



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

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: _____



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 Bbbs.	Gas Mcf	Water Bbbs.	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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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Drive
Phillipsburg, KS. 67661
ATTN: Cliff Ottaway

3-5s-18w-Phillips

Foundation #2

Job Ticket: 48738

DST#: 1

Test Start: 2012.11.26 @ 15:45:51

GENERAL INFORMATION:

Formation: **A**
 Deviated: **No** Whipstock: **0.00 ft (KB)**
 Time Tool Opened: 18:26:21
 Time Test Ended: 21:55:51
 Interval: **3044.00 ft (KB) To 3070.00 ft (KB) (TVD)**
 Total Depth: **3070.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jason McLemore**
 Unit No: **54**
 Reference Elevations: **1881.00 ft (KB)**
1873.00 ft (CF)
 KB to GR/CF: **8.00 ft**

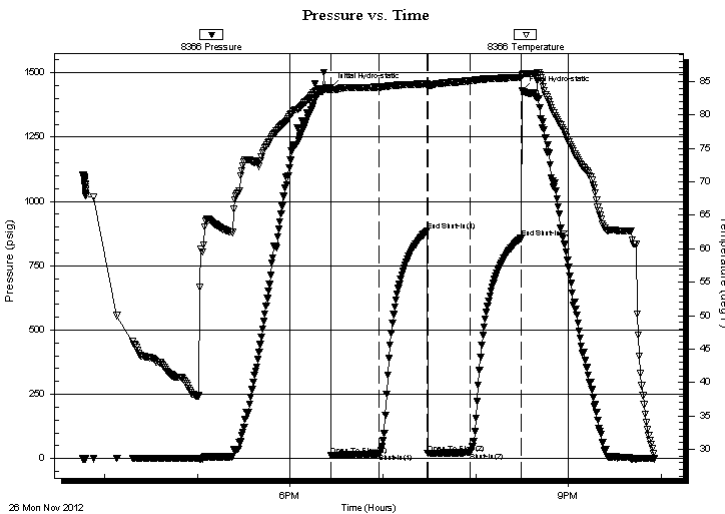
Serial #: 8366

Inside

Press @ Run Depth: 24.01 psig @ 3047.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.26 End Date: 2012.11.26 Last Calib.: 2012.11.26
 Start Time: 15:45:53 End Time: 21:55:51 Time On Btm: 2012.11.26 @ 18:26:06
 Time Off Btm: 2012.11.26 @ 20:29:51

TEST COMMENT: IFP-Weak Blow, Built to 1/2", Died in 12 Min.
 ISI-Dead
 FFP-Dead
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.75	84.08	Initial Hydro-static
1	11.68	83.59	Open To Flow (1)
32	19.01	84.17	Shut-In(1)
63	885.50	84.66	End Shut-In(1)
63	20.22	84.15	Open To Flow (2)
91	24.01	85.12	Shut-In(2)
123	858.57	85.64	End Shut-In(2)
124	1430.81	85.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	V SOCM-1%O-99%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources

3-5s-18w-Phillips

80 Windmill Drive
Phillipsburg, KS. 67661

Foundation #2

Job Ticket: 48738

DST#: 1

ATTN: Cliff Ottaway

Test Start: 2012.11.26 @ 15:45:51

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM-1%O-99%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

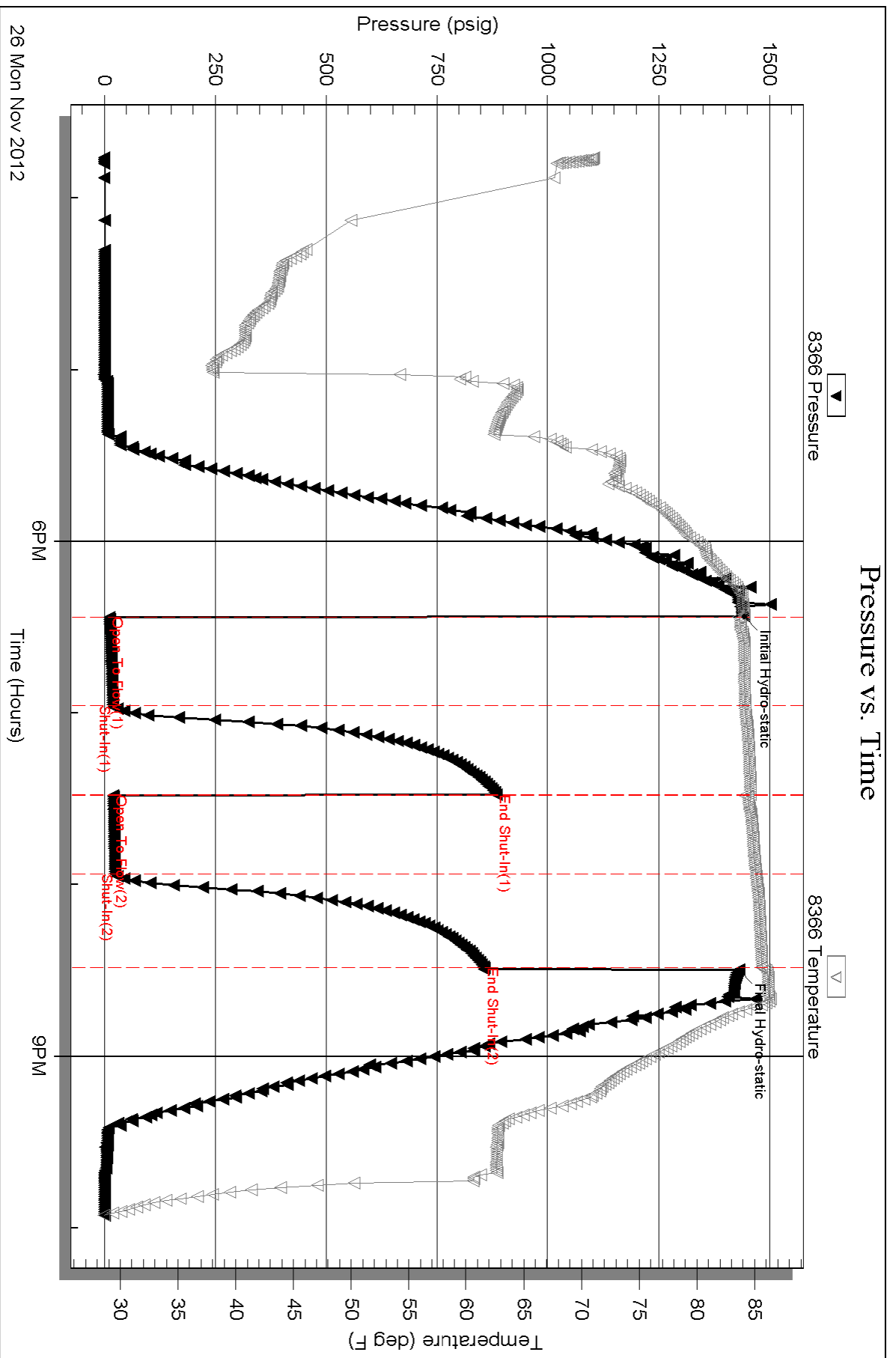
Serial #: 8366

Inside

Pioneer Resources

Foundation #2

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources
 80 Windmill Drive
 Phillipsburg, KS. 67661
 ATTN: Cliff Ottaway

3-5s-18w-Phillips
Foundation #2
 Job Ticket: 48739 **DST#: 2**
 Test Start: 2012.11.27 @ 04:30:28

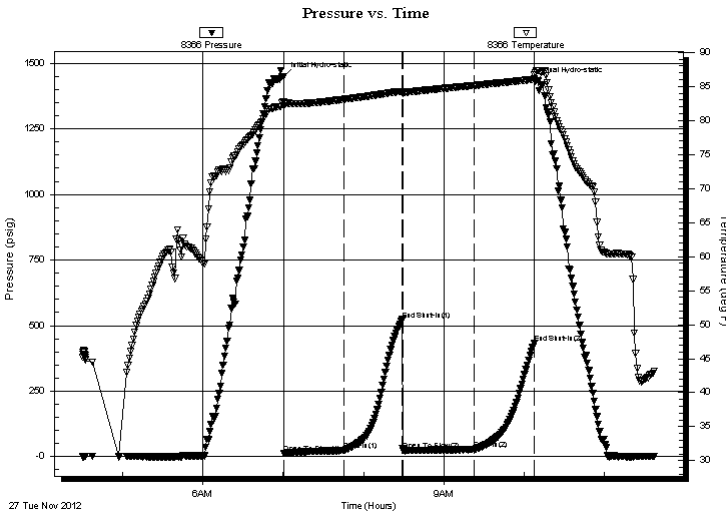
GENERAL INFORMATION:

Formation: **C-D**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 07:00:43
 Time Test Ended: 11:37:28
 Interval: **3080.00 ft (KB) To 3120.00 ft (KB) (TVD)**
 Total Depth: 3120.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1881.00 ft (KB)
 1873.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8366 Inside
 Press @ Run Depth: 27.73 psig @ 3117.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.27 End Date: 2012.11.27 Last Calib.: 2012.11.27
 Start Time: 04:30:30 End Time: 11:37:28 Time On Btm: 2012.11.27 @ 07:00:13
 Time Off Btm: 2012.11.27 @ 10:07:43

TEST COMMENT: IFP-Weak Blow , Built to 1-1/4"
 ISI-Dead
 FFP-Weak Blow , Built to 1"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1449.65	82.79	Initial Hydro-static
1	12.76	82.20	Open To Flow (1)
46	23.91	83.09	Shut-In(1)
89	522.78	84.27	End Shut-In(1)
90	23.80	84.13	Open To Flow (2)
143	27.73	85.12	Shut-In(2)
187	431.67	86.04	End Shut-In(2)
188	1431.47	86.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	HOCM-65%O-35%M	0.22
5.00	Free Oil	0.07
0.00	50' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources

3-5s-18w-Phillips

80 Windmill Drive
Phillipsburg, KS. 67661

Foundation #2

Job Ticket: 48739

DST#: 2

ATTN: Cliff Ottaway

Test Start: 2012.11.27 @ 04:30:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	HOCM-65%O-35%M	0.218
5.00	Free Oil	0.070
0.00	50' Gas In Pipe	0.000

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

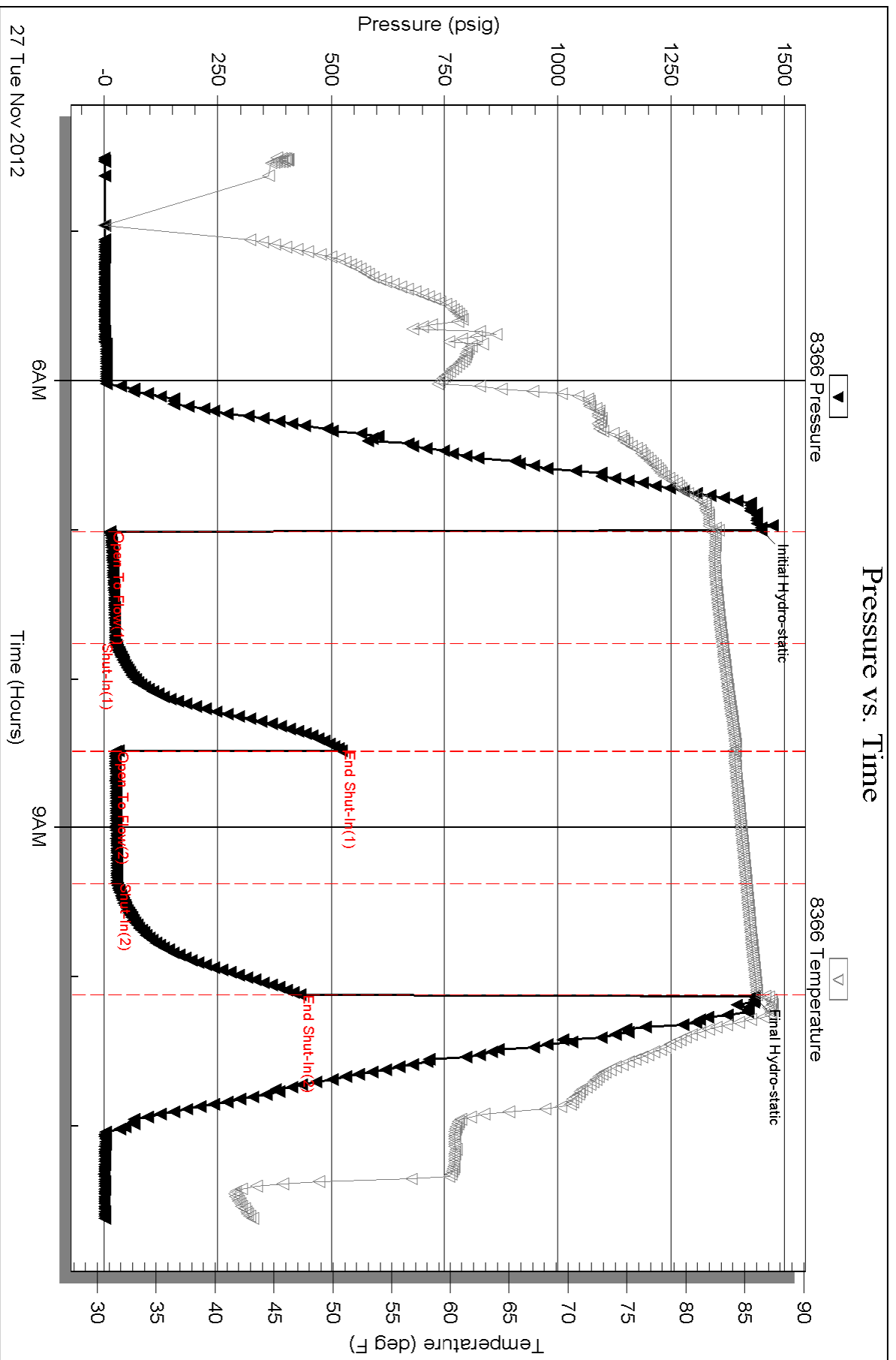
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Drive
Phillipsburg, KS. 67661
ATTN: Cliff Ottaway

3-5s-18w-Phillips

Foundation #2

Job Ticket: 48740

DST#: 3

Test Start: 2012.11.27 @ 17:19:21

GENERAL INFORMATION:

Formation: **E-F**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 19:15:21
 Time Test Ended: 22:44:51
 Interval: **3118.00 ft (KB) To 3145.00 ft (KB) (TVD)**
 Total Depth: 3145.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1881.00 ft (KB)
 1873.00 ft (CF)
 KB to GR/CF: 8.00 ft

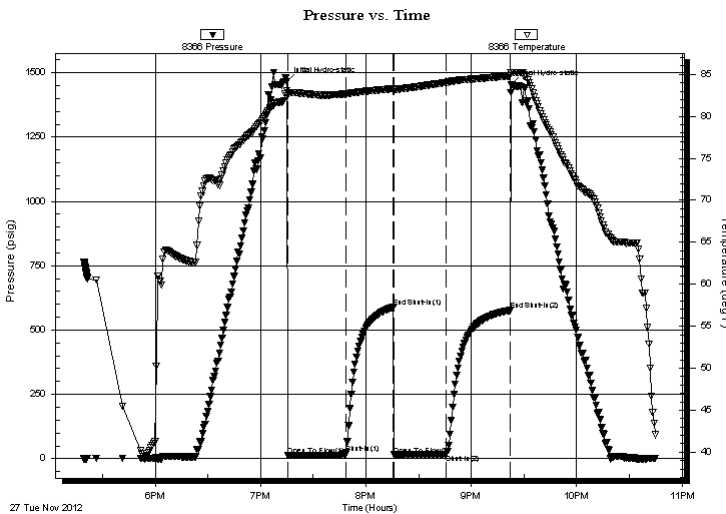
Serial #: 8366

Inside

Press @ Run Depth: 17.06 psig @ 3122.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.27 End Date: 2012.11.27 Last Calib.: 2012.11.27
 Start Time: 17:19:23 End Time: 22:44:51 Time On Btm: 2012.11.27 @ 19:15:06
 Time Off Btm: 2012.11.27 @ 21:22:51

TEST COMMENT: IFP-Weak Blow , Built to 1/2"
 ISI-Dead
 FFP-Dead
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.91	83.09	Initial Hydro-static
1	11.95	82.48	Open To Flow (1)
34	19.15	82.67	Shut-In(1)
61	589.24	83.30	End Shut-In(1)
61	15.10	82.98	Open To Flow (2)
91	17.06	84.03	Shut-In(2)
127	576.83	84.83	End Shut-In(2)
128	1455.69	85.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud W/Oil Specks	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources

3-5s-18w-Phillips

80 Windmill Drive
Phillipsburg, KS. 67661

Foundation #2

Job Ticket: 48740

DST#: 3

ATTN: Cliff Ottaway

Test Start: 2012.11.27 @ 17:19:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud W/Oil Specks	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

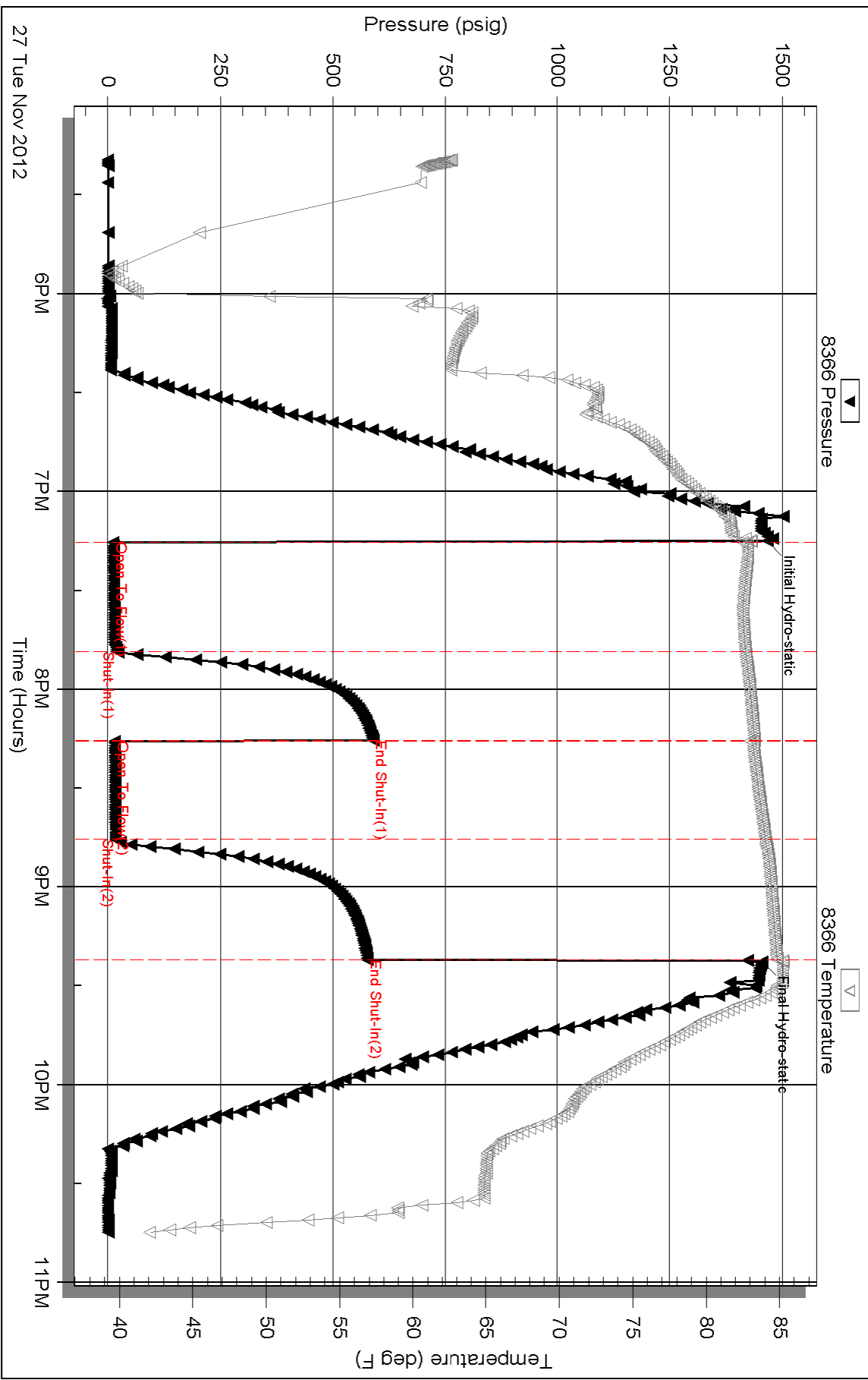
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Drive
Phillipsburg, KS. 67661
ATTN: Cliff Ottaway

3-5s-18w-Phillips

Foundation #2

Job Ticket: 48741

DST#: 4

Test Start: 2012.11.28 @ 04:54:07

GENERAL INFORMATION:

Formation: **G**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 06:54:07
 Time Test Ended: 11:59:52
 Interval: **3144.00 ft (KB) To 3164.00 ft (KB) (TVD)**
 Total Depth: 3164.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 1881.00 ft (KB)
 1873.00 ft (CF)
 KB to GR/CF: 8.00 ft

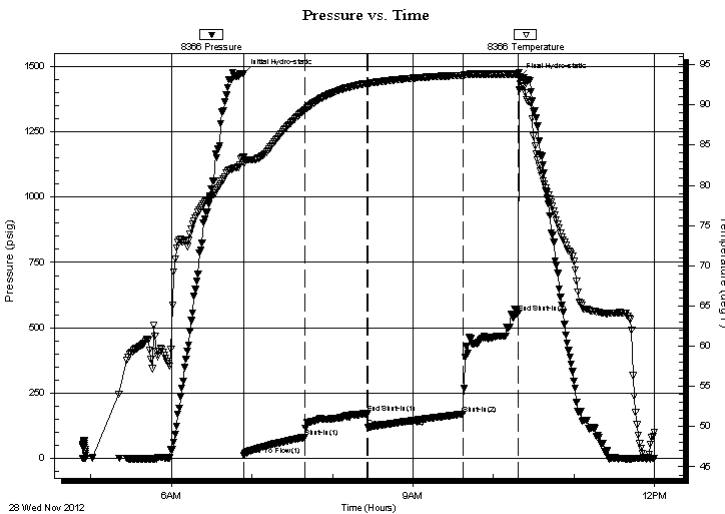
Serial #: 8366

Inside

Press @ Run Depth: 171.01 psig @ 3146.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 04:54:09 End Time: 11:59:52 Time On Btm: 2012.11.28 @ 06:53:37
 Time Off Btm: 2012.11.28 @ 10:19:07

TEST COMMENT: IFP-Fair Blow , Built to 7"
 ISI-Blow back Built to 4"
 FFP-Weak Blow , Built to 4"
 FSI-Blow back Built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1473.16	83.50	Initial Hydro-static
1	14.05	82.77	Open To Flow (1)
46	82.29	89.37	Shut-In(1)
93	172.44	92.69	End Shut-In(1)
93	120.00	92.67	Open To Flow (2)
164	171.01	93.67	Shut-In(2)
205	556.26	93.82	End Shut-In(2)
206	1457.92	93.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	Gassy Water W/Oil Scum 10%G-85%W	4.36
20.00	Free Oil	0.28
0.00	70' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources
80 Windmill Drive
Phillipsburg, KS. 67661
ATTN: Cliff Ottaway

3-5s-18w-Phillips
Foundation #2
Job Ticket: 48741 **DST#: 4**
Test Start: 2012.11.28 @ 04:54:07

Mud and Cushion Information

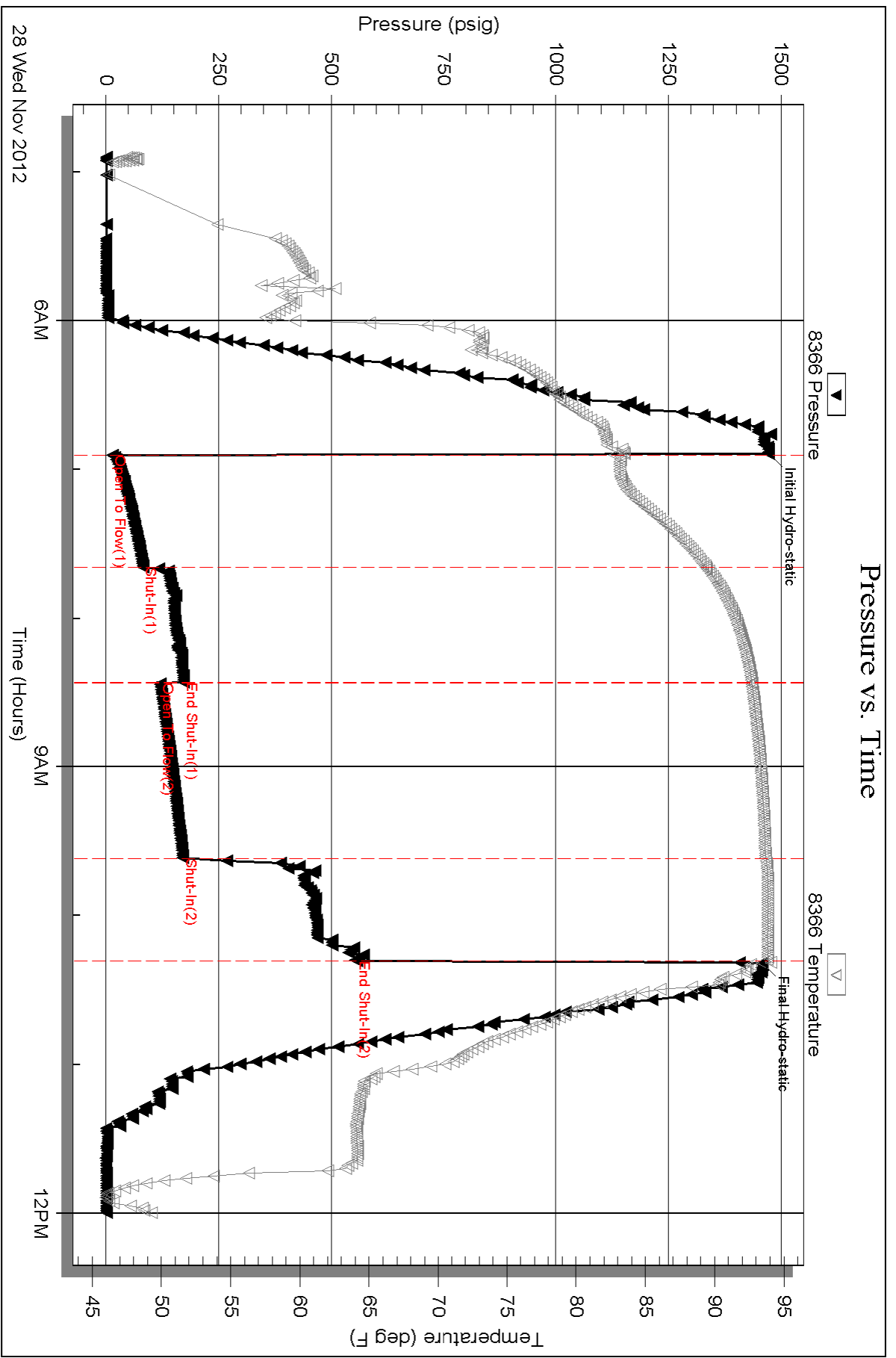
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 50000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	Gassy Water W/Oil Scum 10%G-85%W-5%N	4.356
20.00	Free Oil	0.281
0.00	70' Gas In Pipe	0.000

Total Length: 350.00 ft Total Volume: 4.637 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



ALLIED OIL & GAS SERVICES, LLC 056068

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell, KS

DATE <i>11-23-12</i>	SEC. <i>3</i>	TWP. <i>5</i>	RANGE <i>18</i>	CALLED OUT	ON LOCATION	JOB START <i>8:00</i>	JOB FINISH <i>8:30</i>
FOUNDATION LEASE	WELL# <i>2</i>	LOCATION <i>Stockton, KS</i>			COUNTY <i>Woodson</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)		<i>112 N 15th St Woodson, KS</i>					

CONTRACTOR *Discovery #1*

TYPE OF JOB *Septage*

HOLE SIZE *2 1/2"* T.D.

CASING SIZE *2 3/8"* DEPTH *220.82*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *12.84 gal*

OWNER *2-01*

CEMENT AMOUNT ORDERED *150 sc class A*

3/00 2/94

COMMON	<i>150 SK</i>	@	<i>17.90</i>	\$ <i>2,685.00</i>
POZMIX		@		
GEL	<i>3 sks</i>	@	<i>23.40</i>	\$ <i>70.20</i>
CHLORIDE	<i>5 sks</i>	@	<i>64.00</i>	\$ <i>320.00</i>
ASC		@		
HANDLING	<i>162.09</i>	@	<i>2.98</i>	\$ <i>481.95</i>
MILEAGE	<i>407.00</i>	@	<i>2.60</i>	\$ <i>1,058.20</i>
				TOTAL \$ <i>4,555.35</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Tony P. Bob S. 1*

409 HELPER *Koua K 3*

BULK TRUCK DRIVER *Nathan D. 3*

378 DRIVER

REMARKS:

** circulated mud to surface*

** ran cement pumped (25.79 gal)*

① 100sk.

** Displaced cement to surface*

① 12.84 gal

** Shut in cement to 200 ft.*

Thanks!

SERVICE

DEPTH OF JOB *220.82*

PUMP TRUCK CHARGE *\$ 1,512.25*

EXTRA FOOTAGE @

MILEAGE *Hwy 55 miles* @ *7.70* \$ *423.50*

MANIFOLD *Light 55 miles* @ *4.40* \$ *242.00*

TOTAL \$ *2,177.75*

CHARGE TO: *Pioneer Resources*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, L.L.C.
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) *193.73*

TOTAL CHARGES \$ *6,713.14*

DISCOUNT \$ *1,812.55* IF PAID IN 30 DAYS

Net: 4,900.59 11-25

before tax BS

PRINTED NAME _____

SIGNATURE *Cody Mayfield*

CLIFF OTTAWAY

P.O. BOX 494 * HAYS, KS 67601 * 785-628-6900

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>PIONEER RESOURCES</u> LEASE <u>FOUNDATION No 2</u> FIELD _____ LOCATION <u>335' FNL & 2310' FEL</u> SEC <u>3</u> TWSP <u>5</u> RGE <u>18</u> COUNTY <u>PHILLIPS</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>1873'</u> DF <u>1871'</u> GL <u>1865'</u> Measurements Are All From <u>K.B.</u>
CONTRACTOR <u>DISCOVERY DRG RIG 2</u> SPUD <u>11-23-12</u> COMP <u>11-28-12</u> RTD <u>3340'</u> LTD <u>3342'</u> MUD UP <u>2700'</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8" @ 220 w/150</u> PRODUCTION <u>D+A</u> ELECTRICAL SURVEYS <u>CDL/CNL</u> <u>DIL</u>

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
ANHYDRITE	1328	1330	+543	+570	+559	
TOPEKA	2807	2810	-937	-935	-937	
HEEBNER	3010	3012	-1139	-1138	-1138	
TORONTO	3038	3040	-1167	-1162		
LANSING-KC.	3052	3054	-1181	-1179	-1181	
BASE-KC.	3277	3278	-1405	-1405	-1405	
RTD.		3340	-1467	-1471	-1417	
L.T.D.		3342	-1469			

REFERENCE WELLS FOR STRUCTURE

- A OZARK ENTERPRISES ARMSTRONG No 2 C-No NE 3-5
- B OZARK ENTERPRISES ARMSTRONG No 1 NW-NE-NW 3-5
- C _____