



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1078785

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

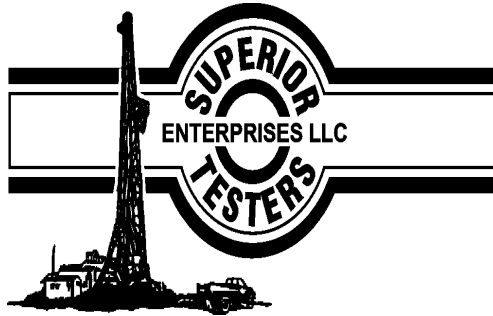
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin 5-7
Doc ID	1078785

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic
Cement Bond



DRILL STEM TEST REPORT

Prepared For: **Captiva 2**

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Sturdavant

7-22s-16w -Pawnee

Eakin Unit 5-7

Start Date: 2011.10.26 @ 10:36:00

End Date: 2011.10.26 @ 18:43:00

Job Ticket #: 17228 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.10.26 @ 20:30:07



DRILL STEM TEST REPORT

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

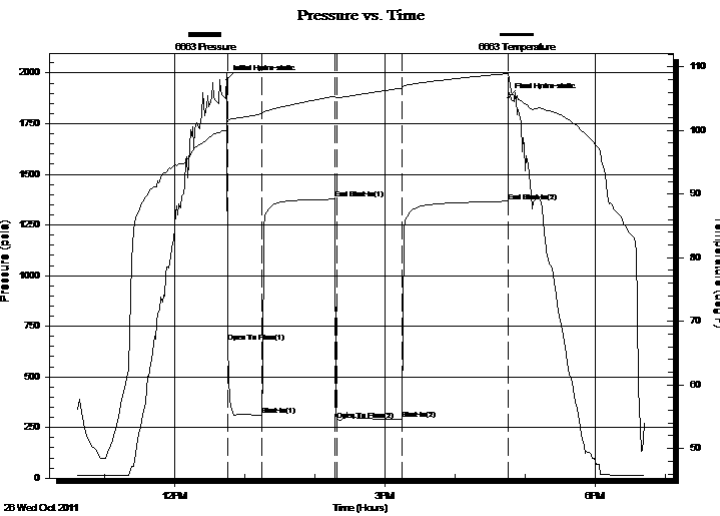
Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17228 **DST#: 1**
 Test Start: 2011.10.26 @ 10:36:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:45:30
 Time Test Ended: 18:43:00
 Interval: **3860.00 ft (KB) To 3894.00 ft (KB) (TVD)**
 Total Depth: 3894.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-55 miles
 Reference Elevations: 2021.00 ft (KB)
 2010.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
 Press @ RunDepth: 288.75 psia @ 3891.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.26 End Date: 2011.10.26 Last Calib.: 2011.10.26
 Start Time: 10:37:00 End Time: 18:43:00 Time On Btm: 2011.10.26 @ 12:45:00
 Time Off Btm: 2011.10.26 @ 16:46:00

TEST COMMENT: 1st Open 30 minutes Strong blow built to bottom of bucket instantly
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong blow built to bottom of bucket instantly
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

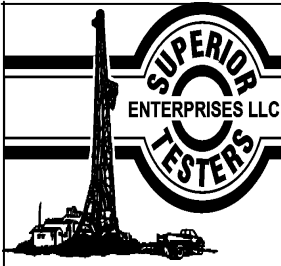
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1966.14	101.05	Initial Hydro-static
1	671.03	101.38	Open To Flow (1)
30	311.15	102.65	Shut-In(1)
93	1377.14	105.40	End Shut-In(1)
95	285.47	105.14	Open To Flow (2)
150	288.75	106.69	Shut-In(2)
241	1366.89	108.94	End Shut-In(2)
241	1876.43	109.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drilling mud	0.61

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	26.00	747.47
Last Gas Rate	1.00	23.00	661.22
Max. Gas Rate	1.00	26.00	747.47



DRILL STEM TEST REPORT

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

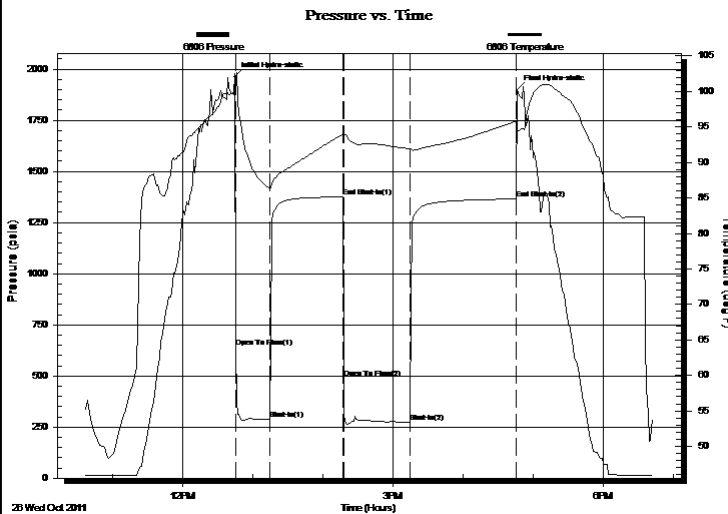
Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17228 **DST#: 1**
 Test Start: 2011.10.26 @ 10:36:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:45:30
 Time Test Ended: 18:43:00
 Interval: **3860.00 ft (KB) To 3894.00 ft (KB) (TVD)**
 Total Depth: 3894.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-55 miles
 Reference Elevations: 2021.00 ft (KB)
 2010.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6806 Inside
 Press @ Run Depth: 1365.67 psia @ 3890.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.26 End Date: 2011.10.26 Last Calib.: 2011.10.26
 Start Time: 10:37:00 End Time: 18:43:00 Time On Btm: 2011.10.26 @ 12:45:00
 Time Off Btm: 2011.10.26 @ 16:46:30

TEST COMMENT: 1st Open 30 minutes Strong blow built to bottom of bucket instantly
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong blow built to bottom of bucket instantly
 2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY

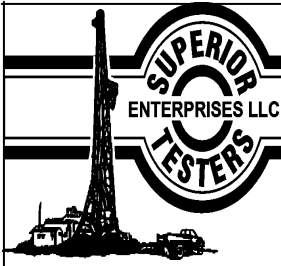
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1963.45	99.82	Initial Hydro-static
1	641.39	99.84	Open To Flow (1)
30	287.63	86.31	Shut-In(1)
93	1375.89	93.99	End Shut-In(1)
93	488.09	93.78	Open To Flow (2)
150	273.32	91.89	Shut-In(2)
241	1365.67	95.81	End Shut-In(2)
242	1897.73	94.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drilling mud	0.61

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	26.00	747.47
Last Gas Rate	1.00	23.00	661.22
Max. Gas Rate	1.00	26.00	747.47



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

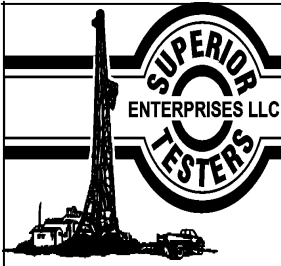
Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17228 **DST#: 1**
 Test Start: 2011.10.26 @ 10:36:00

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 52.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3860.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.25 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3837.00	
Hydraulic Tool	5.00			3842.00	
Jars	6.00			3848.00	
Safety Joint	2.00			3850.00	
Packer	5.00			3855.00	28.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Perforations	29.00			3889.00	
Recorder	1.00	6806	Inside	3890.00	
Recorder	1.00	6663	Outside	3891.00	
Bull Plug	3.00			3894.00	34.00 Bottom Packers & Anchor
Total Tool Length:	62.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17228 **DST#: 1**
 Test Start: 2011.10.26 @ 10:36:00

Mud and Cushion Information

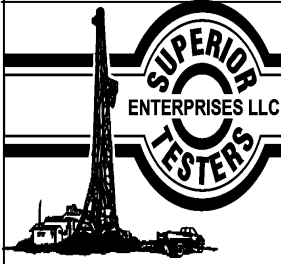
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Drilling mud	0.615

Total Length: 125.00 ft Total Volume: 0.615 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 Sturdavant

Eakin Unit 5-7
7-22s-16w -Pawnee
Job Ticket: 17228 **DST#: 1**
Test Start: 2011.10.26 @ 10:36:00

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	26.00	747.47
2	20	1.00	23.00	661.22
3	30	1.00	23.00	661.22
4	40	1.00	23.00	661.22
5	50	1.00	23.00	661.22
6	60	1.00	23.00	661.22

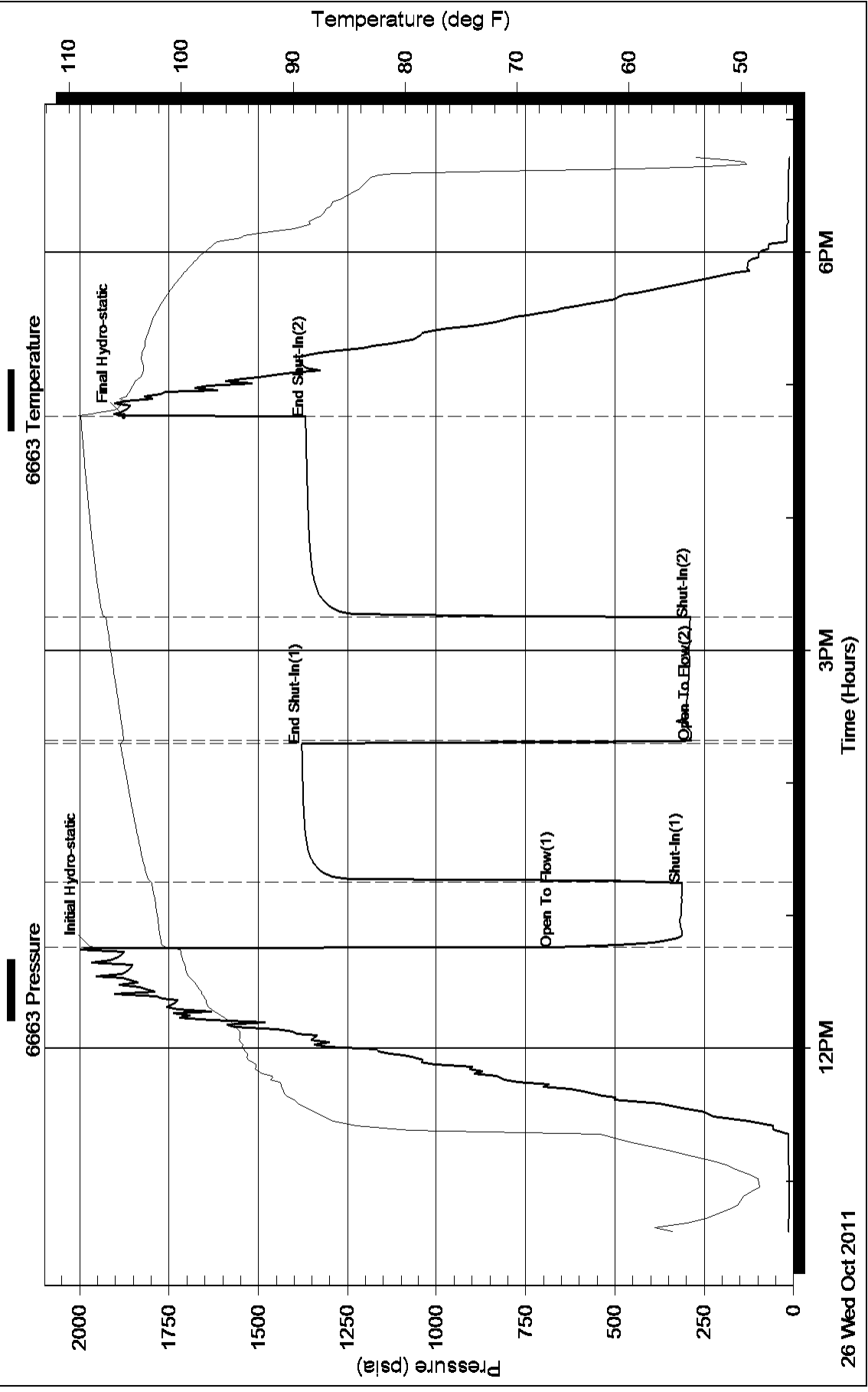
Serial #: 6663

Outside Captiva 2

7-22s-16w -Pawnee

DST Test Number: 1

Pressure vs. Time



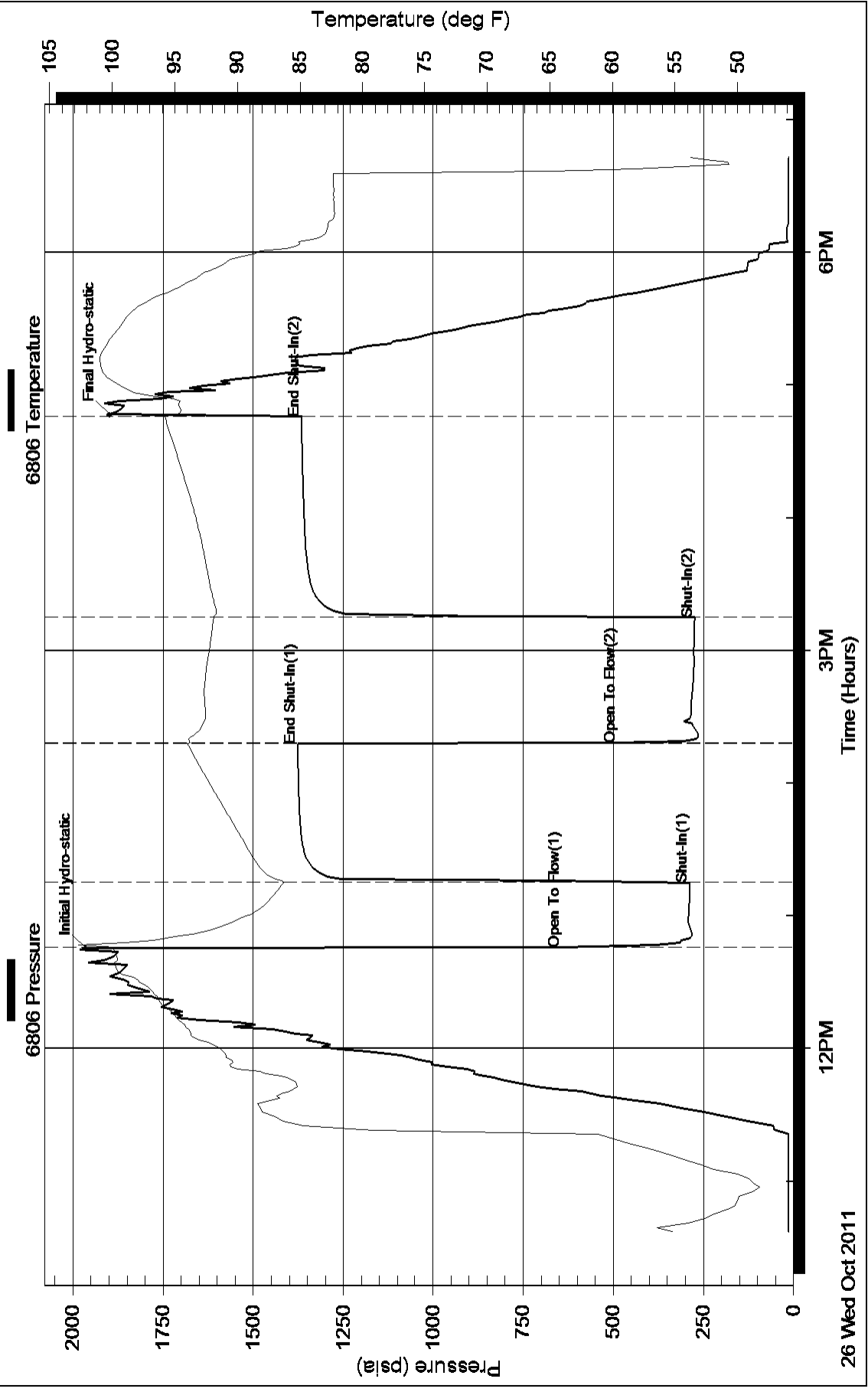
Serial #: 6806

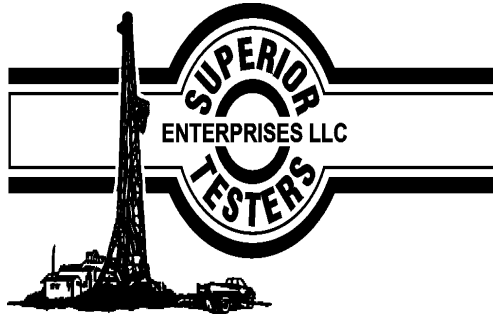
Inside Captiva 2

7-22s-16w -Paw.nee

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Captiva 2**

2717 Canal Blvd. Hays
Kansas 67601

ATTN: Charlie Sturdavant

7-22s-16w -Pawnee

Eakin Unit 5-7

Start Date: 2011.10.27 @ 04:18:00

End Date: 2011.10.27 @ 11:53:30

Job Ticket #: 17229 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.10.27 @ 12:09:36

Captiva 2 Eakin Unit 5-7 7-22s-16w -Pawnee DST # 2 Conglomerate 2011.10.27



DRILL STEM TEST REPORT

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

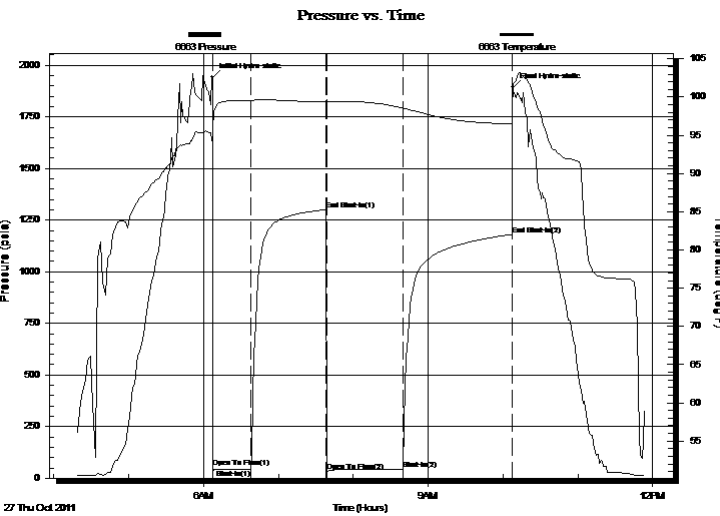
Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17229 **DST#: 2**
 Test Start: 2011.10.27 @ 04:18:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:07:30 Tester: Dustin Ellis
 Time Test Ended: 11:53:30 Unit No: 3315-GB-55
 Interval: **3894.00 ft (KB) To 3903.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3903.00 ft (KB) (TVD) 2010.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6663 Outside
 Press @ Run Depth: 42.50 psia @ 3900.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.27 End Date: 2011.10.27 Last Calib.: 2011.10.27
 Start Time: 04:18:00 End Time: 11:53:30 Time On Btm: 2011.10.27 @ 06:07:00
 Time Off Btm: 2011.10.27 @ 10:08:00

TEST COMMENT: 1st open 30 minutes Strong blow blew bottom of bucket instantly
 1st shut in 60 minutes No blow
 2nd open 60 minutes Strong blow blew bottom of bucket instantly
 2nd shut in 90 minutes No blow



PRESSURE SUMMARY

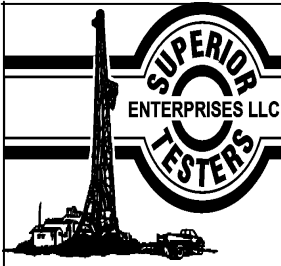
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1942.26	94.12	Initial Hydro-static
1	53.39	95.79	Open To Flow (1)
31	43.69	99.47	Shut-In(1)
91	1299.21	99.39	End Shut-In(1)
92	33.95	99.67	Open To Flow (2)
153	42.50	98.54	Shut-In(2)
240	1180.08	96.56	End Shut-In(2)
241	1893.13	101.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
56.00	Mud 100%	0.28

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.00	86.25
Last Gas Rate	0.75	3.00	46.86
Max. Gas Rate	0.75	4.00	62.48



DRILL STEM TEST REPORT

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17229 **DST#: 2**
 Test Start: 2011.10.27 @ 04:18:00

GENERAL INFORMATION:

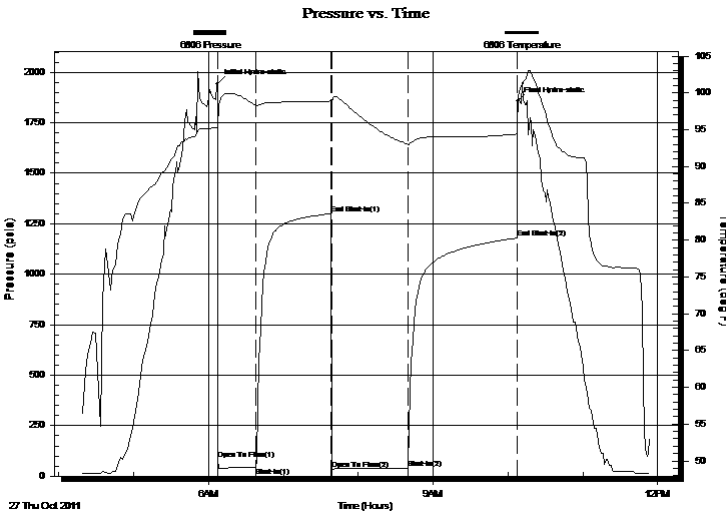
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:07:30
 Time Test Ended: 11:53:30
 Interval: **3894.00 ft (KB) To 3903.00 ft (KB) (TVD)**
 Total Depth: 3903.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-55
 Reference Elevations: 2021.00 ft (KB)
 2010.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6806 Inside
 Press @ Run Depth: 1179.25 psia @ 3899.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.27 End Date: 2011.10.27 Last Calib.: 2011.10.27
 Start Time: 04:18:00 End Time: 11:53:30 Time On Btm: 2011.10.27 @ 06:07:00
 Time Off Btm: 2011.10.27 @ 10:07:30

TEST COMMENT: 1st open 30 minutes Strong blow blew bottom of bucket instantly
 1st shut in 60 minutes No blow
 2nd open 60 minutes Strong blow blew bottom of bucket instantly
 2nd shut in 90 minutes No blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1942.68	95.25	Initial Hydro-static
1	83.89	95.09	Open To Flow (1)
31	41.88	98.28	Shut-In(1)
91	1299.57	98.89	End Shut-In(1)
92	35.20	98.85	Open To Flow (2)
153	40.65	93.03	Shut-In(2)
240	1179.25	94.42	End Shut-In(2)
241	1856.52	95.08	Final Hydro-static

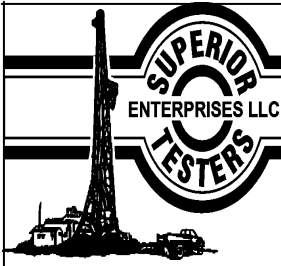


Recovery

Length (ft)	Description	Volume (bbl)
56.00	Mud 100%	0.28

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	3.00	86.25
Last Gas Rate	0.75	3.00	46.86
Max. Gas Rate	0.75	4.00	62.48



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 2
 2717 Canal Blvd. Hays
 Kansas 67601
 ATTN: Charlie Sturdavant

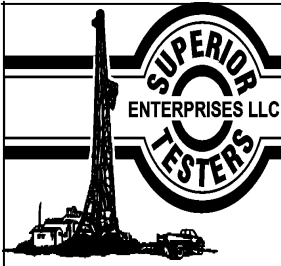
Eakin Unit 5-7
7-22s-16w -Pawnee
 Job Ticket: 17229 **DST#: 2**
 Test Start: 2011.10.27 @ 04:18:00

Tool Information

Drill Pipe:	Length: 3672.00 ft	Diameter: 3.80 inches	Volume: 51.51 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: 213.00 ft	Diameter: 2.25 inches	Volume: 1.05 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 52.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3894.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	37.00 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			3871.00	
Hydraulic Tool	5.00			3876.00	
Jars	6.00			3882.00	
Safety Joint	2.00			3884.00	
Packer	5.00			3889.00	28.00 Bottom Of Top Packer
Packer	5.00			3894.00	
Perforations	4.00			3898.00	
Recorder	1.00	6806	Inside	3899.00	
Recorder	1.00	6663	Outside	3900.00	
Bull Plug	3.00			3903.00	9.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva 2
2717 Canal Blvd. Hays
Kansas 67601
ATTN: Charlie Sturdavant

Eakin Unit 5-7
7-22s-16w -Pawnee
Job Ticket: 17229 **DST#: 2**
Test Start: 2011.10.27 @ 04:18:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
56.00	Mud 100%	0.275

Total Length: 56.00 ft Total Volume: 0.275 bbl

Num Fluid Samples: 0

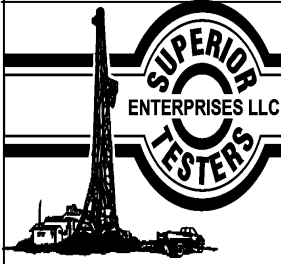
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Captiva 2
2717 Canal Blvd. Hays
Kansas 67601
ATTN: Charlie Sturdavant

Eakin Unit 5-7
7-22s-16w -Pawnee
Job Ticket: 17229 **DST#: 2**
Test Start: 2011.10.27 @ 04:18:00

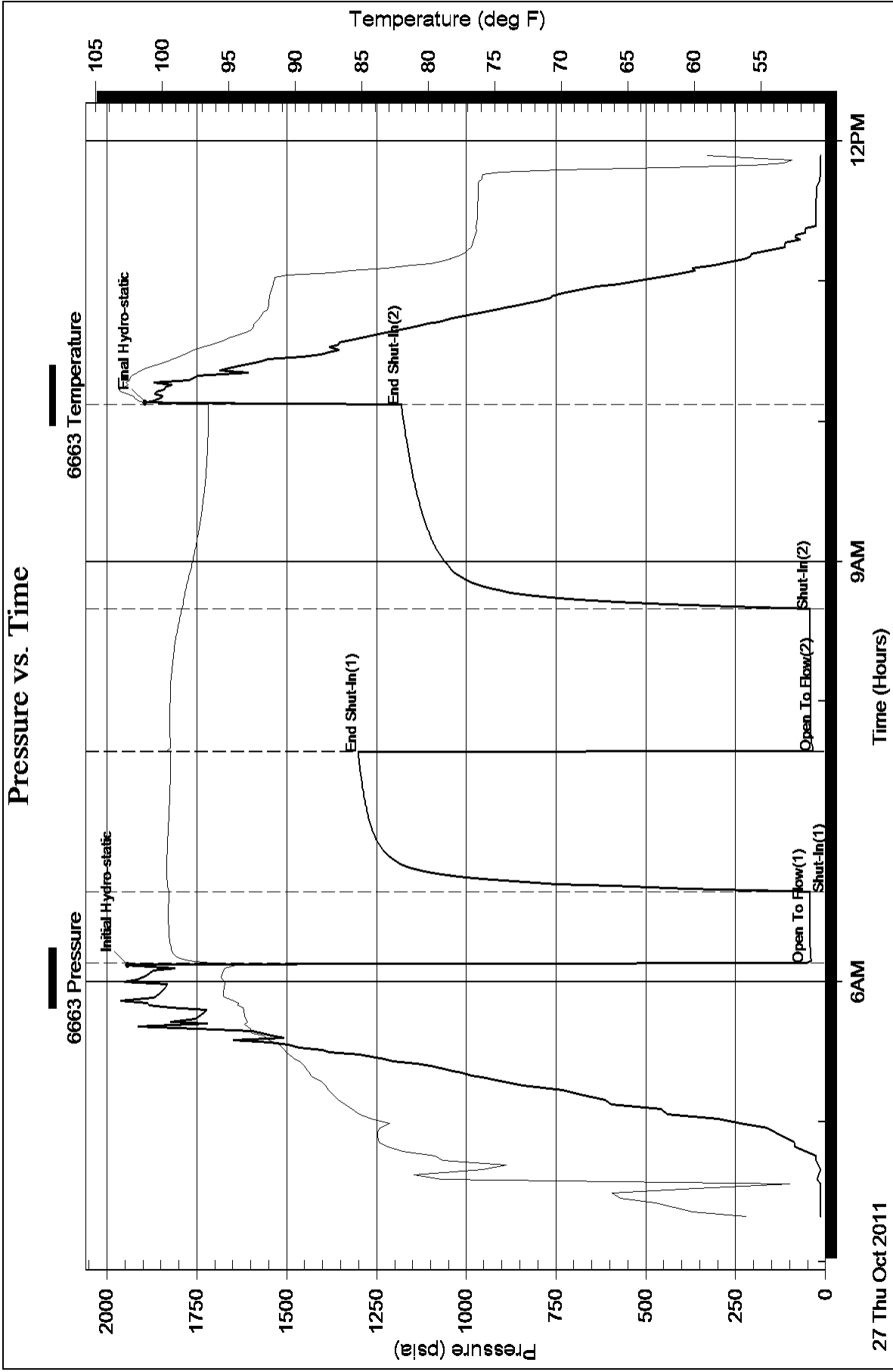
Gas Rates Information

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

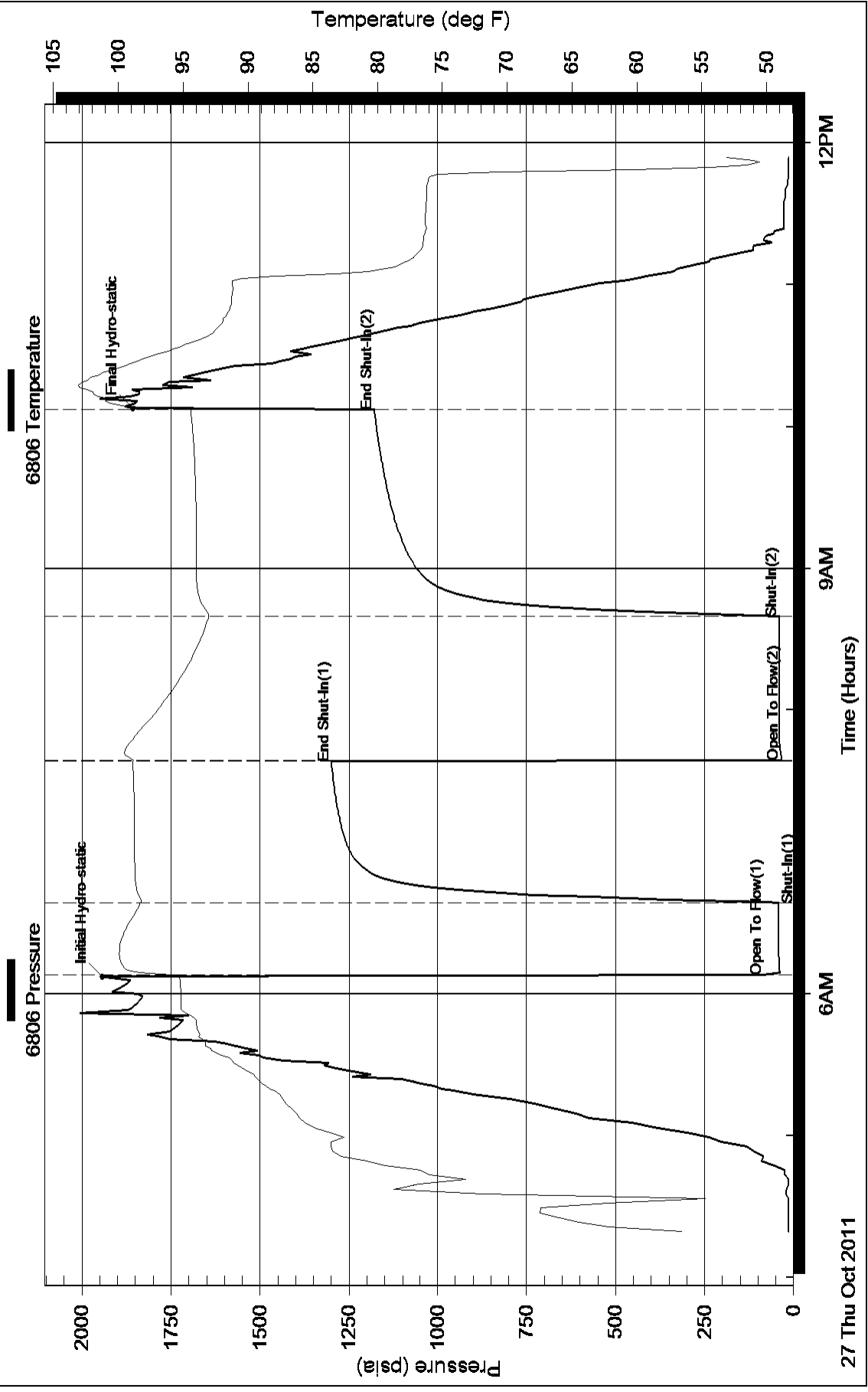
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	10	1.00	3.00	86.25
2	20	0.75	4.00	62.48
3	30	0.75	3.00	46.86
4	40	0.75	3.00	46.86
5	50	0.75	3.00	46.86

Pressure vs. Time



Pressure vs. Time



NATURAL GAS ANALYSIS REPORT

Sampled by:
 Superior Testers Interprises, Inc.
 1309 Patton Rd.
 Great Bend, Kansas 67530
 Phone: 800-792-6902
 Fax: 620-792-6902

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 620-624-5389
 Fax: 620-626-7108

 Lab Number: 20113654
 Sample From: EAKIN UNIT 5-7
 Producer: CAPTIVA ENERGY II
 Date: 10/26/11
 Received: 10/31/11
 Sampler: GENE
 Source:
 Analyzed: 11/01/11
 Pressure:
 Temperature:
 Location: 7-22-16
 County: PAWNEE
 State:
 Formation: CONGLOMERA

	Mole %	GPM
Helium	He: 2.859	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 28.471	0.000
Carbon Dioxide	CO2: 0.245	0.000
Methane	C1: 60.443	0.000
Ethane	C2: 3.991	1.067
Propane	C3: 1.830	0.504
Iso Butane	iC4: 0.490	0.160
Normal Butane	nC4: 0.825	0.260
Iso Pentane	iC5: 0.223	0.082
Normal Pentane	nC5: 0.297	0.108
Hexanes Plus	C6+: 0.326	0.142

TOTAL: 100.000 2.323
 Z Fact: 0.9983
 SP.GR.: 0.7386
 BTU (SAT): 796.7 @ 14.73 psia
 BTU (DRY): 810.8 @ 14.73 psia
 OCTANE RATING: 86.1

 COMMENTS: From 3860 0.000
 To 3894

Scale 1:240 Imperial

Well Name: # 5-7 Eakin
Surface Location: 883'FSL, 921'FEL Sec. 7-T22S-R16W
Bottom Location:
API: 15-145-21655-0000
License Number:
Spud Date: 10/20/2011 Time: 1:00 AM
Region: Pawnee County
Drilling Completed: 10/28/2011 Time: 2:30 PM
Surface Coordinates: 539887 & 18222629
Bottom Hole Coordinates:
Ground Elevation: 2010.00ft
K.B. Elevation: 2021.00ft
Logged Interval: 2800.00ft To: 4050.00ft
Total Depth: 4050.00ft
Formation: Simpson
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 / 720-274-4682
Well Name: # 5-7 Eakin
Location: 883'FSL, 921'FEL Sec. 7-T22S-R16W API: 15-145-21655-0000
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 II #5-7 Eakin Unit well was drilled to a LTD of 4050', bottoming in the Arbuckle. A TookeDAQ gas detector was employed during the drilling of all prospective formations. Gas was detected in the Pennsylvanian Basal Conglomerate Chert zone. Subsequent DST's both flowed measurable quantities of gas. Although the Simpson was the main objective, only thin sands were encountered.

After log analysis and evaluation of drill cuttings, it was determined by all parties involved, that production casing should be run and that the Pennsylvanian Basal Conglomerate Chert zone should be further evaluated through perforations.

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

Respectfully submitted,
Charlie Sturdavant
Consulting Geologist

Charlie Sturdavant Consulting

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Captiva II #5-7 Eakin Unit 883' FSL & 921' FEL Sec. 7, T22S R16W					Captiva II #2-7 Eakin Unit 2051' FSL & 1500' FEL Sec. 7, T22S R16W				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	1028	993	1010	1011	1020	998	-5	13	1006	1011	-18	0
Topeka	3174	-1153	3173	-1152	3156	-1138	-15	-14	3060	-1043	-110	-109
Queen Hill	3350	-1329	3348	-1327	3332	-1314	-15	-13				
Heebner	3464	-1443	3458	-1437	3443	-1425	-18	-12	3426	-1409	-34	-28
Toronto	3481	-1460	3478	-1457	3462	-1444	-16	-13	3442	-1425	-35	-32
Douglas	3496	-1475	3495	-1474	3478	-1460	-15	-14	3461	-1444	-31	-30
Brown Lime	3562	-1541	3561	-1540	3543	-1525	-16	-15	3526	-1509	-32	-31
Lansing	3572	-1551	3570	-1549	3552	-1534	-17	-15	3534	-1517	-34	-32
Muncie Creek	3701	-1680	3700	-1679	3676	-1658	-22	-21	3659	-1642	-38	-37
Stark Shale	3765	-1744	3766	-1745	3748	-1730	-14	-15	3731	-1714	-30	-31
Base KC	3822	-1801	3821	-1800	3801	-1783	-18	-17	3786	-1769	-32	-31
Marmaton	3836	-1815	3834	-1813	3816	-1798	-17	-15	3800	-1783	-32	-30
Simpson Shale	3914	-1893	3919	-1898	3856	-1838	-55	-60	3820	-1803	-90	-95
Arbuckle	3986	-1965	3983	-1962	3916	-1898	-67	-64	3866	-1849	-116	-113
Total Depth	4050	-2029	4050	-2029	4025	-2007	-22	-22	4000	-1983	-46	-46

Daily Drilling Report

Charlie Sturdavant Consulting

DAILY DRILLING REPORT

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

Well: #5-7 Eakin Unit
Location: 883' FSL & 921' FEL
Sec. 7 T22S R16W
Pawnee County, KS

Captiva II Office: 303-274-4682
Jim Waechter Cell: 303-478-3388
Wellsite Geologist: Charlie Sturdavant
Cell: (303) 907-2295
Office: (303) 384-9481

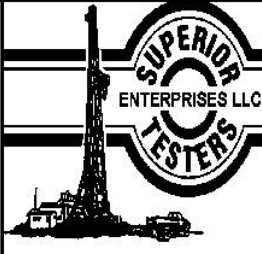
Elevation: 2021' KB 2010' GL
Field: Wildcat
API No.: 15-145-21655-0000
Surface Casing: 8 5/8" set @ 1031' KB

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

DATE	7:00 AM DEPTH	REMARKS
10/20/2011	346 ft.	Spud @ 0100hrs. Set 20" conductor @ 42'. Drilling ahead w/ 12-1/4" bit.
10/21/2011	1031 ft.	Circulating to clean hole prior to wiper trip.
10/22/2011	1075 ft.	Drilling ahead. Run 24" bit from 920' surface casing to 1075'

10/22/2011	1075 ft.	Drilling ahead. Ran 24 joints of new 23# surface casing to 1031'.
10/23/2011	2250 ft.	Drilling ahead.
10/24/2011	3041 ft.	Drilling ahead.
10/25/2011	3602 ft.	Drilling ahead.
10/26/2011	3894 ft.	Preparing for DST #1, 3860'-3894'. Test 749 to 653 MCFD.
10/27/2011	3903 ft.	Conducting DST #2, 3894'-3903', strong blow w/ GTS in 25 min.
10/28/2011	4050 ft.	Tripping out of hole after short trip. Preparing to log. Logging operations completed 1315 hrs. Geologist off location @ 1400 hrs.

DST # 1

	DRILL STEM TEST REPORT	
	Captiva 2 2717 Canal Blvd. Hays Kansas 67601 ATTN: Charlie Sturdavant	Eakin Unit 5-7 7-22s-16w -Pawnee Job Ticket: 17228 DST#: 1 Test Start: 2011.10.26 @ 10:36:00

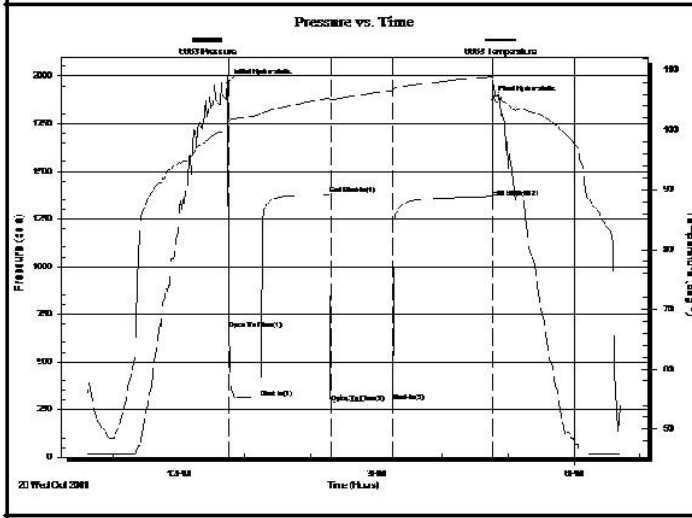
GENERAL INFORMATION:

Formation:	Conglomerate		Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No	Whipstock:		ft (KB)
Time Tool Opened:	12:45:30		Tester:	Dustin Ellis
Time Test Ended:	18:43:00		Unit No:	3315-GB-55 miles
Interval:	3860.00 ft (KB) To 3894.00 ft (KB) (TVD)		Reference Elevations:	2021.00 ft (KB)
Total Depth:	3894.00 ft (KB) (TVD)			2010.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Fair	KB to GR/CF: 11.00 ft

Serial #: 6663	Outside			
Press@RunDepth:	288.75 psia @	3891.00 ft (KB)	Capacity:	5000.00 psia
Start Date:	2011.10.26	End Date:	2011.10.26	Last Calib.: 2011.10.26
Start Time:	10:36:00	End Time:	18:43:00	Time On Btm: 2011.10.26 @ 12:45:00
				Time Off Btm: 2011.10.26 @ 16:46:00

TEST COMMENT: 1st Open 30 minutes Strong blow built to bottom of bucket instantly
 1st Shut in 60 minutes No blow back
 2nd Open 60 minutes Strong blow built to bottom of bucket instantly
 2nd Shut in 60 minutes No blow back

2nd Shut in 90 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1966.14	101.05	Initial Hydro-static
1	671.03	101.38	Open To Flow (1)
30	311.15	102.65	Shut-in(1)
93	1377.14	105.40	End Shut-in(1)
95	285.47	105.14	Open To Flow (2)
150	288.75	106.69	Shut-in(2)
241	1366.89	108.94	End Shut-in(2)
241	1876.43	109.13	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
125.00	Drilling mud	0.61

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	749.00	21532.86
Last Gas Rate	0.13	653.00	244.41
Max. Gas Rate	1.00	749.00	21532.86

Superior Testers Enterprises LLC

Ref. No: 17228

Printed: 2011.10.26 @ 19:06:02

DST # 2

	DRILL STEM TEST REPORT	
	Captiva 2	Eakin Unit 5-7
	2717 Canal Blvd. Hays Kansas 67601	7-22s-16w -Pawnee
ATTN: Charlie Sturdavant	Job Ticket: 17229	DST#: 2
	Test Start: 2011.10.27 @ 04:18:00	

GENERAL INFORMATION:

Formation: **Conglomerate**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:07:30

Time Test Ended: 11:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-GB-55

Interval: **3894.00 ft (KB) To 3903.00 ft (KB) (TVD)**

Reference Elevations: 2021.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2010.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6663 Outside

Press@RunDepth: 42.50 psia @ 3900.00 ft (KB) Capacity: 5000.00 psia

Start Date: 2011.10.27 End Date: 2011.10.27 Last Calib.: 2011.10.27

Start Time: 04:18:00 End Time: 11:53:30 Time On Btm: 2011.10.27 @ 06:07:00

Time Off Btm: 2011.10.27 @ 10:08:00

TEST COMMENT: 1st open 30 minutes Strong blow blew bottom of bucket instantly

1st shut in 60 minutes No blow

2nd open 60 minutes Strong blow blew bottom of bucket instantly

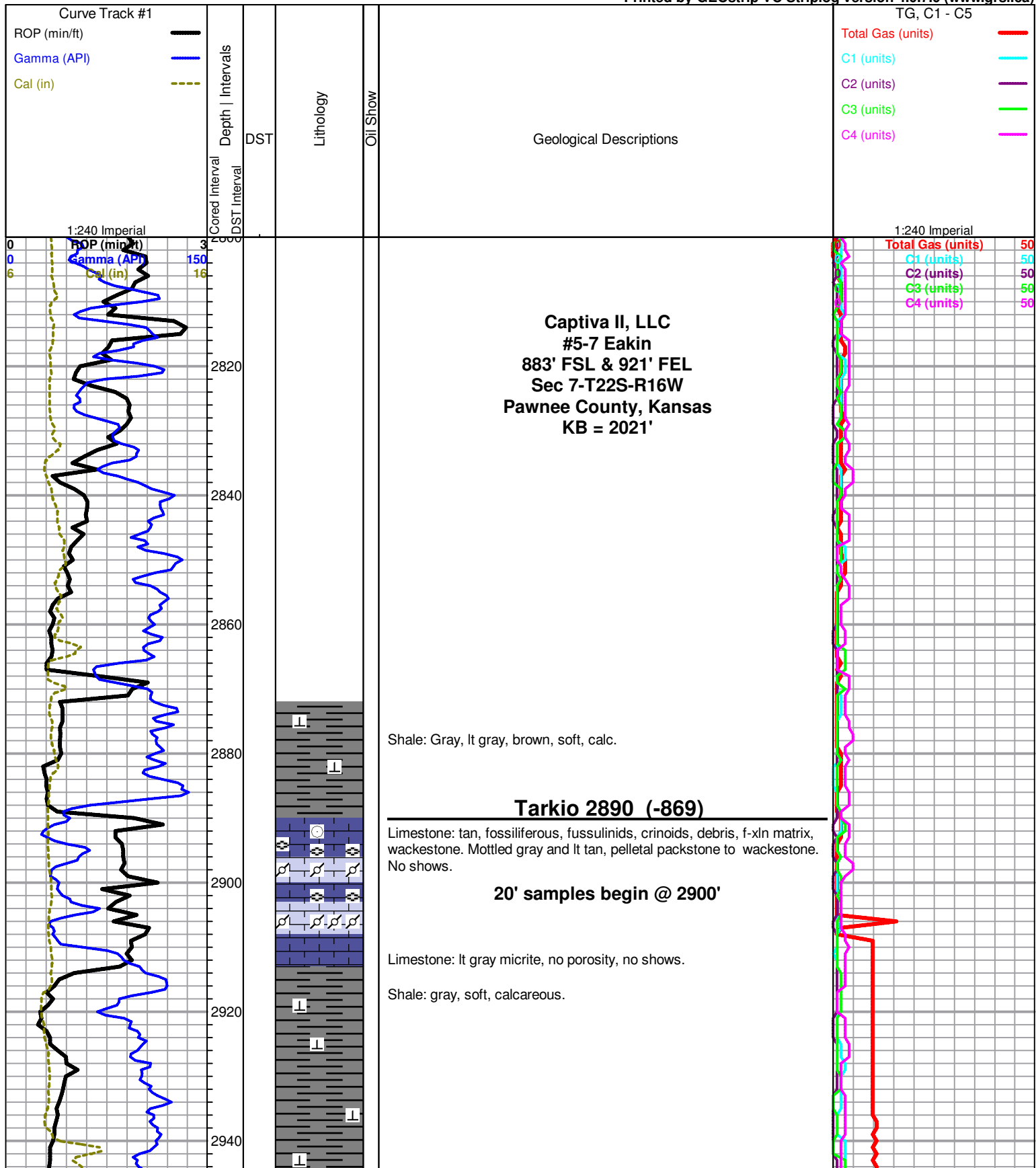
2nd shut in 90 minutes No blow

- Oolite
- Oolites
- ♁ Pellets
- Peloids
- △ Spicules
- ⊕ Coated Grains
- ♁ Algae

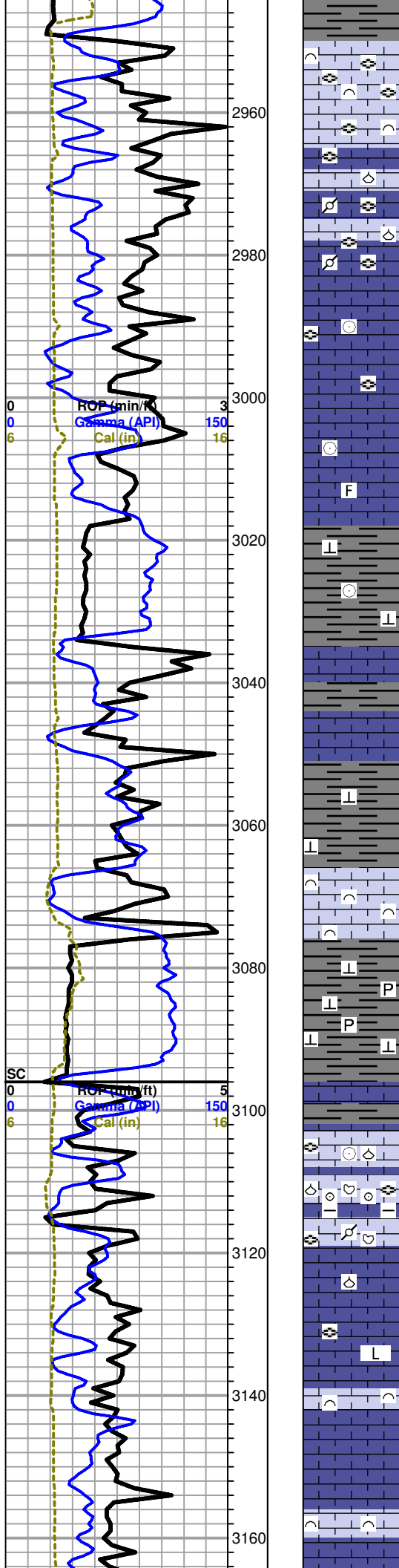
OTHER SYMBOLS

- DST**
- DST Int
 - DST alt

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



Elmont 2950 (-929)



Limestone: brown, fossiliferous, fussionids and foss debris, f-xln matrix, packstone, tight, no shows.

Limestone: tan to mottled brown and tan, fossiliferous, fussionids, brachiopods, tr pellets, packstone to wackestone, tight, no shows.

Limestone: as above w/ gray barren to sli fossiliferous mudstone. Crinoids, tight no shows.

Shale: med gray w/ black organic flecks, some crinoid fragments, calcareous.

Limestone: tan, f-xln, fossiliferous, clean wackestone.

Shale: gray, fossil frags, calcareous.

Limestone: cream to tan to lt brown, sli fossiliferous, micro-xln mudstone, tight, no shows.

Shale: med gray w/ organic specks and mica laminations, tr fossils, soft, calc.

Limestone: tan to brown, bioclastic packstone, set in a vf-xln matrix. No shows.

Shale: med gray, thinly laminated, organic streaks, micaceous, calcareous. Tr pyrite laminations.

Howard 3096 (-1075)

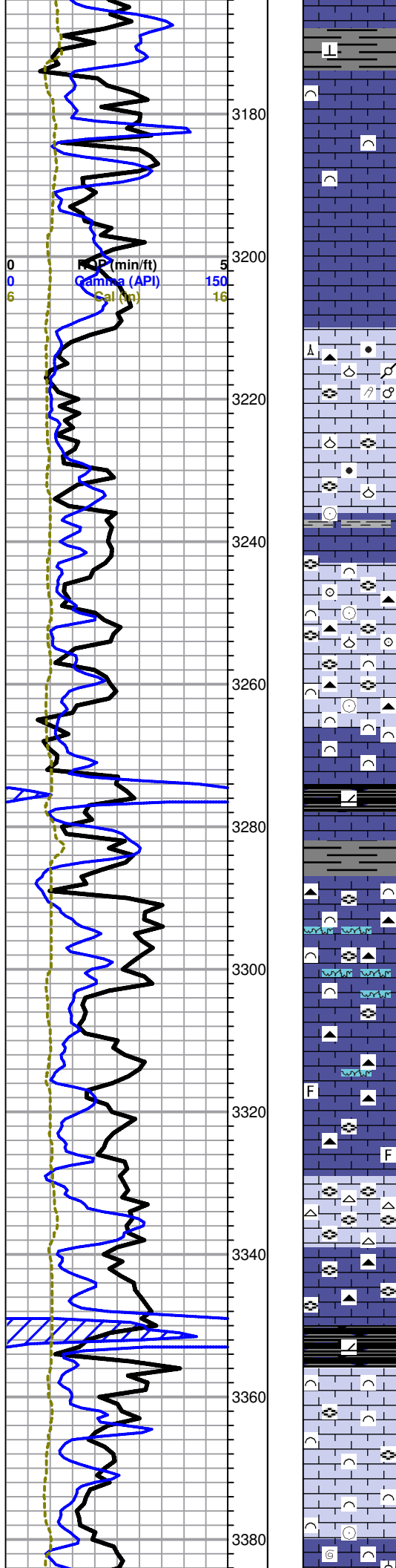
Limestone: gray and tan mottled, pelletal, fragmental fossils, fuss., brach., wackestone to packstone, generally tight w/o shows. Also tan ls, fossiliferous as above w/ crinoids and echinoid spines, packstone. Dark brown to gray, argillaceous, fossiliferous wackestone. Tr tan oolitic grainstone.

Limestone: cream to lt gray to tan, micro- to crypto-xln mudstone to micrite, tr fossiliferous, brach, fuss., tight, no shows. Tr sparry calcite.

Limestone as above w/ streaks of tan to lt brown bioclastic, f-xln packstone. No shows.

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

Mud-CO Mud Check
 3,096 ft. @ 0840 hrs.
 10/24/2011
 Vis: 43, Wt: 8.8
 PV: 10, YP: 14
 WL: 7.2, Cake: 1/32
 pH: 11.0, Ca: 10 ppm
 CHL: 8100 ppm
 Sol: 3.2, LCM: Tr
 DMC: \$5,627.50
 CMC: \$7,836.25



Shale, gray, calcareous.

Topeka 3174 (-1153)

Limestone: mottled tan and gray, mottled brown and tan, fossiliferous-fragmental, f-xln matrix, wackestone.
 Ls: lt gray to tan to lt brown, micro- to crypto-xln, mudstone to micrite, rare fossil frags, tight, no shows.

Limestone: tan, bioclastic, fussionids, brach, spicules, algal-coated pellets and fossil frags, pellets, few oolites, set in a f- to med-xln matrix w/ fair porosity, packstone, no shows. Tr gray, vitreous chert.

Limestone as above, some with dark, thin shale laminations, tr crinoids. Some lt gray mudstone.

Limestone: tan to lt brown, bioclastic, fussionids, brach, spicules, tr oolites, f-xln matrix, poor porosity, packstone. Tr chert: lt gray to dark gray, vitreous, some frags are highly fossiliferous. No shows.

Limestone: tan to brown, bioclastic, f-xln matrix, wackestone to micro-xln mudstone, no shows.

King Hill Shale 3274 (-1253)

Shale: black, carbonaceous, dolomitic.

Limestone: cream to lt gray, micro- to crypto-xln mudstone, tr lithographic, stylolitic, pyritic, tr fossils. Also f- to med-xln, brown bioclastic, fussionids, wackestone. Chert: dark gray to gray, some are fossil-bearing, vitreous.

Limestone: tan to lt brown, f-xln, sub-succrosic, sli fossil debris, wackestone, no shows. Chert as above.

10' samples begin at 3320'

Some gray chert is very fossiliferous, with fussionids and pellets.

Limestone: cream to tan to lt brown, fussionid-rich packstone w/ f-xln matrix, fossil frags, brach. Chert: lt gray with white fussionids, vitreous.

Limestone: as above, but fossils are more mud-supported, wackestone.

Queen Hill Shale 3350 (-1329)

Shale: black, carbonaceous, dolomitic.

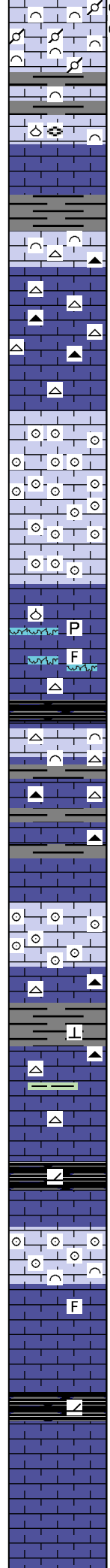
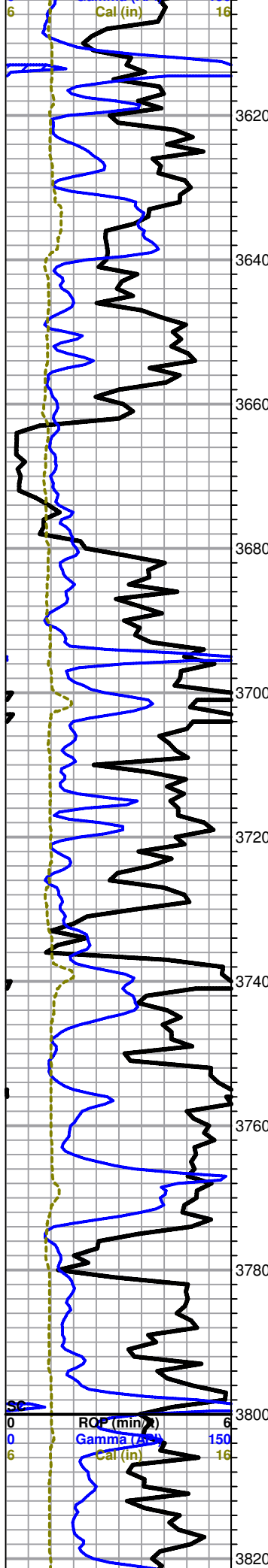
Limestone: tan, fossil debris, few identifiable fussionids, set in a f- to med-gr matrix, packstone, no shows.

Limestone: tan, f- to micro-xln matrix, fossiliferous, gastropods, spicules, crinoids, free-floating oolites, fossil fragments, wackestone.

Total Gas (units) 50
 C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50

3290' mud check:
 Vis: 51, Wt: 9.0

Butane test.



matrix, packstone, weak porosity. One fragment had a spotty oil show in inter-xln porosity, disguised by mineral fluor, and cut slowly with a bright yellow color.

Limestone: Cream to tan, fragmented fossils, fussulinids, brach, packstone. One frag w/ spotty oil staining, dull yellow fluor, weak, slow cut, but live. Probably from above. Stringers of dark gray shale.

Shale: dark gray, calcareous, fissile.

Limestone: brown, pelletal, fossil debris, f-xln matrix, packstone. Tr black, fossiliferous, vitreous chert.

Limestone: lt gray to tan to cream, micro- to crypto-xln, sli fossiliferous, wackestone to mudstone. Tr lt gray to honey-colored vitreous chert, no shows.

Tr black chert.

Limestone: tan, oolitic grainstone w/ excellent oomoldic porosity, but no shows. Oolites are 0.3 - 0.5mm in diameter.

Limestone: oolitic grainstone w/ micritic matrix. Fewer oolites relative to matrix with depth, possibly even becoming entirely micrite w/ depth.

Limestone: cream to lt tan, sli fossiliferous, brach, fossil frags., vf- to micro-xln matrix, wackestone to mudstone. Tr pyrite. Stylolitic mudstone. Chert: lt gray to honey-colored, vitreous, tr spicules.

Black shale, carbonaceous, dolomitic. **Muncie Creek.**

Limestone: tan, bioclastic packstone to wackestone to lithographic, stylolitic mudstone.

Interlayered gray shale and white to lt tan mudstone. Chert: white to black, vitreous.

Limestone: cream to lt tan micrite.

Limestone: lt tan, oolitic grainstone, f- to med-xln matrix w/ fair inter-oolite porosity, no shows.

Limestone: cream to lt brown, generally micro- to crypto-xln, mudstone to lithographic micrite. Some fossil fragments yield wackestone. Chert: translucent white to tan to dark gray, vitreous.

Shale: gray, calcareous.

Limestone: cream to tan, crypto-xln micrite w/ some thin greenish-gray shale laminations. Some cream, micro-xln, sli fossiliferous mudstone, Chert as above.

Stark Shale 3765 (-1744)

Shale: black, carbonaceous, dolomitic.

Limestone: cream to tan, oolitic grainstone w/ oomoldic porosity. Also med-xln, bioclastic grainstone w/ good inter-xln porosity, no shows.

Limestone: lt tan to lt gray, vf- to micro-xln matrix w/ a few fossil fragments, wackestone, tight, no shows.

Shale: black, carbonaceous, dolomitic.

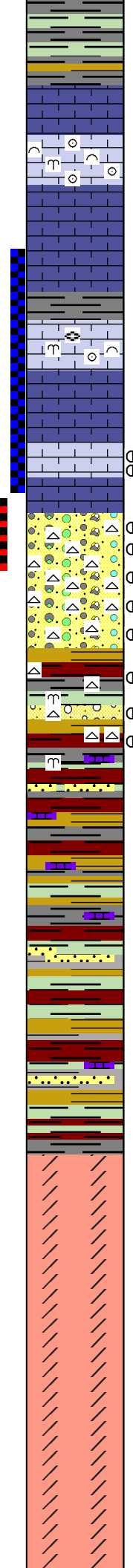
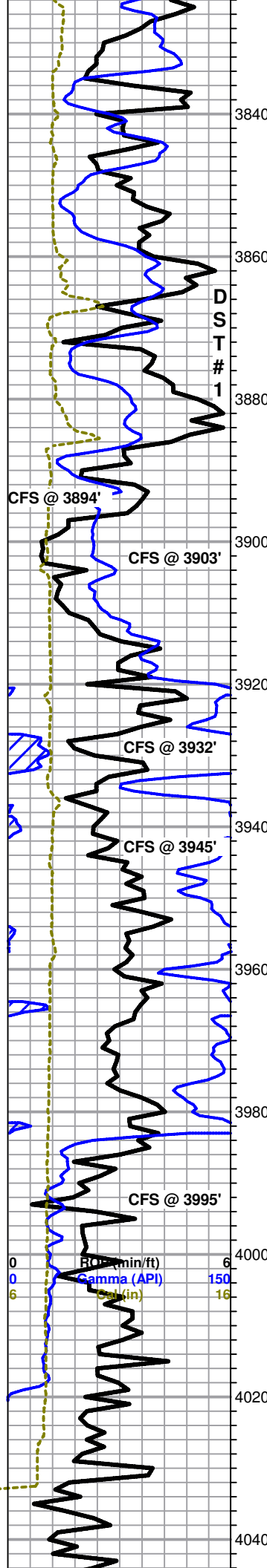
Limestone: cream to tan to lt gray, micro- to crypto-xln, rare fossil frags, mudstone to micrite.

Base KC 3822 (-1801)

C2 (units) 50
 C3 (units) 50
 C4 (units) 50

Mud-CO Mud Check
 3,634ft. @ 1010 hrs.
 10/25/2011
 Vis: 47, Wt: 9.2
 PV: 12, YP: 16
 WL: 10.8, Cake: 1/32
 pH: 10.5, Ca: 20 ppm
 CHL: 8600 ppm
 Sol: 6.0, LCM: Tr
 DMC: \$1,829.25
 CMC: \$9,665.50

Total Gas (units) 50
 C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50



Shale: lt gray, greenish-gray w/ brown spots, occasional fossil frags., calc.

Marmaton 3836 (-1815)

Limestone: white to cream, micro- to crypto-xln, mudstone to micrite.

Limestone: lt tan to lt gray, bioclastic, bryozoans, oolites, fossil frags., grainstone to packstone, fair inter-xln porosity, no shows.

Limestone: lt greenish-gray, vf-xln, mudstone, tight, no shows.

Shale: gray, calc, soft.

Limestone: tan to brown, f-xln, fossiliferous, fenestrate bryozoans, fussulinids, fossil debris, oolite layers laminated on micrite, packstone, no shows.

Limestone: tan, med-xln w/ good inter-xln porosity. A few fragments have live oil staining, good fluor, and good cut. Probably part of the Penn conglomerate.

Conglomerate: white, detrital chert fragments with dead to live oil staining on fractured surfaces and in secondary porosity. Also a few fragments of limestone w/ oil staining and weak cut. Vari-colored shale.

Conglomerate: mostly white to lt tan, detrital chert, parts of individual fragments are vitreous and parts are tripolitic and stained w/ black oil, seems dead, but has a slow cut.

Sample from 3925-3930' washes reddish-brown, but is filled w/ chert as above, as well as unstained, vitreous, tan-colored chert. This may indicate shaley conglomerate.

Shaley conglomerate, vari-colored shale: greenish-gray, brown, maroon, dark gray w/ rhombopora limbs, **hematite oolites**, green chert.

Free, individual sand grains in the bottom of the sample tray, sub-rounded, med- to crs-gr. Tr red, dirty immature, f-gr sandstone. Tr black sandstone (dead oil?)

60 min sample washes red: shaley conglomerate.

Shaley conglomerate w/ aqua green, soft shale.

Shaley conglomerate as above w/ f-gr sandstone: black to brown, well-sorted, gassy (seeping gas bubbles), quartzose, lt green clay inclusions/cement and laminations.

Vari-colored shaley conglomerate w/ sandstone as above. Some yellow ochre-colored shale.

Arbuckle 3986 (-1965)

Dolomite: cream to lt tan, succrosic, 0.1-0.2mm rhombs, fair inter-xln porosity. No shows.

Dolomite: as above w/ tr pyrite.

Dolomite: as above w/ vuggular porosity, tr pyrite.

Dolomite as above w/ increasing porosity.

Mud-CO Mud Check
3894ft. @ 0915 hrs.
10/26/2011
Vis: 49, Wt: 9.3
PV: 11, YP: 18
WL: 7.6, Cake: 1/32
pH: 10.0, Ca: 10 ppm
CHL: 8,600 ppm
Sol: 6.7, LCM: 0
DMC: \$2,314.65
CMC: \$11,980.15

Mud-CO Mud Check 3903ft. @ 0800 hrs.
10/27/2011
Vis: 53, Wt: 9.3
PV: 15, YP: 15
WL: 6.4, Cake: 1/32
pH: 10.0, Ca: 20 ppm
CHL: 7,800 ppm
Sol: 6.7, LCM: 0
DMC: \$1,335.30
CMC: \$13,315.45

Vis 53, Wt 9.3

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

Deviation survey:

RTD 4050

1-1/2 degrees

Mud-CO Mud Check
4050ft. @ 0800 hrs.
10/28/2011
Vis: 68, Wt: 9.3
PV: 18, YP: 25
WL: 6.0, Cake: 1/32
pH: 11.0, Ca: 20 ppm
CHL: 7,200 ppm
Sol: 6.7, LCM: 0
DMC: \$931.65
CMC: \$14,247.10

**Rotary TD 4050', 0230 hrs, 10/28/2011
Superior Well Services LTD 4050'
Complete logging operations hrs. 10/28/2011
Geologist Charlie Sturdavant off location
@ hrs, 10/28/2011**

4060

4080



ASIC
Engineering services, L.P.

TREATMENT REPORT

Lease No. SHELBY RESOURCES		Date 10-29-2011	
Well # 5-7 TD 7			
Field Order # 04902	Station PRATT, KS.	Casing 5 1/2"	Depth 4050'
Type Job CNW-5 1/2" L.S.		Formation	Legal Description 7-23-16
County PAWNEE		State Ks.	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2" x 15.5	Tubing Size	Shots/Ft	CMT -	Acid	150SK AA2	RATE	PRESS	ISIP
Depth 3971.78'	Depth	From	To	Pre Pad	@ 1.36 CUFT	Max		5 Min.
Volume 44.53 BBL	Volume	From	To	Pad		Min		10 Min.
Max Press 1500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 3450.75'	Packer Depth	From	To	Flush	94 BBL	Gas Volume		Total Load

Customer Representative **JEFF ZOLLER** Station Manager **D. SCOTT** Treater **K. LESLEY**

Service Units	37586	19889	19842	19960	19918				
Driver Names	LESLEY	LAWRENCE	—	PHYE	—				

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
9:15 PM					ON LOCATION - SAFETY MEETING
10:30 PM					RUN 195 JTS. 5 1/2" x 15.5" CSG.
					SHOE INT. = 21.03'
					CENT - 3, 5, 7, 9
					BASK - TOP OF SHOE
12:50 AM					CSG. ON BOTTOM
1:00 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
2:00 AM	350		5	6	H2O AHEAD
2:10 AM	350		10	6	MIX 50SK. SCAVENGER @ 13.0 PPG
2:20 AM	300		36	6	MIX 150SK. AA2 @ 15.3 PPG
2:28 AM					CLEAR PUMP & LINE - DROP PLUG
2:31 AM	0		0	7	START DISPLACEMENT
2:40 AM	400		62	6	LIFT PRESSURE
2:43 AM	600		85	5	SLOW RATE
2:45 AM	1500		94	4	PLUG DOWN - HELD
					CIRC. THRU JOB
			6, 4		PLUG R.H. & M.H.
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

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