



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: \_\_\_\_\_



1062555

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 037262

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend  
8-21-11

DATE <u>8-21-11</u>	SEC. <u>15</u>	TWP. <u>18S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:30 PM</u>
LEASE <u>Mathews</u>		WELL # <u>1</u>	LOCATION <u>Bezi:ue west TO BBRO</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>2 North west ? - 70</u>				

CONTRACTOR Pickwell Rig Co  
 TYPE OF JOB Rotary Plus  
 HOLE SIZE 7 7/8 T.D. 4372  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 1530  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER Pickwell Drilling  
 CEMENT AMOUNT ORDERED 230 SX 60/40 + 4% + 7 #10 seal

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne  
 # 366 HELPER Greg  
 BULK TRUCK  
 # 341 DRIVER Doug  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER Jacob

COMMON	<u>138</u>	@ <u>16.25</u>	<u>2,242.50</u>
POZMIX	<u>92</u>	@ <u>8.50</u>	<u>782.00</u>
GEL	<u>8</u>	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE	_____	@ _____	_____
ASC	_____	@ _____	_____
<u>#10 seal</u>	<u>60</u>	@ <u>2.70</u>	<u>162.00</u>
_____	_____	@ _____	_____
_____	_____	@ _____	_____
_____	_____	@ _____	_____
_____	_____	@ _____	_____
_____	_____	@ _____	_____
HANDLING	<u>240</u>	@ <u>2.25</u>	<u>540.00</u>
MILEAGE	<u>340 x 12 x .11</u>	<u>316.80</u>	<u>344.00</u>
TOTAL			<u>4240.50</u>

REMARKS:  
1st Plug 1530 mix 50SX  
2nd Plug 780 mix 80SX  
3rd Plug 260 mix 50SX  
4th Plug 60 mix 20SX  
5th Plug Retriever mix 30SX

SERVICE

DEPTH OF JOB	<u>1530</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE	_____	@ _____	_____
MILEAGE <u>H/W</u>	<u>12</u>	@ <u>7.00</u>	<u>84.00</u>
MANIFOLD	_____	@ _____	_____
<u>LVW</u>	<u>12</u>	@ <u>4.00</u>	<u>48.00</u>
_____	_____	@ _____	_____
TOTAL			<u>1382.00</u>

CHARGE TO: Pickwell Drilling  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL _____		

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

PRINTED NAME Mike Kern  
 SIGNATURE Mike Kern

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 5,622.50  
 DISCOUNT 20% 1,124.50 IF PAID IN 30 DAYS  
4,498.00

# ALLIED CEMENTING CO., LLC. 037340

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Ceresat Daniels

DATE <u>8-13-11</u>	SEC. <u>15</u>	TWP. <u>18</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30am</u>	JOB FINISH <u>7:00am</u>
Mathews section LEASE unit	WELL# <u>1</u>	LOCATION <u>Burneys 2W to R.O.B.</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>2 3/4 N west into</u>				

New Book  
RT. MEES

4880.75  
ME - 609.00  
4272.75  
206 < 854.55  
3418.20

CONTRACTOR Prockell Drilling Co. #10

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 234

CASING SIZE 8 5/8 DEPTH 229

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 234

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15et

PERFS. \_\_\_\_\_

DISPLACEMENT Freshwater

EQUIPMENT \_\_\_\_\_

OWNER Prockell Drilling

CEMENT AMOUNT ORDERED 150 sac class 8% cc 2% gel

COMMON <u>150</u>	@ <u>16.25</u>	<u>2,437.50</u>	SC
POZMIX _____	@ _____	_____	
GEL <u>3</u>	@ <u>21.25</u>	<u>63.75</u>	
CHLORIDE <u>5</u>	@ <u>58.20</u>	<u>291.00</u>	
ASC _____	@ _____	_____	
HANDLING <u>158</u>	@ <u>2.25</u>	<u>353.50</u>	
MILEAGE <u>158 x 12 x .11</u>	@ <u>208.26</u>	<u>329.00</u>	
		<u>TOTAL 3,491.75</u>	

609.00  
706 < 425.60  
182.40  
3418.20  
182.40  
3600.60

PUMP TRUCK CEMENTER Roby R.

# 398 HELPER Tom H

BULK TRUCK \_\_\_\_\_

# 341 DRIVER Leim W.

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

Pipe on bottom break circulation with  
svc mud. Hook up to cement pump. mix  
150 sac class 8% cc 2% gel with 2325 lbs  
water. Displace with 13.5 bbls water  
shut in cement and circulate.

SERVICE

DEPTH OF JOB <u>229</u>		
PUMP TRUCK CHARGE _____		<u>1125.00</u>
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>Hvm 24.12</u>	@ <u>2.00</u>	<u>48.24</u>
MANIFOLD _____	@ _____	_____
<u>Hvm 24.12</u>	@ <u>4.00</u>	<u>96.48</u>
		<u>TOTAL 1257.00</u>

168.00 RT ME  
96.00 RT ME

CHARGE TO: Prockell Drilling

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
		<u>TOTAL _____</u>

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

PRINTED NAME Mike Kern

SIGNATURE Mike Kern

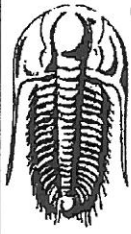
SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 4748.75

DISCOUNT 28 949.75

3,799.00 IF PAID IN 30 DAYS

Thank you!



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

**Matthews-Stieben Unit #1**

100 S Main STE 505  
Wichita KS 67202

**15-18-22w Ness Co**

Job Ticket: 43288      DST#: 1

ATTN: Sean Deenhian

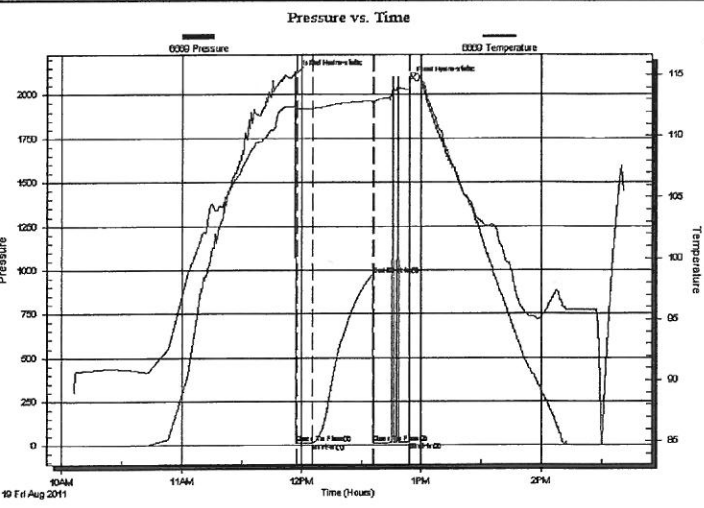
Test Start: 2011.08.19 @ 10:06:15

**GENERAL INFORMATION:**

Formation: **Mississippi**  
 Deviated: No Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 11:57:30  
 Tester: Will MacLean  
 Time Test Ended: 14:40:45  
 Unit No: 48  
 Interval: **4276.00 ft (KB) To 4309.00 ft (KB) (TVD)**  
 Reference Elevations: 2216.00 ft (KB)  
 Total Depth: 4309.00 ft (KB) (TVD)  
 2209.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 7.00 ft

**Serial #: 6669      Outside**  
 Press@RunDepth: 13.97 psig @ 4277.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.08.19      End Date: 2011.08.19      Last Calib.: 2011.08.19  
 Start Time: 10:06:15      End Time: 14:40:45      Time On Btm: 2011.08.19 @ 11:57:00  
 Time Off Btm: 2011.08.19 @ 12:54:00

**TEST COMMENT:**



**PRESSURE SUMMARY**

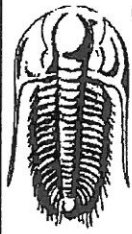
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.49	112.51	Initial Hydro-static
1	13.01	112.23	Open To Flow (1)
9	13.97	112.26	Shut-In(1)
39	972.83	112.89	End Shut-In(1)
39	14.96	112.58	Open To Flow (2)
57	19.68	113.82	Shut-In(2)
57	2079.92	114.60	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	OCM- 10% o-90%r	0.07
10.00	OCM- 1%o 99%-m	0.14

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Co Inc

**Matthews-Stieben Unit #1**

100 S Main STE 505  
Wichita KS 67202

**15-18-22w Ness Co**

Job Ticket: 43288

**DST#: 1**

ATTN: Sean Deenhian

Test Start: 2011.08.19 @ 10:06:15

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 46.00 sec/qt  
Water Loss: 9.48 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil Apt: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM- 10% o-90%m	0.070
10.00	OCM- 1%o 99%-m	0.140

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

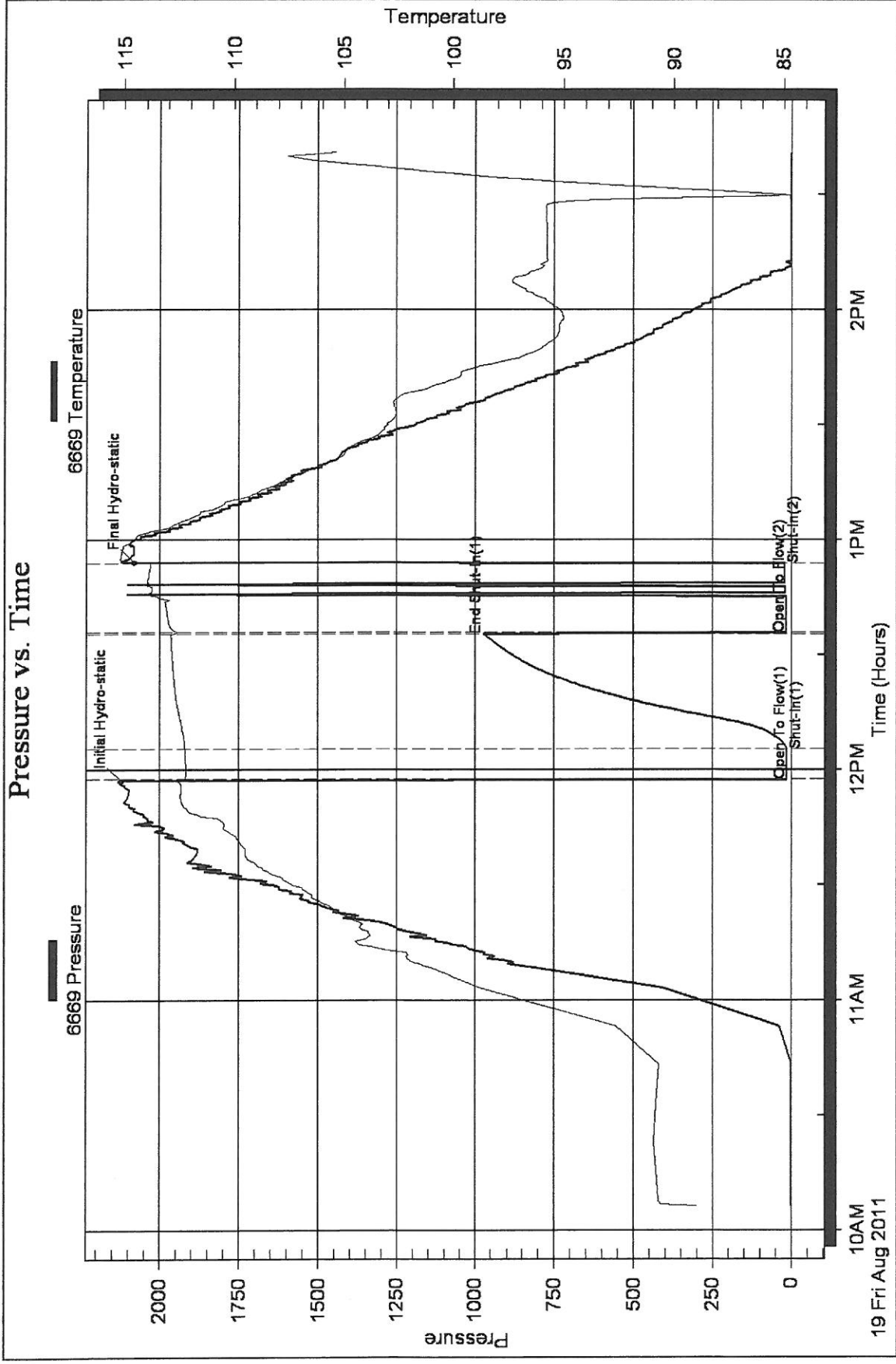
Serial #:

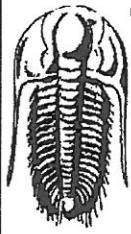
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

**Matthews-Stieben Unit #1**

100 S Main STE 505  
Wichita KS 67202

**15-18-22w Ness Co**

ATTN: Sean Deenhian

Job Ticket: 43289

**DST#: 2**

Test Start: 2011.08.20 @ 12:00:15

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:36:45

Time Test Ended: 20:17:00

Test Type: Conventional Bottom Hole

Tester: Will MacLean

Unit No: 48

Interval: **4305.00 ft (KB) To 4317.00 ft (KB) (TVD)**

Total Depth: 4317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2216.00 ft (KB)

2209.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6669**

**Outside**

Press@RunDepth: 40.24 psig @ 4306.00 ft (KB)

Start Date: 2011.08.20

End Date: 2011.08.20

Start Time: 12:00:15

End Time: 20:17:00

Capacity: 8000.00 psig

Last Calib.: 2011.08.20

Time On Btm: 2011.08.20 @ 13:36:15

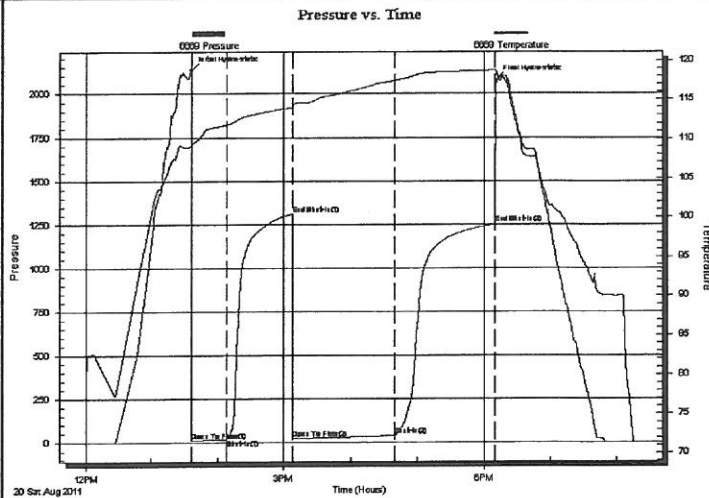
Time Off Btm: 2011.08.20 @ 18:10:45

TEST COMMENT: IF-Surface Blow Built to 2"

ISI-No Blow

FF-Surface Blow Built to 3 1/2"

FSI-No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.75	109.20	Initial Hydro-static
1	13.96	109.10	Open To Flow (1)
32	21.23	111.75	Shut-In(1)
91	1309.63	113.96	End Shut-In(1)
92	23.53	114.12	Open To Flow (2)
184	40.24	117.40	Shut-In(2)
274	1252.49	118.68	End Shut-In(2)
275	2078.27	118.74	Final Hydro-static

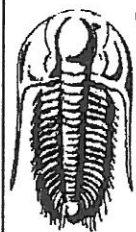
## Recovery

Length (ft)	Description	Volume (bbl)
20.00	ow cm 30%o 10%w 60%m	0.28
30.00	mcw 40%w 60%m	0.42
50.00	oil	0.70

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Co Inc

**Matthews-Stieben Unit #1**

100 S Main STE 505  
Wichita KS 67202

**15-18-22w Ness Co**

Job Ticket: 43289

**DST#: 2**

ATTN: Sean Deenhian

Test Start: 2011.08.20 @ 12:00:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.31 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	ow cm 30%o 10%w 60%m	0.281
30.00	mcw 40%w 60%m	0.421
50.00	oil	0.701

Total Length: 100.00 ft

Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

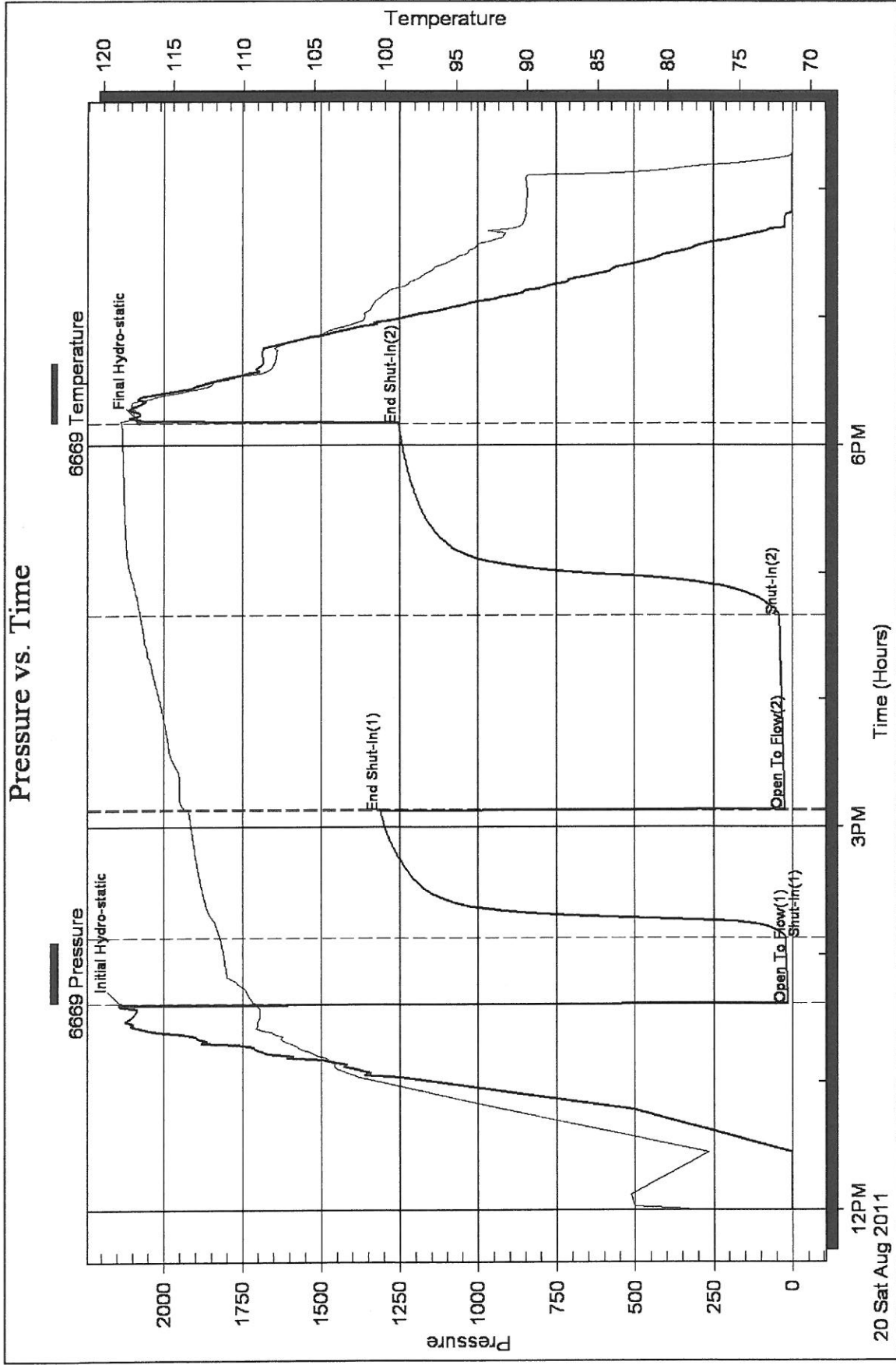
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 41 @ 70f =40

### Pressure vs. Time

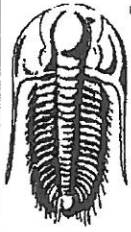


12PM  
20 Sat Aug 2011

3PM

6PM

Time (Hours)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

100 S Main STE 505  
Wichita KS 67202

ATTN: Sean Deenhian

**Matthews-Stieben Unit #1**

**15-18-22w Ness Co**

Job Ticket: 43290

**DST#: 3**

Test Start: 2011.08.20 @ 14:24:15

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:19:00

Time Test Ended: 22:59:45

Test Type: **Conventional Bottom Hole**

Tester: **Mike Roberts**

Unit No: **48**

Interval: **4301.00 ft (KB) To 4322.00 ft (KB) (TVD)**

Total Depth: **4322.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2216.00 ft (KB)**

**2209.00 ft (CF)**

KB to GR/CF: **7.00 ft**

**Serial #: 6669** **Outside**

Press@RunDepth: **89.00 psig @ 4302.00 ft (KB)**

Start Date: **2011.08.20**

End Date: **2011.08.20**

Start Time: **14:24:15**

End Time: **22:59:45**

Capacity: **8000.00 psig**

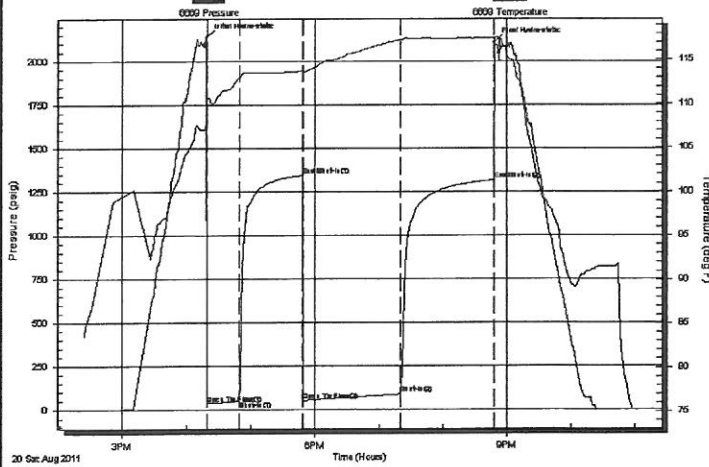
Last Calib.: **2011.08.20**

Time On Btm: **2011.08.20 @ 16:18:15**

Time Off Btm: **2011.08.20 @ 20:48:45**

**TEST COMMENT:** IF:Built to 7" blow  
IS:No return blow  
FF:Built to 6 1/4" blow  
FS:No return blow

Pressure vs. Time



## PRESSURE SUMMARY

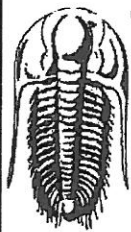
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.16	107.60	Initial Hydro-static
1	37.71	110.40	Open To Flow (1)
31	51.57	112.98	Shut-In(1)
90	1343.69	113.72	End Shut-In(1)
91	53.37	113.48	Open To Flow (2)
182	89.00	117.24	Shut-In(2)
270	1316.33	117.45	End Shut-In(2)
271	2108.12	117.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	free oil 100%o	0.21
15.00	m 100%m	0.21
62.00	w cm 5%w 95%m	0.87
62.00	w cm 26% w 74%m	0.87

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Pickrell Drilling Co Inc

**Matthews-Stieben Unit #1**

100 S Main STE 505  
Wichita KS 67202

**15-18-22w Ness Co**

Job Ticket: 43290

**DST#: 3**

ATTN: Sean Deenhian

Test Start: 2011.08.20 @ 14:24:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

8500 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	free oil 100%o	0.210
15.00	m 100%m	0.210
62.00	w cm 5%w 95%m	0.870
62.00	w cm 26% w 74%m	0.870

Total Length: 154.00 ft

Total Volume: 2.160 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

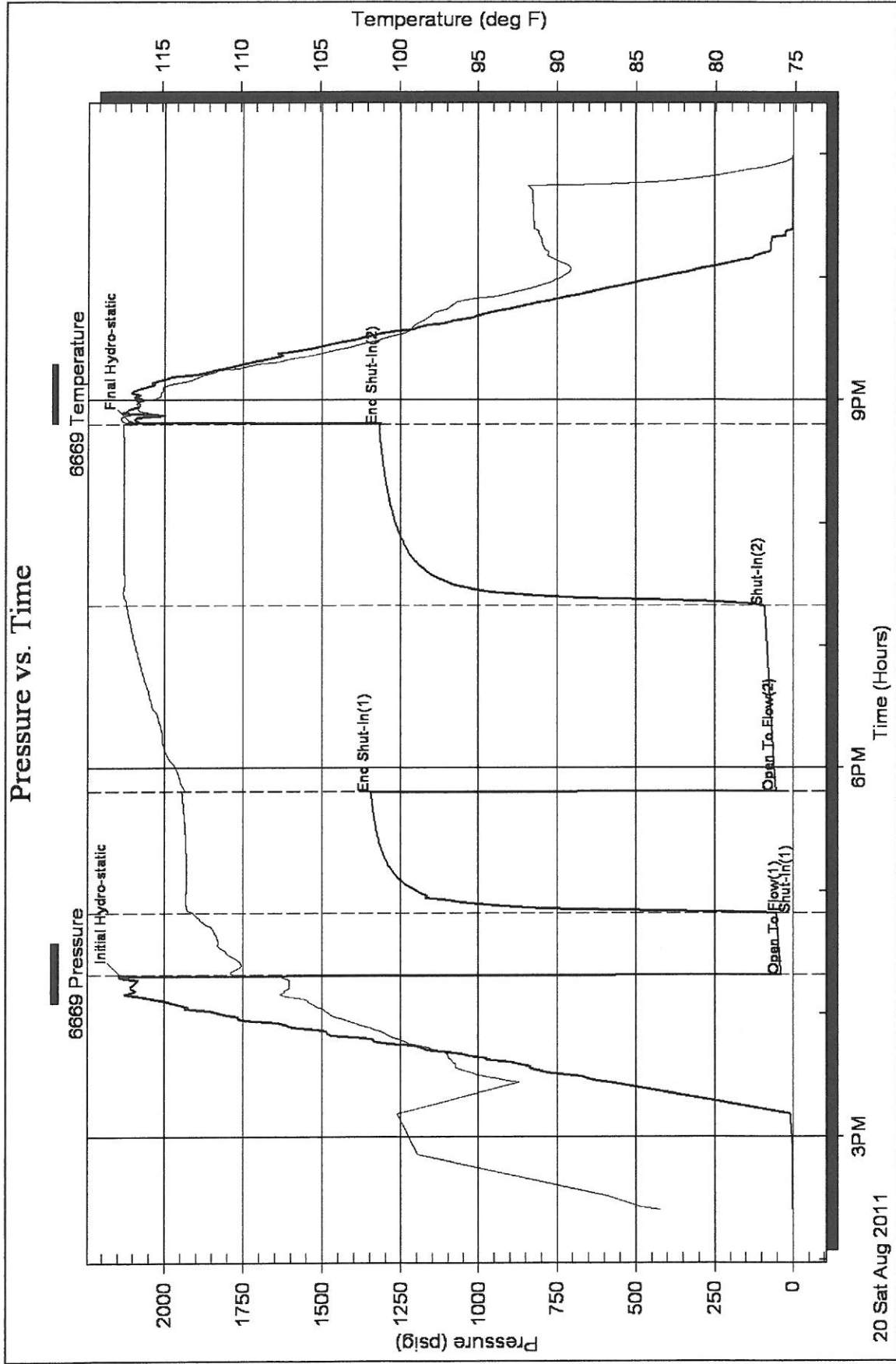
Laboratory Name:

Laboratory Location:

Recovery Comments: APF= 41@ 70 corrected to 40

RW=81.4\*@ .71= 8500 ppm

### Pressure vs. Time



# Sean Deenihan

## Petroleum Geologist

15-135-25286

15-135-25286

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Pickrell Drilling Company, Inc.

LEASE Matthews-Stieben #1

FIELD Wildcat

LOCATION 1570' FNL & 2430' FEL

SEC 15 TWSP 18S RGE 22W

COUNTY Ness STATE Kansas

CONTRACTOR Pickrell Drilling Co., Inc.

SPUD 8/13/11 COMP 8/21/11

RTD 4372' LTD 4378'

MUD 3400' TYPE MUD Chemical

SAMPLES SAVED FROM 3500' TO RTD

DRILLING TIME KEPT FROM 3500' TO RTD

SAMPLES EXAMINED FROM 3500' TO RTD

GEOLOGICAL SUPERVISION FROM 3700'

REFERENCE WELL Grand Mesa Stieben #1-15

#### ELEVATIONS

KB 2216'

DF \_\_\_\_\_

GL 2209'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

SURFACE 8-5/8" @234'

PRODUCTION none

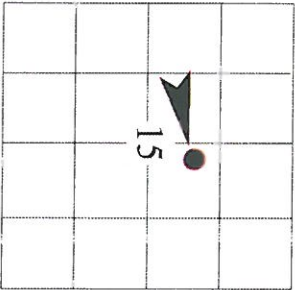
#### ELECTRICAL SURVEYS

CND, DIL, \_\_\_\_\_

*Log-Tech*

Struct  
Pos.

Formation	Sample Tops	E-log Tops
Anhydrite	1520 (+696)	1516 (-692)
Heebner	3676 (-1460)	3678 (-1462)
Lansing	3724 (-1508)	3724 (-1508)
Stark	3988 (-1772)	3986 (-1770)
Pawnee	4122 (-1906)	4122 (-1906)
Fort Scott	4198 (-1982)	4208 (-1992)
Cherokee Sh.	4219 (-2003)	4225 (-2009)
Mississippi	4292 (-2076)	4286 (-2070)
Osage	4302 (-2086)	4298 (-2082)



REMARKS The Matthews-Stieben #1 tested the Mississippian three times with negative results. The Electric log confirmed these results and the Matthews-Stieben #1 was therefore abandoned by the Operator.

Respectfully Submitted,

Sean Deenihan

15-135-25286

#### Geological Descriptions

Mudco @ 3535'

Curve Track 1  
 ROP (Min/Ft)   
 Gamma (API)   
 Calliper (inches)

Depth

Lithology

Shows Oil

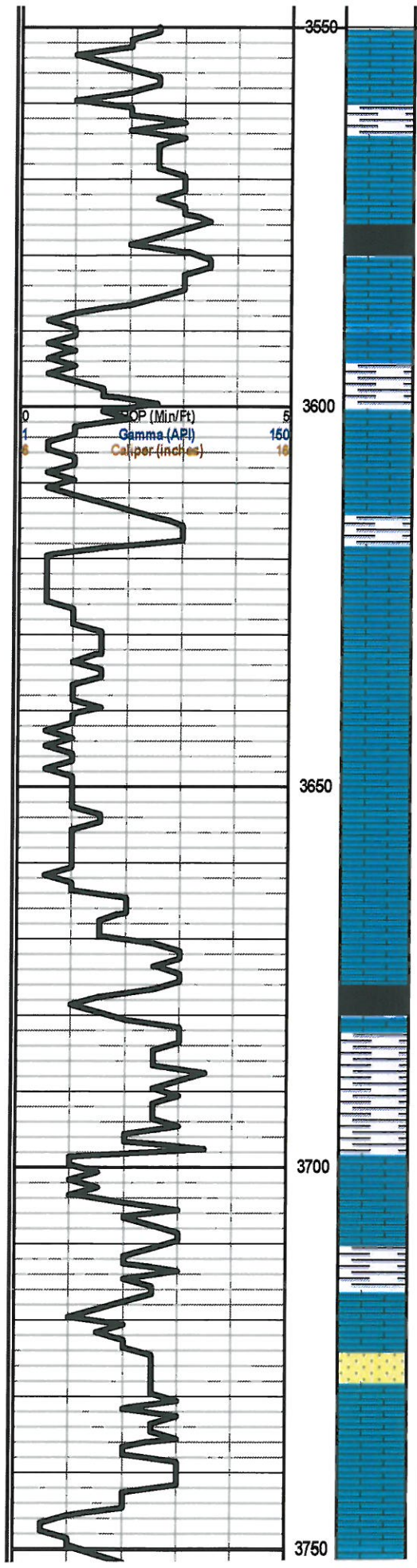
Wt.: 8.6  
 Vis: 46  
 Chl 5K  
 LCM 0#

DAILY PENETRATION  
 @ 6:30 A.M.

8/13/11 SPUD  
 8/14/11 1300'  
 8/15/11 2245"  
 8/16/11 2915'  
 8/17/11 3450'  
 8/18/11 4000'  
 8/19/11 4309'  
 8/20/11 4317'  
 8/21/11 4372' RTD

**Surveys**

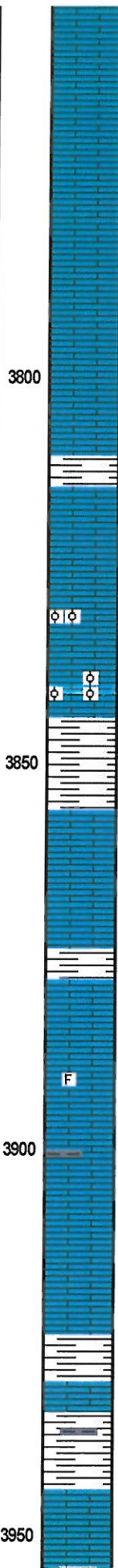
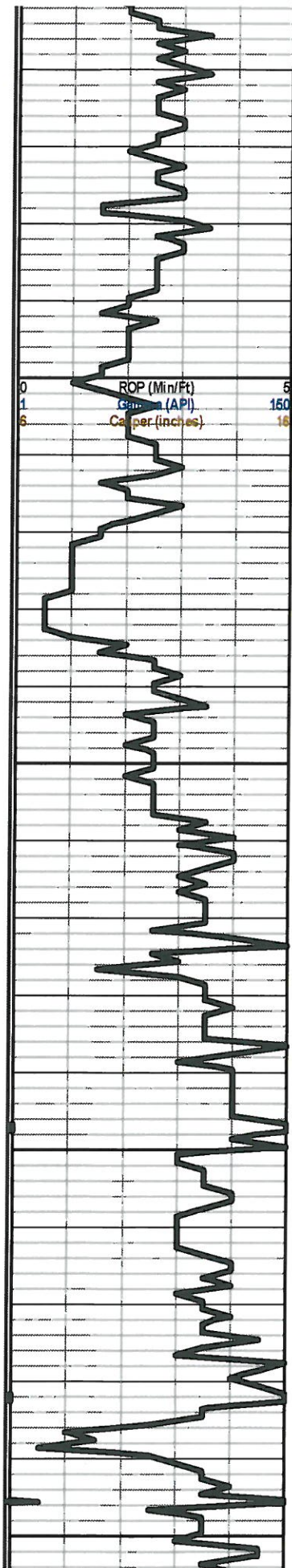
234' - .5  
 731' - 1  
 1234' - .75  
 1481' - .5  
 2294' - .5  
 2794' - 1  
 4309 - .5



Sh., gy, brn, firm  
 Sh., blk  
 Ls., gy, chlky soft  
 Sh., gy brn  
 Sh., gy, firm  
 Ls., crm, gy, vf gr, chlky, no odor  
 Ls., crm, vf gr, fos, chlky, fri, n/s  
 Ls., wh, crm, chlky, fos, n/s  
 Sh., blk  
 Sh., rd, gy, lt gy  
 Ls., crm, vf gr, fr intgran Por, fri, sli chlky, Ool IP, sme fr-gd Oom Por, soft, abd fos frags, n/s  
 Ls., crm, vf gr, p intgran Por, rr vug Por, firm, n/s  
 Ss., vf-f gr, ang, fr intgran Por, fri, no fluor, no odor  
 Ls., crm, vf xln, chlky, n/s  
 Ls., wh-crm, v chlky, sme Ool, p intgran Por, fri, n/s

**Heebner 3676 (-1460)**

**Lansing 3724 (-1508)**



Ls., wh, crm, xf-vf gr, NVP, firm, cherty, sme brittle, n/s

Ls., a.a

Ls., crm, vf gr, Ool, p-fr Oom Por, barren, p intgran por, n/s

Ls., crm, vf gr, p vis Por, sme re xtl fos,

Ls. vf-f gr, p - fr intgran Por, fri, no show

Sh., blk

Ls., Brn, gy, ool IP, fr oom Por, sli chlky, fr intgran Por, rr blk str, NSFO, no cut, no odor

Ls., brn, gy, f gr, abd fos, p intgran Por, rr vug, no odr

Ls., crm, vf gr, NVP, hd, brittle, n/s

Ls., gy, brn, tn, fr oom Por, fri, n/s

Ls., crm, vf gr, fos frags, p intgran Por, n/s

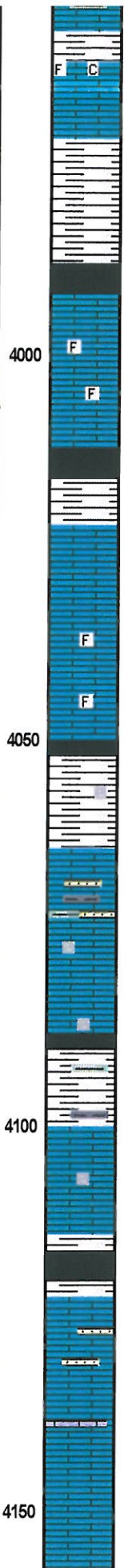
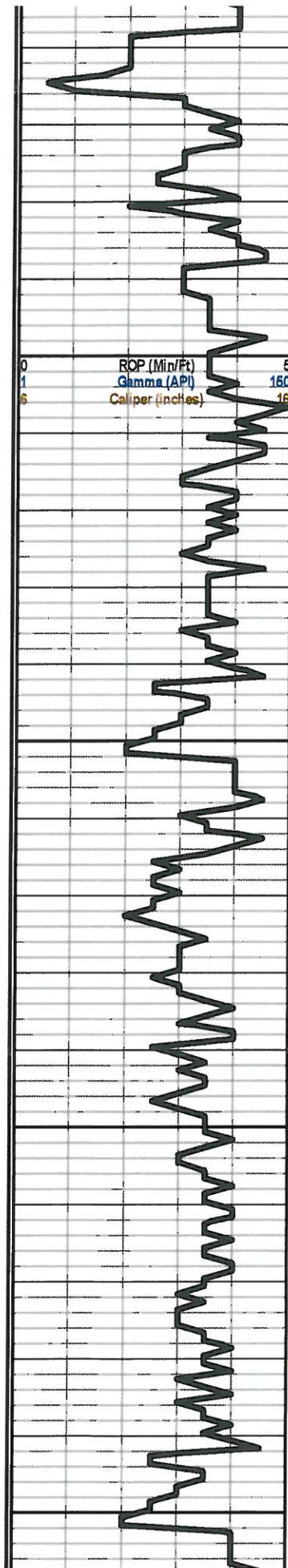
Ls., crm, vf gr, p intgran Por, firm -hd, fos, n/s

Sh., gy-dk gy, fis, firm

Ls., tan, mottled, fos, chlky. Rr Ss, f gr, mod srtd, fr intgran Por, mod acc min, some clean, fri, n/s

Ls., gy, crm, vf gr, p intgran Por, sli chlky, n/s





Sh., gy -blk, carb

**Stark 3988 (-1772)**

Sh., blk

Ls., crm, tn, vf gr, mod fos, p vis Por, firm-hd, no odr

Sh., blk, gy, rd, occ Ss, gy, f gr, ang, silty IP, n/s

Ls., crm, tn, f gr, p vis Por, hd, n/s

Abd. Sh, rd, teal, gy, soft silty

Ls., crm, vf gr, sli chlky, sdy p vis Por, no odr

Ls., gy, fos, NVP, Re-xtl, v hd, n/s

Sh., blk

Sh., gy-dk gy silty soft

Ls., vf, gr, gy, tn, p vis Por, firm-hd, n/s

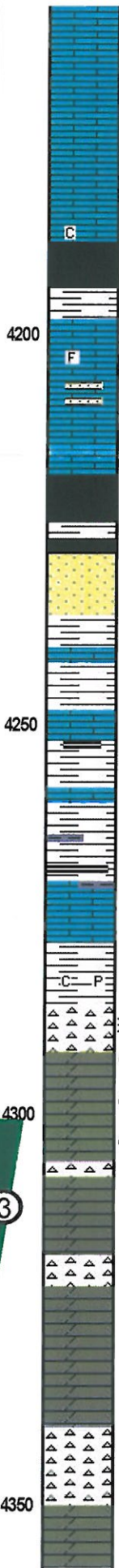
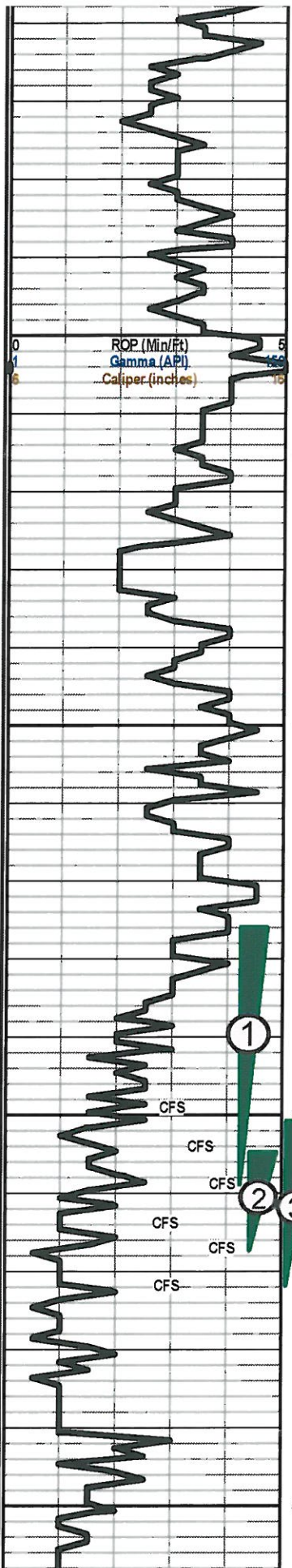
Sh., blk

**Pawnee 4122 (-1906)**

Ls., wh, vf gr, p vis Por, hd, brittle, n/s

Ls., crm, chlky, vf-f gr, fri, no odr. Ls., clr, re xtl, p vis Por, hd, n/s

Mudco @ 4029'  
 Wt.: 9.3  
 Vis: 46  
 Chl 6K  
 LCM 0#



Ls., crm, vf -f gr, fr intgran Por, sme chlky, rr Ss., a.a. no show

Ls., crm, gy, sdy, sme p intgran Por, dense firm, n/s

Sh., gy, dk gy,

Pred. Sh. dk gy -blk

**Ft. Scott 4198 (-1982)**

Ls., wh, crm, vf gr, dense, firm, rr blk edge str, frac, NSFO, no odor

Ss., wh, gy, vf gr, sb rd, v shaly, p vis Por, n/s

Ls., vf gr, NVP v hd, n/s

**Cherokee Sh. 4219 (-2003)**

Sh., blk

Ss., gy, vf gr, p intgran por, firm, n/s

Sh., blk

Sh., varic

Ls., crm, gy, vf gr, firm, p intgran Por, Chalky IP,

Sh., gy, purple, rd, brn, yellow mottled

Cong., varic, firm, n/s

Sh., gy, firm

**Warsaw 4292 (-2076)**

Dol., wh, crm, tn, xf xln, p-fr fos cast Por, abd Gils Stn, PSFO, fr odor

Dol., tn, suc, f-fr intxln Por, firm, sat w/ O IP, mod str, gd fluor

**Osage 4302 (-2086)**

Cht., clr, wh, frosted, sdy, v hd, NVP

Dol., wh, xf xln, cherty, P vis Intxln Por, Slow oil bleed in Acid,

Dol., wh, crm, mostly barren, slight str, fri, ft odor

Dol., gy, f xln, fr intxln por, firm, barren, n/s

Dol., wh, gy, f xln, fri, n/s

Mudco @ 4309'  
Wt.: 9.3  
Vis: 50  
Chl 6K  
LCM 0#

Strap @ 4309'  
2.51' Long to Board

**DST #1**  
4276-4409'  
10-30-10-0"  
IF: No Blow  
FF: No Blow (flush tool)  
No BB  
Rec: 5' OCM (10%O)  
10' OCM (1% O)  
IFP: 13-14#  
FFP: 15-20\*#  
SIP: 972#

**DST #2**  
4305-4317'  
30-60-90-90"  
IF: 2"  
FF: 3.5"  
No BB  
Rec: 50' CO  
20' OWCM  
(30%O, 10W, 60M)  
30' MCW (40%W, 60M)  
IFP: 13-21#  
FFP: 23-40\*#  
SIP: 1309-1252#

**DST #3**  
4301-4322'  
30-60-90-90"  
IF: Build to 7"  
FF: Build to 6"  
No BB  
Rec: 15' CO, 15' M,  
62' WCM, (5%W, 95%M)  
62' WCM (26%W, 74%M)  
IFP: 37-51#  
FFP: 22-40\*#

