KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1072968

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: 2717 Canal Blvd.
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + __ __ __ __
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Charlie Sturdavant
Purchaser:

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 #:

06/25/2011	07/05/2011	07/26/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21645-00-00
Spot Description:
NE - NW - NW - NW Sec. 7 Twp. 22 S. R. 16 [ ] East [x] West
254 Feet from [x] North / [ ] South Line of Section
350 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Pawnee
Lease Name: F - F Unit Well #: 1-7
Field Name: Wildcat
Producing Formation: Arbuckle
Elevation: Ground: 2011 Kelly Bushing: 2021
Total Depth: 3985 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1077 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: 4500 ppm Fluid volume: 800 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Shelby Resources L.L.C.
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

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:** 01/30/2012

Side Two

1072968

Operator Name: Shelby Resources LLC Lease Name: F - F Unit Well #: 1-7

Sec. 7 Twp. 22 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
Topeka	3140	-1119
Heebner	3436	-1415
Lansing	3550	-1529
Base KC	3815	-1794
Conglomerate	3845	-1824
Arbuckle	3861	-1840
Total Depth	4000	-1979

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	23	1077	60/40 POZ	500	2% gel, 3% cc
Production	7.875	5.5	15.5	3964	AA-2	200	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	3908-10		

TUBING RECORD: Size: 2.375 Set At: 3914 Packer At:

Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 07/26/2011

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	55		0		

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)*

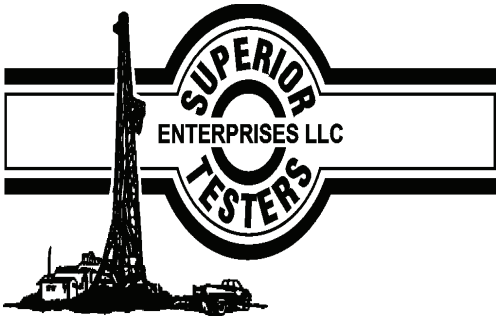
PRODUCTION INTERVAL:
3908-10

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

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	F - F Unit 1-7
Doc ID	1072968

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic
Cement Bond



DRILL STEM TEST REPORT

Prepared For: **Captiva 11**

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

7-22s-16w Pawnee

Charlie Sturdarant

Start Date: 2011.07.01 @ 09:25:00

End Date: 2011.07.01 @ 18:18:00

Job Ticket #: 16502 DST #: 1

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.07.02 @ 07:03:31

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16502 **DST#: 1**

Test Start: 2011.07.01 @ 09:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:11:30
Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB 65

Interval: 3780.00 ft (KB) To 3890.00 ft (KB) (TVD)
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

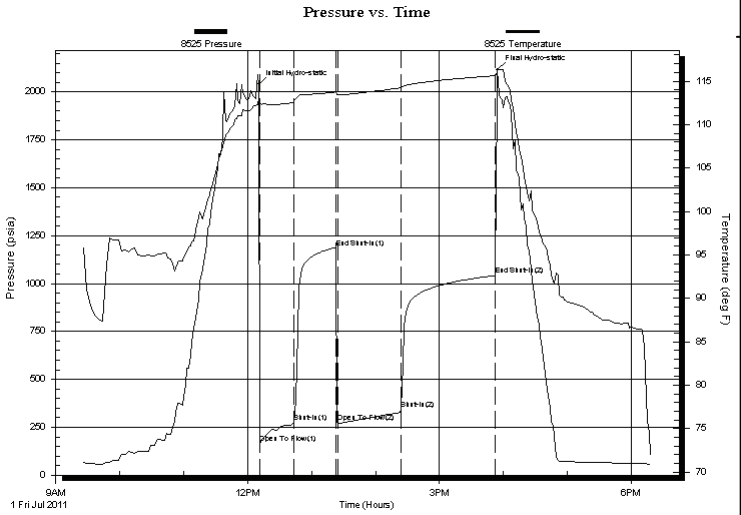
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8525

Press@RunDepth: 345.51 psia @ ft (KB)
Start Date: 2011.07.01 End Date: 2011.07.01
Start Time: 09:25:00 End Time: 18:18:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.02
Time On Btm: 2011.07.01 @ 12:10:30
Time Off Btm: 2011.07.01 @ 15:54:30

TEST COMMENT: 1st open 30minutes Strong blow bottom of bucket in 14minutes
1st shutin 45minutes no blow back
2nd open 60minutes Strong blow bottom of bucket in 7minutes
2nd shutin 90minutes yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2040.00	113.09	Initial Hydro-static
1	165.77	112.43	Open To Flow (1)
33	273.64	112.58	Shut-In(1)
73	1188.20	113.74	End Shut-In(1)
74	275.32	113.43	Open To Flow (2)
134	345.51	114.24	Shut-In(2)
222	1042.29	115.62	End Shut-In(2)
224	2115.17	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oily cut mud gas 20% oil 60% mu	0.30
180.00	Gas and oil cut mud	1.01
0.00	Gas 45% oil 35% mud 20%	0.00
420.00	Gas and oil cut mud	5.89
0.00	Gas 25% oil 25% mud 50%	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16502 **DST#: 1**

Test Start: 2011.07.01 @ 09:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:11:30
Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB 65

Interval: 3780.00 ft (KB) To 3890.00 ft (KB) (TVD)
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

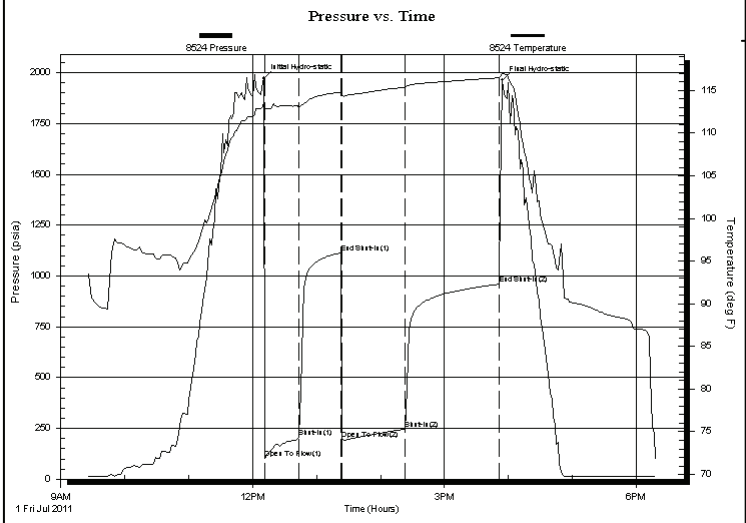
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524

Press@RunDepth: 960.55 psia @ ft (KB)
Start Date: 2011.07.01 End Date: 2011.07.01
Start Time: 09:25:00 End Time: 18:18:30

Capacity: 5000.00 psia
Last Calib.: 2011.07.02
Time On Btm: 2011.07.01 @ 12:10:30
Time Off Btm: 2011.07.01 @ 15:54:00

TEST COMMENT: 1st open 30minutes Strong blow bottom of bucket in 14minutes
1st shutin 45minutes no blow back
2nd open 60minutes Strong blow bottom of bucket in 7minutes
2nd shutin 90minutes yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1971.37	113.56	Initial Hydro-static
1	100.51	112.96	Open To Flow (1)
33	203.81	112.98	Shut-In(1)
72	1114.05	114.80	End Shut-In(1)
74	197.19	114.50	Open To Flow (2)
133	246.63	115.39	Shut-In(2)
221	960.55	116.48	End Shut-In(2)
224	1962.96	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oily cut mud gas 20% oil 60% mu	0.30
180.00	Gas and oil cut mud	1.01
0.00	Gas 45% oil 35% mud 20%	0.00
420.00	Gas and oil cut mud	5.89
0.00	Gas 25% oil 25% mud 50%	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16502 **DST#: 1**

Test Start: 2011.07.01 @ 09:25:00

Tool Information

Drill Pipe:	Length:	3534.00 ft	Diameter:	3.80	inches	Volume:	49.57	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	226.69 ft	Diameter:	2.25	inches	Volume:	1.11	bbl	
						Total Volume:	50.68	bbl	

Drill Pipe Above KB:	8.69 ft
Depth to Top Packer:	3780.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	6.50 ft
Tool Length:	34.50 ft
Number of Packers:	2
Diameter:	6.25 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		lb
Tool Chased		0.00 ft
String Weight:	Initial	68000.00 lb
	Final	68000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHut-InTool	5.00		Inside	3757.00		
Hydrolic Tool	5.00			3762.00		
Jars	6.00			3768.00		
Safety Joint	2.00			3770.00		
Packer	5.00			3775.00	28.00	Bottom Of Top Packer
Packer	5.00			3780.00		
Anchor	0.00			3780.00		
Change Over Sub	0.75			3780.75		
Drill Pipe	0.00		Outside	3780.75		
Change Over Sub	0.75		Outside	3781.50		
Anchor	0.00			3781.50		
Recorder	1.00	8524	Inside	3782.50		
Recorder	1.00	8525	Outside	3783.50		
Bullnose	3.00			3786.50	6.50	Bottom Packers & Anchor
Total Tool Length:	**34.50**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16502 **DST#: 1**

Test Start: 2011.07.01 @ 09:25:00

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:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gassy oily cut mud gas 20% oil 60% mud	0.295
180.00	Gas and oil cut mud	1.006
0.00	Gas 45% oil 35% mud 20%	0.000
420.00	Gas and oil cut mud	5.891
0.00	Gas 25% oil 25% mud 50%	0.000

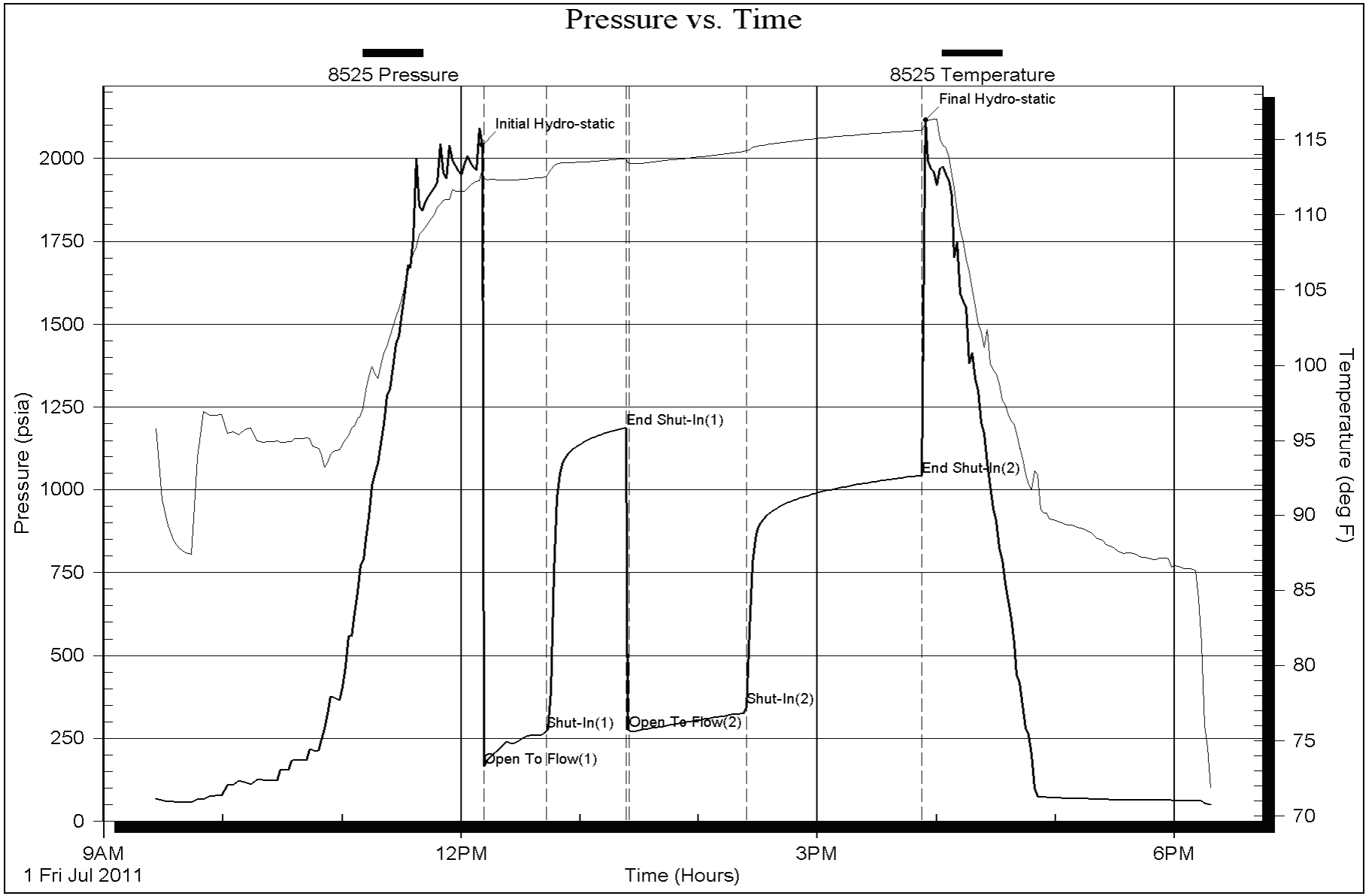
Total Length: 660.00 ft Total Volume: 7.192 bbl

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

Laboratory Name: Laboratory Location:

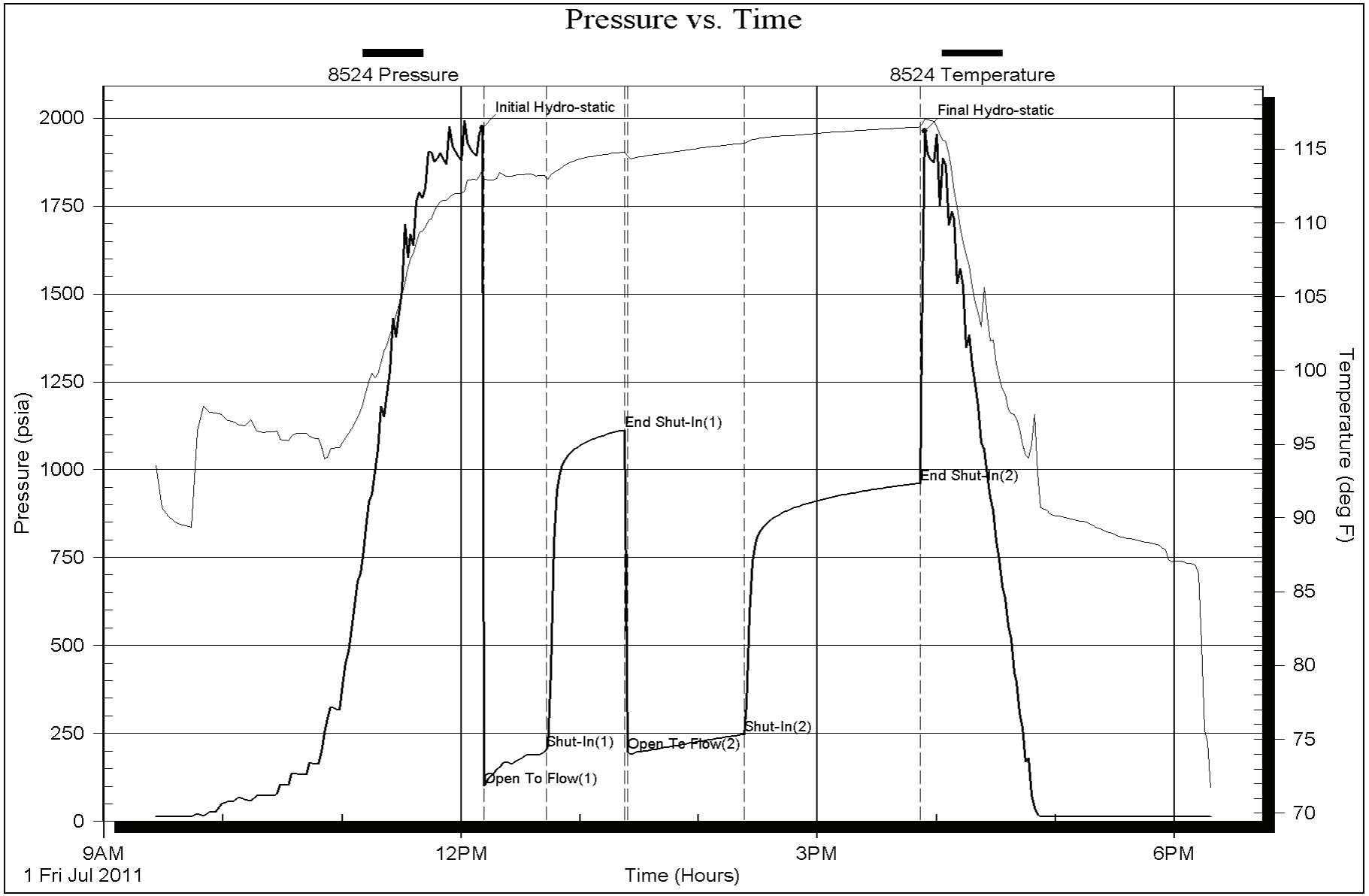
Recovery Comments:

Serial #: 8525 Captiva 11 7-22s-16w Pawnee DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 16502 Printed: 2011.07.02 @ 07:03:31

Serial #: 8524 Captiva 11 7-22s-16w Pawnee DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 16502 Printed: 2011.07.02 @ 07:03:32

DRILL STEM TEST REPORT

Prepared For: **Captiva 11**

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

7-22s-16w Pawnee

Charlie Sturdarant

Start Date: 2011.07.02 @ 13:54:00

End Date: 2011.07.03 @ 01:24:00

Job Ticket #: 16503 DST #: 2

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.07.03 @ 01:59:01

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:51:00
Time Test Ended: 01:24:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332-GB-62

Interval: 3890.00 ft (KB) To 3905.00 ft (KB) (TVD)
Total Depth: 3905.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

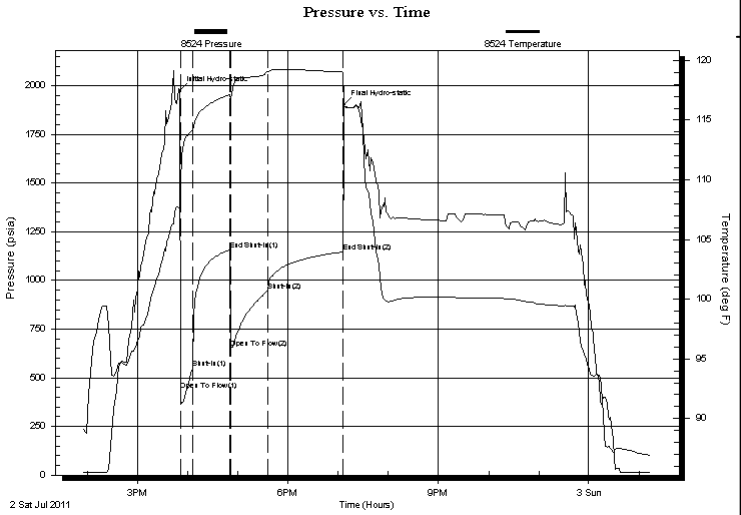
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524 **Inside**

Press@RunDepth: 944.78 psia @ 3901.00 ft (KB)
Start Date: 2011.07.02 End Date: 2011.07.03
Start Time: 13:54:00 End Time: 01:24:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.02 @ 15:50:00
Time Off Btm: 2011.07.02 @ 19:07:00

TEST COMMENT: 1st Open 15 minutes Blew bottom of bucket in 1 minutes
1st Shut in 45 minutes Blow back bottom of bucket gas to surface see gas report
2nd Open 45 minutes Blew bottom of bucket in 2 minutes
2nd Shut in 90 minutes Blow back bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1975.64	107.72	Initial Hydro-static
1	436.14	108.85	Open To Flow (1)
16	551.28	114.18	Shut-In(1)
61	1158.49	117.14	End Shut-In(1)
62	651.55	116.83	Open To Flow (2)
106	944.78	119.04	Shut-In(2)
196	1146.43	119.02	End Shut-In(2)
197	1902.89	116.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oily cut gas 65% oil 35% gas	0.25
1140.00	Clean gasy oil	14.38
0.00	35% gas 65%oil	0.00
1330.00	Clean oil 100% oil	18.66
0.00	720 Foot gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.50	2.06
Last Gas Rate	0.13	7.00	2.62
Max. Gas Rate	0.13	12.60	4.72

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:51:00
Time Test Ended: 01:24:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332-GB-62

Interval: 3890.00 ft (KB) To 3905.00 ft (KB) (TVD)
Total Depth: 3905.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

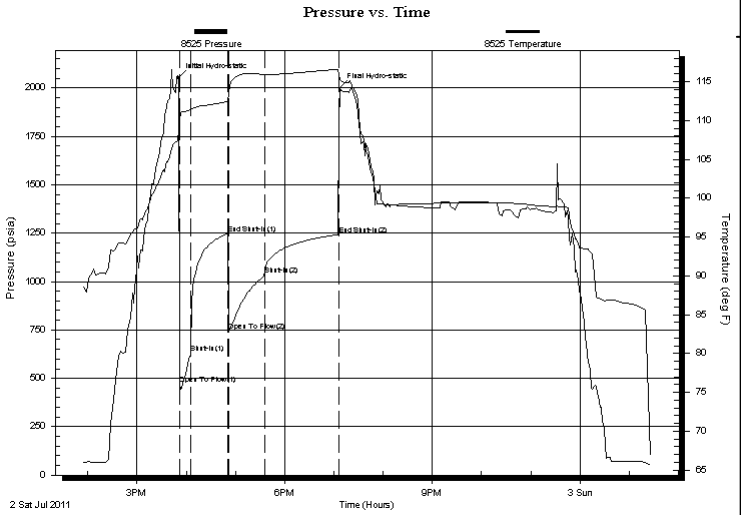
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8525 **Outside**

Press@RunDepth: 1243.35 psia @ 3902.00 ft (KB)
Start Date: 2011.07.02 End Date: 2011.07.03
Start Time: 13:54:00 End Time: 01:28:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.02 @ 15:50:30
Time Off Btm: 2011.07.02 @ 19:07:00

TEST COMMENT: 1st Open 15 minutes Blew bottom of bucket in 1 minutes
1st Shut in 45 minutes Blow back bottom of bucket gas to surface see gas report
2nd Open 45 minutes Blew bottom of bucket in 2 minutes
2nd Shut in 90 minutes Blow back bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2053.86	107.39	Initial Hydro-static
1	467.43	110.09	Open To Flow (1)
15	628.14	111.39	Shut-In(1)
60	1247.51	112.49	End Shut-In(1)
61	742.81	113.58	Open To Flow (2)
105	1032.09	115.93	Shut-In(2)
195	1243.35	116.60	End Shut-In(2)
197	2000.43	115.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oily cut gas 65% oil 35% gas	0.25
1140.00	Clean gasy oil	14.38
0.00	35% gas 65%oil	0.00
1330.00	Clean oil 100% oil	18.66
0.00	720 Foot gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.50	2.06
Last Gas Rate	0.13	7.00	2.62
Max. Gas Rate	0.13	12.60	4.72

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

Tool Information

Drill Pipe:	Length:	3665.00 ft	Diameter:	3.80 inches	Volume:	51.41 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	226.69 ft	Diameter:	2.25 inches	Volume:	1.11 bbl	
					Total Volume:	52.52 bbl	

Drill Pipe Above KB:	29.69 ft
Depth to Top Packer:	3890.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	15.00 ft
Tool Length:	43.00 ft
Number of Packers:	2 Diameter: 6.25 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		110000.0 lb
Tool Chased		0.00 ft
String Weight:	Initial	68000.00 lb
	Final	77000.00 lb

Tool Comments: Gas to surface on initial shut in see gas reports

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHut-InTool	5.00		Inside	3867.00		
Hydrolic Tool	5.00			3872.00		
Jars	6.00			3878.00		
Safety Joint	2.00			3880.00		
Packer	5.00			3885.00	28.00	Bottom Of Top Packer
Packer	5.00			3890.00		
Anchor	10.00			3900.00		
Recorder	1.00	8524	Inside	3901.00		
Recorder	1.00	8525	Outside	3902.00		
Bullnose	3.00			3905.00	15.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

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:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Oily cut gas 65% oil 35% gas	0.246
1140.00	Clean gasy oil	14.382
0.00	35% gas 65%oil	0.000
1330.00	Clean oil 100% oil	18.656
0.00	720 Foot gas in pipe	0.000

Total Length: 2520.00 ft Total Volume: 33.284 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gas to suface initial shutin see gas reports
Gravity of oil 46 corrected
Broke circulating sub

DRILL STEM TEST REPORT

GAS RATES

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

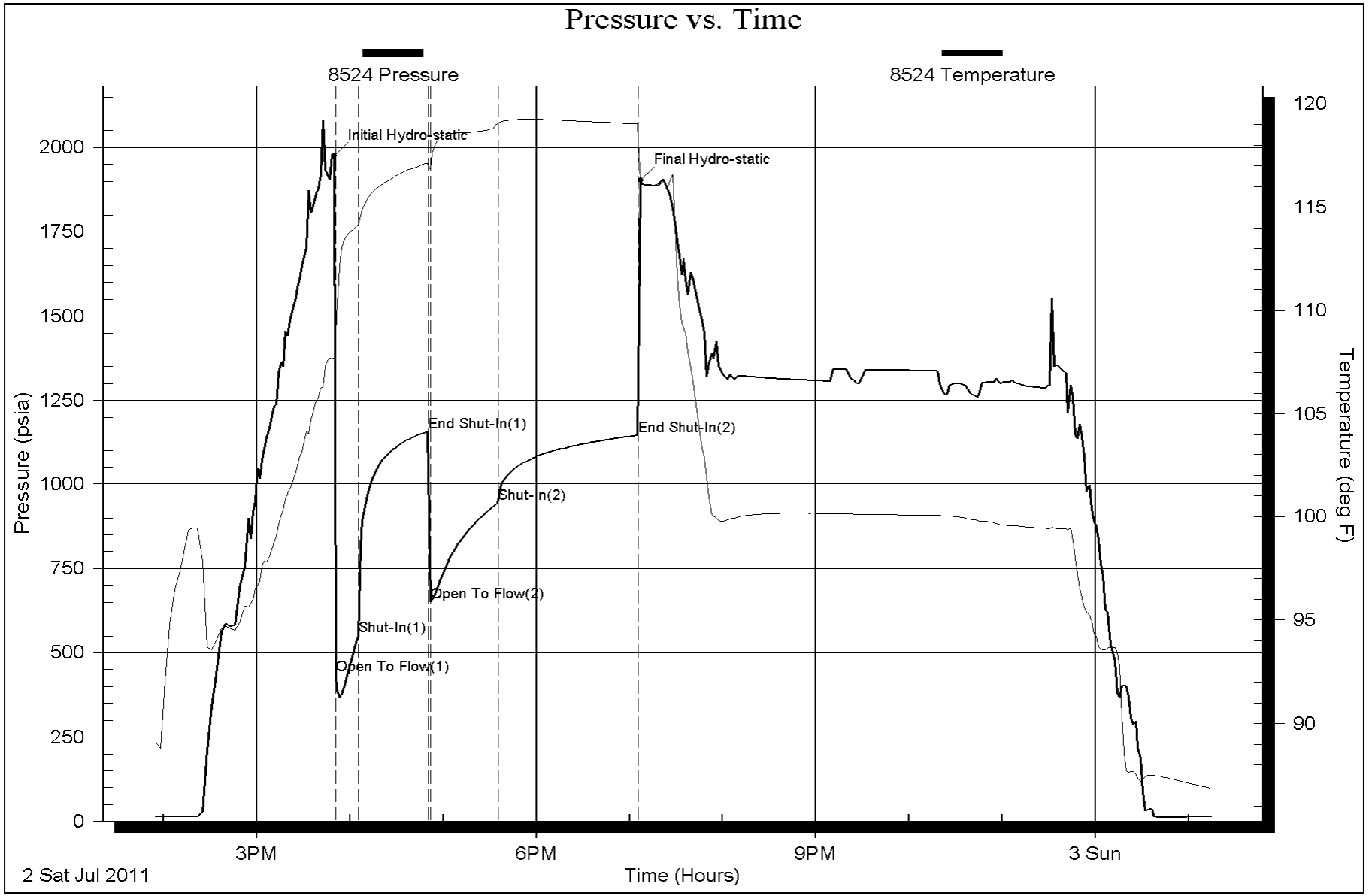
Gas Rates Information

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

Gas Rates Table

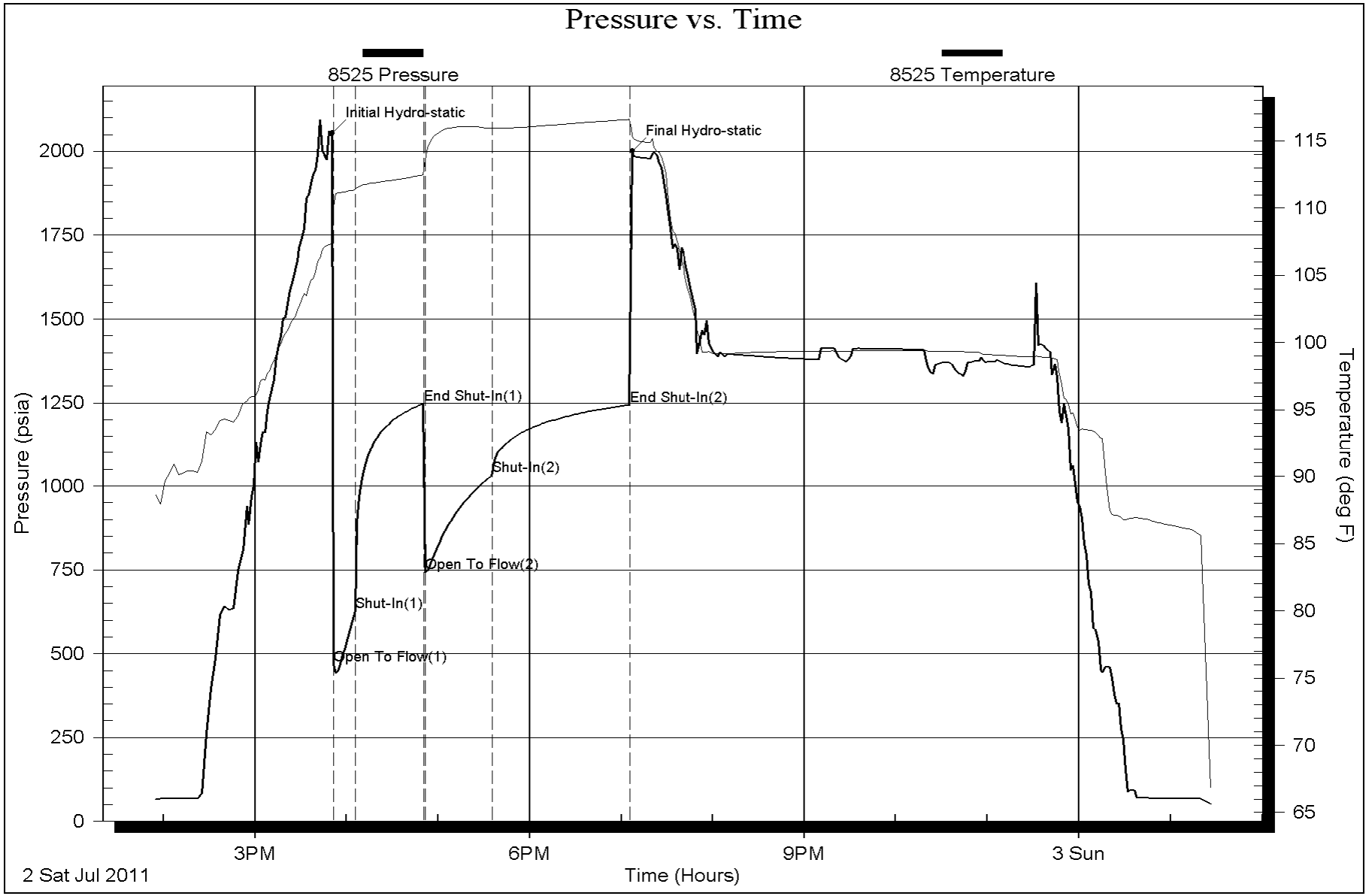
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	5	0.13	5.50	2.06
2	10	0.13	10.20	3.82
3	20	0.13	12.60	4.72
4	30	0.13	12.60	4.72
5	40	0.13	10.90	4.08
-	45	0.13	7.00	2.62

Serial #: 8524 **Inside** Captiva 11 7-22s-16w Pawnee DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 16503 Printed: 2011.07.03 @ 01:59:02

Serial #: 8525 **Outside** Captiva 11 7-22s-16w Pawnee DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 16503 Printed: 2011.07.03 @ 01:59:02

DRILL STEM TEST REPORT

Prepared For: **Captiva 11**

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

7-22s-16w Pawnee

Charlie Sturdarant

Start Date: 2011.07.03 @ 09:35:00

End Date: 2011.07.03 @ 17:20:00

Job Ticket #: 16504 DST #: 3

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.07.03 @ 18:02:39

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16504 **DST#: 3**

Test Start: 2011.07.03 @ 09:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:30
Time Test Ended: 17:20:00

Test Type: Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB-62

Interval: 3906.00 ft (KB) To 3917.00 ft (KB) (TVD)
Total Depth: 3917.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

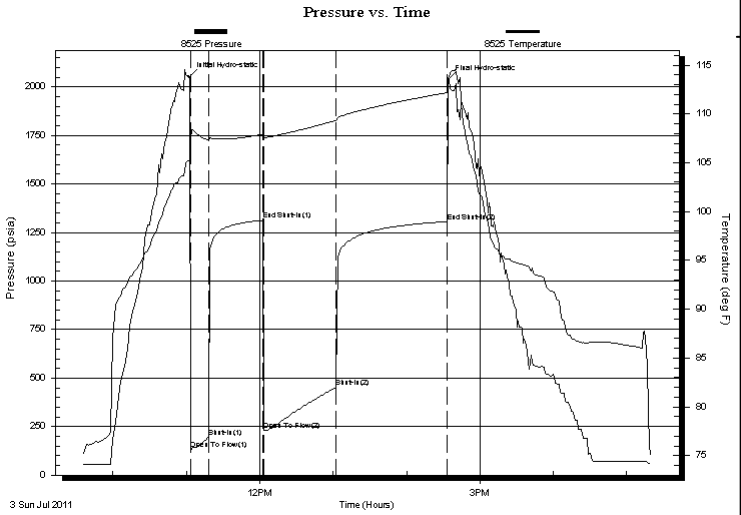
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8525

Press@RunDepth: 452.20 psia @ ft (KB)
Start Date: 2011.07.03 End Date: 2011.07.03
Start Time: 09:35:00 End Time: 17:20:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.03 @ 11:02:30
Time Off Btm: 2011.07.03 @ 14:34:00

TEST COMMENT: 1st open 15 minutes Strong blow buttom bucket 2 minutes
1st shut in 45 minutes Blow back
2nd open 60 minutes Strong blow buttom bucket 3 minutes
2nd shut in 90 minutes Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2052.76	105.23	Initial Hydro-static
1	130.95	107.36	Open To Flow (1)
16	197.93	107.30	Shut-In(1)
60	1312.78	107.92	End Shut-In(1)
61	229.42	107.61	Open To Flow (2)
120	452.20	109.34	Shut-In(2)
211	1305.93	112.18	End Shut-In(2)
212	2035.05	113.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	oily cut gas gas 40% oil 60%	1.86
220.00	oily cut gas and mud	3.09
0.00	gas20%oil70%mud10%	0.00
500.00	oil 100%	7.01
0.00	2760 gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16504 **DST#: 3**

Test Start: 2011.07.03 @ 09:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:30
Time Test Ended: 17:20:00

Test Type: Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB-62

Interval: 3906.00 ft (KB) To 3917.00 ft (KB) (TVD)
Total Depth: 3917.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

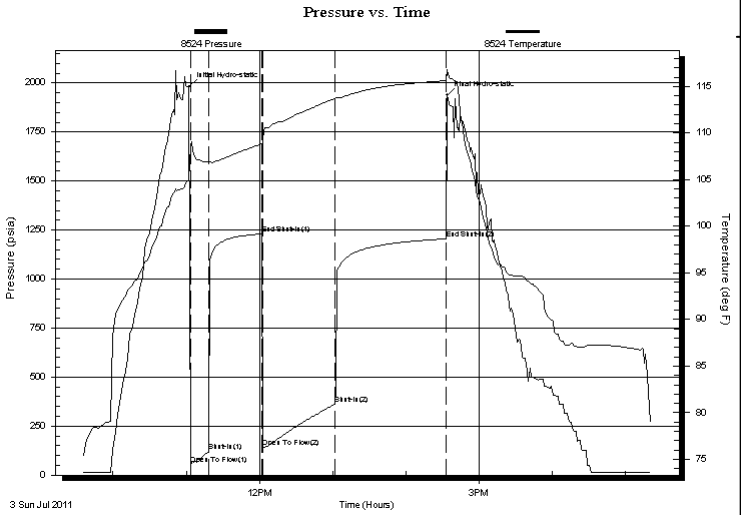
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524

Press@RunDepth: 1205.02 psia @ ft (KB)
Start Date: 2011.07.03 End Date: 2011.07.03
Start Time: 09:35:00 End Time: 17:20:30

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.03 @ 11:02:30
Time Off Btm: 2011.07.03 @ 14:34:00

TEST COMMENT: 1st open 15 minutes Strong blow buttom bucket 2 minutes
1st shut in 45 minutes Blow back
2nd open 60 minutes Strong blow buttom bucket 3 minutes
2nd shut in 90 minutes Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1979.20	104.99	Initial Hydro-static
1	53.82	108.68	Open To Flow (1)
16	122.67	106.86	Shut-In(1)
60	1230.48	108.84	End Shut-In(1)
61	144.26	109.44	Open To Flow (2)
120	362.37	113.71	Shut-In(2)
211	1205.02	115.63	End Shut-In(2)
212	1936.04	116.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	oily cut gas gas 40% oil 60%	1.86
220.00	oily cut gas and mud	3.09
0.00	gas20%oil70%mud10%	0.00
500.00	oil 100%	7.01
0.00	2760 gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16504 **DST#: 3**

Test Start: 2011.07.03 @ 09:35:00

Tool Information

Drill Pipe:	Length:	3660.00 ft	Diameter:	3.80 inches	Volume:	51.34 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	226.69 ft	Diameter:	2.25 inches	Volume:	1.11 bbl	
					Total Volume:	52.45 bbl	

Drill Pipe Above KB:	8.69 ft
Depth to Top Packer:	3906.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	11.00 ft
Tool Length:	39.00 ft
Number of Packers:	2 Diameter: 6.25 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		70000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	68000.00 lb
	Final	70000.00 lb

Tool Comments: Gas to surface gravity oil 46

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHut-InTool	5.00		Inside	3883.00		
Hydrolic Tool	5.00			3888.00		
Jars	6.00			3894.00		
Safety Joint	2.00			3896.00		
Packer	5.00			3901.00	28.00	Bottom Of Top Packer
Packer	5.00			3906.00		
Anchor	6.00			3912.00		
Recorder	1.00	8524	Inside	3913.00		
Recorder	1.00	8525	Outside	3914.00		
Bullnose	3.00			3917.00	11.00	Bottom Packers & Anchor
Total Tool Length:	**39.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16504 **DST#: 3**

Test Start: 2011.07.03 @ 09:35:00

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:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.00 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
280.00	oily cut gas gas 40% oil 60%	1.863
220.00	oily cut gas and mud	3.086
0.00	gas20%oil70%mud10%	0.000
500.00	oil 100%	7.014
0.00	2760 gas in pipe	0.000

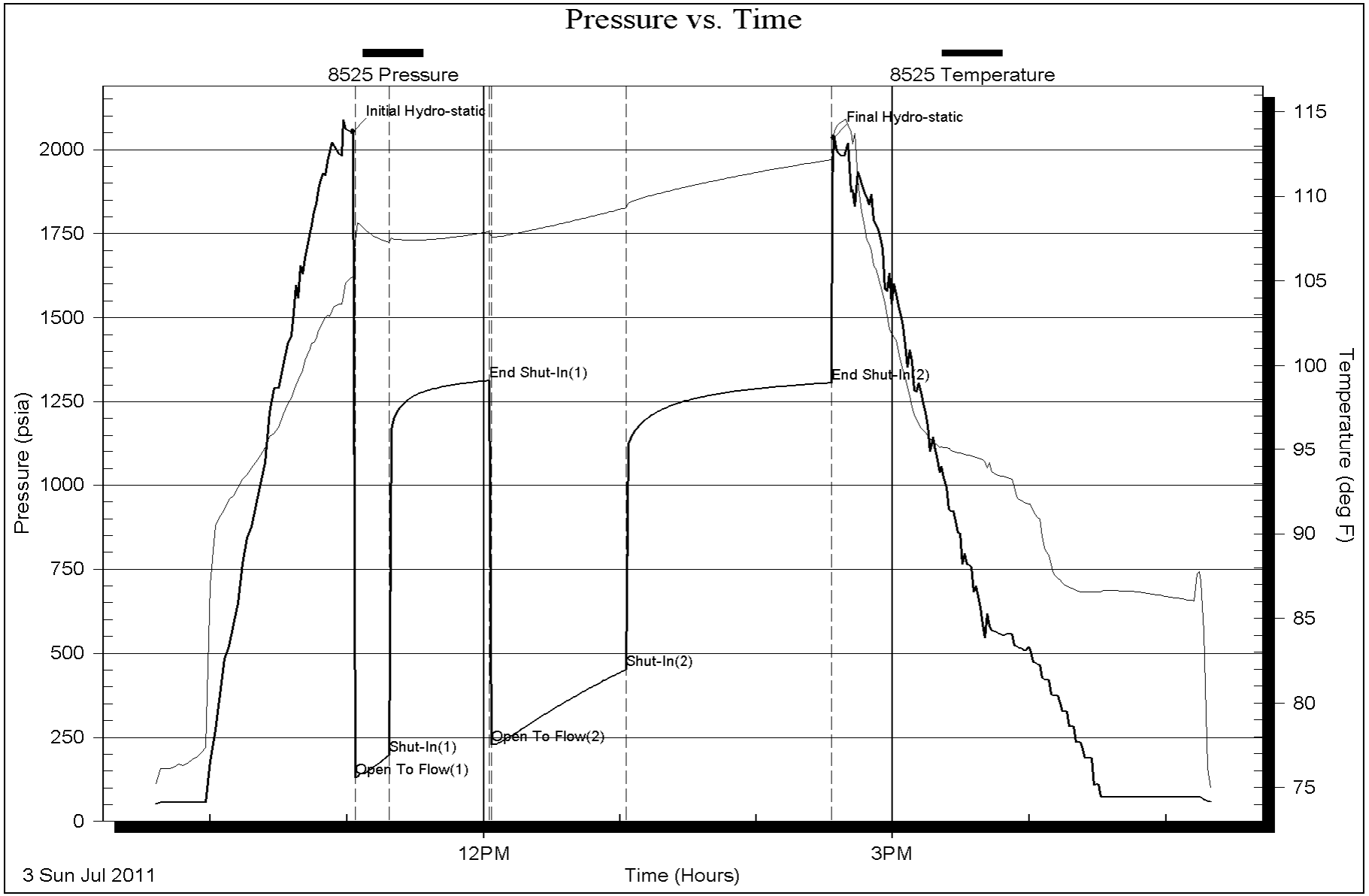
Total Length: 1000.00 ft Total Volume: 11.963 bbl

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

Laboratory Name: Laboratory Location:

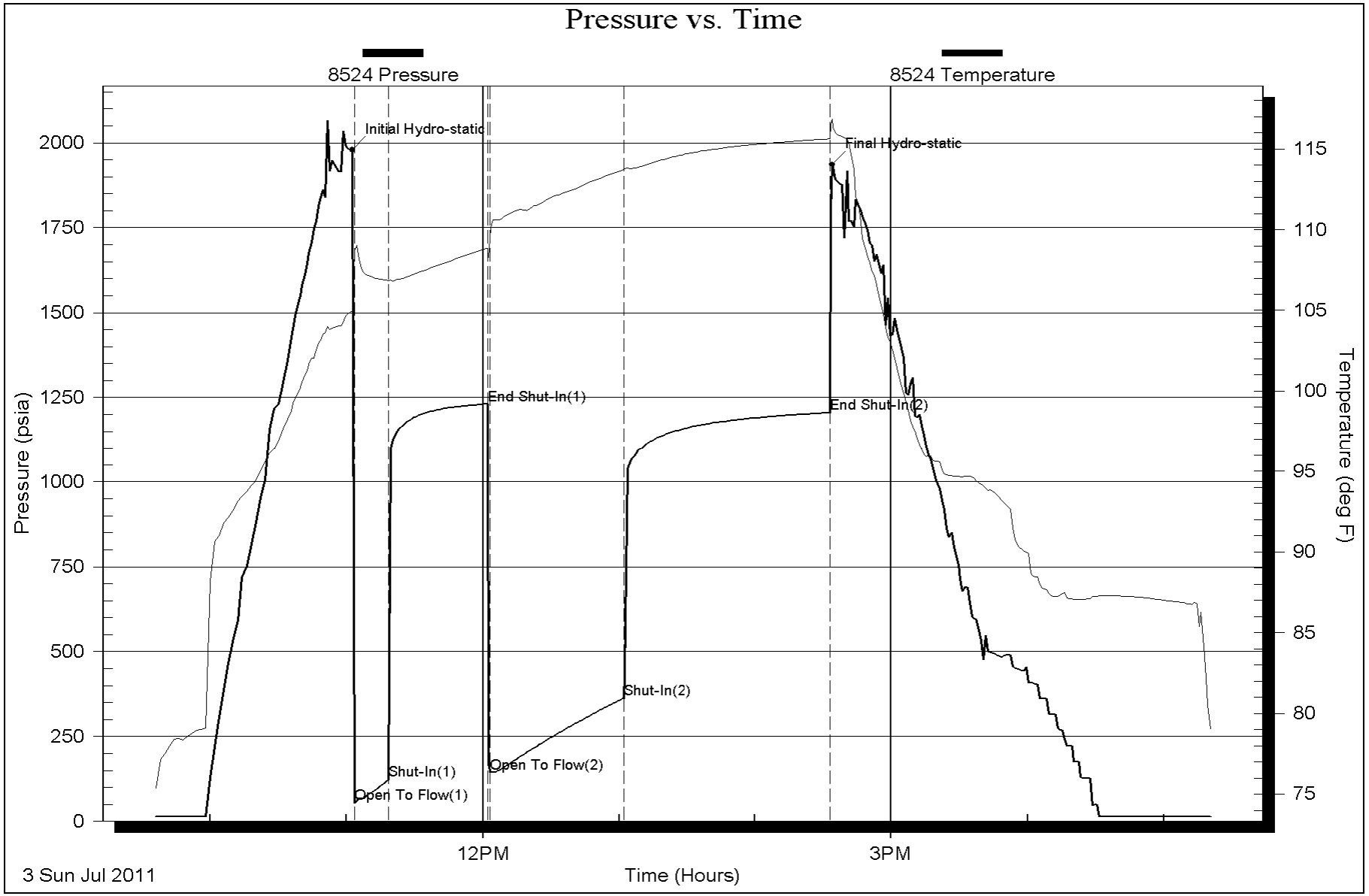
Recovery Comments: Gas to surface gravity oil 46

Serial #: 8525 Captiva 11 7-22s-16w Pawnee DST Test Number: 3



Superior Testers Enterprises LLC Ref. No: 16504 Printed: 2011.07.03 @ 18:02:39

Serial #: 8524 Captiva 11 7-22s-16w Pawnee DST Test Number: 3



Superior Testers Enterprises LLC Ref. No: 16504 Printed: 2011.07.03 @ 18:02:40

Scale 1:240 Imperial

Well Name:	# 1-7 F-F Unit		
Surface Location:	254' FNL, 350' FWL, Sec 7, T22S, R16W		
Bottom Location:			
API:	15-145-21645-00-00		
License Number:			
Spud Date:	6/25/2011	Time:	9:00 PM
Region:	Pawnee County		
Drilling Completed:	7/4/2011	Time:	1:34 AM
Surface Coordinates:	544044 & 1818786		
Bottom Hole Coordinates:			
Ground Elevation:	2010.00ft		
K.B. Elevation:	2021.00ft		
Logged Interval:	2800.00ft	To:	3985.00ft
Total Depth:	3985.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Captiva II, LLC		
Address:	445 Union Blvd., Suite 208 Lakewood, CO 80228		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209		
Well Name:	# 1-7 F-F Unit		
Location:	254' FNL, 350' FWL, Sec 7, T22S, R16W	API:	15-145-21645-00-00
Pool:	Wildcat	Field:	
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 #1-7 F-F Unit well was drilled to a LTD of 3983', bottoming in the Arbuckle. A TookeDAQ gas detector was employed during the drilling of all prospective formations. Gas was noted in the Lansing D and J zones as well as the Arbuckle. Oil shows were encountered in the samples in the Lansing D, the Conglomerate immediately above the Arbuckle, and in the Arbuckle. Three successively deeper DST's were conducted from the top of the Arbuckle. The Arbuckle interval covered by the DST's was from 3876'-3917'. Oil and gas was recovered on all three tests with no water.

After considerable thought and agonizing, for a few seconds, over the logs and very favorable DST charts and recoveries, it was determined by all parties involved, that production casing should be run through the Arbuckle and that the Arbuckle should be further tested 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

Well Comparison Sheet

Charlie Sturdavant Consulting

WELL COMPARISON SHEET

	DRILLING WELL Captiva II F-F Unit # 1 254' FNL & 350' FWL Sec. 7, T22S R16W				COMPARISON WELL Captiva II #1-7 Eakin Unit 2676' FNL & 423' FEL Sec. 7, T22S R16W				COMPARISON WELL Captiva II #3-7 Eakin Unit 1238' FNL & 1780' FEL Sec. 7, T22S R16W			
	2021 KB				2018 KB		Structural Relationship		2017 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	1019	1002	1018	1003	1015	1003	-1	0	1006	1011	-9	-8
Topeka	3141	-1120	3138	-1117	3140	-1122	2	5	3140	-1123	3	6
Queen Hill	3314	-1293	3314	-1293	3315	-1297	4	4	3318	-1301	8	8
Heebner	3424	-1403	3420	-1399	3428	-1410	7	11	3426	-1409	6	10
Toronto	3437	-1416	3437	-1416	3442	-1424	8	8	3442	-1425	9	9
Douglas	3462	-1441	3451	-1430	3464	-1446	5	16	3461	-1444	3	14
Brown Lime	3523	-1502	3518	-1497	3527	-1509	7	12	3526	-1509	7	12
Lansing	3532	-1511	3527	-1506	3536	-1518	7	12	3534	-1517	6	11
Muncie Creek	3656	-1635	3648	-1627	3664	-1646	11	19	3659	-1642	7	15
Stark Shale	3725	-1704	3726	-1705	3729	-1711	7	6	3731	-1714	10	9
Base KC	3785	-1764	3786	-1765	3792	-1774	10	9	3786	-1769	5	4
Marmaton	3800	-1779	3796	-1775	3804	-1786	7	11	3800	-1783	4	8
Conglomerate	3844	-1823	3808	-1787	3822	-1804	-19	17	3820	-1803	-20	16
Arbuckle	3882	-1861	3876	-1855	3883	-1865	4	10	3866	-1849	-12	-6
Total Depth	3985	-1964	3983	-1962	4000	-1982	18	20	4000	-1983	19	21

Daily Drilling Report

Charlie Sturdavant Consulting

DAILY DRILLING REPORT

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

Well: #1-7 F-F Unit
Location: 254' FNL & 350' FEL
Sec. 7 T22S R16W
Pawnee County, KS

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

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

Elevation: 2021' KB 2010' GL
Field: Wildcat
API No.: 15-145-21645-0000
Surface Casing: 8 5/8" set @ 1077' KB

Drilling Contractor: Sterling Drilling Rig #2 620-388-5651, Tool Pusher: Shane Downs, cell: 620-388-3474

DATE	7:00 AM DEPTH	REMARKS
6/25/2011	0 ft.	Moving off Eakin #2-7 OWWO and onto the F-F Unit. Spud @ 2100 hrs.

6/26/2011	580 ft.	Drilling ahead with 12-1/4" bit.
6/27/2011	1082 ft.	To run 23 joints of new 23# 8-5/8" casing, set @ 1077'.
6/28/2011	1590 ft.	Drilling ahead with new 7-7/8" JZ QX20J bit.
6/29/2011	2545 ft.	Drilling ahead.
6/30/2011	3358 ft.	Drilling ahead.
7/1/2011	3825 ft.	Drilling ahead.
7/2/2011	3890 ft.	Waiting on DST #1 results. Recovered 660 ft. of mud and gas cut oil.
7/3/2011	3917 ft.	CFS and will be conducting DST #3. DST #2 recovered 2520' of oil and gas cut oil. GTS gauged 2.06 - 4.72mcf/d.
7/4/2011	3985 ft.	TOH for logging. Pulled tight and short tripped. Loggers are on location. DST #3 recovered 2760' GIP, 500' oil, 220' G&MCO, 280' GCO. Electrical logging completed @ 1300 hrs. Geologist off location @ 1400 hrs.

Drill Stem Test # 1

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16502 **DST#: 1**

Test Start: 2011.07.01 @ 09:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:11:30
Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB 65

Interval: 3780.00 ft (KB) To 3890.00 ft (KB) (TVD)
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

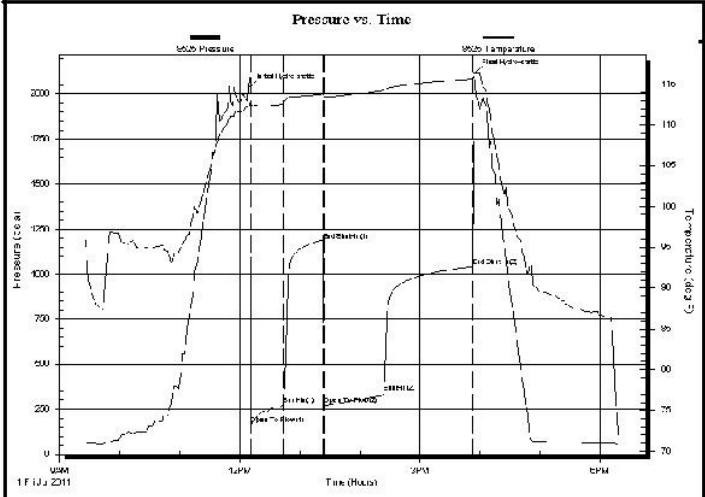
Serial #: 8525

Press@RunDepth: 345.51 psia @ ft (KB)
Start Date: 2011.07.01 End Date: 2011.07.01
Start Time: 09:25:00 End Time: 18:18:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.02
Time On Btm: 2011.07.01 @ 12:10:30
Time Off Btm: 2011.07.01 @ 15:54:30

TEST COMMENT: 1st open 30minutes Strong blow bottom of bucket in 14minutes

1st shutin 45minutes no blow back
2nd open 60minutes Strong blow bottom of bucket in 7minutes
2nd shutin 90minutes yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2040.00	113.09	Initial Hydro-static
1	165.77	112.43	Open To Flow (1)
33	273.64	112.58	Shut-In(1)
73	1188.20	113.74	End Shut-In(1)
74	275.32	113.43	Open To Flow (2)
134	345.51	114.24	Shut-In(2)
222	1042.29	115.62	End Shut-In(2)
224	2115.17	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oily cut mud gas 20% oil 60% mu	0.30
180.00	Gas and oil cut mud	1.01
0.00	Gas 45% oil 35% mud 20%	0.00
420.00	Gas and oil cut mud	5.89
0.00	Gas 25% oil 25% mud 50%	0.00

Gas Rates

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

Superior Testers Enterprises LLC Ref. No: 16502 Printed: 2011.07.02 @ 07:03:31

Drill Stem Test # 2

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16503 **DST#: 2**

Test Start: 2011.07.02 @ 13:54:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:51:00
Time Test Ended: 01:24:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332-GB-62

Interval: 3690.00 ft (KB) To 3905.00 ft (KB) (TVD)
Total Depth: 3905.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

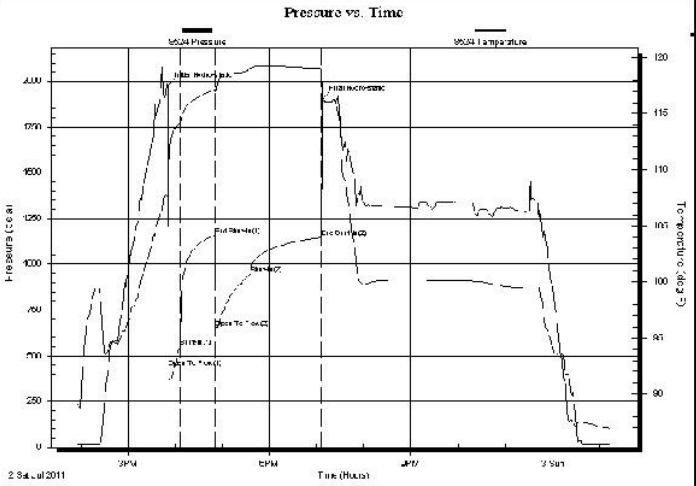
Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524 **Inside**
Press@RunDepth: 944.78 psia @ 3901.00 ft (KB)
Start Date: 2011.07.02 End Date: 2011.07.03
Start Time: 13:54:00 End Time: 01:24:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.02 @ 15:50:00
Time Off Btm: 2011.07.02 @ 19:07:00

TEST COMMENT: 1st Open 15 minutes Blew bottom of bucket in 1 minutes
1st Shut in 45 minutes Blow back bottom of bucket gas to surface see gas report
2nd Open 45 minutes Blow bottom of bucket in 2 minutes

2nd Open 45 minutes Blew bottom of bucket in 2 minutes
2nd Shut in 90 minutes Blow back bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1975.64	107.72	Initial Hydro-static
1	436.14	108.85	Open To Flow (1)
16	551.28	114.18	Shut-In(1)
61	1158.49	117.14	End Shut-In(1)
62	651.55	116.83	Open To Flow (2)
106	944.78	119.04	Shut-In(2)
196	1146.43	119.02	End Shut-In(2)
197	1902.89	116.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Oily cut gas 65% oil 35% gas	0.25
1140.00	Clean gasy oil	14.38
0.00	35% gas 65%oil	0.00
1330.00	Clean oil 100% oil	18.66
0.00	720 Foot gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.50	2.06
Last Gas Rate	0.13	7.00	2.62
Max. Gas Rate	0.13	12.60	4.72

Drill Stem Test # 3

DRILL STEM TEST REPORT

Captiva 11

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

Charlie Sturdarant

7-22s-16w Pawnee

Job Ticket: 16504 **DST#: 3**

Test Start: 2011.07.03 @ 09:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:03:30
Time Test Ended: 17:20:00

Test Type: Bottom Hole (Initial)
Tester: Dustin Ellis/Jared
Unit No: 3332 GB-62

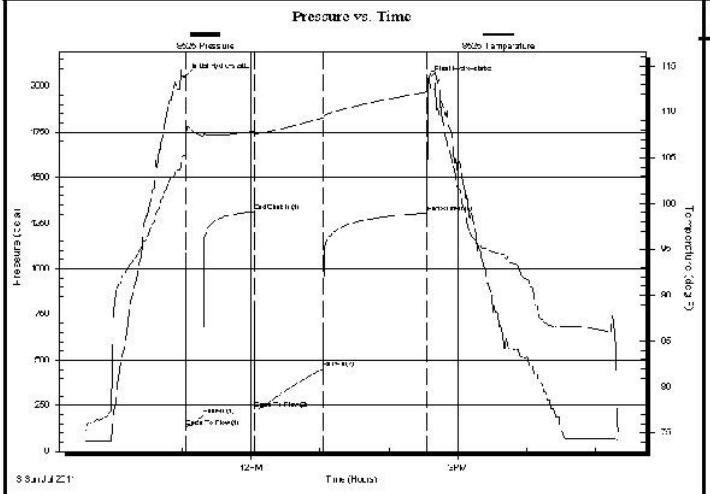
Interval: 3906.00 ft (KB) To 3917.00 ft (KB) (TVD)
Total Depth: 3917.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2021.00 ft (KB)
2010.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8525
Press@RunDepth: 452.20 psia @ ft (KB)
Start Date: 2011.07.03 End Date: 2011.07.03
Start Time: 09:35:00 End Time: 17:20:00

Capacity: 5000.00 psia
Last Calib.: 2011.07.03
Time On Btm: 2011.07.03 @ 11:02:30
Time Off Btm: 2011.07.03 @ 14:34:00

TEST COMMENT: 1st open 15 minutes Strong blow buttom bucket 2 minutes
1st shut in 45 minutes Blow back
2nd open 60 minutes Strong blow buttom bucket 3 minutes
2nd shut in 90 minutes Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2052.76	105.23	Initial Hydro-static
1	130.95	107.36	Open To Flow (1)
16	197.93	107.30	Shut-In(1)
60	1312.78	107.92	End Shut-In(1)
61	229.42	107.61	Open To Flow (2)
120	452.20	109.34	Shut-In(2)
211	1305.93	112.18	End Shut-In(2)
212	2035.05	113.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	oily cut gas gas 40% oil 60%	1.86
220.00	oily cut gas and mud	3.09
0.00	gas20%oil70%mud10%	0.00
500.00	oil 100%	7.01
0.00	2760 gas in pipe	0.00

Gas Rates

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

Superior Testers Enterprises LLC Ref. No: 16504 Printed: 2011.07.03 @ 18:02:39

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 544044
E/W Co-ord: 1818786

CONTRACTOR

Contractor: Sterling Drilling Company
Rig #: 2
Rig Type: mud rotary
Spud Date: 6/25/2011 Time: 9:00 PM
TD Date: 7/4/2011 Time: 1:34 AM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2021.00ft Ground Elevation: 2010.00ft
K.B. to Ground: 11.00ft

ROCK TYPES

Cht, Congl, Chtcongl, Dolsec, Lmst fw<7, Lmst fw7>, shale, grn, Shgy, shale, gry, Carbon Sh, shale, red, Shcol, Sltst

ACCESSORIES

MINERAL
- Calcareous
- Chert White
- Chert, dark
- Dolomitic
- Glauconite
- Pyrite
- Euhed rhombs of dol or

FOSSIL
- Bioclastic or Fragmental
- Brachiopod
- Bryozoa
- Crinoids
- Fossils < 20%
- Fussilinid
- Gastropods

STRAT./SED. STRUCTS
- Stylolite

STRINGER
- Chert
- Siltstone
- Shale
- green shale

TEXTURE
- CX Cryptocrystalline
- L Lithogr

Oolite
Oolites
Oomoldic
Pellets
Spicules

OTHER SYMBOLS

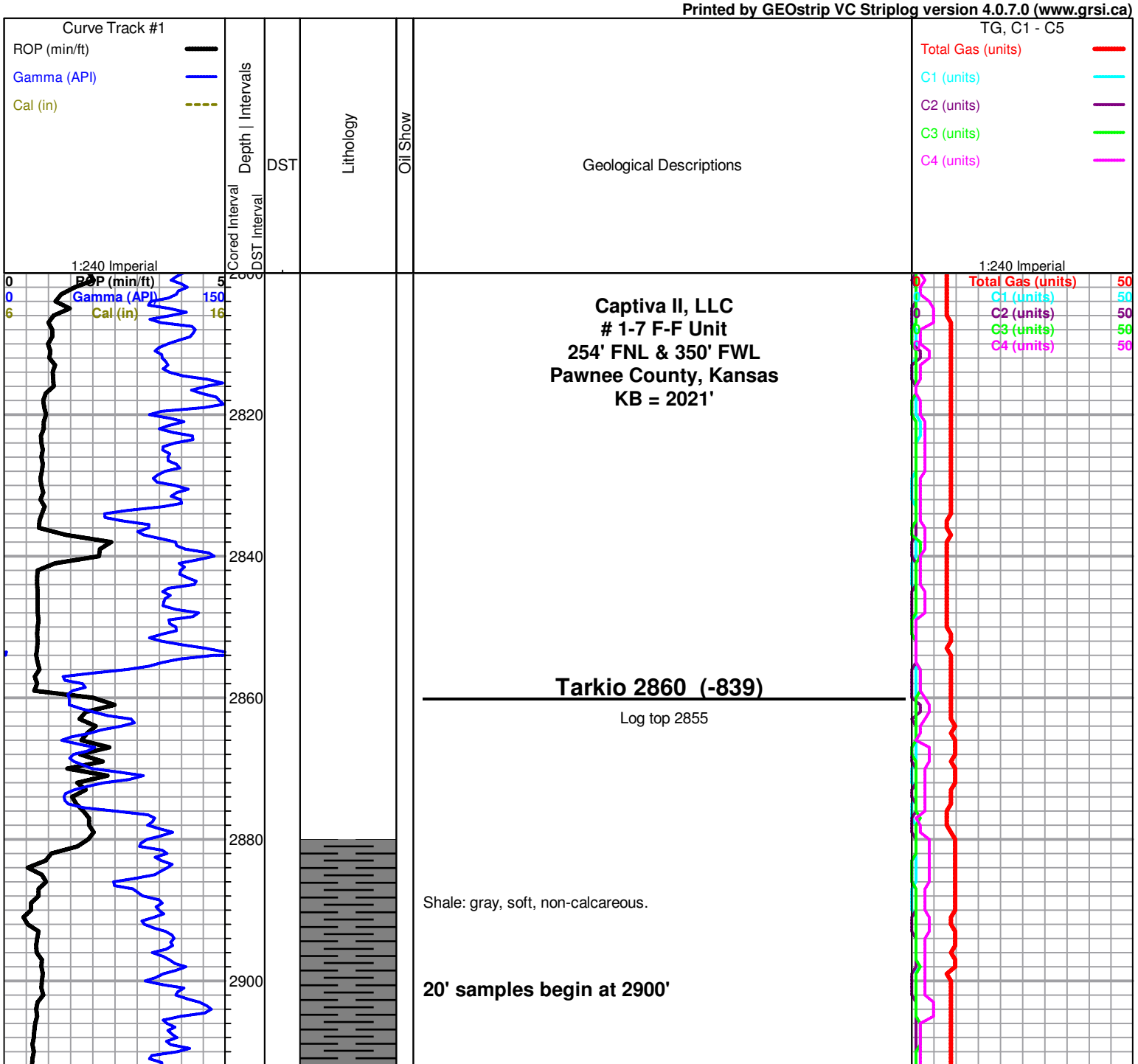
MISC

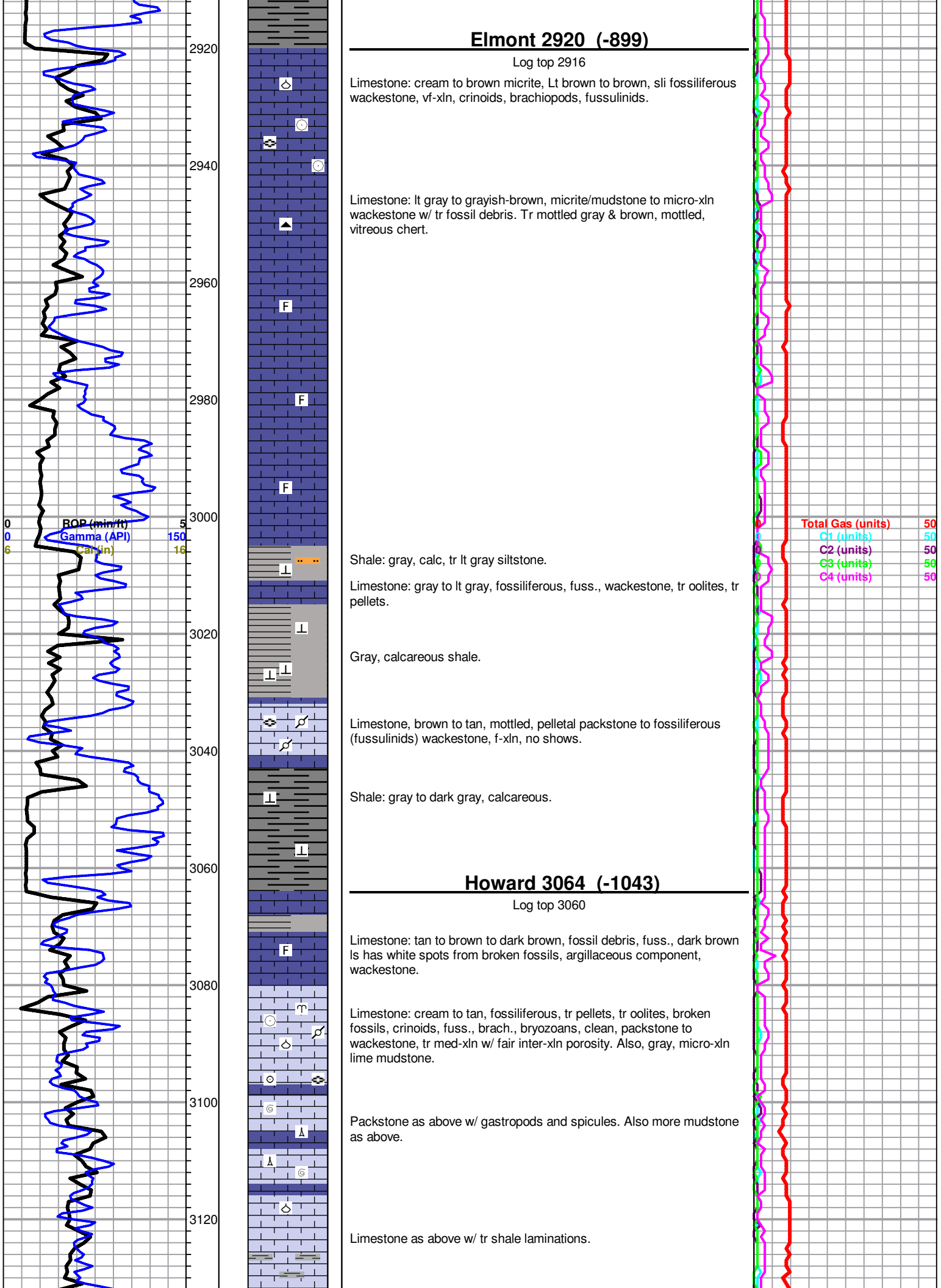
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

DST

DST Int
DST alt

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





Elmont 2920 (-899)

Log top 2916

Limestone: cream to brown micrite, Lt brown to brown, sli fossiliferous wackestone, vf-xln, crinoids, brachiopods, fussulinids.

Limestone: lt gray to grayish-brown, micrite/mudstone to micro-xln wackestone w/ tr fossil debris. Tr mottled gray & brown, mottled, vitreous chert.

Shale: gray, calc, tr lt gray siltstone.

Limestone: gray to lt gray, fossiliferous, fuss., wackestone, tr oolites, tr pellets.

Gray, calcareous shale.

Limestone, brown to tan, mottled, pelletal packstone to fossiliferous (fussulinids) wackestone, f-xln, no shows.

Shale: gray to dark gray, calcareous.

Howard 3064 (-1043)

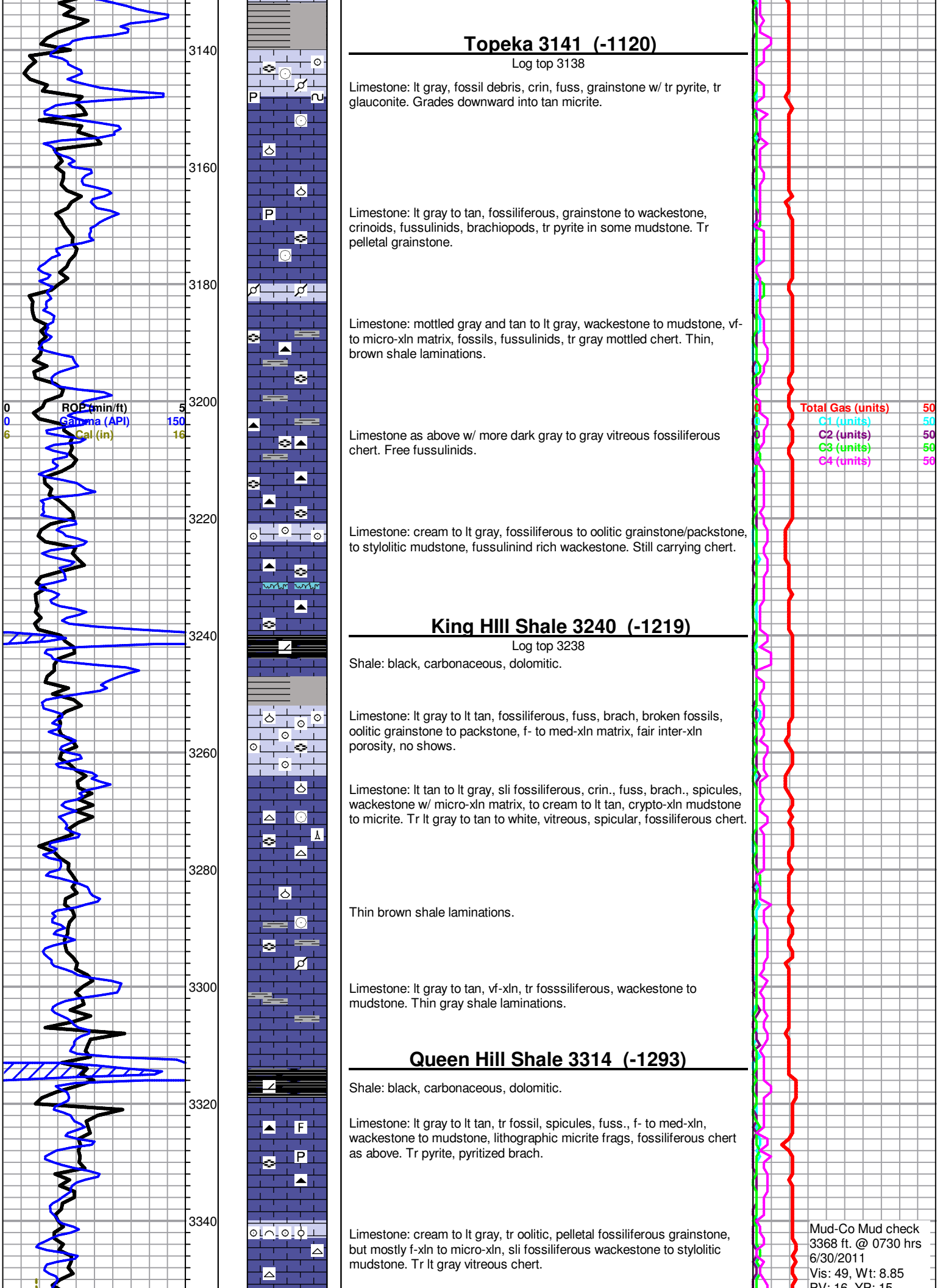
Log top 3060

Limestone: tan to brown to dark brown, fossil debris, fuss., dark brown ls has white spots from broken fossils, argillaceous component, wackestone.

Limestone: cream to tan, fossiliferous, tr pellets, tr oolites, broken fossils, crinoids, fuss., brach., bryozoans, clean, packstone to wackestone, tr med-xln w/ fair inter-xln porosity. Also, gray, micro-xln lime mudstone.

Packstone as above w/ gastropods and spicules. Also more mudstone as above.

Limestone as above w/ tr shale laminations.



Topeka 3141 (-1120)

Log top 3138

Limestone: lt gray, fossil debris, crin, fuss, grainstone w/ tr pyrite, tr glauconite. Grades downward into tan micrite.

Limestone: lt gray to tan, fossiliferous, grainstone to wackestone, crinoids, fussulinids, brachiopods, tr pyrite in some mudstone. Tr pelletal grainstone.

Limestone: mottled gray and tan to lt gray, wackestone to mudstone, vf- to micro-xln matrix, fossils, fussulinids, tr gray mottled chert. Thin, brown shale laminations.

Limestone as above w/ more dark gray to gray vitreous fossiliferous chert. Free fussulinids.

Limestone: cream to lt gray, fossiliferous to oolitic grainstone/packstone, to stylolitic mudstone, fussulinind rich wackestone. Still carrying chert.

King HIll Shale 3240 (-1219)

Log top 3238

Shale: black, carbonaceous, dolomitic.

Limestone: lt gray to lt tan, fossiliferous, fuss, brach, broken fossils, oolitic grainstone to packstone, f- to med-xln matrix, fair inter-xln porosity, no shows.

Limestone: lt tan to lt gray, sli fossiliferous, crin., fuss, brach., spicules, wackestone w/ micro-xln matrix, to cream to lt tan, crypto-xln mudstone to micrite. Tr lt gray to tan to white, vitreous, spicular, fossiliferous chert.

Thin brown shale laminations.

Limestone: lt gray to tan, vf-xln, tr fosssiliferous, wackestone to mudstone. Thin gray shale laminations.

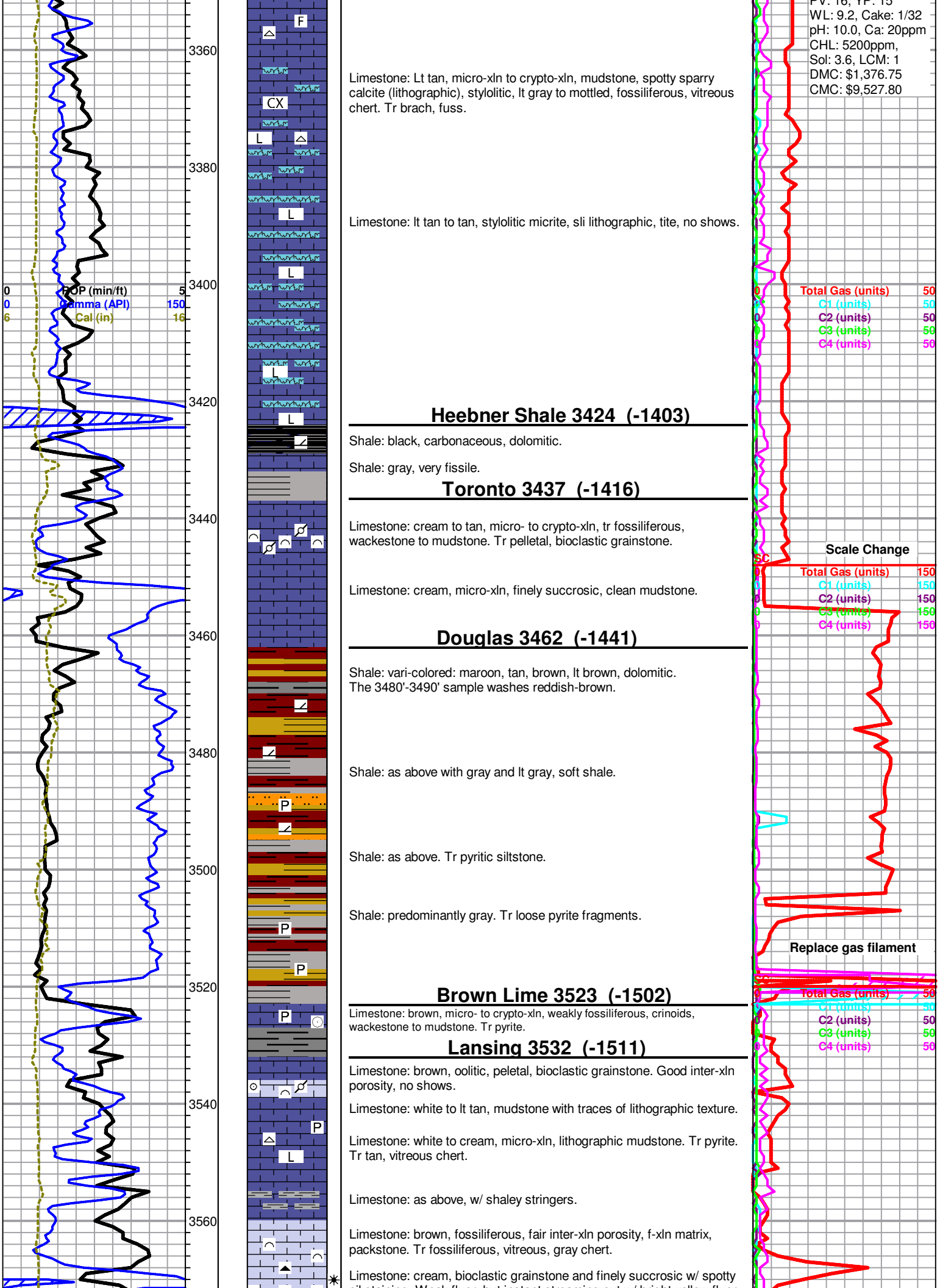
Queen Hill Shale 3314 (-1293)

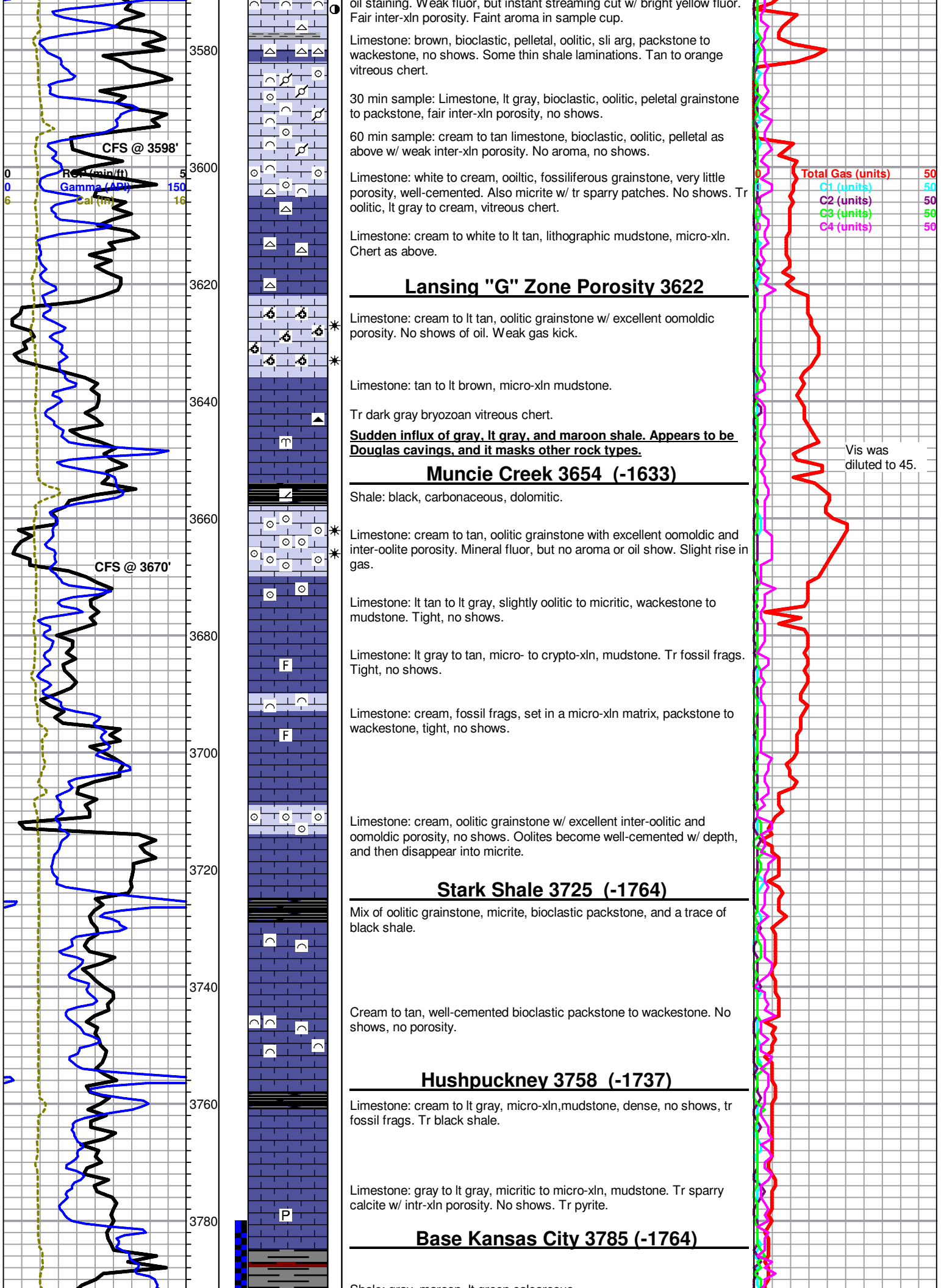
Shale: black, carbonaceous, dolomitic.

Limestone: lt gray to lt tan, tr fossil, spicules, fuss., f- to med-xln, wackestone to mudstone, lithographic micrite frags, fossiliferous chert as above. Tr pyrite, pyritized brach.

Limestone: cream to lt gray, tr oolitic, pelletal fossiliferous grainstone, but mostly f-xln to micro-xln, sli fossiliferous wackestone to stylolitic mudstone. Tr lt gray vitreous chert.

Mud-Co Mud check
3368 ft. @ 0730 hrs
6/30/2011
Vis: 49, Wt: 8.85
PV: 16, YP: 15


PV: 16, YP: 15
WL: 9.2, Cake: 1/32
pH: 10.0, Ca: 20ppm
CHL: 5200ppm,
Sol: 3.6, LCM: 1
DMC: $1,376.75
CMC: $9,527.80
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
3360
3380
3400
3420
3440
3460
3480
3500
3520
3540
3560
F
CX
L
P
Limestone: Lt tan, micro-xln to crypto-xln, mudstone, spotty sparry calcite (lithographic), stylolitic, lt gray to mottled, fossiliferous, vitreous chert. Tr brach, fuss.
Limestone: lt tan to tan, stylolitic micrite, sli lithographic, tite, no shows.
Heebner Shale 3424 (-1403)
Shale: black, carbonaceous, dolomitic.
Shale: gray, very fissile.
Toronto 3437 (-1416)
Limestone: cream to tan, micro- to crypto-xln, tr fossiliferous, wackestone to mudstone. Tr pelletal, bioclastic grainstone.
Limestone: cream, micro-xln, finely succrosic, clean mudstone.
Douglas 3462 (-1441)
Shale: vari-colored: maroon, tan, brown, lt brown, dolomitic. The 3480'-3490' sample washes reddish-brown.
Shale: as above with gray and lt gray, soft shale.
Shale: as above. Tr pyritic siltstone.
Shale: predominantly gray. Tr loose pyrite fragments.
Brown Lime 3523 (-1502)
Limestone: brown, micro- to crypto-xln, weakly fossiliferous, crinoids, wackestone to mudstone. Tr pyrite.
Lansing 3532 (-1511)
Limestone: brown, oolitic, peletal, bioclastic grainstone. Good inter-xln porosity, no shows.
Limestone: white to lt tan, mudstone with traces of lithographic texture.
Limestone: white to cream, micro-xln, lithographic mudstone. Tr pyrite. Tr tan, vitreous chert.
Limestone: as above, w/ shaley stringers.
Limestone: brown, fossiliferous, fair inter-xln porosity, f-xln matrix, packstone. Tr fossiliferous, vitreous, gray chert.
Limestone: cream, bioclastic grainstone and finely succrosic w/ spotty
Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50
Scale Change
SC
Total Gas (units) 150
C1 (units) 150
C2 (units) 150
C3 (units) 150
C4 (units) 150
Replace gas filament
Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50



oil staining. Weak fluor, but instant streaming cut w/ bright yellow fluor. Fair inter-xln porosity. Faint aroma in sample cup.

Limestone: brown, bioclastic, pelletal, oolitic, sli arg, packstone to wackestone, no shows. Some thin shale laminations. Tan to orange vitreous chert.

30 min sample: Limestone, lt gray, bioclastic, oolitic, peletal grainstone to packstone, fair inter-xln porosity, no shows.

60 min sample: cream to tan limestone, bioclastic, oolitic, pelletal as above w/ weak inter-xln porosity. No aroma, no shows.

Limestone: white to cream, ooiltic, fossiliferous grainstone, very little porosity, well-cemented. Also micrite w/ tr sparry patches. No shows. Tr oolitic, lt gray to cream, vitreous chert.

Limestone: cream to white to lt tan, lithographic mudstone, micro-xln. Chert as above.

Lansing "G" Zone Porosity 3622

Limestone: cream to lt tan, oolitic grainstone w/ excellent oomoldic porosity. No shows of oil. Weak gas kick.

Limestone: tan to lt brown, micro-xln mudstone.

Tr dark gray bryozoan vitreous chert.

Sudden influx of gray, lt gray, and maroon shale. Appears to be Douglas cavings, and it masks other rock types.

Muncie Creek 3654 (-1633)

Shale: black, carbonaceous, dolomitic.

Limestone: cream to tan, oolitic grainstone with excellent oomoldic and inter-oolite porosity. Mineral fluor, but no aroma or oil show. Slight rise in gas.

Limestone: lt tan to lt gray, slightly oolitic to micritic, wackestone to mudstone. Tight, no shows.

Limestone: lt gray to tan, micro- to crypto-xln, mudstone. Tr fossil frags. Tight, no shows.

Limestone: cream, fossil frags, set in a micro-xln matrix, packstone to wackestone, tight, no shows.

Limestone: cream, oolitic grainstone w/ excellent inter-oolitic and oomoldic porosity, no shows. Oolites become well-cemented w/ depth, and then disappear into micrite.

Stark Shale 3725 (-1764)

Mix of oolitic grainstone, micrite, bioclastic packstone, and a trace of black shale.

Cream to tan, well-cemented bioclastic packstone to wackestone. No shows, no porosity.

Hushpuckney 3758 (-1737)

Limestone: cream to lt gray, micro-xln,mudstone, dense, no shows, tr fossil frags. Tr black shale.

Limestone: gray to lt gray, micritic to micro-xln, mudstone. Tr sparry calcite w/ intr-xln porosity. No shows. Tr pyrite.

Base Kansas City 3785 (-1764)

Shale: gray, maroon, lt green calcareous

Shale: gray, maroon, lt green calcareous.

Marmaton 3800 (-1779)

Limestone: cream to lt gray, dense, crypto-xln, micrite.

Increase in shales: gray, dark gray, greenish-gray, tr maroon. Tr orange chert. Pyritized rhombopora and crinoids.

Limestone: cream to tan, fossiliferous packstone to non-fossiliferous mudstone.

Shale: vari-colored, gray, lt gray, greenish-gray, aqua green, brown, maroon, yellowish-green, calcareous, Chert: orange, vitreous.

30 & 60 min samples @ 3870': Spotty oil Show in ls fragments. Spotty, dull yellow fluor, good streaming cut. Still in the conglomerate section.

Conglomerate: as above w/ spotty oil shohws in limestone fragments. Shale: vari-colored: green, aqua, gray-green, gray, mottled gray and red, maroon. Sample from 3880'-90' washes red.

Arbuckle 3882 (-1861)

Dolomite: stained brown due to complete oil saturation. Oolitic w/ excellent oomoldic porosity, succrosic w/ good inter-xln porosity, and micro-vugular porosity. Bleeds oil before adding cutting fluid, bright yellow fluor, instant streaming cut. Porosity is so high that water add to a fragment soaks through and disappears. Gas bubbles emanate from pores. Some fragments are not totally saturated because they have spots of micrite. Succrosic grain size ranges from 0.05mm to 0.5mm. Tr pyrite. 3905': Most succrosic frags are totally saturated & brown, with spots of live black oil. Some frags have streaks of unstained micrite. Some oomoldic frags have absolutely no staining. Tr aqua-green shale. Gas bubbles, Py.

F-F Unit #1-1.pdf.pdf

F-F Unit #1-2.pdf

F-F Unit #1-3.pdf

3917': Dolomite, brown, stained with oil. Finely succrosic frags are totally saturated w/ lt brown oil, some frags have a dark brown to black oil staining in the porosity. Also white dolomite, med to f-xln succrosic w/ black, heavy oil staining in good inter-xln porosity, bleeds gas bubbles, mineral fluor, but no oil fluor, slow cut. Tr pyrite, tr aqua-green shale laminations. Some micritic streaks w/o staining. Chert: white, lt gray, tan, mostly vitreous, some have qtz crystal cores. Some of the white is tripolitic.

3920-30': Cherty dolomite, mostly crypto-xln micrite, only shows are along fracture surfaces or in sparry patches. Chert has similar shows along fractures and in qtz centers. Black, dead oil, no fluor, no cut. Chert is dominantly opaque white, minor amounts of honey to lt tan, translucent. Tr aqua-green shale laminations. Aroma in cup

3930-40': dolomite as above. Shows are spotty and dead. Chert as above. **(Lagged sample depths)**

3940-50': Tan dolomite, micrite to micro-xln succrosic to clear, euhedral, coarsely-xln calcite. Spotty oil staining is less frequent. Tr aqua-green shale, tr pyrite.

3950-60': Dolomite, cream to tan, mostly f- to med-xln succrosic w/ good inter-xln porosity, infrequent, black, dead oil spots, tr micrite, tr aqua-green shale, tr pyrite. Chert as above, but less frequent.

3960-85': Dolomite, tan to cream, mostly succrosic, f- to med-xln w/ good inter-xln porosity, no shows. Tr pyrite, tr aqua-green shale. White chert: vitreous to weathered, some is oolitic.

Mud-Co Mud check
3829 ft. @ 0705 hrs
7/1/2011
Vis: 69, Wt: 9.3
PV: 24, YP: 24
WL: 8.0, Cake: 1/32
pH: 10.5, Ca: 20ppm
CHL: 5000ppm,
Sol: 6.8, LCM: 1
DMC: $1,752.60
CMC: $11,280.40

Gas check

Mud-Co Mud check
3905 ft. @ 1310 hrs
7/2/2011
Vis: 68, Wt: 9.1
PV: 20, YP: 19
WL: 8.8, Cake: 1/32
pH: 10.0, Ca: 20ppm
CHL: 6200ppm,
Sol: 5.4, LCM: 0.5
DMC: $000.00
CMC: $11,280.40

Strap 1.45' short to board.
Deviation 0.75.

Scale change

Mud-Co
(Mud check
3917 ft. @
1310 hrs
7/3/2011
Vis: 68, Wt: 9.1
PV: 21, YP: 16
WL: 8.0, Cake: 1/32
pH: 9.5, Ca: 40ppm
CHL: 6800ppm,
Sol: 5.3,
LCM: Tr
DMC: $000.00
CMC: $11,280.40

0 Total Gas (units) 550
0 C1 (units) 550
0 C2 (units) 550
0 C3 (units) 550
0 C4 (units) 550

CFS @ 3856'
CFS @ 3870'
CFS @ 3880'
CFS @ 3890'
CFS @ 3905'
CFS @ 3917'
DST #1
DST #2
DST #3
RTD 3985'

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

3800 3820 3840 3860 3880 3900 3920 3940 3960 3980 4000

F-F Unit #1-1.pdf.pdf

F-F Unit #1-2.pdf

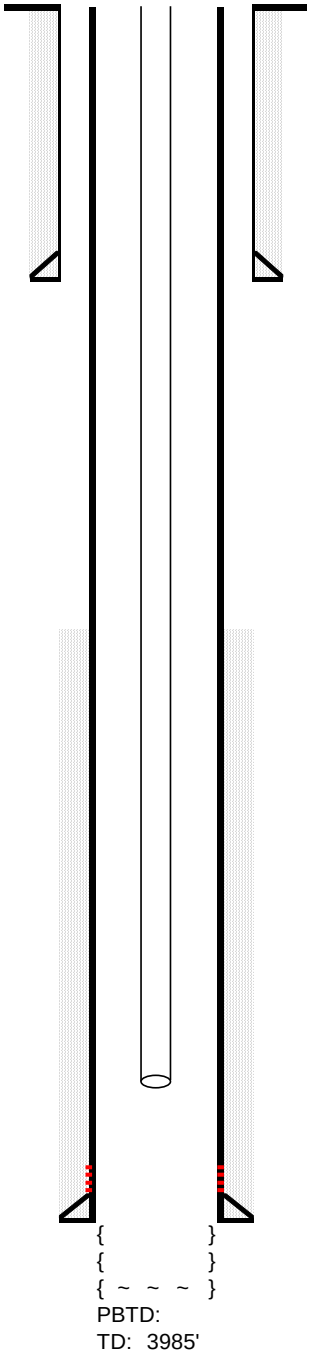
F-F Unit #1-3.pdf

F & F Unit #1-7

NE-NW-NW-NW
254' FNL & 350' FWL
Sec.7 T22s & R16w
Pawnee County, Kansas

CAPITVA ENERGY, LLC

API #	15-145-21645-0000
Spud Date:	6/26/2011
Completed:	7/26/2011
Field:	Wildcat
GL:	2010'
KB:	2021'



TOC: Surface

Tubing:
120 jts of 2.3/8" tbg, MA & SN set @ 3914'

Rods:
157 x ¾" rods
6'-4' x ¾" rod subs
1 ¼ x 18' PR w/ 6' liner

Pump:
2' x 1 ½" x 12' RWT precision pump

Surface Casing :
8-5/8" 23# set @ 1077'
Cemented with 500 sx
60/40 PozMix

TOC: 2434'

Production Casing:
5-1/2", 15.5# set @ 3964'
Cemented with 250 sx
50 sx scavenger
200 sx AA2

Arbuckle Perfs:

3908-10' (8) 7/20/11

PBTD:
TD: 3985'

CAPTIVA II, LLC

F-F Unit #1-7/Casing Report **API# *15-145-21645-0000***

NE-NW-NW
254' FNL & 350' FWL
Sec. 7, T22s-R16w **GL: 2010'**
Pawnee County, Kansas **KB: 2021'**

6/27/2011 **Surface Casing**

Spud at 8:15 p.m. on 6/26/11. Drill 12¼" hole to 1082'. Ran 25 joints of new 8. 5/8"-23# casing, tallied 1064' and set at 1077' KB with landing sub. Cemented by Quality Cementing (ticket #038765) with 500 sx 60/40 Poz 2% gel, 3% CC. Plug down at 8:30 p.m. Welded straps on the bottom 3 joints, welded collars on the next two and welded straps on the top 5 joints. Cement did circulate. Job complete at 11:00 a.m. on 6/27/11

7/05/2011 **Production Casing**

On location @ 7:00 p.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running 95 joints 5 ½" (15.5#) S-55 new casing. Shoe joint was 21.10'. Insert @ 3943.64'. Marker joint was 5 joints off bottom and measured 21.14'. Set casing @ 3963.74' KB. Landed casing 21' off RTD 3985' and LTD, 3983'. Ran a basket and insert on top of #1 and centralizers on #3, #5, #7, #9, and #11. Landed casing @ 12:15 a.m. (7/5/11) Circulate hole for 60 minutes to lower viscosity in mud. RU Basic Services, plug RH with 30 sx. and MH with 20 sx. Mix and pump 50 sx 60/40 Poz-Mix as scavenger flush, followed by 200 sx AA-2 cement down casing. Had good circulation throughout the job. Plug down @ 3:00 a.m. and held 1500#. Release pressure and float held. Release Sterling Rig #2 @ 5:00 a.m.