1062555

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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 # 5123
Name: Pickrell Drilling Company, Inc.
Address 1: 100 S MAIN STE 505
Address 2:
City: WICHITA State: KS Zip: 67202 + 3738
Contact Person: Larry J. Richardson
Phone: (316) 262-8427
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Sean Dennihan
Purchaser: N/A

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 #:

08/13/2011	08/21/2011	08/21/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25286-00-00
Spot Description: NW SW NE NWNWSWNE
NW - NW - SW - NE Sec. 15 Twp. 18 S. R. 22 ☐ East ☑ West
1570 Feet from ☑ North / ☐ South Line of Section
2430 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
County: Ness
Lease Name: Matthews-Stieben Unit Well #: 1
Field Name:
Producing Formation: none
Elevation: Ground: 2213 Kelly Bushing: 2216
Total Depth: 4372 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 227 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 227
feet depth to: 0 w/ 150 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 6000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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: Deanna Garrison Date: 09/01/2011

Side Two

1062555

Operator Name: Pickrell Drilling Company, Inc. Lease Name: Matthews-Stieben Unit Well #: 1

Sec. 15 Twp. 18 S. R. 22 ☐ East ☑ West County: Ness

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:

Dual Induction
Dual Compensated Porosity

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

Name	Top	Datum
Fort Scott	4208	-1992
Cherokee Shale	4225	-2009
Mississippi	4286	-2070
Osage	4298	-2082

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 Casing	12.25	8.625	23	227	Class A	150	2%gel,3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
___ Perforate
___ Protect Casing
___ Plug Back TD
___ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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

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

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

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

PRODUCTION INTERVAL:

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

ALLIED CEMENTING CO., LLC. 037262

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

SERVICE POINT: Great Bend
8-21-11

DATE 8-21-11	SEC. 15	TWP. 18S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START 6:30 PM	JOB FINISH 7:30 PM
LEASE Mathews Stieben	WELL# 1		LOCATION Bazine west TO BBRD 2 North west ; ~ To			COUNTY Ness	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Pickrell Rig 18
TYPE OF JOB Rotary Plug
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 Pickrell Drilling

CEMENT

AMOUNT ORDERED 230 SX 60/40 4% + 1/4 # flo seal

EQUIPMENT

PUMP TRUCK CEMENTER Wayne
366 HELPER Greg
BULK TRUCK
341 DRIVER Doug
BULK TRUCK
DRIVER Jacob

COMMON	138	@ 16.25	2,242.50
POZMIX	92	@ 8.50	782.00
GEL	8	@ 21.25	170.00
CHLORIDE		@	
ASC		@	
flo seal	60	@ 2.70	162.00
HANDLING	240	@ 2.25	540.00
MILEAGE	240 X 12 X .11	316.80	344.00
		TOTAL	4240.50

REMARKS:

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

SERVICE

DEPTH OF JOB 1530
PUMP TRUCK CHARGE 1250.00
EXTRA FOOTAGE @
MILEAGE Hum 12 @ 7.00 84.00
MANIFOLD @
hum 12 @ 4.00 48.00
@
TOTAL 1382.00

CHARGE TO: Pickrell 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.

SALES TAX (If Any)
TOTAL CHARGES 5,622.50
DISCOUNT 20% 1,124.50 IF PAID IN 30 DAYS
4498.00

PRINTED NAME Mike Kern
SIGNATURE Mike Kern

ALLIED CEMENTING CO., LLC. 037340

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

SERVICE POINT:
Great Bend KS

DATE 8-13-11	SEC. 15	TWP. 18	RANGE 22W	CALLED OUT	ON LOCATION	JOB START 6:30am	JOB FINISH 7:00am
LEASE Matthews Kitchen Unit	WELL # 1		LOCATION Burrton KS 2W to RD 33 2¾N west into			COUNTY Reno	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Pickrell Drilling Rig #10
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 234
CASING SIZE 8⅝ DEPTH 229
TUBING SIZE DEPTH
DRILL PIPE 4½ DEPTH 234
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15ft
PERFS.
DISPLACEMENT Freshwater

OWNER Pickrell Drilling

CEMENT
AMOUNT ORDERED 150 sx class A 3%cc 2%gel

EQUIPMENT

PUMP TRUCK CEMENTER Billy R.
398 HELPER Trent H
BULK TRUCK
341 DRIVER Kevin W.
BULK TRUCK
DRIVER

REMARKS:
Pipe on bottom break circulation with rig pump. Hook up to cement pump truck. Mix 150sx Com 3% cc 2%gel with 2325 lbs water. Displace with 13.5 bbls water. Shut in Cement did Circulate.

COMMON	150	@ 16.25	2437.50
POZMIX		@	
GEL	3	@ 21.25	63.75
CHLORIDE	5	@ 58.20	291.00
ASC		@	
HANDLING	158	@ 2.25	355.50
MILEAGE	158 x .12 x 11		344.30
TOTAL			3491.55

SERVICE

DEPTH OF JOB	229		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE		@	
MILEAGE	Hvm 84 12	@ 2.00	84.00
MANIFOLD		@	
	Hvm 24 12	@ 4.00	48.00
		@	
TOTAL			1257.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

CHARGE TO: Pickrell Drilling
STREET
CITY STATE ZIP

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 Kerr

SIGNATURE Mike Kerr

Thank You!

SALES TAX (If Any)
TOTAL CHARGES 4748.75
DISCOUNT 20% 949.75 IF PAID IN 30 DAYS
3,799.00

New Book Rt. Miles
4880.75
ME - 608.00
4272.75
2% 854.55
3418.20
608.00
706 425.60
182.40
3418.20
182.40
3600.60
20/70
168.00 RT MI
96.00 RT ME

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

100 S Main STE 505
Wichita KS 67202

ATTN: Sean Deenhlan

Matthews-Stieben Unit #1

15-18-22w Ness Co

Job Ticket: 43288 DST#: 1

Test Start: 2011.08.19 @ 10:06:15

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:57:30
Time Test Ended: 14:40:45

Test Type: Conventional Bottom Hole
Tester: Will MacLean
Unit No: 48

Interval: 4276.00 ft (KB) To 4309.00 ft (KB) (TVD)
Total Depth: 4309.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

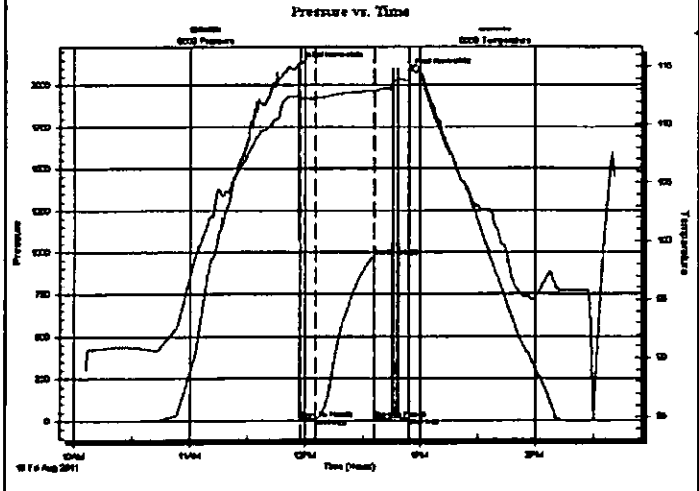
Reference Elevations: 2216.00 ft (KB)
2209.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6669 **Outside**

Press@RunDepth: 13.97 psig @ 4277.00 ft (KB)
Start Date: 2011.08.19 End Date: 2011.08.19
Start Time: 10:06:15 End Time: 14:40:45

Capacity: 8000.00 psig
Last Calib.: 2011.08.19
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%m	0.07
10.00	OCM- 1%o 99%-m	0.14

Gas Rates

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

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

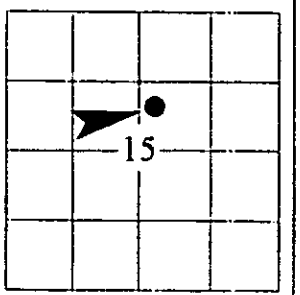
SAMPLES SAVED FROM 3500' TO RTD
DRILLING TIME KEPT FROM 3500' TO RTD
SAMPLES EXAMINED FROM 3500' TO RTD
GEOLOGICAL SUPERVISION FROM 3700'
REFERENCE WELL Grand Mesa Stieben #1-15

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

Formation	Sample Tops	E-log Tops	Struct Pos.
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)	+10
Osage	4302 (-2086)	4298 (-2082)	+14



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

Mudco @ 3535'

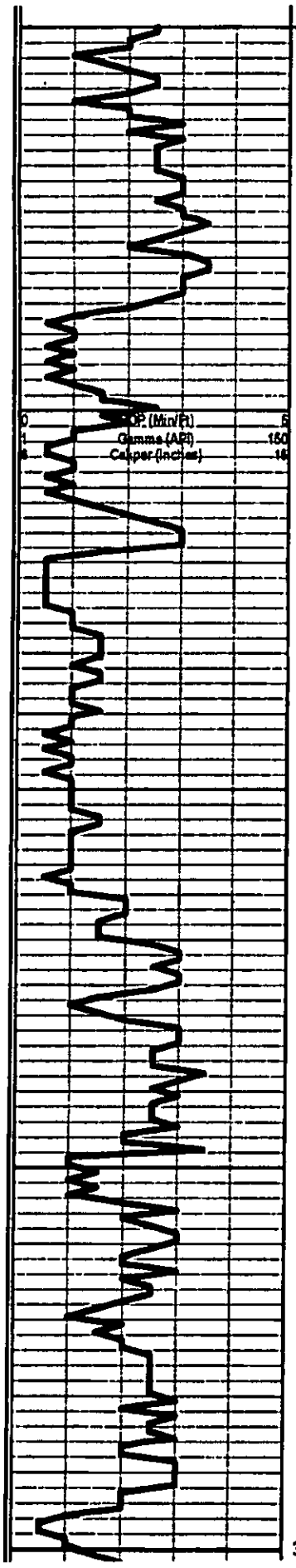
Geological Descriptions

Oil Shows

Lithology

Depth

Curve Track 1
ROP (Min/Ft)
Gamma (API)
Caliper (Inches)



3550

Sh., gy, brn, firm

Sh., blk

Ls., gy, chlky soft

3600

Sh., gy brn

Sh., gy, firm

Ls., crm, gy, vf gr, chlky, no odor

Ls., crm, vf gr, fos, chlky, fri, n/s

3650

Ls., wh, crm, chlky, fos, n/s

Heebner 3676 (-1460)

Sh., blk

Sh., rd, gy, lt gy

3700

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

Lansing 3724 (-1508)

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

3750

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

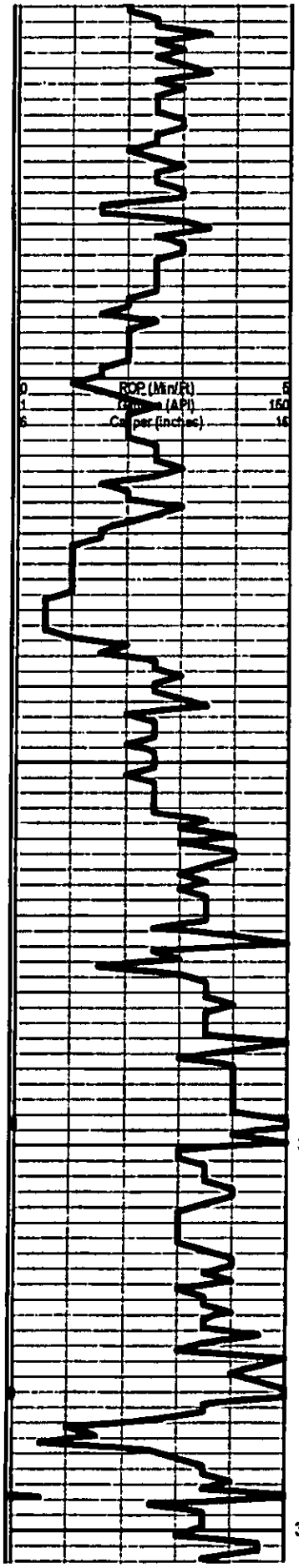
DAILY PENETRATION

@ 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



3800

3850

3900

3950

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 lP, fr oom Por, sli chlky, fr intgran Por, rr blk stn, NSFO, no out, 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

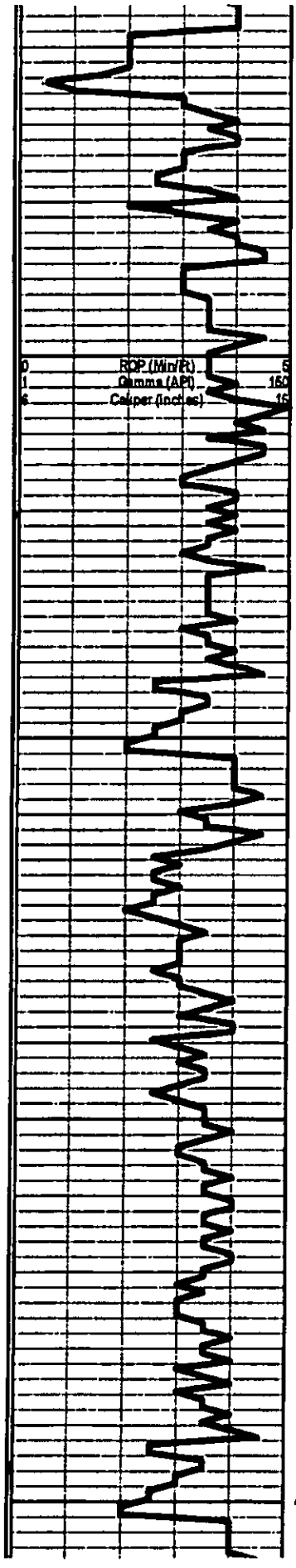
Ls., crm, vf gr, fos frags, p intgran Por, n/s

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



4000

4050

4100

4150

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 stn, 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 stn, 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 stn, 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

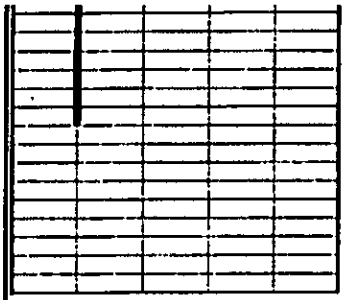
Rec: 50' CO
20' OWCM
(30%O, 10W, 60M)
30' MCW (40%W, 60M)

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: 23-40*#



Cht., wh, opq, fresh, rr stn, NSFO, no odor

RTD 4372 (-2156)

LTD 4378 (-2162)

SIP: 1343-1316#

Mudco @ 4322'
Wt.: 9.0
Vis: 59
Chl 6K
LCM 0#

KB: 2216

Pickrell Drilling Company, Inc.
Matthews- Stieben #1
1570' FNL & 2430' FEL Sec. 15 - 18S - 21W
Ness County, Kansas

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

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: 43288 DST#: 1

Test Start: 2011.08.19 @ 10:06:15

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.48 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

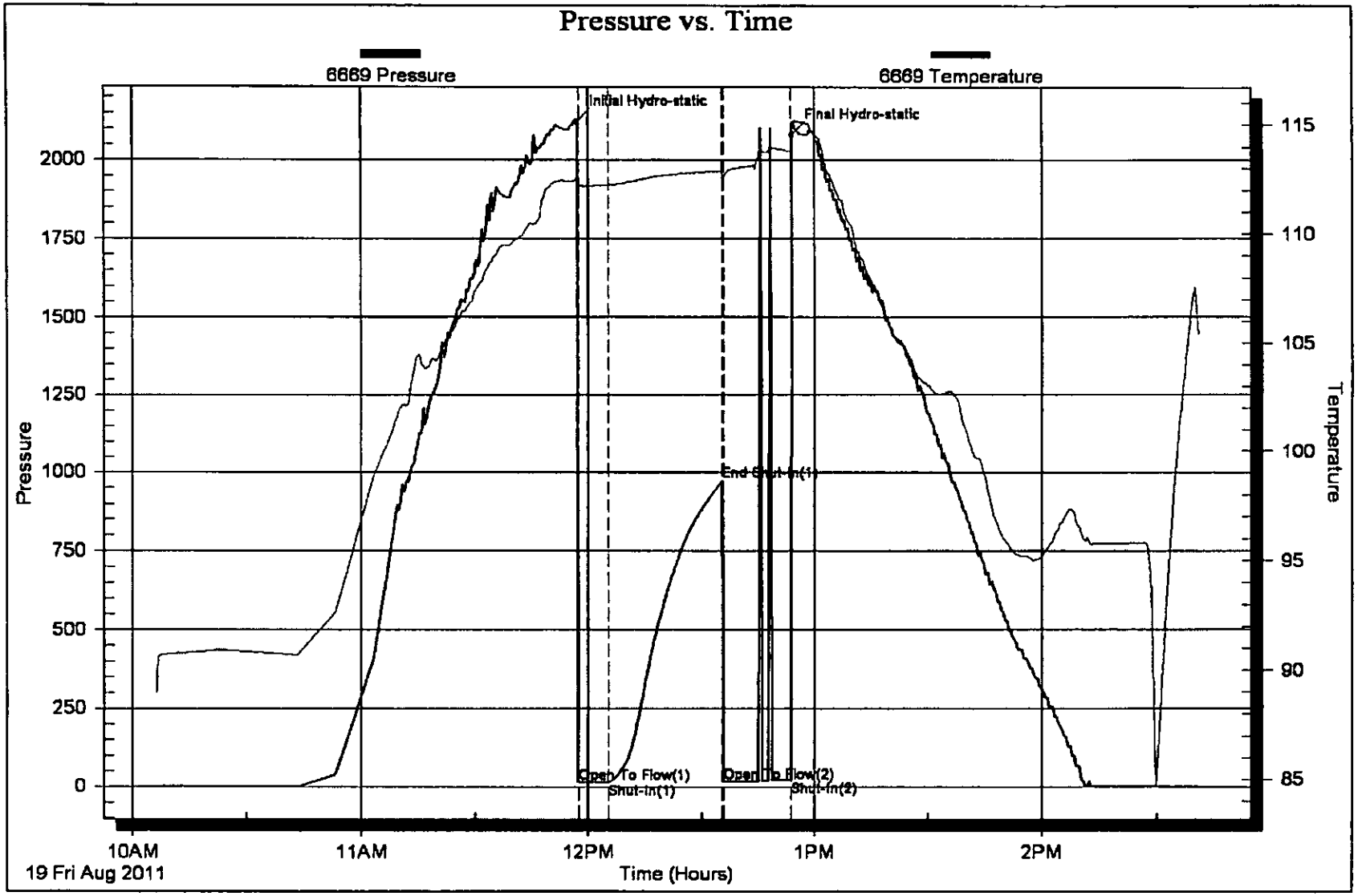
Length ft	Description	Volume bbl
5.00	OCM- 10% o-90%m	0.070
10.00	OCM- 1%o 99%-m	0.140

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
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
10AM
19 Fri Aug 2011
11AM
12PM
1PM
2PM
Time (Hours)

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: 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

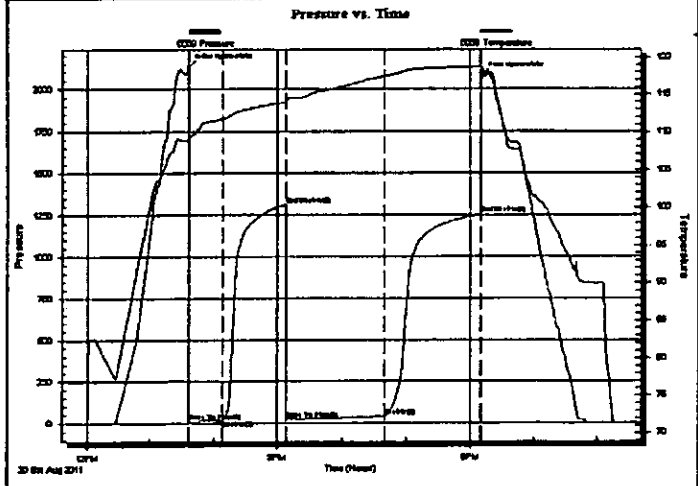
Interval: 4305.00 ft (KB) To 4317.00 ft (KB) (TVD)
Total Depth: 4317.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

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

100 S Main STE 505
Wichita KS 67202

ATTN: Sean Deenhian

Matthews-Stieben Unit #1

15-18-22w Ness Co

Job Ticket: 43289 DST#: 2

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 in³	Gas Cushion Type:			
Resistivity:	ohmm	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

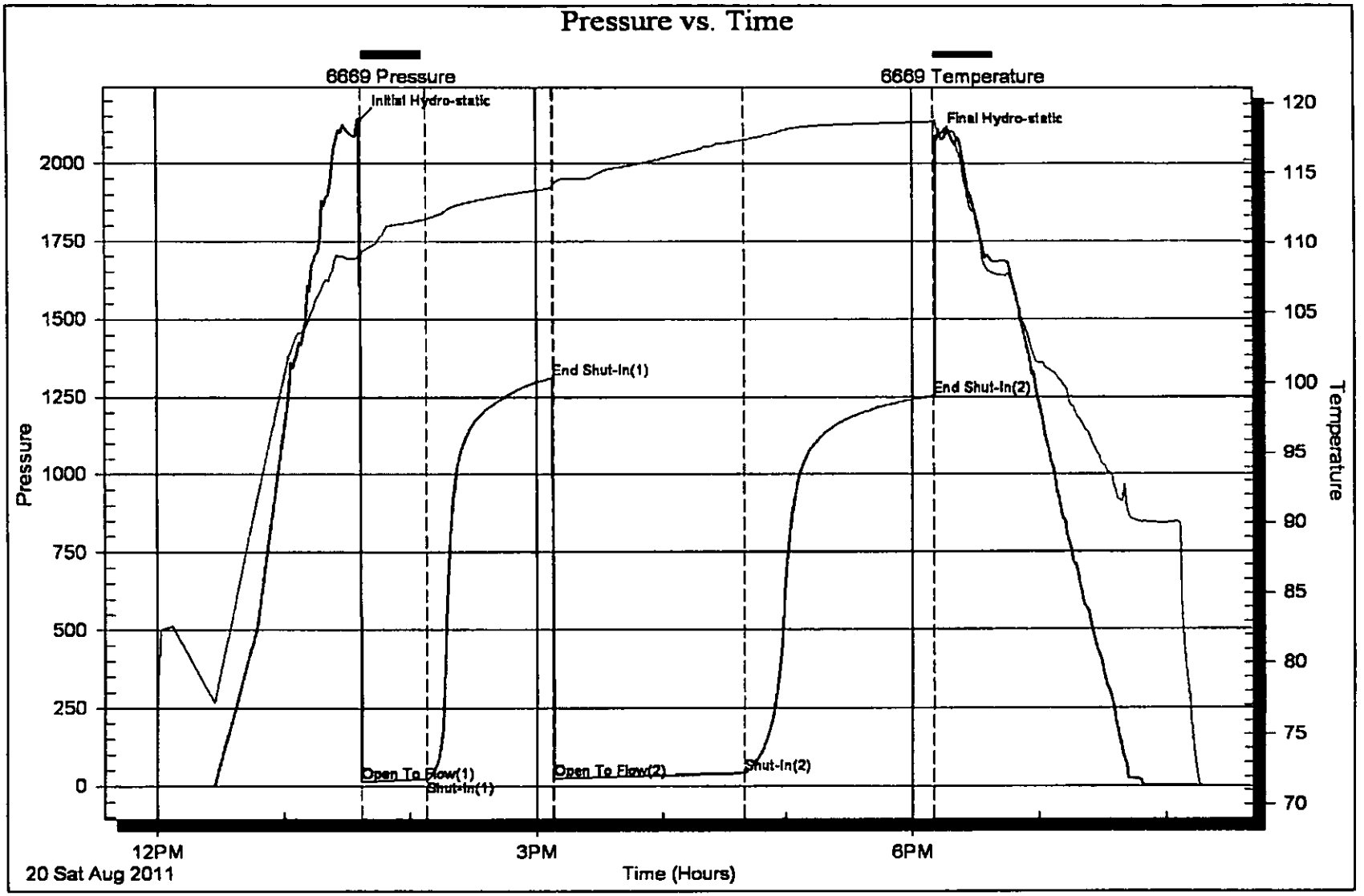
Length ft	Description	Volume bbl
20.00	ow cm 30%o 10%w 60%m	0.281
30.00	mcw 40%w 60%m	0.421
50.00	oil	0.701

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
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
12PM
3PM
6PM
20 Sat Aug 2011
Time (Hours)

DRILL STEM TEST REPORT

Pickrell Drilling Co Inc

100 S Main STE 505
Wichita KS 67202

ATTN: Sean Deenhlan

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

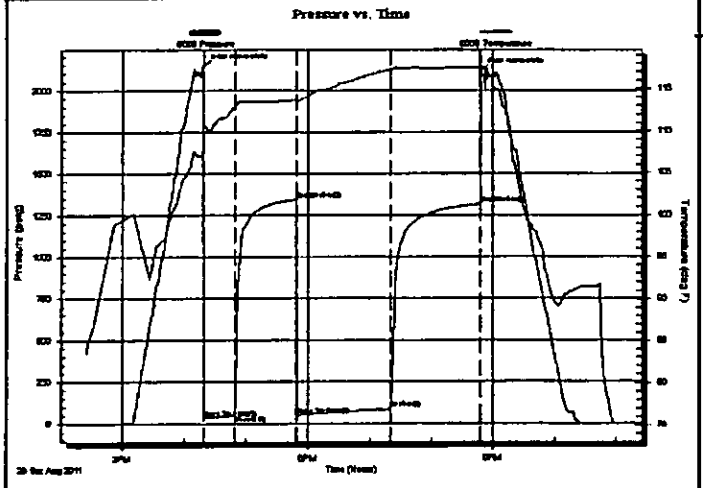
Interval: **4301.00 ft (KB) To 4322.00 ft (KB) (TVD)**
Total Depth: 4322.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 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

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

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 in³	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

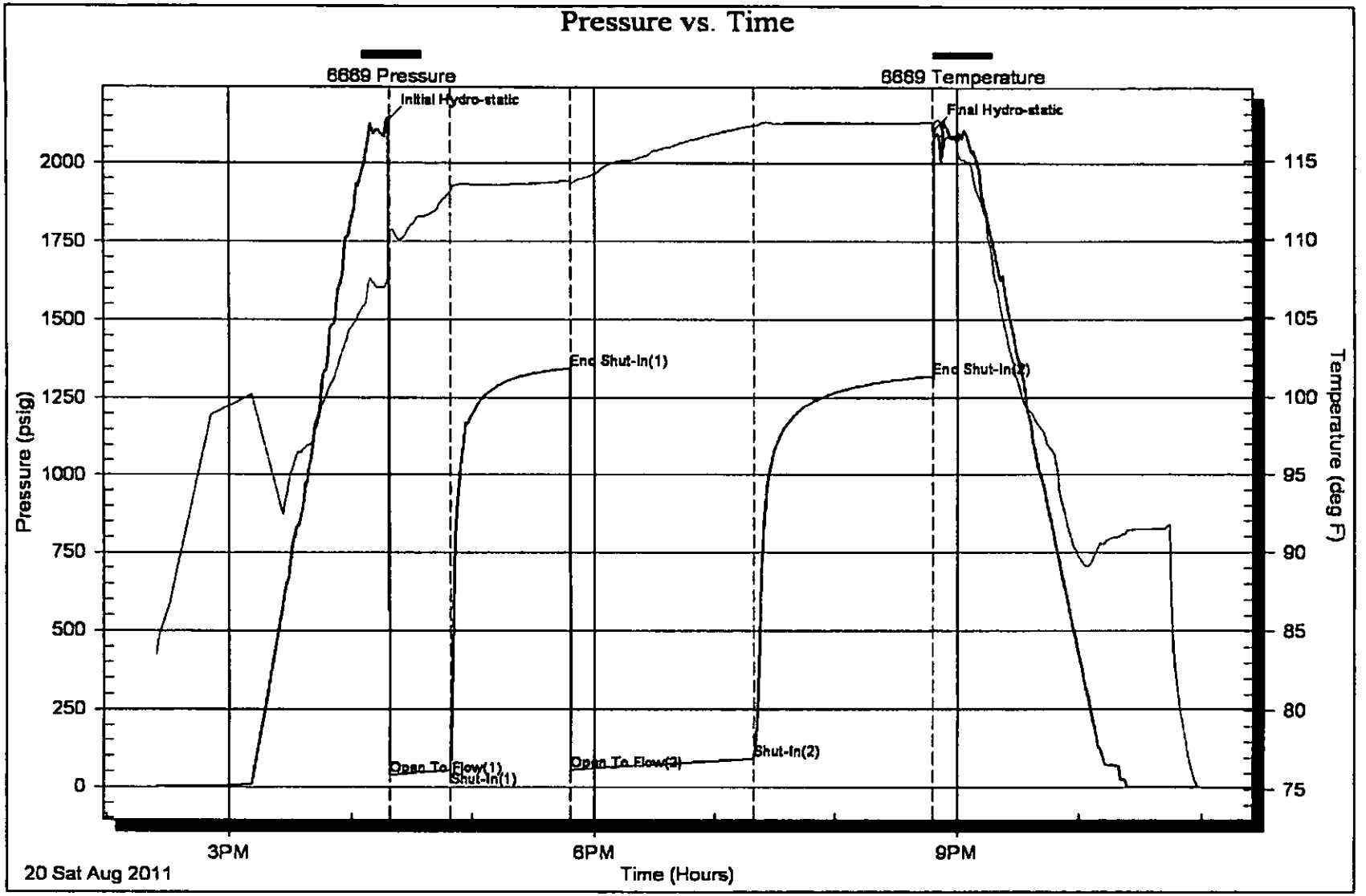
Length ft	Description	Volume bbl
15.00	free oil 100%o	0.210
15.00	m 100%m	0.210
62.00	w cm 5%w 95%m	0.870
62.00	w cm 26% w 74%m	0.870

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: API= 41@ 70 corrected to 40
RW=81.4°@ .71= 8500 ppm


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
3PM
6PM
9PM
Time (Hours)
20 Sat Aug 2011