy lt gray micrite, mottled pelletal packstone, slight hydrocarbon aroma in sample cup, but no show of oil. Brown, fossiliferous, arg wackestone. Chert of same colors.

Limestone: cream, f-xln, tr fossil debris, sparry patches, micritic in parts, wackestone, weak porosity, oolitic fossiliferous chert.

Limestone: cream micrite, lithographic, some ghost fossils, probably recrystallized grainstone. Tight, no shows. Light-colored chert.

Limestone: cream to vy lt gray, tight micrite to vf-xln, sli foss. mudstone, sub-chalky, sparry patches, no shows.

Limestone: lt tan, ooiltic grainstone w/ excellent oomoldic porosity, oolites are 0.1 to 0.75mm in dia., vf-xln cement w/ weak porosity, no shows of oil.

Limestone: cream to lt tan, crypto-xln, micrite, sub-chalky, no porosity, no shows.

Limestone: tan to lt brown, vf-xln, fossil frags, tr pellets, tr oolites, packstone, tight, no shows.

Limestone: tan to brown, oolitic grainstone, tightly-cemented to oomoldic w/ good porosity, tr pyrite, no shows. Tr black shale.

Limestone: tan to brown , arg., fossil frags, fusulinids, laminated, vf-xln matrix, wackestone, no shows, tr pyrite.

Sample is comprised of vari-colored shales, brown green, gray, maroon. One fragment of oolitic grainstone was found that had fair inter-oolite vf-xln porosity and dead? oil staining, no fluor, but cuts instantly with a dull yellow color. Leaves a dark oil scum in the tray.

Sample is flooded w/ shale cavings. Limestone: fossil debris set in a vf-xln matrix, wackestone, tight, no shows.

Limestone: cream to mottled w/ reddish-brown, vf-xln, bioclastic packstone to mudstone. No shows, weak porosity.

Limestone: cream crypto- to micro-xln, tr fossil., mudstone to micrite, tight, no shows.

Stark Shale 3636 (-1663)

Shale: black, carbonaceous, dolomitic.

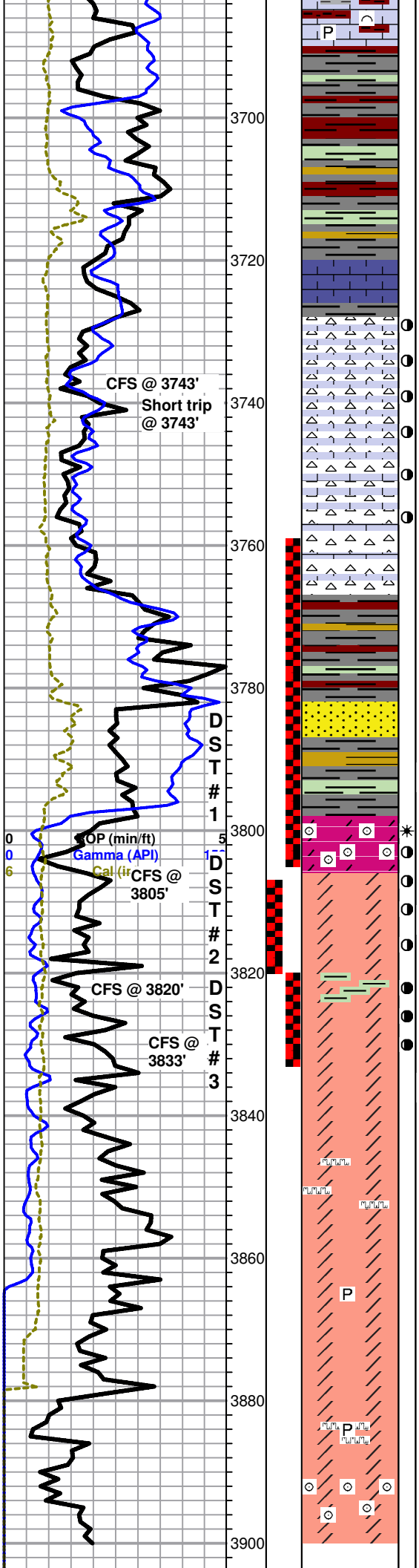
Limestone: cream, crypto-xln micrite w/ lithographic patches that have f- to med-xln, inter-xln porosity, but no shows.

Stylolites.

Limestone: lt cream, f-xln fossiliferous slli porous packstone to micrite, no shows.

Base KC 3675 (-1702)

Limestone: cream to tan to lt gray, f-xln, bioclastic, packstone, fair inter-xln porosity, no shows. Tr reddish shale laminations and mottling.



Limestone as above w/ micrite and pyrite laminations. Mixed w/ vari-colored shales: gray lt gray lt grayish-green, maroon. Sample washes reddish-brown.

Vari-colored shales as above, some are mottled red and lt gray, calc.

Viola 3728 (-1755)

30 min sample: Oil floating on the surface of the water in the sample cup accompanied by a strong aroma. Cherty limestone w/ abundant, spotty dead oil staining, very slow weak cut. Lt blue fluor of cut fluid. Chert is vitreous, white to tan to lt yellow.

60 min: Chert mixed w/ white limestone, interlayered w/ chert. One fragment of ls had live oil staining, dull yellow fluor, instant streaming bright yellow cut. More were found deeper. Vuggy por.

Chert is slightly frosted, somewhat detrital in appearance, but not tripolitic. Some fragments are totall saturated w/ black, heavy oil, weak fluor, very slow to no cut. Most of the dark oil staining in the chert seems to be part of the rock with dendritic-like growths.

Simpson Shale 3767 (-1794)

Shale: gray, maroon, brown, mustard, soft.

Free sand grains in the bottom of the tray. Well-rounded, vf-gr, no shows.

Aqua-colored shale along with multi-colors as above.

F-N Unit #1-B Dst#1p20001.jpg

Arbuckle 3798 (-1825)

Dolomite: tan, ooilitc grainstone, gas bubbles in the pores, strong hydrocarbon aroma in the sample cup, bright yellow fluor., won't cut without first adding HCl. Oomoldic porosity, w/ voids up to 0.5mm in dia., vf-xln cement.

F-N Unit #1-B Dst#2p20001.jpg

Dolomite: cream to lt tan, f-xln, succrosic, spots of micro-vugular porosity filled w/ live oil, bright yellow flour, strong aroma, instant streaming cut. Some fragments are brown w/ total oil saturation. Tr aqua-green shale w/ spotty oil-saturated patches.

Dolomite: tan, f- to med-xln, good vugular and inter-xln porosity w/ spotty to total oil saturation, strong aroma, gas bubbles, oil cuts out slowly after acid application. Mixed rhombs .05-.5mm in width in same frag create good por.

F-N Unit #1-B Dst#3p20001.jpg

Dolomite: cream to lt tan, f-xln succrosic to micro-xln mudstone, tighter than above rocks. Still carrying fragments w/ spotty oil shows, but I think they are cavings.

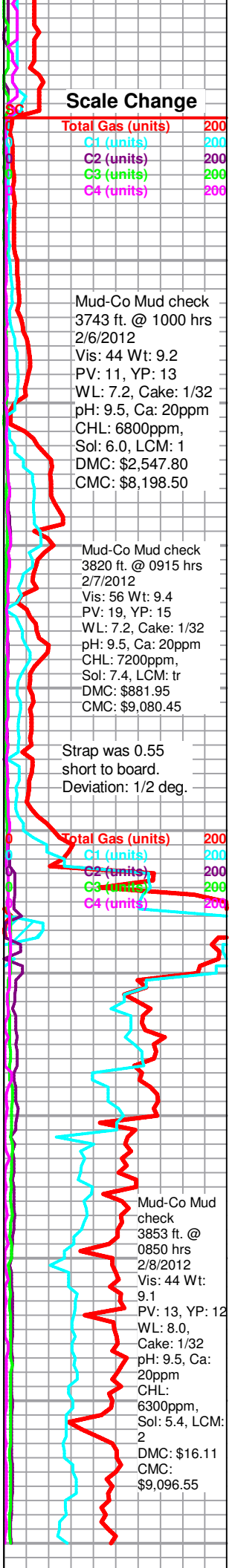
Dolomite: cream to lt tan, f-xln succrosic w/ fair inter-xln porosity, streaks of micritic dolo, tr stylolites.

Tr pyrite.

Dolomite:, cream to lt tan, coarsely-xln, rhombs up to 1mm, good inter-xln porosity, some vugs, tr pyrite stylolites, no shows.

Oolitic fragments w/ oomoldic porosity, voids 0.1 to 0.75mm in dia.

RTD 3900' @ 1038 hrs.

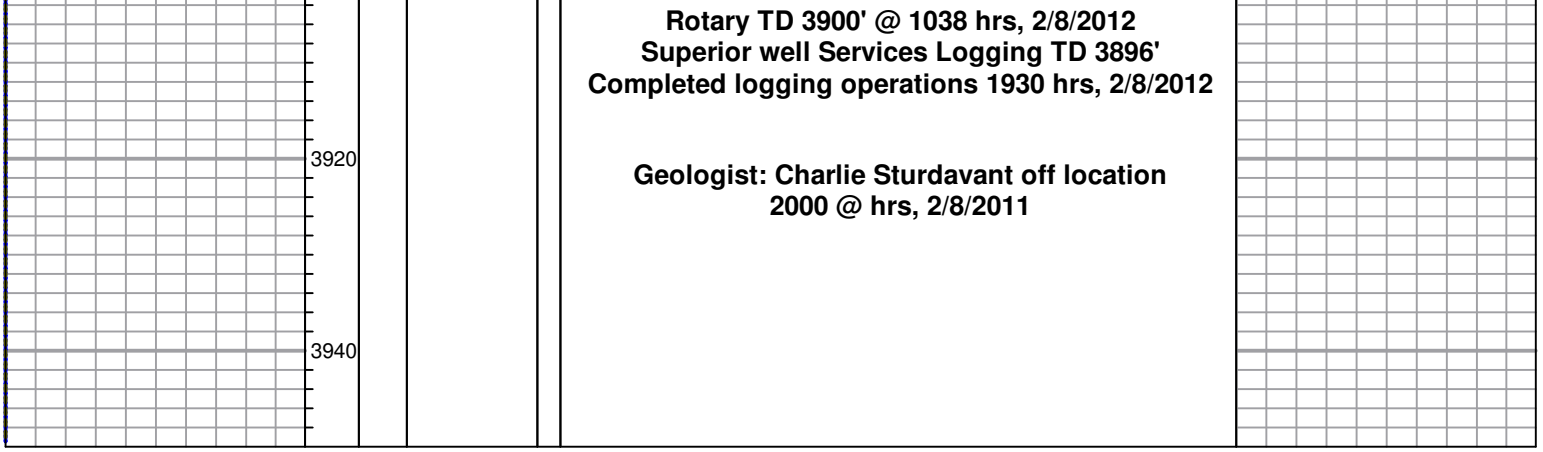


Mud-Co Mud check
3743 ft. @ 1000 hrs
2/6/2012
Vis: 44 Wt: 9.2
PV: 11, YP: 13
WL: 7.2, Cake: 1/32
pH: 9.5, Ca: 20ppm
CHL: 6800ppm,
Sol: 6.0, LCM: 1
DMC: $2,547.80
CMC: $8,198.50

Mud-Co Mud check
3820 ft. @ 0915 hrs
2/7/2012
Vis: 56 Wt: 9.4
PV: 19, YP: 15
WL: 7.2, Cake: 1/32
pH: 9.5, Ca: 20ppm
CHL: 7200ppm,
Sol: 7.4, LCM: tr
DMC: $881.95
CMC: $9,080.45

Strap was 0.55 short to board.
Deviation: 1/2 deg.

Mud-Co Mud check
3853 ft. @ 0850 hrs
2/8/2012
Vis: 44 Wt: 9.1
PV: 13, YP: 12
WL: 8.0, Cake: 1/32
pH: 9.5, Ca: 20ppm
CHL: 6300ppm,
Sol: 5.4, LCM: 2
DMC: $16.11
CMC: $9,096.55



Rotary TD 3900' @ 1038 hrs, 2/8/2012
Superior well Services Logging TD 3896'
Completed logging operations 1930 hrs, 2/8/2012

Geologist: Charlie Sturdavant off location
2000 @ hrs, 2/8/2011

F-N Unit #1-B Dst#1p20001.jpg

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17181 **DST#: 1**

Test Start: 2012.02.06 @ 04:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:46:30
Time Test Ended: 11:17:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3760.00 ft (KB) To 3805.00 ft (KB) (TVD)
Total Depth: 3805.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

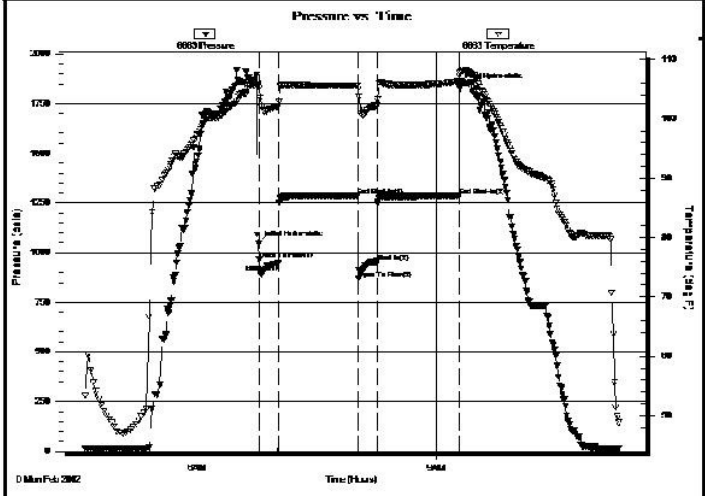
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6663 **Outside**

Press@RunDepth: 954.78 psia @ 3802.00 ft (KB)
Start Date: 2012.02.06 End Date: 2012.02.06
Start Time: 04:35:00 End Time: 11:17:00

Capacity: 5000.00 psia
Last Calib.: 2012.02.06
Time On Btm: 2012.02.06 @ 06:46:00
Time Off Btm: 2012.02.06 @ 09:17:00

TEST COMMENT: 1st Open 15 minutes Strong blow bottom bucket instantly .
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1044.60	106.07	Initial Hydro-static
1	965.26	105.29	Open To Flow (1)
15	945.07	102.08	Shut-In(1)
75	1285.32	105.59	End Shut-In(1)
75	868.41	105.19	Open To Flow (2)
89	954.78	102.22	Shut-In(2)
151	1283.68	106.28	End Shut-In(2)
151	1832.52	107.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100%	0.32

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	12.00	344.99
Last Gas Rate	1.00	13.20	379.48
Max. Gas Rate	1.00	13.20	379.48

F-N Unit #1-B Dst#2p20001.jpg

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17182 **DST#: 2**

Test Start: 2012.02.07 @ 06:39:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:24:30
Time Test Ended: 12:28:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend -30

Interval: 3807.00 ft (KB) To 3820.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

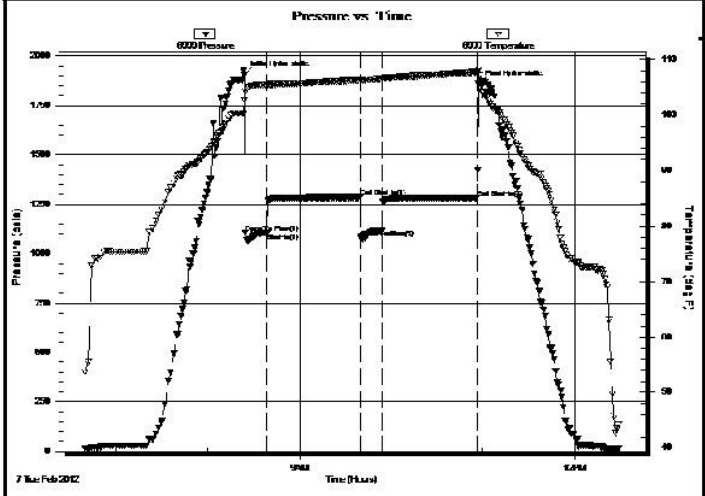
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6999 **Inside**

Press@RunDepth: 1119.38 psia @ 3816.00 ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 06:39:00 End Time: 12:28:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.07
Time On Btm: 2012.02.07 @ 08:24:00
Time Off Btm: 2012.02.07 @ 10:57:00

TEST COMMENT: 1st Open 15 minutes Strong blow blew bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 15 minutes Strong blow blew bottom bucket instantly.
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1903.92	102.61	Initial Hydro-static
1	1103.75	104.18	Open To Flow (1)
15	1105.57	105.45	Shut-In(1)
76	1284.31	106.37	End Shut-In(1)
76	1083.60	106.32	Open To Flow (2)
90	1119.38	106.59	Shut-In(2)
152	1282.60	107.76	End Shut-In(2)
153	1858.12	108.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Clean oil 100%	0.01

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	13.80	396.73
Last Gas Rate	1.00	13.80	396.73

F-N Unit #1-B Dst#3p20001.jpg

DRILL STEM TEST REPORT

Captiva 2

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Strurdavant

13-21s-16w-Pawnee

F-N Unit # 1-B

Job Ticket: 17183 **DST#: 3**

Test Start: 2012.02.07 @ 07:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:22:53
Time Test Ended: 16:06:53

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-30 m

Interval: 3820.00 ft (KB) To 3833.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

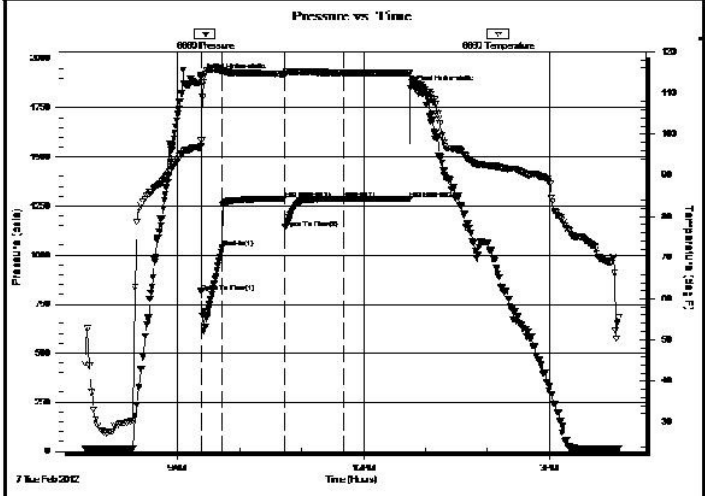
Reference Elevations: 1973.00 ft (KB)
1964.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6669

Press@RunDepth: 1285.71 psia @ ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 07:30:00 End Time: 16:06:53

Capacity: 5000.00 psia
Last Calib.: 2012.02.08
Time On Btm: 2012.02.07 @ 09:22:23
Time Off Btm: 2012.02.07 @ 12:44:53

TEST COMMENT: 1st Open 20 minutes Strong blow bottom bucket instantly.
1st Shut in 60 minutes Yes blow back
2nd Open 60 minutes Strong blow bottom bucket instantly
2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1904.18	97.16	Initial Hydro-static
1	812.64	98.38	Open To Flow (1)
21	1039.22	115.45	Shut-In(1)
81	1286.47	114.62	End Shut-In(1)
82	1139.21	114.72	Open To Flow (2)
138	1285.71	114.92	Shut-In(2)
202	1287.02	114.83	End Shut-In(2)
203	1850.41	114.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil cut mud 20%Oil 80% Mud	0.30
90.00	Oil and gas cut mud 20%gas 40%oil 50%	0.44
60.00	Clean oil 100%	0.30
90.00	Oil cut muddy w ater 10%oil70%mud20%	0.88r
150.00	Mud cut oil 5%oil 95%mud	2.10
2468.00	Salt w ater 100%	34.62

Gas Rates

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

e 785-483-2025
ell 785-324-1041

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

No. 359

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 2-1-12	13	21	16	PAWNEE	KANSAS		9:00 pm

Lease F-N UNIT Well No. 1B Location LARNED E. 3 MILES ON 156 HWY. S INTO

Contractor STERLING #4

Type Job LONG SURFACE

Hole Size 12¼ T.D. 970'

Csg. 8 5/8 Depth 964.78

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 41.12

Meas Line Displace 58.5

Owner SHELBY RESOURCES/CAPTIVA II

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.

Charge To SHELBY RESOURCES

Street 2717 CANAL BLVD, SUITE C

City HAYS State KANSAS

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 450 SKS - 60/40 - 3% CC - 2% GEL - ¼ LB FLO SEAL
150 COM - 3% CC - 2% GEL used 120 on 1" fill up

EQUIPMENT

Pumptrk 15 No. Cementer Helper CISCO

Bulktrk 13 No. Driver Driver CORY

Bulktrk P/U No. Driver Driver RICK #14 mike

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

CEMENT DID NOT CIRCULATE 1" INCHED BACKSIDE WITH 60 FT OF 1 INCH PIPE, TAGGED CEMENT @ 50 FT - PUMPED 120 SK COM 3% CC 2% GEL FILLED CELLAR HALF FULL, DID NOT FALL BACK AFTER 30 MIN WAITING PERIOD. FINISHED @ 9:00 pm.

THANK YOU!

Common	390
Poz. Mix	180
Gel.	10
Calcium	22
Hulls	
Salt	
Flowseal	120#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	632
Mileage	

FLOAT EQUIPMENT

Guide Shoe	1 - 8 5/8
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1 - 8 5/8 RUBBER PLUG
	1 - 8 5/8 BAFFLE PLATE
Pumptrk Charge	Long Surface
Mileage	19
Tax	
Discount	
Total Charge	

X Signature Terry L. Salazar

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Shelby Resources	Lease No.	Date: 2-9-2012	
Lease: F-N Unit	Well #: 1		
Field Order #: 5675	Station: Pratt	Casing: 5 1/2	Depth: 3888'
County: Pawnee	State: KS		
Type Job: CNW 5 1/2 LS	Formation	Legal Description: 13-21-16	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 3888.77	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 87.2	Volume	From	To	Pad	Min		10 Min.
Max Press: 2000	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: P.C	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 3807.93	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager: DAVE SCOTT	Treater: Robert L. Clem

Service Units	33708	20920	19960	19918	37900							
Driver Names	Nelson		Phye		Sullivan							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30					on loc Safety meeting
					Run 92 jts 5 1/2 15.5 csg.
					Centralizers 1,3,5,7,9
					Basket 1
6:40					Casing on Bottom
6:50					Hook up circ.
7:55	200		5	4	5# Spacer
			12	5.5	mix 50 sk Sqweezed cmt 60/40 poz @ 14 ppg
			36		mix 150 sk AA2 cmt @ 15.3 ppg
			3		Shut down, wash pump, line
					Release Plug
				6	St Disp
	400		67		Lift PSI
	850			3.5	Slow Rate
8:30	1850		92		Plug down
			7	2	Plug RH w/ 20 sk cmt
			5	2	plug MH w/ 20 sk cmt
					50B Complete
					Thank you

Taylor Printing, Inc. 620-672-3656